



Shelton City Council
Meeting Agenda
October 3, 2023 at 6:00 p.m.
Civic Center & Virtual Platform

A. Call to Order

- Pledge of Allegiance
- Roll Call
- Late Changes to the Agenda

B. Council Reports

C. Consent Agenda (Action)

1. Vouchers numbered 109074 through 109143 in the total amount of \$358,086.56
2. Vouchers numbered 109144 through 109185 in the total amount of \$100,107.63
3. Minutes:
 - Business Meeting of August 15, 2023
 - Study Session of August 22, 2023

D. Presentations

1. Proclamation – White Cane Awareness Day

E. Business Agenda (Study/No Action/Public Comment Taken)

1. Resolution No. 1291-0823 Sale of Surplus Real Estate - Presented Parks & Recreation Supervisor Jordanne Krumpols

F. Action Agenda (Action/Public Comment Taken)

1. Resolution No. 1288-0823 Electronic Funds Transfer Policy - Presented by Finance Director Mike Githens
2. Resolution No. 1292-0923 Final Acceptance-Western Gateway Project – Presented by Capital Projects Manager Aaron Nix
3. Resolution No. 1293-0923 C Street Landfill Clean-Up Project Close-Out – Presented by Capital Projects Manager Aaron Nix

G. Administration Reports

1. City Manager Report

H. General Public Comment (3-minute time limit)

*The City Council invites members of the public to provide comment on any topic at this time. To make comments in person, please sign in on the public comment sheet and keep an instruction card. If you would like to comment on a Business or Action item, please list the agenda item number on the list. To comment virtually using Zoom, please use the "Raise Hand" feature to alert the City Clerk. If you have joined Zoom on your telephone, dial *9 to use the "Raise Hand" feature. City Councilmembers and City Staff will not enter into a dialogue during public comment. If the Council feels an issue requires follow up, Staff will be directed to respond at an appropriate time.*

I. New Items for Discussion

J. Announcement of Next Meeting – October 17, 2023 at 6:00 p.m.

K. Adjourn

Special Note for Virtual Public Participation

The meeting can be viewed at: <https://www.youtube.com/user/cityofshelton>

The public can provide comments virtually by:

Email: donna.nault@sheltonwa.gov (before 5:00pm the day of the meeting)

Telephone: (360) 432-5103 (before 5:00pm the day of the meeting)

Join the Zoom meeting by clicking on the link posted on the City Council's webpage

Your comments will be relayed directly to the Council.



2023 Looking Ahead

(Items and dates are subject to change)

Tues. 10/10 6:00 p.m.	Study Session	Study Agenda <ul style="list-style-type: none"> • Comp. Plan Scoping 	Packet Items Due: 10/6 @ noon
Tues. 10/17 6:00 p.m.	Regular Meeting	Consent Agenda <ul style="list-style-type: none"> • Vouchers/Payroll Warrants/Meeting Minutes Presentation <ul style="list-style-type: none"> • Shop Shelton First LTAC Report • August Financial Status Report • Shelton Police Dept. Annual Report Business Agenda <ul style="list-style-type: none"> • Action Agenda <ul style="list-style-type: none"> • Resolution No. 1291-0823 Authorizing Sale of Surplus Real Estate • LTAC Tourism Grant Recommendations Administration Report <ul style="list-style-type: none"> • 	Packet Items Due: 10/6 @ 5:00 p.m.
Tues. 10/17 After regular meeting	Special Meeting	Executive Session <ul style="list-style-type: none"> • Real Estate Sale, Purchase, or Lease 	N/A
Tues. 10/24 6:00 p.m.	Study Session	Study Agenda <ul style="list-style-type: none"> • Traffic Impact Fees 	Packet Items Due: 10/20 @ noon
Tues. 11/7 5:45 p.m.	Special SMPD Meeting	Consent Agenda <ul style="list-style-type: none"> • Vouchers/Meeting Minutes Business Agenda <ul style="list-style-type: none"> • Public Hearing Resolution No. SMPD 38-0923 2024 Preliminary Budget • Public Hearing Resolution No. 39-0923 Ad Valorem Taxes Action Agenda <ul style="list-style-type: none"> • Administration Report	Packet Items Due: 10/27 @ 5:00 p.m.
Tues. 11/7 6:00 p.m.	Regular Meeting	Consent Agenda <ul style="list-style-type: none"> • Vouchers/Payroll Warrants/Meeting Minutes Presentation <ul style="list-style-type: none"> • Cruisin' Through Time Car Show– LTAC Report Business Agenda <ul style="list-style-type: none"> • Resolution No. 1294-0923 Master Fee Schedule Update 	Packet Items Due: 10/27 @ 5:00 p.m.

