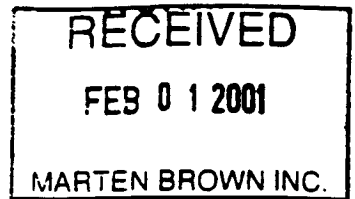


Memo



To: Paul Agid
From: Beth Clark
Date: 1/22/2002
Re: Summit Ridge

Attached to this memorandum is environmental documentation related to the Summit Ridge fill source located in Bellevue, Washington. This information was provided to Ecology in the Port's Fourth Quarter 2000 Fill Submittal Report. Included in this documentation is information regarding *potential* petroleum-impacted soil from Summit Ridge that was placed and subsequently removed from the Third Runway embankment. In order to provide some additional detail regarding this event, I spoke to representatives from Hart Crowser and the Port site inspector. For this particular project, Hart Crowser was the engineering firm representing the site owner and was not representing the Port of Seattle. Based on discussions with Hart Crowser and the Port site inspector and on the review of the site fill submittals the following sequence of events was identified:

- The Summit Ridge site was a former residential parcel located in downtown Bellevue. The initial environmental review of this site did not identify any significant environmental issues of concern (Summit Ridge Fill Source Site Approval, Amec, October 2, 2000). Because of the site's location in an urban area, the Port required periodic inspection by an environmental professional during the excavation of the upper 10 feet of the site.
- The Port began receiving soil from Summit Ridge the evening of October 4, 2000.
- On October 5, 2000, Sellen Construction contacted Hart Crowser regarding petroleum odors in excavated site soil. Upon visiting the site, Hart Crowser representatives identified potential petroleum-impacted soil in a site soil stockpile. Hart Crowser notified the Port and all haul from Summit Ridge to the Third Runway embankment was discontinued.
- On October 6, 2000 Hart Crowser collected soil samples from the Summit Ridge site including soil from the site stockpile. Some of the soil in the stockpile was found to contain detectable levels of petroleum hydrocarbons. The presence of petroleum hydrocarbons was attributed to a former home heating oil tank.
- Because petroleum hydrocarbons were identified at the source site, the Port conservatively required that *all* soil from the Summit Ridge site that had been placed at the Third Runway since the beginning of haul on October 4, 2000 *plus* soil immediately in contact with the Summit Ridge soil be removed.
- On October 6 and 7, 2000 approximately 1540 tons of soil were removed from the Third Runway and disposed of at a disposal facility in Everett, Washington. In place testing of the soil at the Third Runway was not required because soil placed in the Third Runway embankment from the Summit Ridge source plus the surrounding non-Summit Ridge soil, whether impacted or not, was removed.

AR 019668

Exhibit	279
Date	2/7/02
Witness	CLARK
Print Name	Court Reporter

- On October 12, 2000, upon receiving documentation that all petroleum-impacted soil was removed from the Summit Ridge site, the Port gave approval for haul from this site to resume under the condition that there be full-time environmental supervision to an excavation depth of at least 25 feet.
- Minor amounts of petroleum-impacted soil were encountered during subsequent excavation activities. In each instance haul to the Third Runway was immediately stopped prior to any suspect soil leaving the project site. Environmental documentation of the removal of the impacted soil was reviewed prior to resuming haul.

Based on review of the information and discussions with parties involved, some petroleum-impacted soil may have been placed at the Third Runway embankment from the Summit Ridge fill source. However, to remove any concern regarding this material the Port conservatively required that all soil from the Summit Ridge site that had been placed since the beginning of haul on October 4, 2000 plus all soil immediately in contact with that soil be removed. Subsequent to this event the Port implemented several safeguards to ensure that no additional impacted soil was transported to the Third Runway. If you have any questions regarding the Summit Ridge fill source I can be reached at (206-431-4918).

**SUPPLEMENT
ENVIRONMENTAL REVIEW SHEET
Airport Project Fill Material**

CONTRACTOR/SUPPLIER NAME: CTI

SITE: Summit Ridge

SITE LOCATION: Bellevue

DATE INITIAL REPORT TO ECOLOGY: Fourth Quarter 2000

COMMENTS:

This supplement provides additional environmental documentation provided after the initial fill approval submittal. The documentation includes the results of fourth quarter environmental monitoring and testing required by the Port. During this time, the supplier notified the Port of four instances where minor amounts of petroleum impacted soil was encountered during excavation. In one instance, some impacted soil was hauled from the site and rejected at the Third Runway. In the remaining instances hauling was discontinued from the site until the impacted soil was removed.

REVIEWER: E Clark DATE: 1/24/01

AR 019670



January 9, 2001
0-93M-00087-0 Task 14

City Transfer, Inc.
2720 East Valley Highway E.
Sumner, Washington 98390

Attention: Keith Benson

Subject: Monitoring Summary Report
Summit Ridge
N.E. 4th Street and 108th Avenue N.E.
Bellevue, Washington

Dear Mr. Benson:

AMEC Earth & Environmental, Inc. (AMEC) has provided consultation services to City Transfer, Inc. (CTI) for qualification of export fill sites and classification of soils for appropriate end uses on the site.

On behalf of CTI and the site owner, respectively, AMEC and Hart Crowser have monitored site works and sampled site soils as excavation proceeded at Summit Ridge. AMEC commenced work on the site on October 7, 2000 and was in attendance during the hours the contractors (Sellen) were working. On site screening and supervision continued on a full time basis until December 12, 2000. All movement of soil was supervised during that time period with the exception of 500 cubic yards which were moved on the night of the 19th October, 2000 and later verified as having been appropriately stockpiled. Periodic monitoring on a weekly basis commenced after December 12, 2000 and was completed on January 5, 2001 as total sub-grade had been achieved earlier in the week.

AMEC Earth & Environmental, Inc.
11335 N.E. 122nd Way, Suite 100
Kirkland, Washington
USA 98034
Tel (425) 820-4669
Fax (425) 821-3914
www.amec.com

AR 019671



City Transfer, Inc.
January 9, 2001

0-93M-00087-0
Page 2

AMEC appreciates the opportunity to be of service to City Transfer, Inc. Please contact the undersigned at (425) 820-4669 if you have questions or require additional information.

Sincerely,

AMEC Earth & Environmental, Inc.

A handwritten signature in black ink, appearing to read "Meg Strong".

Meg Strong
Associate

A handwritten signature in black ink, appearing to read "Mark W. Johns".

Mark W. Johns
Principal

MJS/MWJ/jdp

CC Beth Clark POS

AR 019672

Clark, Beth

From: Clark, Beth
Sent: Monday, November 27, 2000 2:12 PM
To: Thomson, Jim; Lowe, Rick; Keith Benson (E-mail); Dee Gardner (E-mail); Bill Lockard (E-mail); Brown, Bill
Subject: Summit

On November 21, 2000 petroleum impacted soil, attributed to a unreported fueling accident, was encountered at the Summit Ridge site in Bellevue. Export of soil to the Third Runway was suspended pending removal of the material. AMEC has provided documentation that the material has been removed. Haul to the Third Runway can resume under the continued supervision of an environmental professional.

Based on my discussions with Dee Gardner of AMEC supervision shall be accomplished as follows: During the day-time hours, Hart Crowser will have an onsite geotechnical engineer overseeing site construction activities – no off-site transport is occurring during the day-time hours. During the night-time hours, AMEC will have an onsite environmental professional supervising the major excavation activities and all hauling activities.

If you have any questions I can be reached at 431-4918.

Beth Clark

11/27/00 12:40
F.C



City Transfer of Kent, Inc.

F A X

TO: *Beth Clark*

COMPANY: *Port of Seattle*

DATE: *11/27/00*


FROM: *Keith Benson*

TOTAL # OF  *15* **(INCLUDING COVER)**

SUBJECT: *Summit Ridge - Clearance Report*

Please note:

IF YOU DO NOT RECEIVE ALL OF THESE  PLEASE CALL

 (253) 850-1775

FAX #: (253) 850-1797

THIS DOCUMENT IS BEING TRANSMITTED TO FAX # (206) 988-5636



November 27, 2000
0-93M-00087-0 Task 14

City Transfer, Inc.
2720 East Valley Highway E.
Sumner, Washington 98390

Attention: Keith Benson

Subject: Clearance Sample Results – November 22, 2000
Summit Ridge
N.E. 4th Street and 108th Avenue NE
Bellevue, Washington

Dear Mr. Benson:

As requested, AMEC provided third-party oversight of petroleum-contaminated soil (PCS) characterization activities performed by Hart Crowser at the Summit Ridge development located southeast of the intersection of NE 4th Street and 108th Avenue NE in Bellevue, Washington. AMEC was present at the time the PCS was identified and observed the delineation, and subsequent sampling and cleanup activities performed by Hart Crowser, the environmental consultant for the owner/developer. AMEC subsequently reviewed the laboratory analytical results for Hart Crowser's characterization, delineation and clearance sampling. Hart Crowser's formal report is pending.

PCS Removal and Cleanup

On November 21, 2000, perimeter benching activities encountered one area of PCS at the west side of the site. The PCS was encountered in native till soils at a depth of 35 feet below grade and is attributed to an unreported equipment fueling accident. Immediately upon discovery, City Transfer, Inc. (CTI), was notified, and export activities were suspended. The PCS was hauled off-site and disposed at an appropriate facility by the morning of November 22, 2000. Export of "clean" soils remains suspended pending CTI's acceptance of this letter.

Based upon AMEC's observations, initial sampling analytical results, and review of the information provided by Hart Crowser, it is our opinion that the field screening and sampling was performed in an appropriate manner and that the PCS was removed in accordance with State

AMEC Earth & Environmental, Inc.
11335 N.E. 122nd Way, Suite 100
Kirkland, Washington
USA 98034
Tel (425) 820-4800
Fax (425) 821-3914
www.amec.com

AR 019675



City Transfer, Inc.
October 23, 2000

regulations and guidelines. Copies of Hart Crowser's site sketches, laboratory analytical results, and summary are attached.

AMEC trusts that this letter meets the current needs of CTI. If you should have any questions, please do not hesitate to contact us at your convenience.

Sincerely,

AMEC Earth & Environmental, Inc.

A handwritten signature in dark ink, appearing to read "DHG".

Deborah H. Gardner
Associate

Enclosures: Hart Crowser Sample Location Sketches
Hart Crowser Appendix C Soil Removal Summary
Analytical Test Results

DHG/FSA/cc

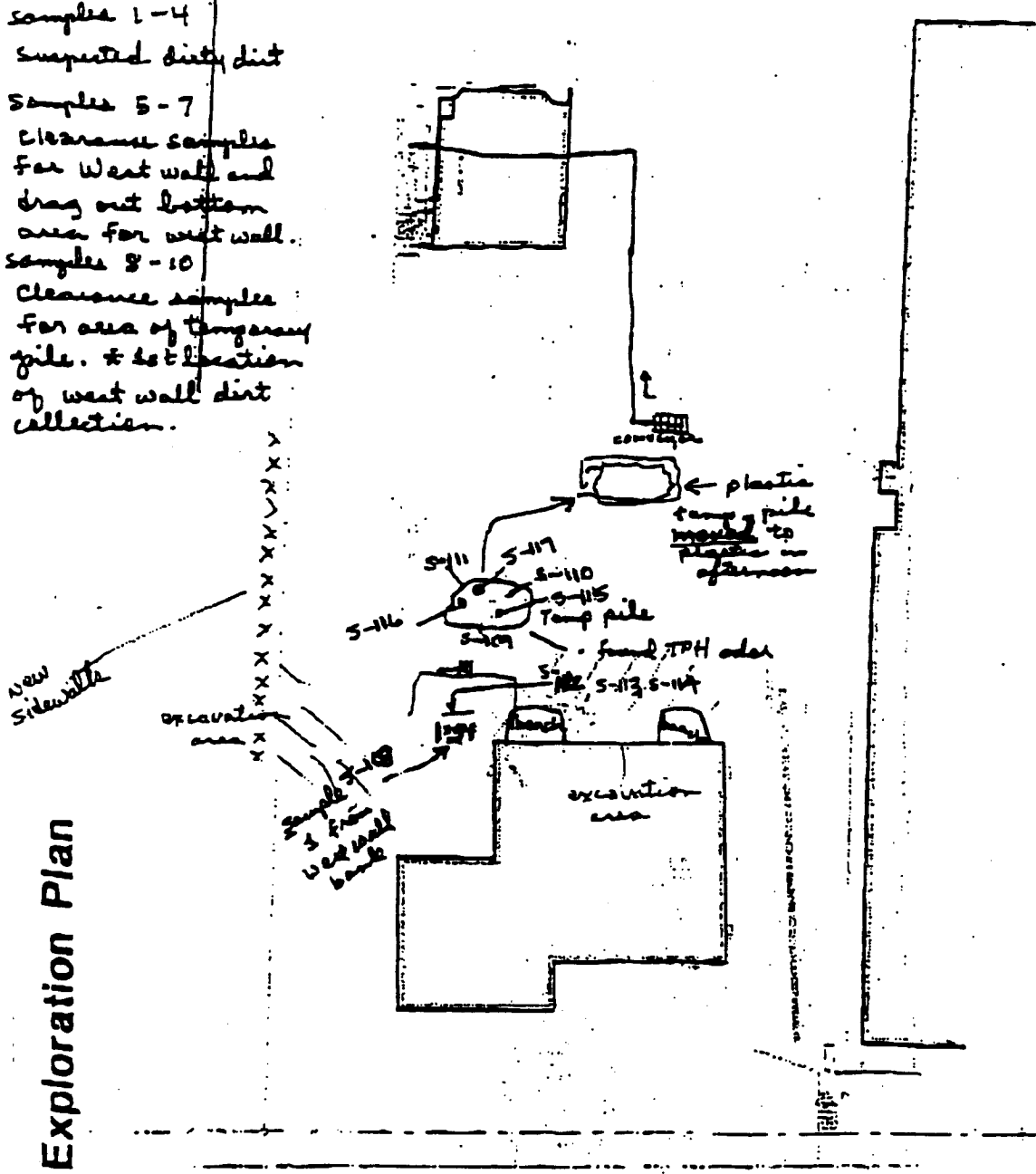
AR 019676

SUMMIT RIDGE

samples 1-4
 suspected dirty dirt

 samples 5-7
 clearance samples
 for west wall and
 drag out bottom
 area for west wall

 samples 8-10
 clearance samples
 for area of temporary
 pile. * set location
 of west wall dirt
 collection.



ite and Exploration Plan

Map. Base map prepared from electronic file provided by Perhalogon Associates Consulting Engineers, Inc. entitled "9009ALTA.dwg"

• S-1 Soil Sample Location and Designation

Sheet 1 of 1

Table 1 - Analytical Results for Soil Samples

Sample ID:	S-108	S-109	S-110	S-111	S-112	S-113	S-104	S-105	S-106	S-107
Sampling Date:	11/21/00	11/21/00	11/21/00	11/21/00	11/21/00	11/21/00	11/21/00	11/21/00	11/21/00	11/21/00
NWPH-Ga in mg/kg										
Mineral Spirits/Standard Solvent	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Gasoline	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
BTEX in µg/kg										
Benzene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Toluene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Ethylbenzene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Xylenes	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
NWPH-Dx in mg/kg										
Kerosene/Jet Fuel	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Diesel/Fuel Oil	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Heavy Oil	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U

U Not detected at indicated detection limit.

