Table 1
February 9, 2005
SHD Soil Sampling @ 1515 196th ST SE
Schlueter Site

Analysis →		As	Cd	Cr	Pb	NWTPH Dx	NWTPH Heavy Oils
MTCA Method A Clean-up Level →		20	2	19/2000	250	2000	2000
Location ↓	Sample Depth ↓						
S-S1	16 inches	8.01	**2.51**	31.53	16.36	ND	ND
S-S2	0-14 inches	14.52	1.94	21.71	17.92	ND	ND
S-S3	6-19 inches	10.83	1.52	16.03	13.22	ND	ND
S-S4	10 inches	4.00	1.3	27.49	6.06	ND	ND
S-S5	3-4 inches	6.85	**2.10**	36.0	***748**	ND	***70,000**
S-S6	10 inches	10.37	1.71	32.51	5.16	NA	NA
S-S7	10 inches	4.01	**2.59**	36.68	4.45	NA	NA
S-S8	10 inches	4.78	**2.82**	78.0	5.10	NA	NA

All results are noted in mg/kg unless otherwise noted
Bold type depicts MTCA exceedances.
ND = Non-Detect
NA = Analysis not preformed
* = Sample collected in a highly contaminated area below a leaking 5 gallon oil bucket

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RECEIVED
MAR - 2 2005
Snohomish Health District Environmental Health

February 28, 2005

Geoffrey Crofoot
Snohomish Health District - Toxics
3020 Rucker Ave Ste 104
Everett, WA 98201

RE: 05-01492 - Schlueter

Dear Geoffrey Crofoot,

Your project: Schlueter, was received on Friday February 11, 2005.
The following comments are reported for your project:

Method NWTPH-Dx: Sample 3222 was quantitated against lube oil, possibly containing a mineral oil based transformer oil
.

If you have questions phone me at 800 755-9295.

Respectfully Submitted,

L. J. Henderson, PhD
Laboratory Director

Enclosures Data Report
QC Reports
Chain of Custody

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RECEIVED
MAR - 2 2005
Snohomish Health District Environmental Health

Data Report

Client Name: Snohomish Health District - Toxics
3020 Rucker Ave Ste 104
Everett, WA 98201

Report Date: 2/23/2005
Reference Number: 05-01492
Project: Schlueter

Collected By: Geofrey Crofoot

Date Received: 2/11/2005
Supervisor: PM

Analyte	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comments
Lab Number: 3218	Sample Description: 1040007731-1 - E corner driveway						Sample Date: 2/9/2005			
ARSENIC	8.01	1.4		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
CADMIUM	2.51	1.4		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
CHROMIUM	31.53	1.4		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
LEAD	16.36	1.4		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
Lab Number: 3219	Sample Description: 1040007731-2 - W portion parking lot						Sample Date: 2/9/2005			
ARSENIC	14.52	1		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
CADMIUM	1.94	1		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
CHROMIUM	21.71	1		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
LEAD	17.92	1		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
Lab Number: 3220	Sample Description: 1040007731-3 - E corner w driveway						Sample Date: 2/9/2005			
ARSENIC	10.83	0.9		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
CADMIUM	1.52	0.9		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
CHROMIUM	16.03	0.9		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
LEAD	13.22	0.9		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
Lab Number: 3221	Sample Description: 1040007731-4 - SE corner red barn						Sample Date: 2/9/2005			
ARSENIC	4.00	0.9		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
CADMIUM	1.30	0.9		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
CHROMIUM	27.49	0.9		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
LEAD	6.06	0.9		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
Lab Number: 3222	Sample Description: 1040007731-5 - NE corner red barn						Sample Date: 2/9/2005			
ARSENIC	6.85	0.9		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
CADMIUM	2.10	0.9		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
CHROMIUM	36.0	0.9		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
LEAD	748	8.8		mg/Kg	10.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
Lab Number: 3223	Sample Description: 1040007731-6 - Base of fill west prop.						Sample Date: 2/9/2005			
ARSENIC	10.37	1		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
CADMIUM	1.71	1		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
CHROMIUM	32.51	1		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	

PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
ND = Not detected above the listed practical quantitation limit (PQL)
D.F. - Dilution Factor