		<ul style="list-style-type: none"> Public Hearing Ordinance No. 2013-0923 2024 Preliminary Budget Public Hearing Ordinance No. 2014-0923 2024 Ad Valorem Taxes Action Agenda <ul style="list-style-type: none"> Administration Report 	
Tues. 11/14 6:00 p.m.	Study Session	Study Agenda	Packet Items Due: 11/9 @ noon
Tues. 11/21 5:45 p.m.	Special SMPD Meeting	Consent Agenda <ul style="list-style-type: none"> Vouchers/Meeting Minutes Business Agenda <ul style="list-style-type: none"> Action Agenda <ul style="list-style-type: none"> Resolution No. SMPD 38-0923 2024 Budget Resolution No. SMPD 39-0923 Ad Valorem Taxes Administration Report <ul style="list-style-type: none"> 	Packet Items Due: 11/9 @ 5:00 p.m.
Tues. 11/21 6:00 p.m.	Regular Meeting	Consent Agenda <ul style="list-style-type: none"> Vouchers/Payroll Warrants/Meeting Minutes Presentation <ul style="list-style-type: none"> September Financial Status Report Christmastown Marketing & Events - LTAC Report Outlook Park Mural Installation – LTAC Report Business Agenda <ul style="list-style-type: none"> Action Agenda <ul style="list-style-type: none"> Resolution No. 1294-0923 Master Fee Schedule Update Ordinance No. 2013-0923 2024 Budget Ordinance No. 2014-0923 2024 Ad Valorem Taxes Administration Report <ul style="list-style-type: none"> 	Packet Items Due: 11/9 @ 5:00 p.m.
Tues. 11/28 6:00 p.m.	Study Session	Study Agenda	Packet Items Due: 11/22 @ noon
Tues. 12/5 6:00 p.m.	Regular Meeting	Consent Agenda <ul style="list-style-type: none"> Vouchers/Payroll Warrants/Meeting Minutes Presentation <ul style="list-style-type: none"> Business Agenda <ul style="list-style-type: none"> Action Agenda <ul style="list-style-type: none"> Administration Report 	Packet Items Due: 11/22 @ 5:00 p.m.

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Tues. 12/12 6:00 p.m.	Study Session	Study Agenda	Packet Items Due: 12/8 @ noon
Tues. 12/19 5:45 p.m.	SMPD Meeting	Consent Agenda <ul style="list-style-type: none"> • Vouchers/Meeting Minutes Business Agenda <ul style="list-style-type: none"> • Action Agenda <ul style="list-style-type: none"> • Administration Report <ul style="list-style-type: none"> • 	Packet Items Due: 12/8 @ 5:00 p.m.
Tues. 12/19 6:00 p.m.	Regular Meeting	Consent Agenda <ul style="list-style-type: none"> • Vouchers/Payroll Warrants/Meeting Minutes Presentation <ul style="list-style-type: none"> • October Financial Status Report Business Agenda <ul style="list-style-type: none"> • Action Agenda <ul style="list-style-type: none"> • Administration Report	Packet Items Due: 12/8 @ 5:00 p.m.
Tues. 12/26 6:00 p.m.	Study Session	Study Agenda	Packet Items Due: 12/22 @ noon

Other – TBD

- Public Hearing Ordinance No. 1990-0522 Amending SMC 17.12
- Project and Funding Authorization for Wallace/Shelton Springs Intersection Improvements
- Property Maintenance Code

VOUCHER APPROVAL

I, the undersigned, do hereby certify under penalty of perjury that the materials have been furnished, the services rendered, or the labor performed as described herein vouchers number 109074 through number 109143 in the total amount of \$358,086.56 that the claims are just, due and unpaid obligations against the City of Shelton, and that I am authorized to authenticate and certify said claims. Signed this 15th of September, 2023.


Finance Director

We, the undersigned members of the City Council of Shelton, Washington, do hereby certify that the vouchers contained herein are approved for payment.

Signed this _____ of _____, 2023.