NOV-27-2008 09:00

HART CROWSER

2066243679

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P.04

**APPENDIX A
TRANSGLOBAL ENVIRONMENTAL GEOSCIENCES NORTHWEST, INC. (TEG)
PRELIMINARY CHEMICAL LABORATORY CERTIFICATES**

Hart Crowser
J-7283-01

AR 019679

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 857-8572, fax (425) 857-9804

TEG Job Number: S01123-2
 Client: HART CROWSER
 Client Job Name: SUMMIT RIDGE
 Client Job Number: J7263-01
 Printed: 11/22/00 7:38

5-108 5-109 5-110 5-111

Analytical Results	W WALL WASTEPILE				S.E. FACE		N.E. FACE	
	MTM BLK		LCS		1	2	3	4
NWTPH-Gx / BTEX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting		11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00
Date analyzed	Limits		11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00

NWTPH-Gx, mg/kg	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Mineral spirits/Standard solvent	5.0	nd	nd	nd	nd	nd	nd
Gasoline	5.0	nd	nd	nd	nd	nd	nd

BTEX, ug/kg	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Benzene	90	nd	78%	nd	nd	nd	nd
Toluene	90	nd	81%	nd	nd	nd	nd
Ethylbenzene	90	nd	nd	nd	nd	nd	nd
Xylenes	90	nd	nd	nd	nd	nd	nd

Surrogate recoveries:	MTM BLK	LCS	W WALL	S.E. FACE	N.E. FACE
Trichloroethene	117%	85%	110%	123%	111%
Bromofluorobenzene	118%	122%	108%	124%	111%

Data Qualifiers and Analytical Comments
 nd - not detected at listed reporting limits
 na - not analyzed
 C - confusion with sample peaks
 M - matrix interference
 J - estimated value
 Results reported on dry-weight basis
 Acceptable Recovery limits: 85% TO 136%
 Acceptable RPD limit: 35%

Post-IT Fax Note	7671	Date	11-23-00	# of pages	6
To	Matt Seill	From	Michael De		
Co/Dept	Hart Crowser	Co.	TEG Bellevue		
Phone 1		Phone 2			
Fax 0		Fax 1			

TEG NW SEATTLE CHEMISTRY LABORATORY
 (425) 957-9572, fax (425) 957-9504

TEG Job Number: S01122-2
 Client: HART CROWSE
 Client Job Name: SUMMIT RIDGE
 Client Job Number: J7253-01
 Printed: 11/22/00 7:38

S-111 S-112 S-

Analytical Results		N.E. FACE	CLR RIGHT	CU
NWTPH-Gx / BTEX		4 DUPL		6
Matrix	Soil	Soil		Soil
Date extracted	Reporting	11/22/00	11/22/00	11/22/00
Date analyzed	Limits	11/22/00	11/22/00	11/22/00

NWTPH-Gx, mg/kg			
Mineral spirits/Stoddard solvent	6.0	nd	nd
Gasoline	6.0	nd	nd

BTEX, mg/kg			
Benzene	50	nd	nd
Toluene	50	nd	nd
Ethylbenzene	50	nd	nd
Xylenes	50	nd	nd

Surrogate recoveries:			
Trifluorotoluene		130%	123%
Bromofluorobenzene		124%	124%

Data Qualifiers and Analytical Comments
 nd - not detected at listed reporting limits
 na - not analyzed
 C - co-elution with sample peaks
 M - matrix interference
 J - estimated value
 Results reported on dry-weight basis
 Acceptable Recovery limits: 85% TO 135%
 Acceptable RPD limit: 35%

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 967-8872, fax (425) 967-9204

TEG Job Number: S01122-2
 Client: HART CROWS
 Client Job Name: SUMMIT RIDGE
 Client Job Number: J7263-01
 Printed: 11/22/00 7:38

S-117 S-117

Analytical Results	CLR BOT	CLR BOT
NWTPH-Gx/BTEX	18	18 DUPL
Matrix	Soil	Soil
Date extracted	Reporting 11/22/00	11/22/00
Date analyzed	Limits 11/22/00	11/22/00

NWTPH-Gx, mg/kg			
Mineral spirits/Standard solvent	5.0	nd	nd
Gasoline	5.0	nd	nd

BTEX, ug/kg			
Benzene	50	nd	nd
Toluene	50	nd	nd
Ethylbenzene	50	nd	nd
Xylenes	50	nd	nd

Sumogate recoveries:		
Trifluorobenzene	121%	118%
Bromofluorobenzene	124%	121%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
 na - not analyzed
 C - co-elution with sample peaks
 M - matrix interference
 J - estimated value
 Results reported on dry-weight basis
 Acceptable Recovery limits: 65% TO 135%
 Acceptable RPD limit: 35%

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9572, fax (425) 957-9604

TEG Job Number: S01122-2
Client: HART CROWSER
Client Job Name: SUMMIT RIDGE
Client Job Number: J7253-01
Printed: 11/22/00 7:30

S-108 S-109 S-110 S-111 S-112

Analytical Results	MTH BLK		W WALL WASTEPILE		S.E. FACE	N. E. FACE	CLR RIGHT
	1	2	3	4	5	6	7
NVTPH-Dx, mg/kg							
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date scheduled	Reporting	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00
Date analyzed	Limits	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00	11/22/00
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd	nd
Diesel/Fuel oil	20	nd	nd	nd	nd	nd	nd
Heavy oil	50	nd	nd	nd	nd	nd	nd
Surrogate recoveries:							
Fluorobiphenyl	100%	88%	87%	87%	88%	85%	85%
m-Terphenyl	110%	87%	86%	86%	86%	87%	87%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
na - not analyzed
C - confusion with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 857-8572, fax (425) 857-8904

TEG Job Number: S01123-2
 Client: HART CROWS
 Client Job Name: SUMMIT RIDGE
 Client Job Number: J7283-01
 Printed: 11/22/00 7:30

Analytical Results	S-113		S-114		S-114		S-115		S-116		S-117	
	CLR MID	CLR LEFT	CLR LEFT	CLR LEFT	CLR TOP	CLR MID	CLR BOT	CLR MID	CLR BOT	CLR MID	CLR BOT	
NWTPH-Ox, mg/kg	6	7	? DUPL		8	8	10					
Matrix	Sol	Sol	Sol	Sol	Sol	Sol	Sol	Sol	Sol	Sol	Sol	Sol
Date extracted	Reporting 11/22/00											
Date analyzed	Limits 11/22/00											
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Diesel/Fuel oil	20	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Heavy oil	80	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Surrogate recoveries:												
Fluorobiphenyl	85%	85%	85%	85%	85%	85%	85%	85%	85%	85%	85%	85%
o-Terphenyl	88%	88%	88%	88%	87%	88%	88%	88%	88%	88%	88%	87%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
 na - not analyzed
 C - coelution with sample peaks
 M - matrix interference
 J - estimated value
 Results reported on dry-weight basis
 Acceptable Recovery limits: 85% TO 135%
 Acceptable RPD limit: 35%

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 857-8872, fax (425) 867-9904

TEG Job Number: S01122-2
Client: HART CROWSE
Client Job Name: SUMMIT RIDGE
Client Job Number: J7283-01
Printed: 11/22/00 7:39

5-17

Analytical Results		CLR BOT
NWTPH-Dz, mg/kg		10 DUPL
Matrix	Set	Set
Date submitted	Reporting	11/22/00
Date analyzed	Limits	11/22/00

Kerosene/Jet fuel	20	nd
Diesel/Fuel oil	20	nd
Heavy oil	50	nd

Surrogate recoveries:	
Fluorobiphenyl	85%
p-Terphenyl	85%

Data Qualifiers and Analytical Comments

- nd - not detected at listed reporting limits
- na - not analyzed
- C - collision with sample peaks
- M - matrix interference
- J - estimated value
- Results reported on dry-weight basis
- Acceptable Recovery limits: 65% TO 135%
- Acceptable RPD limit: 30%

NOV-27-2000 09:02

HART CROWSER

2066243679

013
P.11

**APPENDIX B
SAMPLE CHAIN OF CUSTODY RECORD**

Hart Crowser
J7363-01

AR 019686

206 253 4162
GEOLOGICS
CLIENT: BRANTILL / SELLEN
ADDRESS: N. W. 4th 108th BELLEVUE
PHONE: _____ FAX: _____
DATE: 11/21/00 PAGE 1 OF 1
PROJECT NAME: SUMMIT RIDGE
LOCATION: Client Address
COLLECTOR: W. Walters DATE OF COLLECTION: 11/21/00

CLIENT PROJECT #: J 7263-01 PROJECT MANAGER: MATT SAPELL

Sample Number	Depth	Sample Type	Container Type	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
1. W. face	020	SOIL Glass					
2. Waste pit	047	Soil	↓				
3. S.E. face	045	Soil					
4. N.E. face	047	Soil	↓				
5.							
6.							
7.							
8.							

Sample Number	Depth	Sample Type	Container Type	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	LABORATORY NOTES
1								S-108
2								S-107
3								S-110
4								S-111
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

LABORATORY NOTES:
4 Hr Luch

ENCLOSED BY (Signature): _____ DATE/TIME: _____ RECEIVED BY (Signature): _____ DATE/TIME: _____
 UNRECORDED BY (Signature): _____ DATE/TIME: _____ RECEIVED BY (Signature): _____ DATE/TIME: _____

SAMPLE DISPOSAL INSTRUCTIONS
 TEG DISPOSAL @ \$2.00 each Return Pickup

TOTAL NUMBER OF CONTAINERS: _____
 CHAIN OF CUSTODY SEALS YANNA: _____
 SEALS INTACT? YANNA: _____
 RECEIVED GOOD COND? COULD: _____

NOTES:
Turn Around Time: _____

200 472 3707 CLK

DATE: 11/21/00 PAGE 1 OF 1

PROJECT NAME: SUMMIT RIDGE

LOCATION: Client address

COLLECTOR: W. Walden

DATE OF COLLECTION: 11/21/00

CLIENT: GENTILE/SILKEN

ADDRESS: 10814 BELLEVUE

PHONE: / FAX:

CLIENT PROJECT #: 7263-01 PROJECT MANAGER:

Sample Number	Depth	Tube	Sample Type	Container Type	DATE/TIME RECEIVED BY (Signature)	DATE/TIME	DATE/TIME RECEIVED BY (Signature)	DATE/TIME	LABORATORY NOTES
1403		S-112			W. Walden	11/21/00			S-112
1405		S-113			W. Walden	11/21/00			S-113
1407		S-114			W. Walden	11/21/00			S-114

LABORATORY NOTES:
 24 No
 blank - please

Tam Aboard Time:

SAMPLE DISPOSAL INSTRUCTIONS:
 TES DISPOSAL 25.00 each Return Pickup



City Transfer of Kent, Inc.

F A X

TO: *Beth Clark*

COMPANY: *Port of Seattle*

DATE: *11/27/00*


FROM: *Keith Benson*

TOTAL # OF  *4* **(INCLUDING COVER)**

SUBJECT: *Summit Ridge - Clearance Report - additional pages*

Please note:

IF YOU DO NOT RECEIVE ALL OF THESE  PLEASE CALL

 (253) 850-1775

FAX #: (253) 850-1797

THIS DOCUMENT IS BEING TRANSMITTED TO FAX # (206) 988-5636

CLIENT: **BEACON/ASG/LEA** DATE: **11/21/00** PAGE: **1** OF **1**

ADDRESS: **1000 BELLEVILLE** PROJECT NAMES: **SUMMIT R 556**

PHONE: **714 725 3701** LOCATION: **Southern California**

CLIENT PROJECT: **11/21/00** PROJECT MANAGER: **M. J. W. G. R.** COLLECTOR: **W. J. W. G. R.** DATE OF COLLECTION: **11/21/00**

Sample Number	Depth	Type	Seal Type	Sealing Time	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME	LABORATORY NUMBER	LABORATORY NOTES
1	100	8	1650	5:00	11/21/00	M. J. W. G. R.	11/21/00		
2	100	9	1700	5:00	11/21/00	M. J. W. G. R.	11/21/00		
3	100	10	1700	5:00	11/21/00	M. J. W. G. R.	11/21/00		
4									
5									
6									
7									
8									
9									
10									

LABORATORY NOTES: **3-115, 3-116, 3-117**

LABORATORY RECEIPT: **11/21/00**

TOTAL NUMBER OF CONTAINERS: **3**

CHAIN OF CUSTODY BEGINS YANINA

SEALS IMPACT YANINA

RECEIVED GOOD GOOD GOOD

NOTES: **Turn Around Time**

SAMPLE DISPOSAL INSTRUCTIONS: **SEE DISPOSAL @ \$2.00 each Return Pickup**

DU-27-2000 09105

HART CROUSER

2066243679

017
P.15

**APPENDIX C
SOIL REMOVAL SUMMARY**

Hart Crouser
J7263-01

AR 019691

**APPENDIX C
SOIL REMOVAL SUMMARY*****Summary of Sample Collection by Date***

November 22, 2000 (S-108 through S-117). Sample S-108 was collected from the west wall at the source of suspected PCS. Samples S-109, S-110, and S-111 were collected from stockpiled soils adjacent to the removal area. Samples S-108 through S-111 were non-detect for TPH and BTEX. Samples S-112, S-113, and S-114 were collected as verification samples at the west wall following removal of suspect soils from the source area. Samples S-115, S-116, and S-117 were collected as verification samples from below the temporary stockpile area after transfer of the stockpiled suspected PCS to the loadcut area. All verification samples were non-detect for TPH and BTEX. Suspect soils were transported to CSR Associate for disposal.

F:\Doc\Jobs\726301\SoilRemoval4\fb1.doc

Clark, Beth

From: Deborah Gardner [Dgardner@agraus.com]
Sent: Monday, November 06, 2000 11:00 AM
To: bill.lockard@amec.com; clark.b@portseattle.org
Cc: lawnyam@citytransferinc.com; thomson.j@portseattle.org
Subject: RE: Summit Ridge

Beth,
Thank you for going the extra mile with the paperwork Friday evening. I will give you more lead time if this happens again.