WSDOE Lab C057
WSDOH Lab 046

Reference Number: 05-01492
Report Date: 2/23/2005

Data Report

Collected By: Geofrey Crofoot

Date Received: 2/11/2005

Analyte	Result	PQL	MDL	Units	DF	Method	Analyzed	Analyst	Batch	Comments
LEAD	5.16	1		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
Lab Number: 3224	Sample Description: 1040007731-7 - top of fill south side						Sample Date: 2/9/2005			
ARSENIC	4.01	1		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
CADMIUM	2.59	1		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
CHROMIUM	36.68	1		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
LEAD	4.45	1		mg/Kg	1.0	6010B/3051	2/15/2005	LJH	6010B_050215A	
Lab Number: 3225	Sample Description: 1040007731-8 - top of fill east side						Sample Date: 2/9/2005			
ARSENIC	4.78	1.32		mg/Kg	1.0	6010B/3051	2/21/2005	LJH	6010B_050221A	
CADMIUM	2.82	1.32		mg/Kg	1.0	6010B/3051	2/21/2005	LJH	6010B_050221A	
CHROMIUM	78.0	1.32		mg/Kg	1.0	6010B/3051	2/21/2005	LJH	6010B_050221A	
LEAD	5.10	1.32		mg/Kg	1.0	6010B/3051	2/21/2005	LJH	6010B_050221A	

PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
ND = Not detected above the listed practical quantitation limit (PQL)
D.F. - Dilution Factor

WSDOE Lab C057
WSDOH Lab 046

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WSDOE Lab C057

DATA REPORT

Client Name: Snohomish Health District - Toxics
3020 Rucker Ave Ste 104
Everett, WA 98201

Reference Number: 05-01492
Rep 2/25/2005
Project: Schlueter

Method: NWTPH-Dx
SEMI-VOLATILE PETROLEUM PRODUCTS
Matrix: Soil

Analyst: CMH
Collect Date: 2/9/2005
Supervisor:

LAB NUMBER	FIELD ID	COMPOUNDS	RESULT	DF	Cleanup Level	PQL	MDL	UNITS	DATE ANALYZED	COMMENT
3218	1040007731-1 - E corner driveway	DIESEL (C12 - C24)	**ND**	1	2000	25	25	mg/Kg	2/18/2005	
		HEAVIER OILS (>C24)	**ND**	1	2000	100	40	mg/Kg		
3219	1040007731-2 - W portion parking lot	DIESEL (C12 - C24)	**ND**	1	2000	25	25	mg/Kg	2/18/2005	
		HEAVIER OILS (>C24)	**ND**	1	2000	100	40	mg/Kg		
3220	1040007731-3 - E corner w driveway	DIESEL (C12 - C24)	**ND**	1	2000	25	25	mg/Kg	2/18/2005	
		HEAVIER OILS (>C24)	**ND**	1	2000	100	40	mg/Kg		
3221	1040007731-4 - SE corner red barn	DIESEL (C12 - C24)	**ND**	1	2000	25	25	mg/Kg	2/18/2005	
		HEAVIER OILS (>C24)	**ND**	1	2000	100	40	mg/Kg		
3222	1040007731-5 - NE corner red barn	DIESEL (C12 - C24)	**ND**	50	2000	1250	1250	mg/Kg	2/18/2005	
		HEAVIER OILS (>C24)	**70000**	50	2000	5000	2000	mg/Kg		

Notation:

ND - A result of "ND" indicates that the compound was not detected above the Lab's Method Reporting Limit - MRL.
Cleanup Level - The regulatory limit for Method A Cleanup Levels (MTCA, Chapter173-340 WAC) contaminants in the specified matrix. Amended Feb 12, 2001
PQL = Practical Quantitation Limit is the lowest level that can be acheived within specified limits of precision and accuracy during routine laboratory operating conditions.
*** The Cleanup level for Gasoline Range Organics (GRO) is 100 mg/Kg for gas mixtures without benzene and when the total ethylbenzene, toluene and xylenes are less than 1% of the gasoline concentration. The Cleanup level for GRO is 30 mg/Kg for all other mixtures.**

FORM: HCID

QUALITY CONTROL REPORT
SURROGATE REPORT

Reference Number: 05-01492
Report Date: 02/25/05

Lab No	Analyte	Result	Units	Method	Limit
DXS_050214 3218	O-TERPHENYL	122	%	NWTPH-Dx	
DXS_050214 3219	O-TERPHENYL	122	%	NWTPH-Dx	
DXS_050214 3220	O-TERPHENYL	104	%	NWTPH-Dx	
DXS_050214 3221	O-TERPHENYL	126	%	NWTPH-Dx	
DXS_050214 3222	O-TERPHENYL	76	%	NWTPH-Dx	

*Notation:

A surrogate is a pure compound added to a sample in the laboratory just before processing so that the overall efficiency of a method can be determined.