Mayor Eric Onisko

Deputy Mayor Joe Schmit

Councilmember James Boad

Councilmember Miguel Gutierrez

Councilmember Kathy McDowell

Councilmember Deidre Peterson

Councilmember Sharon Schirman



Shelton, WA

Check Register

Packet: APPKT02864 - SEPTEMBER 15, 2023 AP PAYMENTS

By Check Number

Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
Bank Code: APBNK-Main-APBNK-Main						
000401	A T & T	09/15/2023	Regular	0.00	55.55	109074
VEN02440	ANNALIESA B. HARKSEN	09/15/2023	Regular	0.00	150.00	109075
002982	APP	09/15/2023	Regular	0.00	6,460.07	109076
002520	ARAMARK	09/15/2023	Regular	0.00	136.65	109077
003185	AUTOMATED COMMUNICATIONS C	09/15/2023	Regular	0.00	783.36	109078
VEN02473	BEN D. ANDERSON	09/15/2023	Regular	0.00	250.00	109079
VEN01879	BRADLEY AIR COMPANY	09/15/2023	Regular	0.00	1,796.12	109080
098000	BUILDERS FIRSTSOURCE	09/15/2023	Regular	0.00	128.79	109081
005900	CAPITAL BUSINESS MACHINES	09/15/2023	Regular	0.00	1,136.05	109082
006400	CASCADE NATURAL GAS	09/15/2023	Regular	0.00	292.81	109083
108679	CENTRAL MASON FIRE AND EMS	09/15/2023	Regular	0.00	194,457.26	109084
VEN01214	CINTAS CORPORATION	09/15/2023	Regular	0.00	170.43	109085
007634	CITY OF FORKS	09/15/2023	Regular	0.00	423.92	109086
VEN01281	CITY OF SHELTON - UTILITY BILLS/PE	09/15/2023	Regular	0.00	8,425.66	109087
008450	COMMUNITY ACTION COUNCIL	09/15/2023	Regular	0.00	800.00	109088
VEN01244	COOPER STUDIOS	09/15/2023	Regular	0.00	346.42	109089
008733	CRIMINAL JUSTICE TRAINING COMM	09/15/2023	Regular	0.00	300.00	109090
VEN02319	DENALI WATER SOLUTIONS LLC	09/15/2023	Regular	0.00	10,194.49	109091
023078	FASTENAL COMPANY	09/15/2023	Regular	0.00	222.20	109092
VEN02460	FIRST CITIZENS BANK & TRUST CO	09/15/2023	Regular	0.00	917.19	109093
VEN02151	FORMA CONSTRUCTION	09/15/2023	Regular	0.00	750.00	109094
VEN01742	FRONTIER PRECISION, INC	09/15/2023	Regular	0.00	10,966.78	109095
VEN02467	KAR-GOR, INC	09/15/2023	Regular	0.00	6,071.53	109096
085995	LANGUAGE LINE SERVICES	09/15/2023	Regular	0.00	70.96	109097
087799	LEMAY MOBILE SHREDDING	09/15/2023	Regular	0.00	32.68	109098
194000	LEROY T. VALLEY	09/15/2023	Regular	0.00	614.17	109099
113004	MASON COUNTY - UTILITIES/WASTE	09/15/2023	Regular	0.00	376.06	109100
108850	MASON COUNTY GARBAGE CO.-A V	09/15/2023	Regular	0.00	4,096.27	109101
VEN01938	MASON COUNTY JAIL	09/15/2023	Regular	0.00	16,996.67	109102
113000	MASON COUNTY TREASURER	09/15/2023	Regular	0.00	42.55	109103
114350	MASON GENERAL HOSPITAL	09/15/2023	Regular	0.00	49.00	109104
VEN02049	MCKESSON MEDICAL-SURGICAL MA	09/15/2023	Regular	0.00	43.15	109105
VEN02472	MICAIAH J MULLINS	09/15/2023	Regular	0.00	295.00	109106
129030	MILES SAND & GRAVEL CO.	09/15/2023	Regular	0.00	81.38	109107
132235	MOUNTAIN MIST WATER	09/15/2023	Regular	0.00	83.95	109108
142952	NORTH CENTRAL LABORATORIES	09/15/2023	Regular	0.00	1,007.93	109109
VEN01558	NORTHWEST CUSTOM TEES	09/15/2023	Regular	0.00	673.79	109110
903752	O'REILLY AUTO PARTS	09/15/2023	Regular	0.00	84.24	109111
150076	OWEN EQUIPMENT COMPANY	09/15/2023	Regular	0.00	721.80	109112
151000	P. U. D. # 3	09/15/2023	Regular	0.00	37,160.68	109113
200897	PETEK & ASSOCIATES	09/15/2023	Regular	0.00	385.00	109114
114040	PETTYJOHN ENTERPRISES, LLC	09/15/2023	Regular	0.00	500.00	109115
903592	PIONEER FIRE & SECURITY	09/15/2023	Regular	0.00	611.46	109116
159300	POLYDYNE, INC.	09/15/2023	Regular	0.00	8,474.58	109117
164899	QWEST DBA CENTURYLINK	09/15/2023	Regular	0.00	954.77	109118
VEN02362	RADIA INC PS	09/15/2023	Regular	0.00	342.30	109119
VEN02275	RDAK LLC	09/15/2023	Regular	0.00	3.27	109120
903584	RIGHT SYSTEMS	09/15/2023	Regular	0.00	3,607.35	109121
187000	SHELTON-MASON COUNTY JOURNA	09/15/2023	Regular	0.00	1,116.00	109122
VEN02470	SIMPLY CONTROLS	09/15/2023	Regular	0.00	1,632.00	109123
VEN02471	STACIE STONEY	09/15/2023	Regular	0.00	57.49	109124
196300	STERICYCLE, INC.	09/15/2023	Regular	0.00	10.36	109125
196341	STEVEN R. BUZZARD	09/15/2023	Regular	0.00	75.00	109126
178252	TASCHNER LAW, PLLC	09/15/2023	Regular	0.00	9,083.00	109127

Check Register

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Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
VEN02446	TERRY WELSH	09/15/2023	Regular	0.00	91.66	109128
189670	THE SHOPPER	09/15/2023	Regular	0.00	430.18	109129
VEN01972	THOMAS A FURRER	09/15/2023	Regular	0.00	1,552.50	109130
200985	THURSTON CO PUBLIC HEALTH	09/15/2023	Regular	0.00	670.00	109131
201300	TOZIER BROS INC.	09/15/2023	Regular	0.00	369.93	109132
202195	U.S. BANK N.A.-CUSTODY	09/15/2023	Regular	0.00	88.00	109133
201957	ULINE	09/15/2023	Regular	0.00	48.96	109134
202340	UTILITIES UNDERGROUND LOCATIO	09/15/2023	Regular	0.00	144.48	109135
203035	WASHINGTON ST. TREASURER	09/15/2023	Regular	0.00	1,887.28	109136
203780	WATER MGMNT LABORATORIES INC	09/15/2023	Regular	0.00	390.00	109137
203900	WESMAR COMPANY, INC	09/15/2023	Regular	0.00	1,018.37	109138
053987	WESTBAY NAPA AUTO PARTS	09/15/2023	Regular	0.00	698.59	109139
VEN02205	WILCOX CONSTRUCTION	09/15/2023	Regular	0.00	428.25	109140
025951	WILLIAMS ARCHITECTURE	09/15/2023	Regular	0.00	1,625.00	109141
155563	YOUNGLOVE & COKER-PLLC	09/15/2023	Regular	0.00	14,102.50	109142
VEN02139	ZEPPELIN SHIPPING & TECHNOLOGY	09/15/2023	Regular	0.00	22.72	109143