The surficial 10 feet of soil remains undisturbed in the NE portion of the Summit Ridge site. I expect this surficial material will be removed this week. I'm optimistic that Summit Ridge should be entirely "10 Below" sometime the week of Nov. 13th, and 20 Below shortly thereafter.
Dee

>>> "Clark, Beth" <clark.b@portseattle.org> 11/06/00 10:29AM >>>
Bill, Dee:

I just wanted to let you know that I reviewed Dee's letter on Friday and gave a verbal okay to continue hauling from the Summit site. I appreciate the efforts you have made in modifying your sampling, oversight, and reporting programs to address issues raised by the Port.

In the future it would be helpful to me if you give me a call shortly after contamination is discovered at a site (a voicemail message is fine if I am not in). Let me know briefly what was discovered and when you anticipate sending a report. This will allow me to answer any questions that are raised on this end and to make sure that I or someone else is available to review the report in a timely fashion.

Thanks!
Beth

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

From: Deborah Gardner [mailto:Dgardner@agraus.com]
Sent: Friday, November 03, 2000 10:56 AM
To: clark.b@portseattle.org
Subject: Summit Ridge

Beth,
Clearance Summary Letter for 11/2/00 has been faxed to CTI and should be forwarded to you for review this am.

I just realized which backup you were requesting. Backup attachments for the 10/23-24 letter will also follow today.
Dee

Material Test Results Submittal
Submission Date: November 3, 2000

Third Runway Embankment Construction – Phase 3
Contract # : MC-0305232
Specification Reference #: Section 02201-152 1.2A

Nature of Submittal: The following is City Transfer's Clearance Sample Test Results for Summit Ridge.

Contractor's Signature:





November 3, 2000
0-93M-00087-0 Task 14

City Transfer, Inc.
2720 East Valley Highway E.
Sumner, Washington 98390

Attention: Keith Benson

Subject: Clearance Sample Results – November 2, 2000
Summit Ridge
N.E. 4th Street and 108th Avenue NE
Bellevue, Washington

Dear Mr. Benson:

As requested, AMEC provided third-party oversight of petroleum-contaminated soil (PCS) characterization activities performed by Hart Crowser on the Summit Ridge development located southeast of the intersection of N.E. 4th Street and 108th Avenue N.E. in Bellevue, Washington. AMEC was present at the time the PCS was identified, and observed the delineation, and subsequent sampling and cleanup activities performed by Hart Crowser, the environmental consultant for the owner/developer. AMEC subsequently reviewed the laboratory analytical results for Hart Crowser's characterization, delineation and clearance sampling. Hart Crowser's formal report is pending.

PCS Removal and Cleanup

On November 2, 2000, soil nailing operations encountered one area of PCS at the southwest corner of the site. The PCS was limited to the surficial four feet of the soil profile. Immediately upon discovery, CTI was notified, and after the PCS was hauled off-site and disposed at an appropriate facility. Export of "clean" soils remains suspended pending CTI's acceptance of this letter.

Based upon our observations, initial sampling results, and our review of the information provided by Hart Crowser, it is our opinion that the PCS was removed in an appropriate manner and that the field screening and sampling was performed in accordance with State regulations and guidelines.

AMEC Earth & Environmental, Inc.
11335 N.E. 122nd Way, Suite 100
Kirkland, Washington
USA 98034
Tel (425) 820-4869
Fax (425) 821-3914
www.amec.com

KIRKLAND_MAMVD011SHAREDWORDPROC_Proposal:Facility:00087 City Transfer - 0-93M-00087-0 Task 14

AR 019695



0-93M-00087-0 Task 04
Page 2

City Transfer, Inc.
November 3, 2000

We trust that this letter meets your current needs. If you should have any questions, please do not hesitate to contact us at your convenience.

Sincerely,

AMEC Earth & Environmental, Inc.

A handwritten signature in black ink, appearing to read "DHG".

Deborah H. Gardner
Associate

Enclosures: Hart Crowser Sample Location Sketches
Hart Crowser Appendix C Soil Removal Summary
Analytical Test Results

DHG/jdp

APPENDIX C SOIL REMOVAL SUMMARY

Summary of Sample Collection by Date

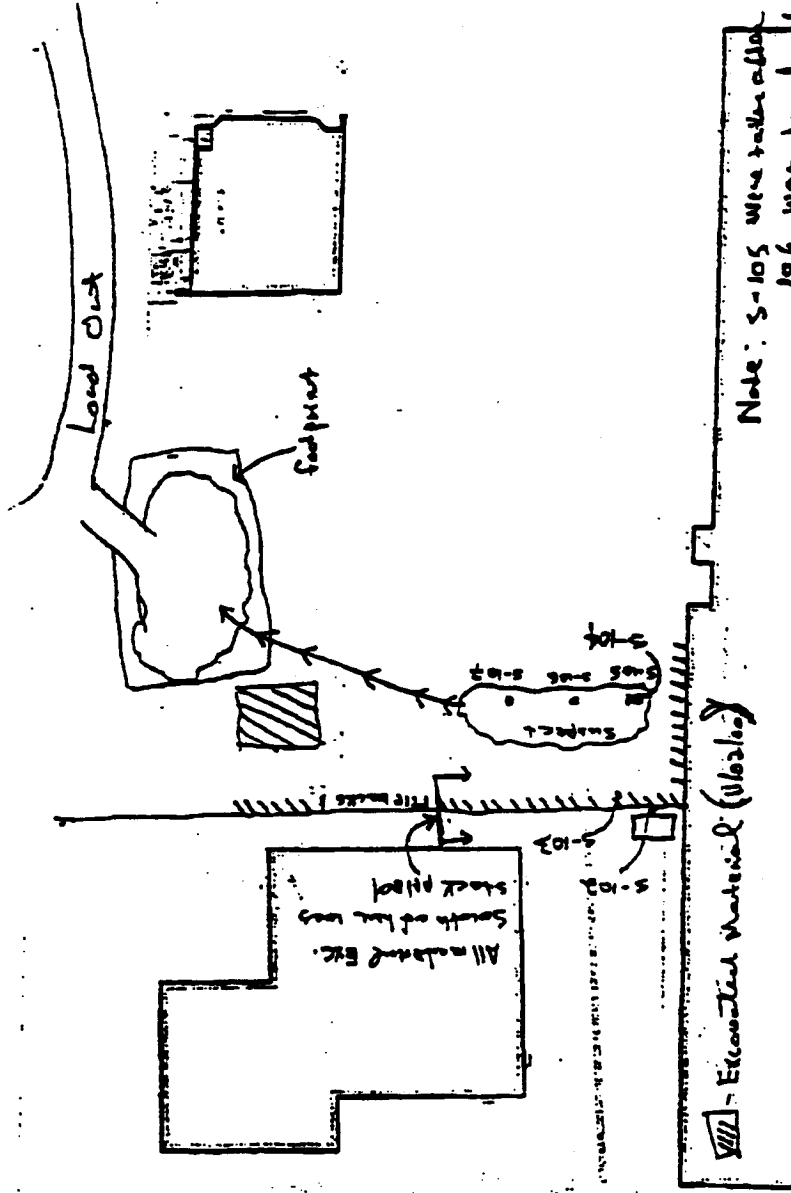
November 2, 2000 (S-102 through S-107). Sample S-102 was collected from soils removed during trenching adjacent to an area of suspect contaminated soils. This sample was non-detect for TPH and BTEX. Sample S-103 was collected from the source of the suspect contaminated soils. This sample contained detectable concentrations of mineral spirits/Stoddard solvents (370 ppm), toluene (220 ppb), and xylenes (150 ppb). Sample S-104 was collected from stockpiled soils during removal of suspect soils. This sample was not submitted to the laboratory for analysis, as all suspect soils will be transported to CSR Associated for treatment and disposal.

Samples S-105, S-106, and S-107 were collected as verification samples following removal of suspect soils from the source area and transfer of the stockpiled suspected PCS to the loadout area. These verification samples were non-detect for TPH and BTEX.

F:\Docs\Jobs\726301\SoilRemoval3(ftr).doc

Site and Exploration Plan

11/02/00



Note: Base map prepared from electronic file provided by Perinulligan Associates Consulting Engineers, Inc. entitled "9669ALTA.dwg".



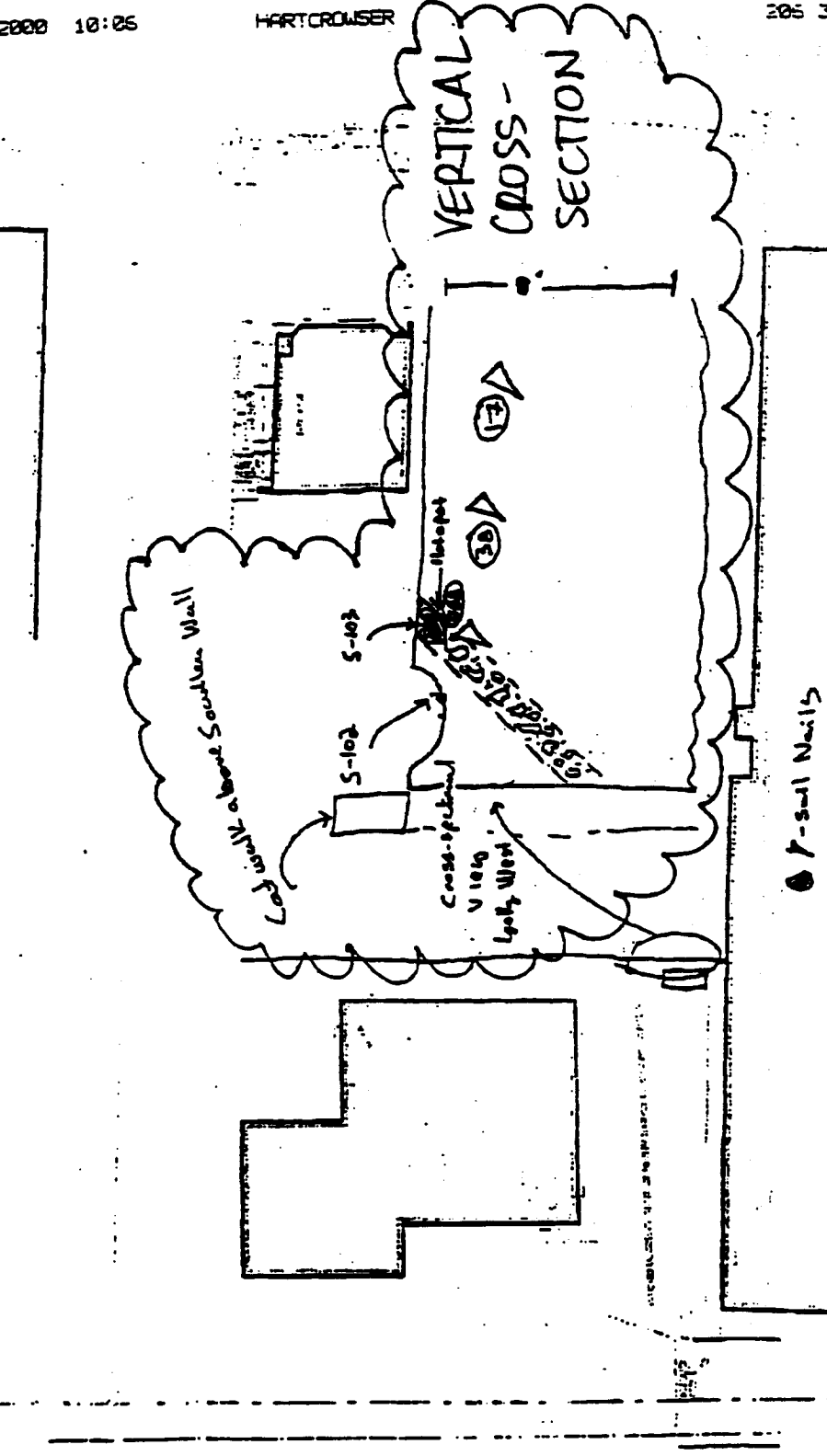
R. Kish

HARTCROWSER
J-7283 10/00
Figure 1

• S-1 Soil Sample Location and Designation

Site and Exploration Plan NOT to Scale

11/02/00



Not to Scale

H
HARTCROWSER
 J-7283 10/00
 Figure 1

Note: Base map prepared from electronic file provided by Perihelion Associates Consulting Engineers, Inc. entitled "9669AL1A.dwg".

• S-1 Soil Sample Location and Designation

780 PIP reading location

P-soil Nails

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9572, fax (425) 957-9004

TEG Job Number: S01102-4
Client: HART CROWSER
Client Job Name: SUMMIT RIDGE
Client Job Number: 7283
Printed: 11/3/00 7:56

Analytical Results		MTH BLK	LCS	S-102	S-103	S-105	S-108
NY/TPH-Gs / BTEX		Std	Std	Std	Std	Std	Std
Matrix	Reporting	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00
Date extracted	Limits	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00
Date analyzed							
Moisture, %					15%		
NY/TPH-Gs, mg/kg							
Mineral spirits/Standard solvent	5.0	nd		nd	370	nd	nd
Gasoline	5.0	nd		nd	nd	nd	nd
BTEX, mg/kg							
Benzene	50	nd	65%	nd	nd	nd	nd
Toluene	50	nd	71%	nd	220	nd	nd
Ethylbenzene	50	nd		nd	nd	nd	nd
Xylenes	50	nd		nd	180	nd	nd
Surrogate recoveries:							
Trifluorotoluene		73%	73%	83%	83%	78%	74%
Bromofluorobenzene		87%	87%	85%	108%	88%	83%

Data Qualifiers and Analytical Comments
nd - not detected at listed reporting limits
na - not analyzed
C - confusion with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 65% TO 135%
Acceptable RPD limit: 35%

Post-it® Fax Note	7571	Date	11/02	# of pages	3
To	Matt Snell	From	Jim Larson		
Co./Dept.	Hart Crowser	Co.	TER		
Phone 1		Phone 2			
Fax 1		Fax 2			

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

TEG Job Number: S01102-4
Client: HART CROWS
Client Job Name: SUMMIT RIDGE
Client Job Number: 7283
Printed: 11/3/00 7:56

Analytical Results

NWTPH-GX / BTEX		S-107
Matrix	Soil	Soil
Date extracted	Reporting	11/02/00
Date analyzed	Limits	11/02/00
Moisture, %		

NWTPH-GX, mg/kg		
Mineral spirits/Standard solvent	5.0	nd
Gasoline	5.0	nd

BTEX, ug/kg		
Benzene	50	nd
Toluene	50	nd
Ethylbenzene	50	nd
Xylenes	50	nd

Surrogate recoveries:	
Trihalobenzene	85%
Bromofluorobenzene	92%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
na - not analyzed
C - co-elution with sample peaks
M - matrix interference
J - estimated value

Results reported on dry-weight basis
Acceptable Recovery limits: 85% TO 135%
Acceptable RPD limit: 35%

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 857-8872, Fax (425) 857-8804

TEG Job Number: S01102-4
Client: HART CROWSER
Client Job Name: SUMMIT RIDGE
Client Job Number: 7283
Printed: 11/3/00 7:56

Analytical Results

NWTPH-Dx, mg/kg	MYH BLK		S-102	S-103	S-105	S-106	S-107
	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Matrix	Reporting	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00
Date extracted	Limits	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00	11/02/00
Date analyzed							
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd	nd
Diesel/Fuel oil	20	nd	nd	nd	nd	nd	nd
Heavy oil	50	nd	nd	nd	nd	nd	nd

Surrogate recoveries:

Fluorobiphenyl	85%	84%	88%	90%	88%	85%
o-Terphenyl	80%	79%	80%	82%	79%	80%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
na - not analyzed
C - co-elution with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 85% TO 135%
Acceptable RPD limit: 35%

DATE: 11/03/00 PAGE: 1 OF 1
 PROJECT NAME: Summit Ridge
 LOCATION: N.E. 4th 108th Bellevue
 COLLECTOR: X Kish K
 DATE OF COLLECTION: 11/03/00

CLIENT: How Caboson
 ADDRESS: 1910 Fairview Ave E Seattle
 PHONE: 206 324 9530 FAX:
 CLIENT PROJECT #: 7263
 PROJECT MANAGER: M SNEGG

Sample Number	Depth	Time	Sample Type	Container Type	LABORATORY NOTES	TOTAL NUMBER OF CONTAINERS	LABORATORY NUMBER
1.5-102	1.0'	1120	Soil		Subject		
2.5-103	1.0'	1300	Soil		Subject		
3.5-105	0.0'	1720	Soil		Manufacture		
4.5-106	0.0'	1730	Soil		Manufacture		
5.5-107	0.0'	1730	Soil		Manufacture		
6.							
7.							
8.							
9.							
10.							
11.							
12.							
13.							
14.							
15.							
16.							
17.							
18.							