The Acceptance Limits (or Control Limits) approximate a 99% confidence interval around the mean recovery.

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QUALITY CONTROL REPORT
BLANK REPORT

Reference Number: 05-01492
Report Date: 02/25/05

Batch	Analyte	Result	Units	Limit	QC Qualifier	Method	Type*	Comments
6010B_050215A	CHROMIUM	ND	mg/L	0.00		6010B	LRB	
	ARSENIC	ND	mg/L	0.01		6010B	LRB	
	CADMIUM	ND	mg/L	0.00		6010B	LRB	
	LEAD	ND	mg/L	0.00		6010B	LRB	
6010B_050221A	CHROMIUM	ND	mg/L	0.00		6010B	LRB	
	ARSENIC	ND	mg/L	0.01		6010B	LRB	
	CADMIUM	ND	mg/L	0.00		6010B	LRB	
	LEAD	ND	mg/L	0.00		6010B	LRB	
6010B_050215A	CHROMIUM	ND	mg/L	0.62		6010B	MB	
	ARSENIC	ND	mg/L	3.12		6010B	MB	
	CADMIUM	ND	mg/L	0.62		6010B	MB	
	LEAD	ND	mg/L	3.12		6010B	MB	
6010B_050221A	CHROMIUM	ND	mg/L	0.62		6010B	MB	
	ARSENIC	ND	mg/L	3.12		6010B	MB	
	CADMIUM	ND	mg/L	0.62		6010B	MB	
	LEAD	ND	mg/L	3.12		6010B	MB	
DXS_050214	DIESEL (C12 - C24)	ND	mg/Kg	6.25		NWTPH-Dx	MB	
	HEAVIER OILS (>C24)	ND	mg/Kg	10.00		NWTPH-Dx	MB	
	O-TERPHENYL	118	%	0.00		NWTPH-Dx	MB	

*Notation:

LRB: Laboratory Reagent Blanks are used to determine the background level of the analytes in a laboratory batch. Therefore, this report may include analytes not requested for your submitted samples.

MB: Method Blanks are used to determine background levels of analytes in digested and extracted laboratory reagent water.

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QUALITY CONTROL REPORT
QCS/LFB REPORT

Reference Number: 05-01492
Report Date: 02/25/05

Batch	Analyte	Result	True Value	Units	Method	% Recovery	Limits	QC Qualifier Type*	Comment
6010B_050215A	CHROMIUM	0.9066	1	mg/L	6010B	91	70-130	LFB	
	ARSENIC	0.8659	1	mg/L	6010B	87	70-130	LFB	
	CADMIUM	0.8417	1	mg/L	6010B	84	70-130	LFB	
	LEAD	0.8829	1	mg/L	6010B	88	70-130	LFB	
6010B_050221A	CHROMIUM	1.09	1	mg/L	6010B	109	70-130	LFB	
	ARSENIC	1.0651	1	mg/L	6010B	107	70-130	LFB	
	CADMIUM	1.0352	1	mg/L	6010B	104	70-130	LFB	
	LEAD	1.0331	1	mg/L	6010B	103	70-130	LFB	
DXS_050214	DIESEL (C12 - C24)	128	125	mg/Kg	NWTPH-Dx	102	80-120	LFB	
	O-TERPHENYL	112		%	NWTPH-Dx		70-130	LFB	
6010B_050215A	CHROMIUM	2.1166	2	mg/L	6010B	106	70-130	QCS	
	ARSENIC	2.1022	2	mg/L	6010B	105	70-130	QCS	
	CADMIUM	2.11	2	mg/L	6010B	106	70-130	QCS	
	LEAD	2.0323	2	mg/L	6010B	102	70-130	QCS	

*Notation:

% Recovery = (Result of Analysis)/(True Value) * 100

NA = Indicates % Recovery could not be calculated.

QCS: Quality Control Sample, a solution containing known concentrations of method analytes which is used to fortify an aliquot of reagent matrix. The QCS is obtained from an external source and is used to check lab performance.