Bank Code APBNK-Main Summary

Payment Type	Payable Count	Payment Count	Discount	Payment
Regular Checks	163	70	0.00	358,086.56
Manual Checks	0	0	0.00	0.00
Voided Checks	0	0	0.00	0.00
Bank Drafts	0	0	0.00	0.00
EFT's	0	0	0.00	0.00
Virtual Payments	0	0	0.00	0.00
	163	70	0.00	358,086.56

Virtual Payments	0	0	0.00	0.00
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Fund Summary

Fund	Name	Period	Amount
999	Pooled Cash	9/2023	358,086.56
			358,086.56



Shelton, WA

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000401	AT & T	09/15/2023	Regular	0.00	55.55	109074
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
03026599230015	Invoice	09/03/2023	0302659923001SEP23	0.00	55.55	
402-400-000-53580-4200	Communication		0302659923001SEP23		55.55	
VEN02440	ANNALIESA B. HARKSEN	09/15/2023	Regular	0.00	150.00	109075
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
JUDGEPROTEMA	Invoice	09/12/2023	JUDGEPROTEMAUG23	0.00	150.00	
001-112-000-51251-4101	Judge Pro-Tem		JUDGEPROTEMAUG23		150.00	
002982	APP	09/15/2023	Regular	0.00	6,460.07	109076
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
23-908129	Invoice	08/30/2023	ACCT#AP7500158 FUEL	0.00	3,205.15	
503-250-000-58900-0001	Inventory-Gas		ACCT#AP7500158 FUEL		3,205.15	
23-912785	Invoice	09/06/2023	ACCT#AP7500158 FUEL	0.00	3,254.92	
503-250-000-58900-0001	Inventory-Gas		ACCT#AP7500158 FUEL		3,254.92	
002520	ARAMARK	09/15/2023	Regular	0.00	136.65	109077
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
5120308720	Invoice	08/30/2023	ACCT#792105973 COVERALLS,MATS,TOW	0.00	65.71	
402-400-000-53580-4900	Miscellaneous		ACCT#792105973 COVERA		65.71	
5120312851	Invoice	09/06/2023	ACCT#792105972 COVERALLS,MATS,TOW	0.00	70.94	
401-000-000-53480-4901	Miscellaneous - Shop		ACCT#792105972 COVERA		70.94	
003185	AUTOMATED COMMUNICATIONS C	09/15/2023	Regular	0.00	783.36	109078
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
30183	Invoice	08/28/2023	1ST & 2ND QTR MNTRING - WWTP	0.00	261.12	
402-400-000-53580-4100	Professional Services/Adv		1ST & 2ND QTR MNTRING		261.12	
30184	Invoice	08/28/2023	1ST & 2ND QTR MNTRING - 10891 N HWY	0.00	261.12	
402-640-000-53580-4100	Professional Services/Adv		1ST & 2ND QTR MNTRING		261.12	
30185	Invoice	08/28/2023	1ST & 2ND QTR MONITORING - 200 FRON	0.00	261.12	
402-400-000-53580-4100	Professional Services/Adv		1ST & 2ND QTR MONITORI		261.12	
VEN02473	BEN D. ANDERSON	09/15/2023	Regular	0.00	250.00	109079
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
BLAKEREIMB202	Invoice	09/12/2023	BLAKEREIMB2023	0.00	250.00	
001-112-000-51251-4900	Miscellaneous		BLAKEREIMB2023		250.00	
VEN01879	BRADLEY AIR COMPANY	09/15/2023	Regular	0.00	1,796.12	109080
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
7372	Invoice	09/08/2023	EVIDENCE ROOM VENTILATION REPAIR	0.00	1,796.12	
001-142-000-51890-4815	Repairs and Maintenance		EVIDENCE ROOM VENTILA		1,796.12	
098000	BUILDERS FIRSTSOURCE	09/15/2023	Regular	0.00	128.79	109081