RECEIVED BY (Signature): X Kish DATE/TIME: 11/03/00 (845)
 RECEIVED BY (Signature): [Signature] DATE/TIME: [Time]
 TOTAL NUMBER OF CONTAINERS: [Blank]
 SEALS OF CUSTODY SEALS YANNA: [Blank]
 SEALS INTACT YANNA: [Blank]
 RECEIVED GOOD COND. COULD: [Blank]
 NOTES: [Blank]
 Turn Around Time: 224/00

City Transfer of Kent, Inc.

F A X

TO: *Jim Thomson*

COMPANY: *Port of Seattle*

DATE: *11/3/00*

FROM: *Keith Benson*

TOTAL # OF  **11** **(INCLUDING COVER)**

SUBJECT: *Clearance Sample Results for Summit Ridge (dated 11/3/00)*

Please Note:

IF YOU DO NOT RECEIVE ALL OF THESE  PLEASE CALL



(253) 850-1775

FAX #: (253) 850-1797

THIS DOCUMENT IS BEING TRANSMITTED TO FAX

425 453-9179 & 206 248-6876

AR 019704

City Transfer of Kent, Inc.

F A X

TO: *Beth Clark*

COMPANY: *Port of Seattle*

DATE: *11/3/00*

FROM: *Keith Benson*

TOTAL # OF



11

(INCLUDING COVER)

SUBJECT: *Clearance sample results for Summit Ridge (dated 11/3/00)*

Please Note:

IF YOU DO NOT RECEIVE ALL OF THESE  PLEASE CALL



(253) 850-1775

FAX #: (253) 850-1797

THIS DOCUMENT IS BEING TRANSMITTED TO FAX

206 988-5636

AR 019705

Clark, Beth

From: Clark, Beth
Sent: Wednesday, October 25, 2000 2:19 PM
To: Keith Benson (E-mail); Dee Gardner (E-mail); Bill Lockard (E-mail); Lowe, Rick; Thomson, Jim; Brown, Bill
Subject: FW: SummitRidge

On October 23 and 24, two isolated areas of petroleum impacted soil were encountered on the Summit Ridge Project Site in Bellevue. Excavation activities were being monitored by an environmental professional. CTI immediately stopped hauling material to the Third Runway. CTI has provided documentation that the all impacted soil has been removed from the site. Transport of soil to the Third Runway embankment from this site may continue under the conditions presented below.

Beth Clark

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

From: Clark, Beth
Sent: Thursday, October 12, 2000 3:48 PM
To: Lowe, Rick; Thomson, Jim
Cc: Agid, Paul
Subject: SummitRidge

During excavation at the Summit Ridge Project Site in Bellevue, petroleum impacted soil reportedly associated with home heating oil tanks was encountered. CTI has presented documentation that all contamination associated with the home heating oil tanks has been removed. Excavation at the site may continue with the following conditions:

- There be full time on-site supervision during excavation by an environmental professional to a depth of 25 feet.
- There be periodic site inspection by an environmental professional at depths greater than 25 feet.
- If suspect material is encountered the following procedures shall be implemented: (1) All transport to the third runway be immediately stopped. (2) CTI immediately notify the Port. (3) All suspect material be removed appropriately from the site under the supervision of an environmental professional. (4) CTI provides the Port documentation regarding the source of suspect material and all sample results.
- Upon review of the documentation the Port will make a determination as to whether to continue to accept further material from this site.

The Port understands that there is potential for uncontrolled fill to be present at this site. Though there is no known contamination associated with this material, the material is not suitable for use a Third Runway Fill. CTI does not need to notify the Port if this material is encountered; however, the handling and segregation of that material should also be overseen by the environmental professional.

Please call me, if you have any questions regarding these conditions.

Beth

Material Test Results Submittal

Submission Date: October 25, 2000

Third Runway Embankment Construction - Phase 3
Contract # : MC-0305232
Specification Reference #: Section 02201-152 1.2A

Nature of Submittal: The following is City Transfer's Clearance Sample Test Results for Summit Ridge.

Contractor's Signature:





October 26, 2000
0-93M-00087-0 Task 14

City Transfer, Inc.
2720 East Valley Highway E.
Sumner, Washington 98390

Attention: Keith Benson

Subject: Clearance Sample Results – October 23 and 24, 2000
Summit Ridge
N.E. 4th Street and 108th Avenue N.E.
Bellevue, Washington

Dear Mr. Benson:

As requested, AMEC provided third-party oversight of petroleum-contaminated soil (PCS) characterization activities performed by Hart Crowser on the Summit Ridge development located southeast of the intersection of NE 4th Street and 108th Avenue NE in Bellevue, Washington. AMEC was present at the time the PCS was identified, and observed the delineation, and subsequent sampling and cleanup activities performed by Hart Crowser, the environmental consultant for the owner/developer. AMEC subsequently reviewed the laboratory analytical results for Hart Crowser's characterization, delineation and clearance sampling. Hart Crowser's formal report is pending.

PCS Removal and Cleanup

On October 23 and 24, 2000, site excavations encountered two areas of PCS, one in the northwest quadrant of the site, and another generally along the west end of the property. PCS was limited to the upper four feet of the soil profile at both locations. Upon discovery, CTI was notified, and export of "clean" soils was suspended until after the PCS was hauled off-site and disposed at an appropriate facility.

Based upon our observations, initial sampling results, and our review of the information provided by Hart Crowser, it is our opinion that the PCS was removed in an appropriate manner and that the field screening and sampling was performed in accordance with State regulations and guidelines.

AMEC Earth & Environmental, Inc.
11335 N.E. 122nd Way, Suite 100
Kirkland, Washington
USA 98034
Tel (425) 820-4659
Fax (425) 821-3914
www.amec.com

\\KIRKLAND_MAIN\VOL1\SHARED\IPC\RDPROC: Project\Facility\000001\City Transfer\0001\Clearance Sample Results? .doc

AR 019708



City Transfer, Inc.
October 26, 2000

0-93M-00057-0 Task 14
Page 2

We trust that this letter meets your current needs. If you should have any questions, please do not hesitate to contact us at your convenience.

Sincerely,

AMEC Earth & Environmental, Inc.

A handwritten signature in black ink, appearing to read "DHG".

Deborah H. Gardner
Associate

Enclosures: Hart Crowser Sample Location Sketches
Hart Crowser Appendix C Soil Removal Summary
Analytical Test Results

DHG/cc

APPENDIX C SOIL REMOVAL SUMMARY

Summary of Sample Collection by Date

October 12, 2000 (S-86). Sample S-86 was collected at 0840 from a pocket of decaying organic material (presumed to be beauty bark). This sample was non-detect for TPH and BTEX.

October 23, 2000 (S-87 through S-98). Samples S-87 and S-88 were collected from suspected PCS stockpiles at the west edge of the site. As anticipated, both samples contained detectable concentrations of TPH-Dx.

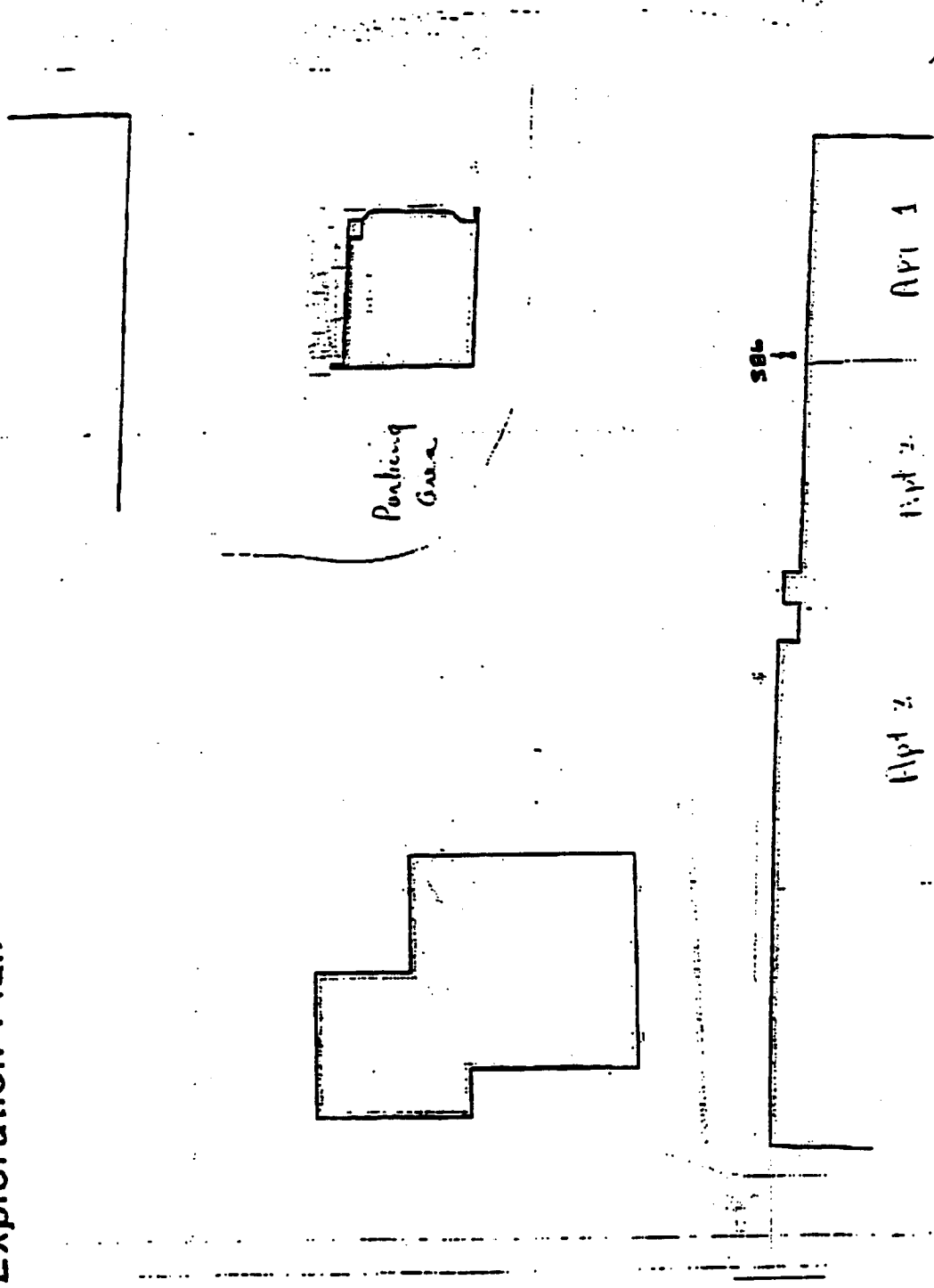
Samples S-89 through S-93 were collected as verification samples after removal of the soil stockpile associated with sample S-87. These verification samples were non-detect for TPH and BTEX.

Samples S-94 through S-98 were collected as verification samples after removal of the soil stockpile associated with sample S-88 and removal of additional suspected PCS. These verification samples were non-detect for TPH and BTEX.

October 24, 2000 (S-99 through S-101). Samples S-99 through S-101 were collected as verification samples following removal of stockpiled suspected PCS. These verification samples were non-detect for TPH and BTEX.

F:\Docs\Jobs\726301\SoilRemSummary(In).doc

Site and Exploration Plan



Note: Base map prepared from electronic file provided by Penobscot Associates Consulting Engineers, Inc. entitled "9669AL1A. deg".

• S-1 Soil Sample Location and Designation

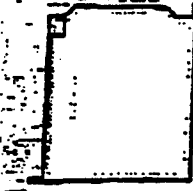
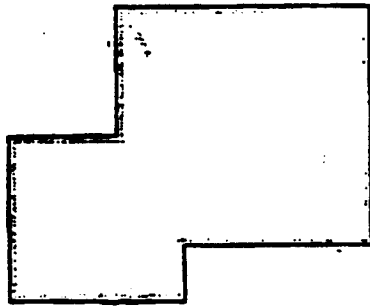
H
HARTCROWSER
 J-7263 10/00
 Figure 1

AR 019711

Site and Exploration Plan



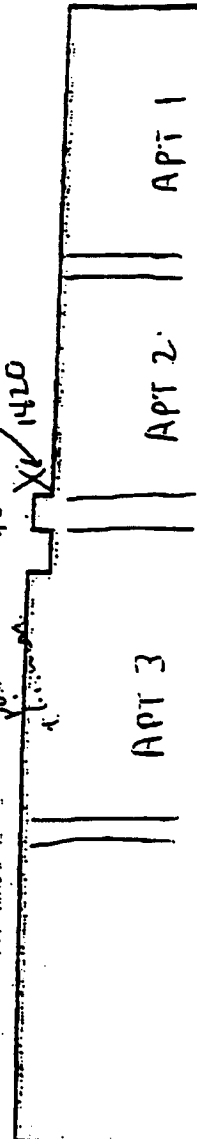
* Insect pile found in conjunction with drain field



12/15 PID
12/15/09
29E 141
VISCUM
VISCUM

excavated
thence
grade soil
found here
X/1410

excavated
thence
grade soil
found here
X/1410



Note: Base map prepared from electronic file provided by Pentahexagon Associates Consulting Engineers, Inc. entitled "9668A1TA.dwg."