LFB: Laboratory Fortified Blank, an aliquot of reagent matrix to which known quantities of method analytes are added in the lab. The LFB is analyzed exactly like a sample, and its purpose is to determine whether method performance is within accepted control limits.

FORM: cLFB

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QUALITY CONTROL REPORT

Duplicate and Matrix Spike/Matrix Spike Duplicate Report

Reference Number: 05-01492
Report Date: 2/25/2005

Duplicate

Batch	Sample	Analyte	Result	Duplicate Result	Units	Limits	%RPD	Limits	QC Qualifier	Comments
6010B_050215A										
	2493	LEAD	2230	2300	mg/Kg	70-130	**3.1**	0-45	DUP	
	3218	CHROMIUM	31.53	24.63	mg/Kg	80-120	**24.6**	0-45	DUP	
	3218	ARSENIC	8.01	7.25	mg/Kg	80-120	**10.0**	0-45	DUP	
	3218	CADMIUM	2.51	1.97	mg/Kg	80-120	**24.1**	0-45	DUP	
	3218	LEAD	16.36	15.73	mg/Kg	70-130	**3.9**	0-45	DUP	
6010B_050221A										
	3040	CHROMIUM	18.9	17.1	mg/Kg	80-120	**10.0**	0-45	DUP	
	3040	ARSENIC	5.73	4.91	mg/Kg	80-120	**15.4**	0-45	DUP	
	3040	CADMIUM	2.95	2.65	mg/Kg	80-120	**10.7**	0-45	DUP	
	3040	LEAD	13.3	11.0	mg/Kg	70-130	**18.9**	0-45	DUP	
DXS_050214										
	3221	O-TERPHENYL	126	125	%	70-130	**0.8**	0-50	DUP	

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Reference Number: 05-01492
Report Date: 2/25/2005

Matrix Spike

Batch	Sample	Analyte	Result	Spike Result	Duplicate Spike Result	Spike Conc	Units	Percent Recovery MS	Percent Recovery MSD	Limits	%RPD	Limits	QC Qualifier	Comments
6010B_050215A														
	2493	LEAD	2230	9010	1940	250	mg/Kg	**2,712**	**-116**	70-130	**217.9**	0-50	S	LFM
	3218	CHROMIUM	31.53	156.2	140.6	137	mg/Kg	**91**	**80**	80-120	**13.3**	0-60		LFM
	3218	ARSENIC	8.01	121.6	115.7	137	mg/Kg	**83**	**79**	80-120	**5.3**	0-60		LFM
	3218	CADMIUM	2.51	119.3	111.6	137	mg/Kg	**85**	**80**	80-120	**6.8**	0-60		LFM
	3218	LEAD	16.36	126.5	122.9	137	mg/Kg	**80**	**78**	70-130	**3.3**	0-50		LFM
6010B_050221A														
	3040	CHROMIUM	18.9	144	193	160	mg/Kg	**78**	**109**	80-120	**32.8**	0-60		LFM
	3040	ARSENIC	5.73	138	182	160	mg/Kg	**83**	**110**	80-120	**28.5**	0-60		LFM
	3040	CADMIUM	2.95	127	170	160	mg/Kg	**78**	**104**	80-120	**29.5**	0-60		LFM
	3040	LEAD	13.3	133	173	160	mg/Kg	**75**	**100**	70-130	**28.6**	0-50		LFM

%RPD = Relative Percent Difference

NA = Indicates %RPD could not be calculated

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) analyses are used to determine the accuracy (MS) and precision (MSD) of a analytical method in a given sample matrix. Therefore, the usefulness of this report is limited to samples of similar matrices analyzed in the same analytical batch.

Only Duplicate sample with detections are listed in this report

Qualifier Definitions

Reference Number: 05-01492
Report Date: 02/25/05

Qualifier	Definition
S	Spiking amount was lower than the 5:1 spike to background (sample amount) basis for performance criteria. The reported criteria does not apply due to increased errors in measurement of both sample and spike concentration.

Note: Some qualifier definitions found on this page may pertain to results or QC data which are not printed with this report.