Check Register

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Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>87890821</u>	Invoice	08/30/2023	ACCT#671668 MANSFIELD 9"	BLUE ADJ	0.00	4.78
<u>001-140-000-55430-3100</u>		Office and Operating - Ani		ACCT#671668 MANSFIELD		4.78
<u>87945862</u>	Invoice	09/11/2023	ACCT#671668 QUICK SET CEMENT		0.00	20.66
<u>101-000-000-54230-3100</u>		Office and Operating		ACCT#671668 QUICK SET C		20.66
<u>87960792</u>	Invoice	09/13/2023	ACCT#671668 FLASHLIGHT		0.00	103.35
<u>401-000-000-53480-3100</u>		Office and Operating		ACCT#671668 FLASHLIGHT		103.35
005900	CAPITAL BUSINESS MACHINES	09/15/2023	Regular	0.00	1,136.05	109082
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>INV169831</u>	Invoice	09/07/2023	CONTRACT#CN3230-01		0.00	213.16
<u>001-111-000-51423-4500</u>		Operating Rentals		CONTRACT#CN3230-01		127.90
<u>001-130-000-51810-4500</u>		Operating Rentals		CONTRACT#CN3230-01		85.26
<u>INV169832</u>	Invoice	09/07/2023	CONTRACT#CN3370-01		0.00	642.34
<u>001-110-000-51160-4500</u>		Operating Rentals		CONTRACT#CN3370-01		158.66
<u>001-111-000-51421-4500</u>		Operating Rentals		CONTRACT#CN3370-01		6.04
<u>001-111-000-51423-4500</u>		Operating Rentals		CONTRACT#CN3370-01		22.48
<u>001-115-000-51896-4500</u>		Operating Rentals		CONTRACT#CN3370-01		214.86
<u>001-120-000-51310-4500</u>		Operating Rentals		CONTRACT#CN3370-01		7.26
<u>001-121-000-51430-4500</u>		Operating Rentals		CONTRACT#CN3370-01		1.80
<u>001-130-000-51810-4500</u>		Operating Rentals		CONTRACT#CN3370-01		0.58
<u>001-132-000-51888-4500</u>		Operating Rentals		CONTRACT#CN3370-01		25.69
<u>001-140-000-55860-4500</u>		Operating Rentals		CONTRACT#CN3370-01		165.40
<u>001-141-000-57680-4500</u>		Operating Rentals		CONTRACT#CN3370-01		17.86
<u>001-142-000-51830-4500</u>		Operating Rental		CONTRACT#CN3370-01		20.94
<u>001-143-000-57320-4500</u>		Operating Rentals		CONTRACT#CN3370-01		0.77
<u>INV169833</u>	Invoice	09/07/2023	CONTRACT#CN3227-01		0.00	38.08
<u>401-000-000-53480-4500</u>		Operating Rentals		CONTRACT#CN3227-01		38.08
<u>INV169834</u>	Invoice	09/07/2023	CONTRACT#CN3364-01		0.00	62.44
<u>401-000-000-53480-4500</u>		Operating Rentals		CONTRACT#CN3364-01		62.44
<u>INV169835</u>	Invoice	09/07/2023	CONTRACT#CN1866-01		0.00	64.96
<u>402-400-000-53580-4500</u>		Operating Rentals		CONTRACT#CN1866-01		64.96
<u>INV169862</u>	Invoice	09/07/2023	CONTRACT#CN1692-01		0.00	11.71
<u>001-112-000-51251-4500</u>		Operating Rentals		CONTRACT#CN1692-01		11.71
<u>INV169863</u>	Invoice	09/07/2023	CONTRACT#CN3142-01		0.00	27.20
<u>001-112-000-51251-4500</u>		Operating Rentals		CONTRACT#CN3142-01		27.20
<u>INV169864</u>	Invoice	09/07/2023	CONTRACT#CN3143-01		0.00	38.08
<u>001-112-000-51251-4500</u>		Operating Rentals		CONTRACT#CN3143-01		38.08
<u>INV169865</u>	Invoice	09/07/2023	CONTRACT#CN3144-01		0.00	38.08
<u>001-112-000-51251-4500</u>		Operating Rentals		CONTRACT#CN3144-01		38.08
006400	CASCADE NATURAL GAS	09/15/2023	Regular	0.00	292.81	109083
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>01912100003SEP</u>	Invoice	09/01/2023	01912100003SEP23		0.00	40.43
<u>001-140-000-55430-4700</u>		Utility Services-Animal Sh		01912100003SEP23		40.43
<u>07912100000SEP</u>	Invoice	09/01/2023	07912100000SEP23		0.00	39.09
<u>001-142-000-57250-4700</u>		Utility Services-Library		07912100000SEP23		39.09
<u>31538372017SEP</u>	Invoice	09/01/2023	31538372017SEP23		0.00	84.41
<u>402-400-000-53580-4700</u>		Utility Services-Sewer Ma		31538372017SEP23		84.41
<u>53617506497SEP</u>	Invoice	09/01/2023	53617506497SEP23		0.00	13.78
<u>401-000-000-53480-4701</u>		Utility Services - Shop		53617506497SEP23		13.78
<u>70912100008SEP</u>	Invoice	09/01/2023	70912100008SEP23		0.00	15.12
<u>401-000-000-53480-4701</u>		Utility Services - Shop		70912100008SEP23		15.12