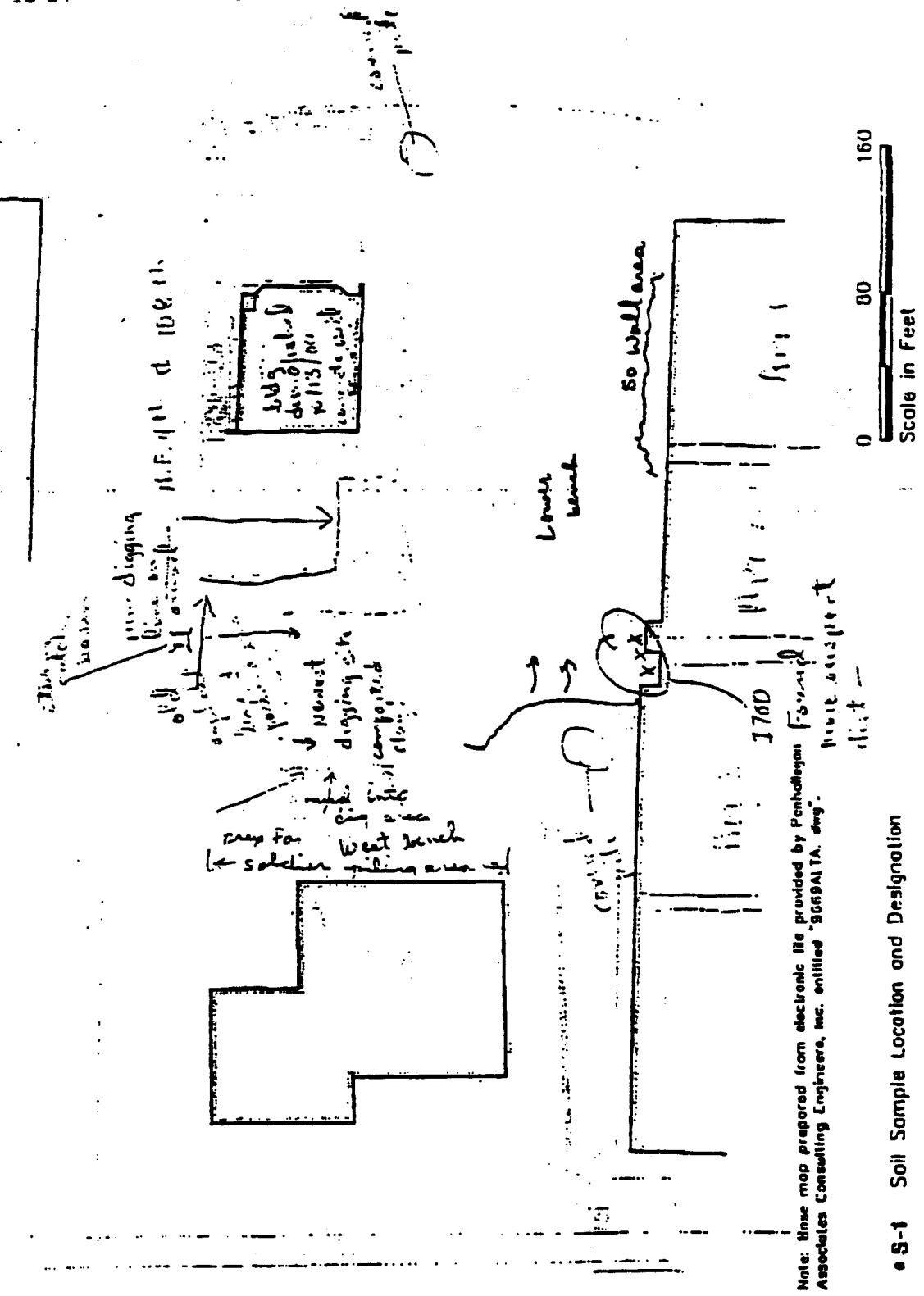


S-1 Soil Sample Location and Designation



HARTCROWSER
J-7263 10/00
Figure 1

Site and Exploration Plan



Note: This map prepared from electronic file provided by Panthegeon Forward Associates Consulting Engineers, Inc. entitled "9669ATA.dwg".

• S-1 Soil Sample Location and Designation



HARTCROWSER

J-7283

10/00

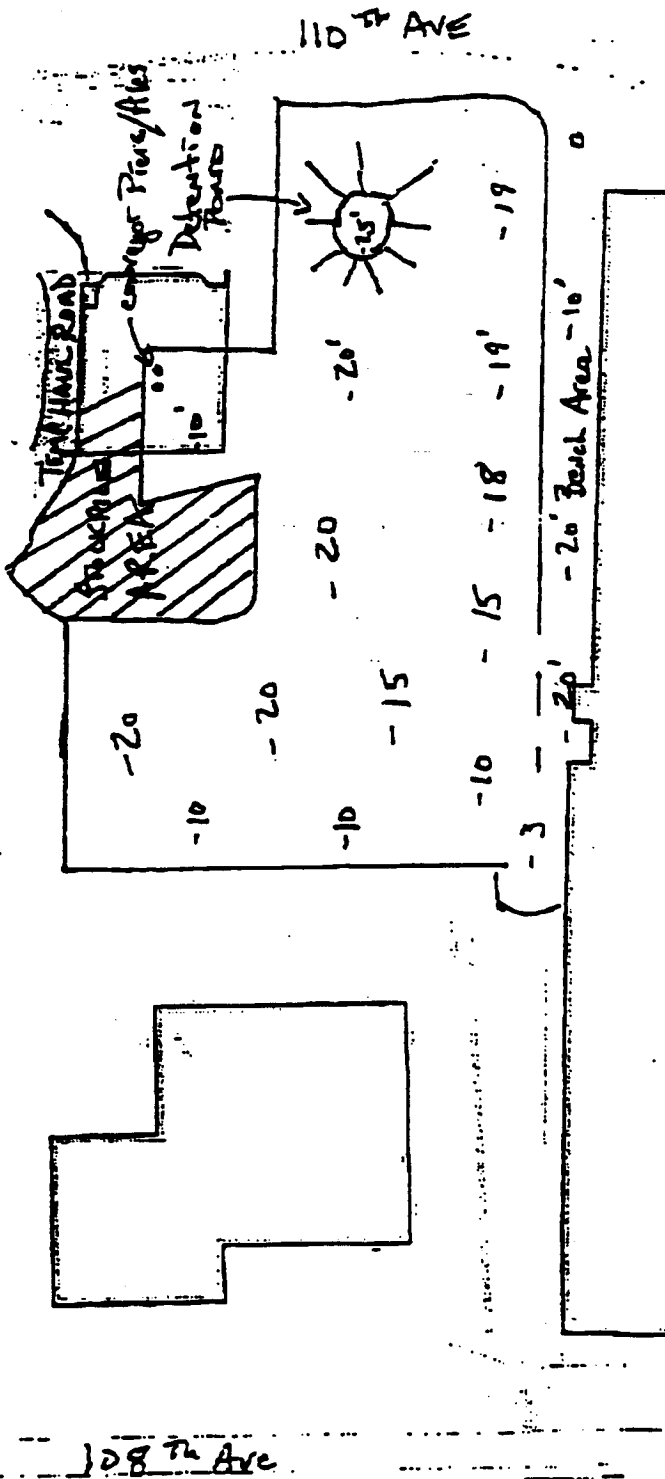
Figure 3

Site and Exploration Plan Estimate of 10/21/2000 As Built

(NTS)



4th ST

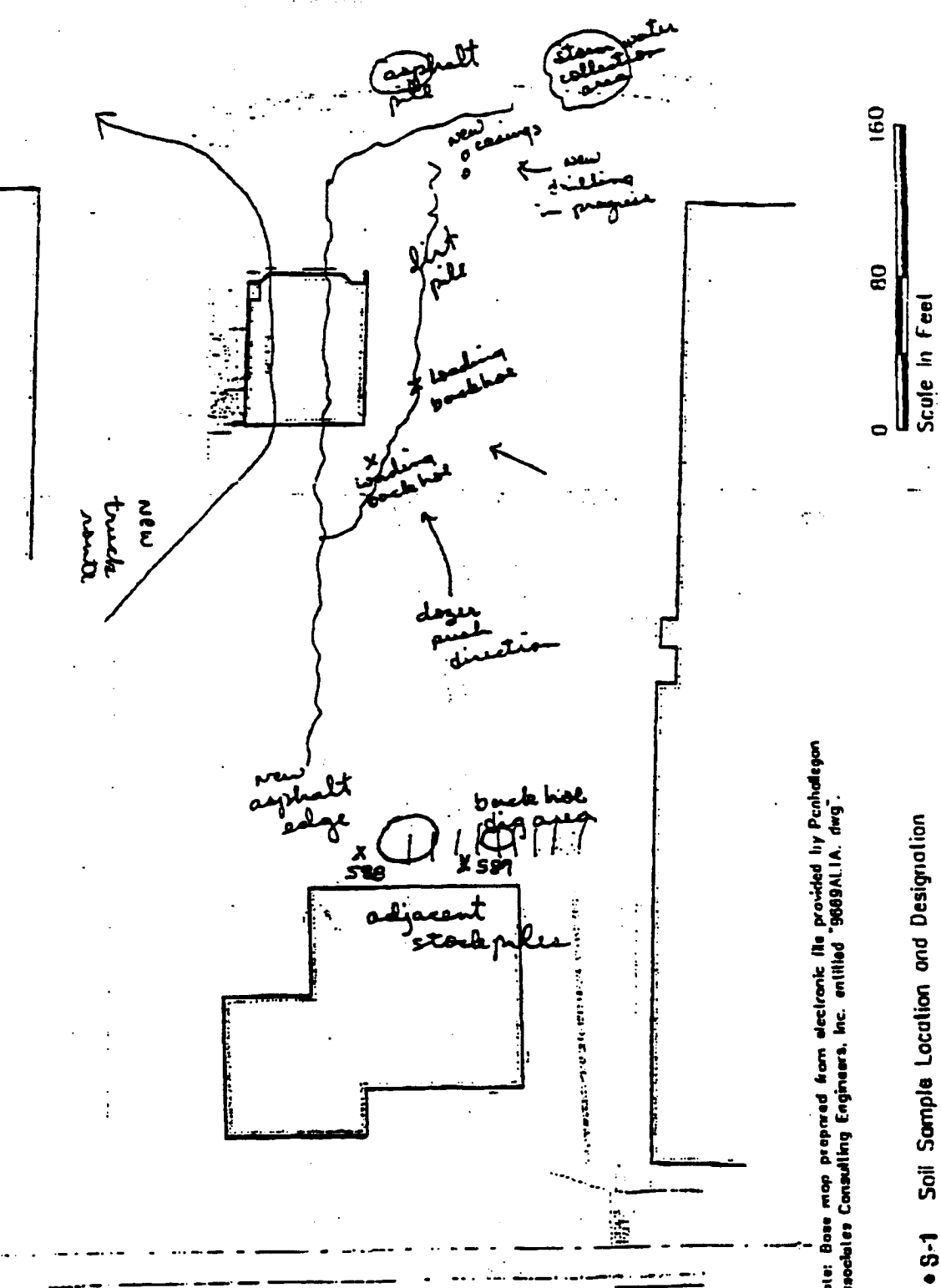


Note: Base map prepared from electronic file provided by Penhaggey Associates Consulting Engineers, Inc. entitled "9669ALTA.dwg".

• S-1 Soil Sample Location and Designation

HARTCROWSER
 J-7263 10/00
 Figure 4

Site and Exploration Plan

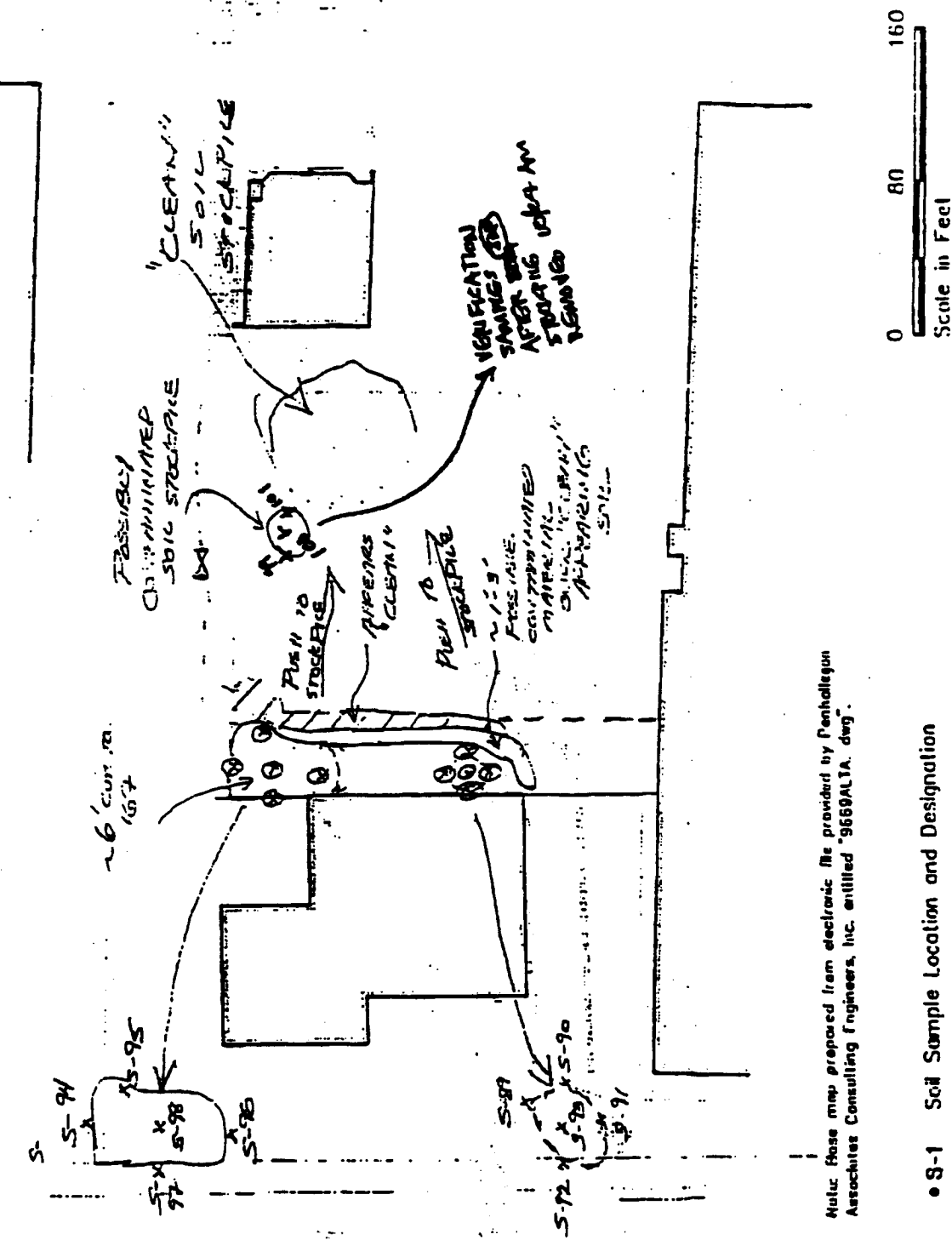


Note: Base map prepared from electronic file provided by Penhallegon Associates Consulting Engineers, Inc. entitled "9889A.I.A. dwg".