CHAIN OF CUSTODY / ANALYSIS REQUEST

PAGE 1 OF 1

IMPORTANT PLEASE COMPLETE ALL APPLICABLE SHADED SECTIONS

CLIENT: Snohomish Health Dist.	BILL TO: Snohomish Health Dist.
ADDRESS: 3020 Rucker.	ADDRESS: 3020 Rucker.
CITY: Everett STATE: WA ZIP: 98201	CITY: Everett STATE: WA ZIP: 98201
PHONE: 425-339-5250 FAX:	PHONE: 425-339-5250 FAX:
EMAIL:	P.O. #:
PROJECT NAME: Schlueter.	VISA ☐ M/C ☐ A/E ☐ EXPIRES /
CONTACT: Geoffrey W. Colcort	CARD #:
SAMPLED BY: GWC	CARD HOLDER SIGNATURE:

FOR LAB USE ONLY

REF#

CHECK REGULATORY PROGRAM

- ☐ SAFE DRINKING WATER ACT
- ☐ CLEAN WATER ACT
- ☐ RCRA / CERCLA
- ☐ OTHER _____

EDGE ANALYTICAL, INC

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Phone: 360-757-1400
Fax: 360-757-1402
Toll Free: 800-755-9295
email: info@edgeanalytical.com

Edge Analytical
Snohomish health
1040 007 731
12/13/04
(800) 755-9295

INSTRUCTIONS

1. USE ONE LINE PER SAMPLE.
2. BE SPECIFIC IN TEST REQUESTS.
3. CHECK OFF TESTS TO BE PERFORMED FOR EACH SAMPLE.
4. ENTER NUMBER OF CONTAINERS.

TURN AROUND TIME REQUIRED

- ☐ STANDARD 10 WORKING DAYS
- ☐ 5 WORKING DAYS (50% SURCHARGE)
- ☐ 1–2 WORKING DAYS (100% SURCHARGE)
- ☐ OTHER _____

ANALYSIS REQUESTED

	SAMPLE ID	LOCATION	GRAB/ COMP.	MATRIX	DATE	TIME	Metals As, Cd, Cr, Pb	Oil & Grease NWTPH					NUMBER OF CONTAINERS	SPECIAL INSTRUCTIONS/ CONDITIONS OF RECEIPT
1	S-S1	E. corner Driveway	X	Soil	2/9/05		☒	☒	☐	☐	☐	☐	1	
2	S-S2	W. Portion Parking lot.	↓	↓	↓		☒	☒	☐	☐	☐	☐	1	
3	S-S3	E. Corner W. Driveway					☒	☒	☐	☐	☐	☐	1	
4	S-S4	SE Corner Red Barn					☒	☒	☐	☐	☐	☐	1	This was a bucket of Lube oil
5	S-S5	NE corner Red Barn					☒	☒	☐	☐	☐	☐	1	
6	S-S6	Base of fill west Prop					☒	☐	☐	☐	☐	☐	1	
7	S-S7	top of fill South side					☒	☐	☐	☐	☐	☐	1	
8	S-S8	top of fill East side					☒	☐	☐	☐	☐	☐	1	
9							☐	☐	☐	☐	☐	☐		
10							☐	☐	☐	☐	☐	☐		
													0	◄ TOTAL CONTAINERS

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
1. Geoffrey W. Colcort	2/10/05	9:30	1. [illegible]	2/11/05	9:32 AM
2. Marilyn [illegible]	2/11/05	9:32	2.		
3.			3.		
4.			4.		

	YES	NO	N/A
CUSTODY SEALS INTACT	☐	☐	☐
SAMPLE TEMP. SATISFACTORY _____ °C	☐	☐	☐
SAMPLES RECEIVED INTACT	☐	☐	☐
CHAIN OF CUSTODY & LABELS AGREE	☐	☐	☐

05 01492
3218-
322

Denny ~~John~~ Wright, Fire Marshal
Ryan, son / John - City of Bethel

(1) Off NE corner of house, due N about 50 ft
Middle of upturned dirt
16" - sandblast waste? top ½" — very rocky loam
Test for metals

(2) NW off of NW corner of house, about 60 ft. upturned area

tight, hard soil sample from 14-0"
1:40 pm. Hole is half way full of H_2O

(3) SE corner of concrete pad near driveway. Turned up area
W
19" Deep
Sample 19" below to 6" below surface

pm

(4) Just S of the red structure, approx. 15 ft.
0-9" gray, sandy soil
9-10" hit dark brown sandy soil

(5) Discreet sample NE corner of red building
1:20 pm, 3-4" BGS, thick, viscous oil in sandy loam
Strong petroleum odor

(6) 30 ft N of red building. In turned-up area

(7) In pile where alders are growing
gray clay w/ mottling