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Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
80912100007SEP	Invoice	09/01/2023	80912100007SEP23	0.00	13.78	
401-000-000-53480-4701	Utility Services - Shop		80912100007SEP23		13.78	
88112100008SEP	Invoice	09/01/2023	88112100008SEP23	0.00	72.42	
001-142-000-51890-4715	Utility Services-Civic Ctr		88112100008SEP23		72.42	
90912100006SEP	Invoice	09/01/2023	90912100006SEP23	0.00	13.78	
401-000-000-53480-4701	Utility Services - Shop		90912100006SEP23		13.78	
108679	CENTRAL MASON FIRE AND EMS	09/15/2023	Regular	0.00	194,457.26	109084
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
1080	Invoice	08/22/2023	ACCT#85 AUGUST 2023 FIRE MARSHAL FE	0.00	5,530.50	
001-119-000-52230-4103	Prof Svcs Fire Prevention-		ACCT#85 AUGUST 2023 FI		5,530.50	
SEPTEMBER/202	Invoice	09/01/2023	SEPTEMBER 2023 FIRE SERVICES	0.00	188,926.76	
001-119-000-52220-4103	Prof FF Services-Fire Dist		SEPTEMBER 2023 FIRE SER		138,111.93	
001-119-000-52221-4103	Prof EMS Services-Fire Di		SEPTEMBER 2023 FIRE SER		46,037.31	
001-119-000-52260-4100	Professional Serv - CMFE		SEPTEMBER 2023 FIRE SER		4,777.52	
VEN01214	CINTAS CORPORATION	09/15/2023	Regular	0.00	170.43	109085
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
5174701320	Invoice	09/08/2023	CUST#10690213 FIRST AID CABINET	0.00	170.43	
001-118-000-52122-3100	Office and Operating		CUST#10690213 FIRST AID		170.43	
007634	CITY OF FORKS	09/15/2023	Regular	0.00	423.92	109086
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
2716	Invoice	09/06/2023	ACCT#00109 PRISONER BOARD BILL	0.00	423.92	
001-123-000-52360-4103	Professional Services/Adv		ACCT#00109 PRISONER BO		423.92	
VEN01281	CITY OF SHELTON - UTILITY BILLS/PE	09/15/2023	Regular	0.00	8,425.66	109087
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
AUGUST/2023IRR	Invoice	08/31/2023	AUGUST/2023IRRIGATION	0.00	8,425.66	
001-119-000-52250-4700	Utility Services		AUGUST/2023IRRIGATION		1.89	
001-141-000-57680-4700	Utility Services-Park		AUGUST/2023IRRIGATION		1,819.14	
001-141-000-57680-4700	Utility Services-Park		AUGUST/2023IRRIGATION		3,203.85	
001-141-000-57680-4700	Utility Services-Park		AUGUST/2023IRRIGATION		36.12	
001-141-000-57680-4700	Utility Services-Park		AUGUST/2023IRRIGATION		47.98	
001-141-000-57680-4700	Utility Services-Park		AUGUST/2023IRRIGATION		2,202.26	
001-141-000-57680-4700	Utility Services-Park		AUGUST/2023IRRIGATION		56.80	
001-142-000-51890-4715	Utility Services-Civic Ctr		AUGUST/2023IRRIGATION		907.37	
101-000-000-54270-4700	Utility Services-Roadside		AUGUST/2023IRRIGATION		150.25	
008450	COMMUNITY ACTION COUNCIL	09/15/2023	Regular	0.00	800.00	109088
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
230831	Invoice	09/05/2023	MARCH-AUGUST2023 FORENSIC INTERVI	0.00	800.00	
001-118-000-52122-4100	Patrol-Professional Serv		MARCH-AUGUST2023 FOR		800.00	
VEN01244	COOPER STUDIOS	09/15/2023	Regular	0.00	346.42	109089
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
760REISSUE	Invoice	06/06/2023	VOID & REISSUE APA002873	0.00	173.21	
001-118-000-52122-4100	Patrol-Professional Serv		VOID & REISSUE APA00287		173.21	
835	Invoice	08/31/2023	GROUP COMPOSITE - ADD PEEBLES	0.00	173.21	
001-118-000-52122-4100	Patrol-Professional Serv		GROUP COMPOSITE - ADD		173.21	
008733	CRIMINAL JUSTICE TRAINING COMM	09/15/2023	Regular	0.00	300.00	109090