• S-1 Soil Sample Location and Designation

Site and Exploration Plan

23 & 24 OCTOBER
2000



HARTCROWSER
 J-7283 10/00
 Figure 6

• S-1 Soil Sample Location and Designation

11:03:00 12:05 PM

OCT-25-2000 10:25

HART CROWSER

2066243579

011
P.03/09

**APPENDIX C
SOIL REMOVAL SUMMARY**

Hart Crowser
J-7263-01

AR 019717

425 957 9904

24-CO 11:45A TEG NW BELLEVUE

425 957-9904

P.01

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9972, fax (425) 957-9904

TEG Job Number: S01023-1
Client: HART CROWSER
Client Job Name: SUMMIT RIDGE
Client Job Number: 7263
Printed: 10/24/00 11:37

Analytical Results	DUPL						
	NWTPH-Gx/BTEX	MYH BLK	LCS	S-47	S-88	S-88	S-88
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/23/00	10/23/00	10/23/00	10/23/00	10/23/00	10/23/00
Date analyzed	Limits	10/23/00	10/23/00	10/23/00	10/23/00	10/23/00	10/23/00
NWTPH-Gx, mg/kg							
Mineral spirits/Stoddard solvent	5.0	nd		nd	nd	nd	nd
Gasoline	5.0	nd		nd	nd	nd	nd
BTEX, ug/kg							
Benzene	50	nd	76%	nd	nd	nd	nd
Toluene	50	nd	76%	nd	nd	nd	nd
Ethylbenzene	50	nd		nd	nd	nd	nd
Xylenes	50	nd		nd	nd	nd	nd
Surrogates recovered:							
Trifluorotoluene		90%	88%	90%	92%	90%	85%
Bromofluorobenzene		89%	83%	91%	85%	81%	85%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
na - not analyzed
C - confusion with sample peaks
M - matrix interference
J - estimated value
Results reported on dry-weight basis
Acceptable Recovery limits: 85% TO 135%
Acceptable RPD limit: 35%

Post-It® Fax Note 7671 Date 10/24 # of Pages 6

To: Matt Snell	From: Val Lwano
Co./Dept: HC	Co: TEG
Phone #	Phone #
Fax #	Fax #

Post-It® Fax Note 7671 Date 10/24 # of Pages 6

To: Todd or Keith	From: Val Lwano
Co./Dept:	Co: TEG
Phone #	Phone #
Fax # 253 850 1797	Fax #

Post-It® Fax Note 7671 Date 10/24 # of Pages 6

To: Mark	From: Val Lwano
Co./Dept:	Co: TEG
Phone #	Phone #
Fax # 425 455 7080	Fax #

-24-00 11:45A TEG NW BELLEVUE

425 957-9904

P.02

TEG NW SEATTLE CHEMISTRY LABORATORY
 (425) 957-9872, fax (425) 957-9904

TEG Job Number: 601023-1
 Client: HART CROWS
 Client Job Name: SUMMIT RIDGE
 Client Job Number: 7263
 Printed: 10/24/00 11:37

Analytical Results

NWTPH-Gx / BTEX		S-80	S-81	S-82	S-83	S-84	S-85
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/23/00	10/23/00	10/23/00	10/23/00	10/23/00	10/23/00
Date analyzed	Limits	10/23/00	10/23/00	10/23/00	10/23/00	10/23/00	10/23/00

NWTPH-Gx, mg/kg		S-80	S-81	S-82	S-83	S-84	S-85
Mineral spirits/Stoddard solvent	5.0	nd	nd	nd	nd	nd	nd
Gasoline	5.0	nd	nd	nd	nd	nd	nd

BTEX, mg/kg		S-80	S-81	S-82	S-83	S-84	S-85
Benzene	50	nd	nd	nd	nd	nd	nd
Toluene	50	nd	nd	nd	nd	nd	nd
Ethylbenzene	50	nd	nd	nd	nd	nd	nd
Xylenes	50	nd	nd	nd	nd	nd	nd

Surrogate recoveries:		S-80	S-81	S-82	S-83	S-84	S-85
Trifluorobenzene		85%	85%	88%	81%	89%	87%
Bromofluorobenzene		84%	83%	84%	88%	84%	86%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
 na - not analyzed
 C - coelution with sample peaks
 M - matrix interference
 J - estimated value
 Results reported on dry-weight basis
 Acceptable Recovery limits: 85% TO 135%
 Acceptable RPD limit: 35%

-24-GO 11:45A TEG NW BELLEVUE

425 957-9904

P.03

TEG NW SEATTLE CHEMISTRY LABORATORY
 (425) 957-9972, fax (425) 957-9904

TEG Job Number: 501023-1
 Client: HART CROWS
 Client Job Name: SUMMIT RIDGE
 Client Job Number: 7293
 Printed: 10/24/00 11:37

Analytical Results

NWTPH-Gx / BTEX		S-98	S-97	S-98	S-98	S-100	S-101
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/23/00	10/23/00	10/23/00	10/23/00	10/23/00	10/23/00
Date analyzed	Limits	10/23/00	10/23/00	10/23/00	10/23/00	10/23/00	10/23/00

NWTPH-Gx, mg/kg

Mineral spirits/Standard solvent	5.0	nd	nd	nd	nd	nd	nd
Gasoline	5.0	nd	nd	nd	nd	nd	nd

BTEX, ug/kg

Benzene	50	nd	nd	nd	nd	nd	nd
Toluene	50	nd	nd	nd	nd	nd	nd
Ethylbenzene	50	nd	nd	nd	nd	nd	nd
Xylenes	50	nd	nd	nd	nd	nd	nd

Surrogate recoveries:

Trifluorotoluene	84%	84%	85%	100%	100%	100%
Bromofluorobenzene	86%	82%	83%	100%	100%	100%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
 na - not analyzed
 C - co-elution with sample peaks
 M - matrix interference
 J - estimated value
 Results reported on dry-weight basis
 Acceptable Recovery limits: 65% TO 135%
 Acceptable RPD limit: 35%

24-00 11:46A TEG NW BELLEVUE

425 957-9904

P.04

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9972, fax (425) 957-9974

TEG Job Number: S01023-1
Client: HART CROWSER
Client Job Name: SUMMIT RIDGE
Client Job Number: 7263
Printed: 10/24/00 11:37

Analytical Results		MTH BLK	S-87	S-88	S-89	S-90	S-91
NWTPH-Dx, mg/kg	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Matrix	Reporting	10/23/00	10/23/00	10/23/00	10/23/00	10/23/00	10/23/00
Date extracted	Limits	10/23/00	10/23/00	10/23/00	10/23/00	10/23/00	10/23/00
Date analyzed			13%	15%			
Moisture, %							
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd	nd
Diesel/Fuel oil	20	nd	220	nd	nd	nd	nd
Heavy oil	50	nd	200	1,200	nd	nd	nd
Surrogate recoveries:							
Fluorobiphenyl		83%	90%	93%	90%	90%	83%
o-Terphenyl		75%	90%	80%	88%	87%	73%

Data Qualifiers and Analytical Comments

- nd - not detected at listed reporting limits
- na - not analyzed
- C - co-elution with sample peaks
- M - matrix interference
- J - estimated value
- Results reported on dry-weight basis
- Acceptable Recovery limits: 85% TO 135%
- Acceptable RPD limit: 35%

-24-00 11:46A TEG NW BELLEVUE

425 957-9904

P.05

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9972, fax (425) 957-9904

TEG Job Number: S01023-1
Client: HART CROWS
Client Job Name: SUMMIT RIDGE
Client Job Number: 7253
Printed: 10/24/00 11:37

Analytical Results		DUPL					
NWTPH-Dx, mg/kg		S-82	S-82	S-83	S-84	S-85	S-88
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/23/00	10/23/00	10/23/00	10/24/00	10/24/00	10/24/00
Date analyzed	Limits	10/23/00	10/23/00	10/23/00	10/24/00	10/24/00	10/24/00
Moisture, %							
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd	nd
Diesel/Fuel oil	20	nd	nd	nd	nd	nd	nd
Heavy oil	50	nd	nd	nd	nd	nd	nd
Surrogate recoveries:							
Fluorobiphenyl		82%	84%	90%	94%	82%	81%
o-Terphenyl		76%	78%	88%	88%	88%	73%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting times

na - not analyzed

C - co-elution with sample peaks

M - matrix interference

J - estimated value

Results reported on dry-weight basis

Acceptable Recovery limits: 65% TO 135%

Acceptable RPD limit: 36%

TEG NW SEATTLE CHEMISTRY LABORATORY
(425) 957-9872, fax (425) 957-9904

TEG Job Number: S01023-1
Client: HART CROWS
Client Job Name: SUMMIT RIDGE
Client Job Number: 7263
Printed: 10/24/00 11:37

Analytical Results

NWTPH-Ox. mg/kg		S-97	S-98	S-99	S-100	S-101
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	10/24/00	10/24/00	10/24/00	10/24/00	10/24/00
Date analyzed	Limits	10/24/00	10/24/00	10/24/00	10/24/00	10/24/00
Moisture, %						
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd
Diesel/Fuel oil	20	nd	nd	nd	nd	nd
Heavy Oil	30	nd	nd	nd	nd	nd

Surrogate recoveries:

Fluorobiphenyl	82%	82%	82%	83%	83%
o-Terphenyl	74%	74%	73%	88%	88%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits

na - not analyzed

C - coelution with sample peaks

M - matrix interference

J - estimated value

Results reported on dry-weight basis

Acceptable Recovery limits: 65% TO 135%

Acceptable RPD limit: 35%

Clark, Beth

From: Clark, Beth
Sent: Thursday, October 12, 2000 3:48 PM
To: Lowe, Rick; Thomson, Jim
Cc: Agid, Paul
Subject: SummitRidge

During excavation at the Summit Ridge Project Site in Bellevue, petroleum impacted soil reportedly associated with home heating oil tanks was encountered. CTI has presented documentation that all contamination associated with the home heating oil tanks has been removed. Excavation at the site may continue with the following conditions:

- There be full time on-site supervision during excavation by an environmental professional to a depth of 25 feet.
- There be periodic site inspection by an environmental professional at depths greater than 25 feet.
- If suspect material is encountered the following procedures shall be implemented: (1) All transport to the third runway be immediately stopped. (2) CTI immediately notify the Port. (3) All suspect material be removed appropriately from the site under the supervision of an environmental professional. (4) CTI provides the Port documentation regarding the source of suspect material and all sample results.
- Upon review of the documentation the Port will make a determination as to whether to continue to accept further material from this site.

The Port understands that there is potential for uncontrolled fill to be present at this site. Though there is no known contamination associated with this material, the material is not suitable for use a Third Runway Fill. CTI does not need to notify the Port if this material is encountered; however, the handling and segregation of that material should also be overseen by the environmental professional.

Please call me, if you have any questions regarding these conditions.

Beth



HARTCROWSER

Delivering smarter solutions

www.hartcrowser.com

October 11, 2000

Mr. John Jackson
Bentall Enterprises
The Summit
Bellevue, Washington 98004

Re: Soil Removal Summary
The Summit
Bellevue, Washington
J-7263

Dear Mr. Jackson:

This letter discusses the discovery, sampling and analysis, and removal of petroleum-contaminated soil (PCS) at the above referenced construction site. We understand that soil was being excavated from the site and transported to the Port of Seattle Third Runway Project when soil containing petroleum odor was discovered on October 5, 2000. On October 6, 2000, Hart Crowser collected twelve soil samples from the excavation site, including samples representative of the soil transported to the Port of Seattle. Chemical laboratory test results of the submitted soil samples indicated that the soil contained detectable concentrations of total petroleum hydrocarbons (TPH), including gasoline (12 to 150 mg/kg); ethylbenzene (82 to 320 mg/kg); xylenes (59 to 650 mg/kg); and diesel/fuel oil (41 to 5,800 mg/kg).

Based on the chemical test results, a soil profile was submitted for transportation and thermal treatment of the PCS at CSR Associated in Everett, Washington. The soil profile was approved on October 6, 2000, and transportation of PCS commenced. Based on information obtained from Sellen, the soil from the Port of Seattle Third Runway Project (approximately 1,540 tons) was transported to CSR Associated on October 6 and 7. Additionally, approximately 6,700 tons of PCS were transported from the Summit Ridge site to CSR Associated between October 6 and 10, 2000.

During excavation of PCS from The Summit site on October 9, 2000, a small UST (suspected heating oil tank) was discovered and removed. PCS adjacent to the UST was excavated and transported to CSR Associated for thermal treatment. Verification samples S-43 through S-46 (three side wall samples and one bottom sample) were collected from the

1910 Fairview Avenue East
Seattle, Washington 98102-3699
Fax 206.328.5581
Tel 206.328.8580



Bentall Enterprises
October 11, 2000

J-7263
Page 2

UST excavation area following soil removal. Test results indicated these samples were non-detect for TPH, indicating all PCS was removed.

On the morning of October 10, 2000, Hart Crowser collected eight samples (S-47 through S-54) from the surface of the excavation site to determine whether surface soils contained detectable concentrations of TPH. Test results indicated these samples were non-detect for TPH. During subsequent dozing of the site in preparation for mass excavation, an additional area of PCS was discovered. Affected soils were excavated based on visual and olfactory observation, and verification soil samples collected (S-76 through S-79). Test results indicated these samples were non-detect for TPH, indicating all PCS were removed.

A summary of the available sample results (S-1 through S-81) is presented in Table 1. Copies of currently available preliminary chemical laboratory certificates (S-1 through S-42) are included in Appendix A. Test results for samples S-43 through S-81 are based on verbal information from the testing laboratory. Copies of laboratory chains of custody are included in Appendix B.

Based on discussions with Hart Crowser site representatives and a review of verification test results, we conclude that directing PCS removal using visual and olfactory observations and photoionization detector monitoring is achieving the goal of PCS removal. We feel that continued excavation of clean (no odor, non-detect) site soils with transportation to the Port of Seattle Third Runway Project is possible with oversight by Hart Crowser and concurrence by an AMEC representative. We look forward to a favorable response to the Excavation Contingency Plan, and hope to see soil transported to the Port of Seattle in the near future.