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Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>201138497</u>	Invoice	09/06/2023	ACCT#22301-001 SAM ORTONA	0.00	300.00	
<u>001-118-000-52140-3100</u>		Office and Operating-Trai	ACCT#22301-001 SAM OR		300.00	
VEN02319	DENALI WATER SOLUTIONS LLC	09/15/2023	Regular	0.00	10,194.49	109091
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>INV583878</u>	Invoice	09/01/2023	CUST#599121378 TRANSPORTATION	0.00	10,194.49	
<u>402-400-000-53580-4100</u>		Professional Services/Adv	CUST#599121378 TRANSP		10,194.49	
023078	FASTENAL COMPANY	09/15/2023	Regular	0.00	222.20	109092
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>WATUM217074</u>	Invoice	09/06/2023	CUST#WATUM1147 MISC	0.00	21.07	
<u>401-000-000-53480-3100</u>		Office and Operating	CUST#WATUM1147 MISC		21.07	
<u>WATUM217098</u>	Invoice	09/06/2023	CUST#WATUM1962 MISC SUPPLIES	0.00	201.13	
<u>402-400-000-53580-3100</u>		Office and Operating	CUST#WATUM1962 MISC		201.13	
VEN02460	FIRST CITIZENS BANK & TRUST CO	09/15/2023	Regular	0.00	917.19	109093
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>43062306</u>	Invoice	08/25/2023	CONTRACT# 900-0337895-000 COPIER	0.00	401.48	
<u>001-118-000-52122-4500</u>		Operating Rentals	CONTRACT# 900-0337895-		401.48	
<u>43151466</u>	Invoice	09/11/2023	CUST#2000176406 COPIERS	0.00	515.71	
<u>001-112-000-51251-4500</u>		Operating Rentals	CUST#2000176406 COPIER		515.71	
VEN02151	FORMA CONSTRUCTION	09/15/2023	Regular	0.00	750.00	109094
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>DEPOSITREFUND</u>	Invoice	08/09/2023	DEPOSITREFUNDAUG23	0.00	750.00	
<u>401-000-000-362100000</u>		Equipment Rentals	DEPOSITREFUNDAUG23		750.00	
VEN01742	FRONTIER PRECISION, INC	09/15/2023	Regular	0.00	10,966.78	109095
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>282417</u>	Invoice	09/08/2023	ACCT#G060360 GIS PRECISION FIELD EQU	0.00	10,966.78	
<u>401-000-000-53480-3500</u>		Small Tools/Equipment	ACCT#G060360 GIS PRECIS		432.94	
<u>401-000-000-53480-3500</u>		Small Tools/Equipment	ACCT#G060360 GIS PRECIS		2,141.44	
<u>401-000-000-53480-4100</u>		Professional Services/Adv	ACCT#G060360 GIS PRECIS		167.33	
<u>402-300-000-53580-3500</u>		Small Tools/Equipment	ACCT#G060360 GIS PRECIS		432.94	
<u>402-300-000-53580-3500</u>		Small Tools/Equipment	ACCT#G060360 GIS PRECIS		2,141.44	
<u>402-300-000-53580-4100</u>		Professional Services/Adv	ACCT#G060360 GIS PRECIS		167.33	
<u>404-000-000-53180-3500</u>		Small Tools/Equipment	ACCT#G060360 GIS PRECIS		432.93	
<u>404-000-000-53180-3500</u>		Small Tools/Equipment	ACCT#G060360 GIS PRECIS		2,141.43	
<u>404-000-000-53180-4105</u>		Professional Services/Adv	ACCT#G060360 GIS PRECIS		167.32	
<u>503-000-000-54865-3500</u>		Small Tools/Equipment	ACCT#G060360 GIS PRECIS		432.93	
<u>503-000-000-54865-3500</u>		Small Tools/Equipment	ACCT#G060360 GIS PRECIS		2,141.43	
<u>503-000-000-54865-4101</u>		Professional Services/Adv	ACCT#G060360 GIS PRECIS		167.32	
VEN02467	KAR-GOR, INC	09/15/2023	Regular	0.00	6,071.53	109096
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>K1082327</u>	Invoice	08/25/2023	TRAFFIC SIGNAL CAMERAS	0.00	6,071.53	
<u>101-000-000-54264-4800</u>		Repairs and Maint-Signals	TRAFFIC SIGNAL CAMERAS		6,071.53	
085995	LANGUAGE LINE SERVICES	09/15/2023	Regular	0.00	70.96	109097