AR 019726



Bentall Enterprises
October 11, 2000

J-7263
Page 3

We trust that this letter meets your current needs. If you have any questions or need any additional information, please call me.

Sincerely,

HART CROWSER, INC.

GARRY E. HORVITZ, P.E.
Senior Principal

MATTHEW SNELL, P.E.
Senior Project Environmental Engineer

F:\Doc\Jobs\7263\SoilRemoval\hr.doc

Attachments:

- Table 1 - Analytical Results for Soil Samples
- Appendix A- Transglobal Environmental Geosciences Northwest, Inc. (TEG)
Preliminary Chemical Laboratory Certificates
- Appendix B- Sample Chain of Custody Records

AR 019727

Table 1 - Analytical Results for Soil Samples

Sample ID:	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	S-9	S-10
Sampling Date:	10/5/00	10/5/00	10/5/00	10/5/00	10/5/00	10/5/00	10/5/00	10/5/00	10/5/00	10/5/00
NWTPH-Gx in mg/kg										
Mineral Spirits/Stoddard Solvent	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Gasoline	5.0 U	5.0 U	5.0 U	5.0 U	150	55	28	29	5.0 U	29
BTEX in µg/kg										
Benzene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Toluene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Ethylbenzene	320	50 U	50 U	50 U	82	50 U	50 U	50 U	50 U	50 U
Xylenes	650	50 U	50 U	50 U	460	110	190	100	50 U	59
NWTPH-Dx in mg/kg										
Kerosene/Jet Fuel	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Diesel/Fuel Oil	5,800	20 U	41	20 U	210	20 U	20 U	20 U	97	20 U
Heavy Oil	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U

Sample ID:	S-11	S-12	S-13	S-14	S-15	S-16	S-17	S-18	S-19	S-20
Sampling Date:	10/5/00	10/5/00	10/6/00	10/6/00	10/6/00	10/6/00	10/6/00	10/7/00	10/7/00	10/7/00
NWTPH-Gx in mg/kg										
Mineral Spirits/Stoddard Solvent	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Gasoline	46	12	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
BTEX in µg/kg										
Benzene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Toluene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Ethylbenzene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Xylenes	200	170	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
NWTPH-Dx in mg/kg										
Kerosene/Jet Fuel	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Diesel/Fuel Oil	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Heavy Oil	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U

Sheet 2 of 5

Table 1 - Analytical Results for Soil Samples

Sample ID:	S-21	S-22	S-23	S-24	S-25	S-26	S-27	S-28	S-29	S-30
Sampling Date:	10/7/00	10/7/00	10/7/00	10/7/00	10/7/00	10/7/00	10/7/00	10/7/00	10/7/00	10/7/00
NWTPH-Gx in mg/kg										
Mineral Spirits/Stoddard Solvent	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.6 U
Gasoline	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
BTEX in µg/kg										
Benzene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Toluene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Ethylbenzene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Xylenes	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
NWTPH-Dx in mg/kg										
Kerosene/Jet Fuel	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Diesel/Fuel Oil	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Heavy Oil	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U

Sample ID:	S-31	S-32	S-33	S-34	S-35	S-36	S-37	S-38	S-39	S-40
Sampling Date:	10/7/00	10/7/00	10/7/00	10/7/00	10/9/00	10/9/00	10/9/00	10/9/00	10/9/00	10/9/00
NWTPH-Gx in mg/kg										
Mineral Spirits/Stoddard Solvent	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Gasoline	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
BTEX in µg/kg										
Benzene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Toluene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Ethylbenzene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Xylenes	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
NWTPH-Dx in mg/kg										
Kerosene/Jet Fuel	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Diesel/Fuel Oil	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Heavy Oil	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U

7261\Chem\81165.d 10/6/00

Table 1 - Analytical Results for Soil Samples

Sheet 3 of 5

Sample ID:	S-41	S-42	S-43	S-44	S-45	S-46	S-47	S-48	S-49	S-51
Sampling Date:	10/9/00	10/9/00	10/10/00	10/10/00	10/10/00	10/10/00	10/10/00	10/10/00	10/10/00	10/10/00
NWTPH-Cx in mg/kg										
Mineral Spirits/Stoddard Solvent	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Gasoline	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
BTEX in µg/kg										
Benzene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Toluene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Ethylbenzene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Xylenes	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
NWTPH-Dx in mg/kg										
Kerosene/Jet Fuel	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Diesel/Fuel Oil	1,700	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Heavy Oil	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Sample ID:										
S-51										
Sampling Date:										
10/10/00										
NWTPH-Cx in mg/kg										
Mineral Spirits/Stoddard Solvent	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Gasoline	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
BTEX in µg/kg										
Benzene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Toluene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Ethylbenzene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Xylenes	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
NWTPH-Dx in mg/kg										
Kerosene/Jet Fuel	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Diesel/Fuel Oil	20 U	20 U	20 U	20 U	20 U	20 U	61	20 U	170	20 U
Heavy Oil	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U

Table 1 - Analytical Results for Soil Samples

Sample ID:	S-61	S-62	S-63	S-64	S-66	S-66	S-67	S-68	S-69	S-71)
Sampling Date:	10/10/00	10/10/00	10/10/00	10/10/00	10/10/00	10/10/00	10/10/00	10/10/00	10/10/00	10/10/00
NWTPH-Gx in mg/kg										
Mineral Spirits/Stoddard Solvent	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Gasoline	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
BTEX in µg/kg										
Benzene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Toluene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Ethylbenzene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Xylenes	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
NWTPH-Dx in mg/kg										
Kerosene/Jet Fuel	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Diesel/Fuel Oil	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Heavy Oil	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U

Sample ID:	S-71	S-72	S-73	S-74	S-77	S-77	S-77	S-78	S-79	S-80
Sampling Date:	10/10/00	10/10/00	10/10/00	10/10/00	10/10/00	10/10/00	10/10/00	10/10/00	10/10/00	10/10/00
NWTPH-Gx in mg/kg										
Mineral Spirits/Stoddard Solvent	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Gasoline	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
BTEX in µg/kg										
Benzene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Toluene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Ethylbenzene	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Xylenes	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
NWTPH-Dx in mg/kg										
Kerosene/Jet Fuel	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Diesel/Fuel Oil	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Heavy Oil	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U

Table 1 - Analytical Results for Soil Samples

Sample ID:	S-81	S-82	S-83	S-84	S-85
Sampling Date:	10/10/00	10/11/00	10/11/00	10/11/00	10/11/00
NWTFH-Gx in mg/kg					
Mineral Spirits/Stoddard Solvent	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Gasoline	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
BTEX in µg/kg					
Benzene	50 U	50 U	50 U	50 U	50 U
Toluene	50 U	50 U	50 U	50 U	50 U
Ethylbenzene	50 U	50 U	50 U	50 U	50 U
Xylenes	50 U	50 U	50 U	50 U	50 U
NWTFH-Ox in mg/kg					
Kerosene/Jet Fuel	20 U	20 U	20 U	20 U	20 U
Diesel/Fuel Oil	20 U	20 U	20 U	20 U	20 U
I-heavy Oil	50 U	50 U	50 U	50 U	50 U

U Not detected at indicated detection limit

Summary of Sample Collection by Date

October 5, 2000 (S-1 through S-12). Samples S-1 through S-12 were collected from the area of the initial soil push (bermed soil) to determine the extent to which PCS was mixed and identify contaminant concentrations for profiling. All PCS associated with samples S-1 through S-12 were removed from the site and transported to CSR Associated.

October 6, 2000 (S-13 through S-17). Samples S-13 through S-17 were collected from the bermed soil. All PCS associated with samples S-13 through S-17 were removed from the site and transported to CSR Associated.

October 7, 2000 (S-18 through S-34). Samples S-18 through S-34 were collected as verification samples following identification, excavation, and removal of PCS. Samples S-18 through S-23, S-26, S-27, and S-32 and S-34 were collected from excavation sidewalls. Samples S-24 and S-25 were collected from shallow excavation pits, and S-28 through S-31 and S-33 were collected from the bottom of the excavation. All samples were non-detect for TPH.

October 9, 2000 (S-35 through S-42). Samples S-35 through S-40, and S-42 were collected as verification samples following identification, excavation, and removal of PCS. During excavation and removal of PCS on October 9, an underground storage tank (suspected to be a former home heating oil tank) was discovered and removed. Sample S-41 was collected from a band of suspect soil below the former tank location, resulting in the diesel/fuel oil concentration of 1,700 mg/kg.

October 10, 2000 (S-43 through S-81). Samples S-43 through S-46 were verification samples collected from the vicinity of the former UST following PCS removal, including the soil previously addressed by sample S-41. These verification samples were non-detect for TPH. Samples S-47 through S-54 were verification surface soil samples collected to assess the quality of soils across the site prior to dozing soil in preparation for removal. The eight surface samples were non-detect for TPH.

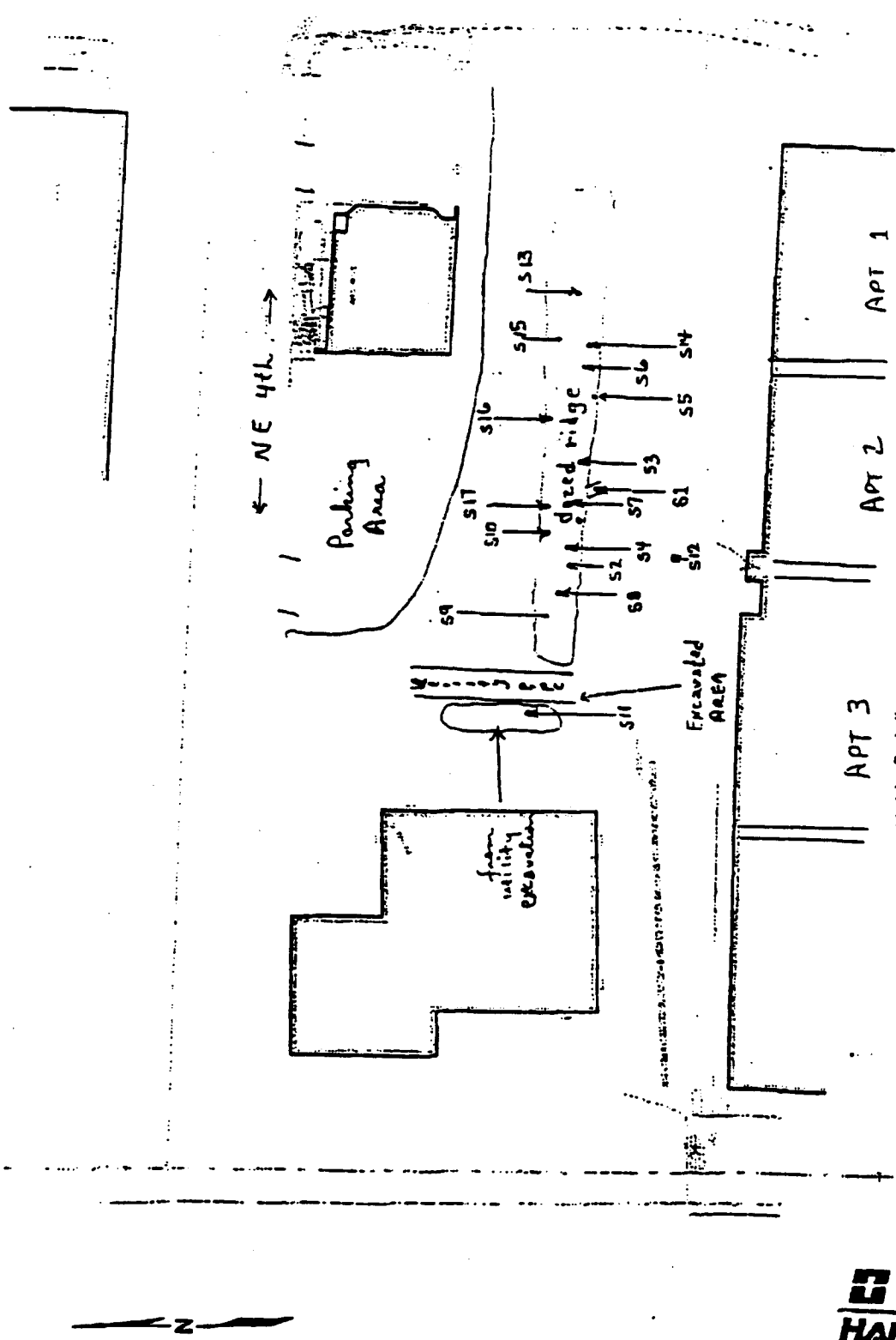
Samples S-55, S-56, and S-61 through S-75 were collected from pits excavated throughout the site at depths of 4- to 5-feet. All pit samples were non-detect for TPH.

Samples S-57 through S-59 were collected to determine the extent of PCS discovered during dozing of site soils. Sample S-57 was collected from surface soils; S-57 and S-58 were collected from the east and west portions of the soil "push face", respectively. Test results for S-57 and S-59 indicated diesel/fuel oil concentrations of 61 mg/kg and 170 mg/kg, respectively. Sample S-58 was non-detect for TPH. PCS associated with these samples was excavated and transported to CSR Associated. Following removal of the PCS, samples S-76

through S-81 were collected as verification samples. All verification samples were non-detect for TPH.

October 11, 2000 (S-82 through S-85). Samples S-82 through S-85 were collected as verification samples following identification, excavation, and removal of PCS. All verification samples were non-detect for TPH.

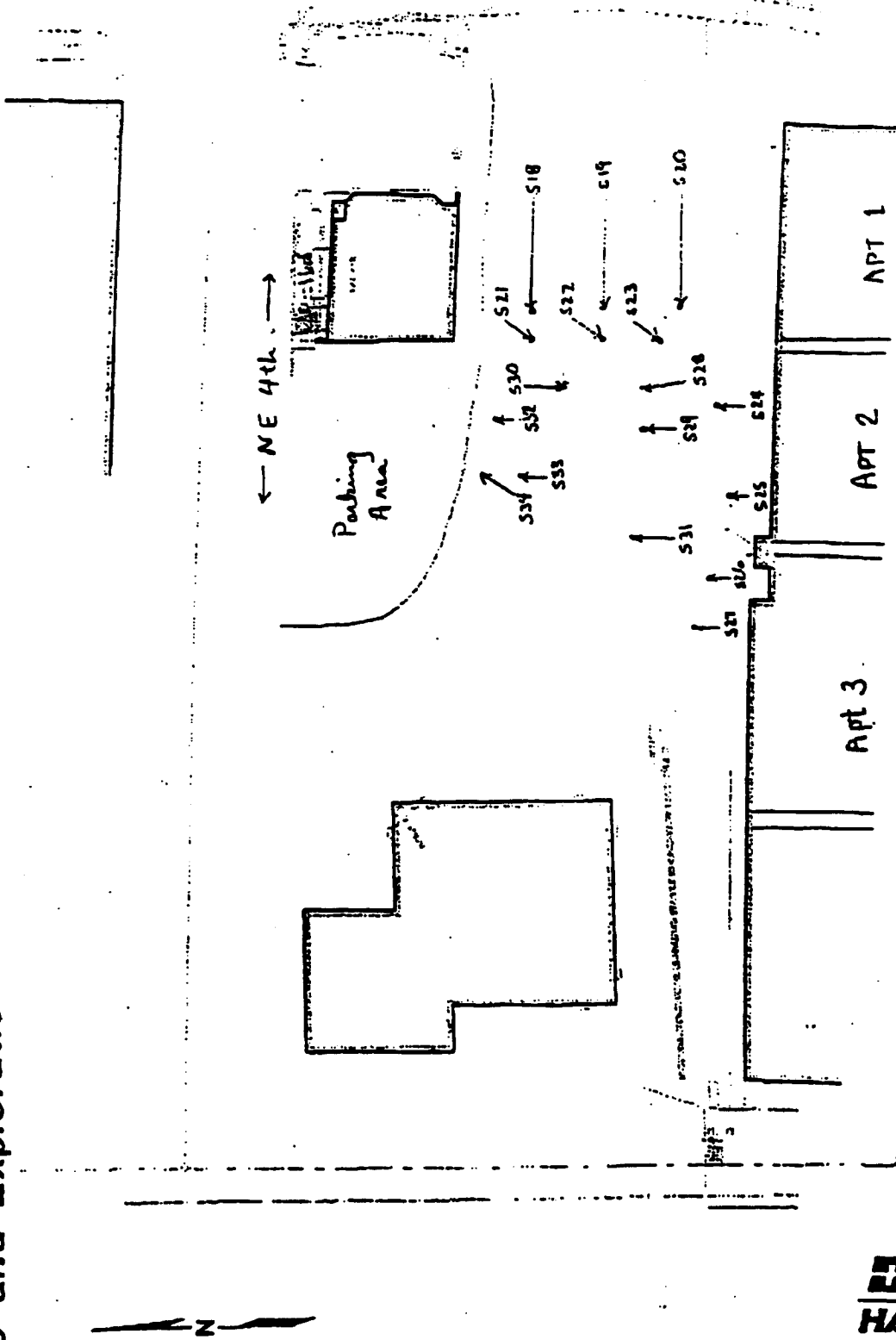
Site and Exploration Plan



Note: Base map prepared from electronic file provided by Pentahogon Associates Consulting Engineers, Inc. entitled "9689ALTA.dwg".

• S-1 Soil Sample Location and Designation

Site and Exploration Plan



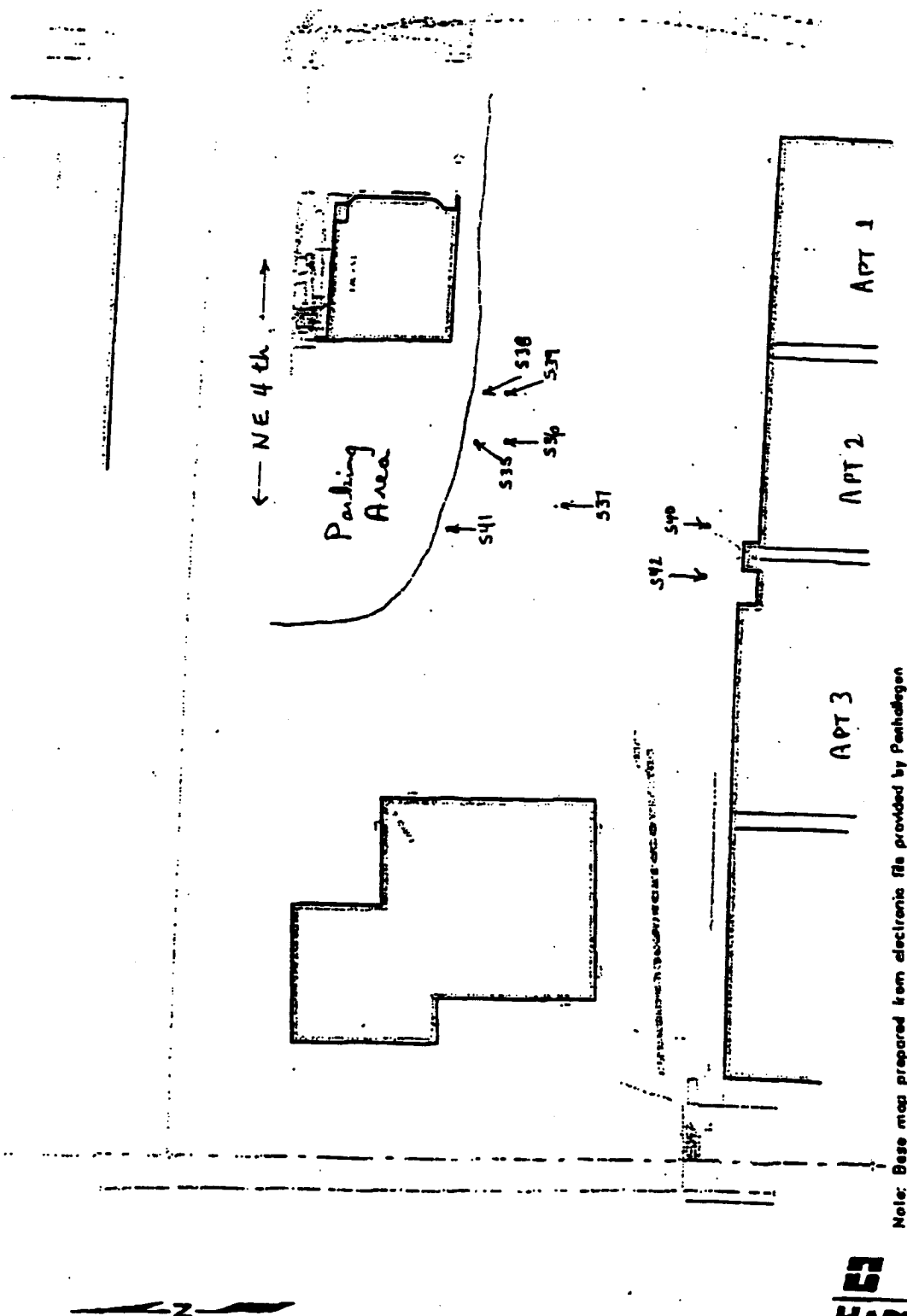
Note: Base map prepared from electronic file provided by Penhalligan Associates Consulting Engineers, Inc. entitled "9889A.TA.dwg".

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• S-1 Soil Sample Location and Designation



Site and Exploration Plan



Note: Base map prepared from electronic file provided by Penndelgen Associates Consulting Engineers, Inc. entitled "9689ALTA.dwg".



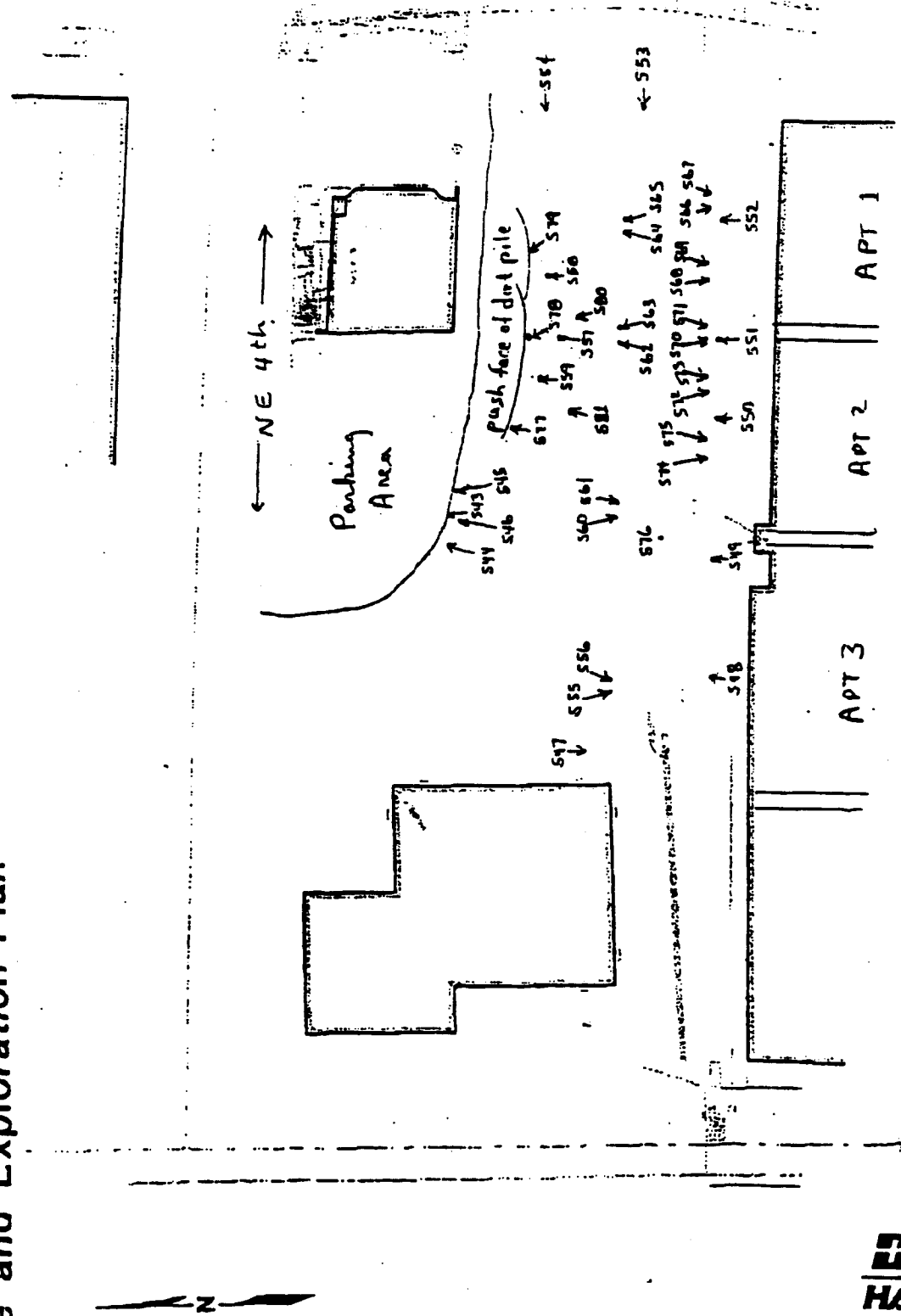
• S-1 Soil Sample Location and Designation

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 Figure 1

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Site and Exploration Plan



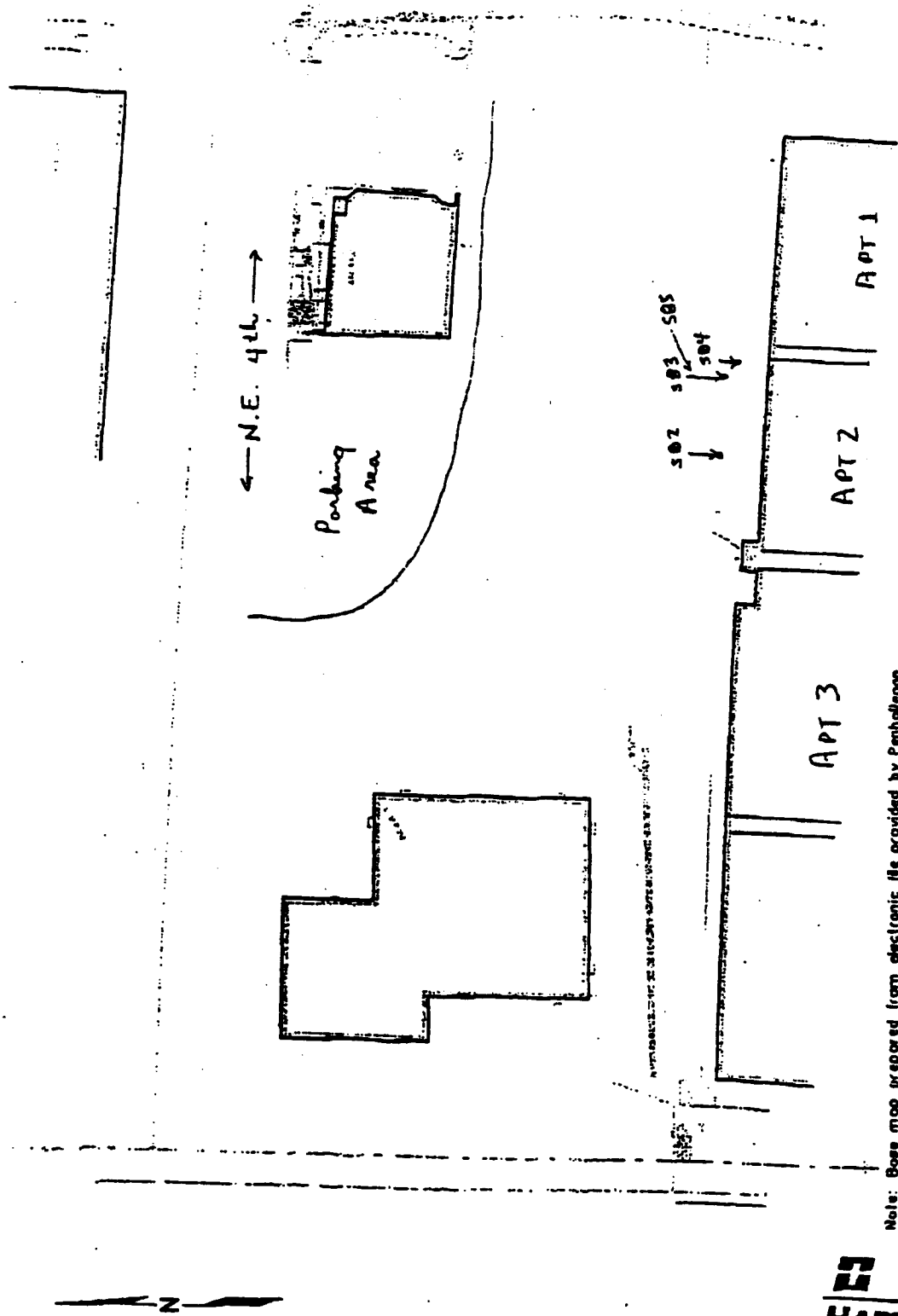
Note: Base map prepared from electronic file provided by Parhallegon Associates Consulting Engineers, Inc. entitled "9689ALIA.dwg".

• S-1 Soil Sample Location and Designation

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 Figure 1

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Site and Exploration Plan



Note: Base map prepared from electronic file provided by Penhalligon Associates Consulting Engineers, Inc. entitled "9869ALTA.dwg".

● S-1 Soil Sample Location and Designation