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Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>11091644</u>	Invoice	08/31/2023	ACCT#9020943082 INTERPRETATION	0.00	70.96	
<u>001-118-000-52122-4100</u>		Patrol-Professional Serv		ACCT#9020943082 INTERP	70.96	
087799	LEMAY MOBILE SHREDDING	09/15/2023	Regular	0.00	32.68	109098
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>48088625185</u>	Invoice	09/01/2023	ACCT#2185-952778-1166	0.00	31.68	
<u>001-112-000-51251-4109</u>		Other Professional Serv		ACCT#2185-952778-1166	31.68	
<u>48099375185</u>	Invoice	09/01/2023	ACCT#2185-952778-1442	0.00	1.00	
<u>001-130-000-51810-4100</u>		Professional Services/Adv		ACCT#2185-952778-1442	1.00	
194000	LEROY T. VALLEY	09/15/2023	Regular	0.00	614.17	109099
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>96931</u>	Invoice	09/05/2023	19991D MAINTENANCE	0.00	614.17	
<u>503-000-000-54865-3104</u>		Oper Supp-Parts-EM&R V		19991D MAINTENANCE	614.17	
113004	MASON COUNTY - UTILITIES/WASTE	09/15/2023	Regular	0.00	376.06	109100
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>006507</u>	Invoice	08/31/2023	CUST#SW-C021 LANDFILL CHARGES	0.00	325.01	
<u>001-142-000-51890-3115</u>		Office and Operating-Civi		CUST#SW-C021 LANDFILL	325.01	
<u>006508</u>	Invoice	08/31/2023	CUST#SW-C035 LANDFILL CHARGE	0.00	51.05	
<u>101-000-000-54230-3100</u>		Office and Operating		CUST#SW-C035 LANDFILL	51.05	
108850	MASON COUNTY GARBAGE CO.-A W	09/15/2023	Regular	0.00	4,096.27	109101
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>77509155149</u>	Invoice	09/01/2023	ACCT#2149-30135	0.00	309.96	
<u>001-142-000-51890-4715</u>		Utility Services-Civic Ctr		ACCT#2149-30135	309.96	
<u>77509925149</u>	Invoice	09/01/2023	ACCT#2149-30714	0.00	128.38	
<u>001-142-000-57250-4700</u>		Utility Services-Library		ACCT#2149-30714	128.38	
<u>77510965149</u>	Invoice	09/01/2023	ACCT#2149-56141	0.00	39.90	
<u>001-142-000-51890-4715</u>		Utility Services-Civic Ctr		ACCT#2149-56141	39.90	
<u>77519965149</u>	Invoice	09/01/2023	ACCT#2149-204368	0.00	34.72	
<u>402-400-000-53580-4700</u>		Utility Services-Sewer Ma		ACCT#2149-204368	34.72	
<u>77520145149</u>	Invoice	09/01/2023	ACCT#2149-204402	0.00	160.84	
<u>402-640-000-53580-4700</u>		Utility Services-Sewer Sat		ACCT#2149-204402	160.84	
<u>77522035149</u>	Invoice	09/01/2023	ACCT#2149-204783	0.00	208.18	
<u>001-119-000-52250-4700</u>		Utility Services		ACCT#2149-204783	208.18	
<u>77525145149</u>	Invoice	09/01/2023	ACCT#2149-205337	0.00	978.82	
<u>402-400-000-53580-4700</u>		Utility Services-Sewer Ma		ACCT#2149-205337	978.82	
<u>77526645149</u>	Invoice	09/01/2023	ACCT#2149-205584	0.00	34.72	
<u>402-400-000-53580-4700</u>		Utility Services-Sewer Ma		ACCT#2149-205584	34.72	
<u>77532245149</u>	Invoice	09/01/2023	ACCT#2149-206560	0.00	52.05	
<u>001-142-000-57530-4700</u>		Utility Services-Museum		ACCT#2149-206560	52.05	
<u>77533475149</u>	Invoice	09/01/2023	ACCT#2149-206771	0.00	643.35	
<u>001-142-000-51890-4715</u>		Utility Services-Civic Ctr		ACCT#2149-206771	643.35	
<u>77535695149</u>	Invoice	09/01/2023	ACCT#2149-207155	0.00	321.68	
<u>001-142-000-57250-4700</u>		Utility Services-Library		ACCT#2149-207155	321.68	
<u>77536885149</u>	Invoice	09/01/2023	ACCT#2149-207351	0.00	52.05	
<u>001-140-000-55430-4700</u>		Utility Services-Animal Sh		ACCT#2149-207351	52.05	
<u>77537565149</u>	Invoice	09/01/2023	ACCT#2149-207565	0.00	988.56	
<u>001-141-000-57680-4700</u>		Utility Services-Park		ACCT#2149-207565	296.57	

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<u>101-000-000-54230-4700</u>		Road & Street Maint - Util	ACCT#2149-207565		138.40	
<u>401-000-000-53480-4700</u>		Utility Services-Water	ACCT#2149-207565		138.40	
<u>402-300-000-53580-4700</u>		Utility Services-Sewer Ma	ACCT#2149-207565		138.40	
<u>404-000-000-53180-4700</u>		Utility Services	ACCT#2149-207565		138.40	
<u>503-000-000-54865-4700</u>		Equip Maint & Rental - U	ACCT#2149-207565		138.39	
<u>77537575149</u>	Invoice	09/01/2023	ACCT#2149-207568	0.00	90.54	
<u>001-141-000-57680-4700</u>		Utility Services-Park	ACCT#2149-207568		15.08	
<u>101-000-000-54230-4700</u>		Road & Street Maint - Util	ACCT#2149-207568		15.09	
<u>401-000-000-53480-4700</u>		Utility Services-Water	ACCT#2149-207568		15.09	
<u>402-300-000-53580-4700</u>		Utility Services-Sewer Ma	ACCT#2149-207568		15.09	
<u>404-000-000-53180-4700</u>		Utility Services	ACCT#2149-207568		15.08	
<u>503-000-000-54865-4700</u>		Equip Maint & Rental - U	ACCT#2149-207568		15.11	
<u>77538265149</u>	Invoice	09/01/2023	ACCT#2149-209143	0.00	52.52	
<u>402-400-000-53580-4700</u>		Utility Services-Sewer Ma	ACCT#2149-209143		52.52	
VEN01938	MASON COUNTY JAIL	09/15/2023	Regular	0.00	16,996.67	109102
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>QTR2/2023</u>	Invoice	09/14/2023	QTR2/2023 BOOKING FEES	0.00	16,996.67	
<u>001-123-000-52360-4103</u>		Professional Services/Adv		QTR2/2023 BOOKING FEES	16,996.67	
113000	MASON COUNTY TREASURER	09/15/2023	Regular	0.00	42.55	109103
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>AUGUST/2023</u>	Invoice	09/08/2023	AUGUST 2023 CVC	0.00	42.55	
<u>657-000-000-58600-0005</u>		CVC Fines & Forfeits		AUGUST 2023 CVC	42.55	
114350	MASON GENERAL HOSPITAL	09/15/2023	Regular	0.00	49.00	109104
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>4002608692</u>	Invoice	08/31/2023	LABORATORY	0.00	49.00	
<u>001-123-000-52360-4100</u>		Prof Services-Prisoner Me		LABORATORY	49.00	
VEN02049	MCKESSON MEDICAL-SURGICAL MN	09/15/2023	Regular	0.00	43.15	109105
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>REFUND</u>	Invoice	09/16/2020	REFUND B&O-ACCT #0053950	0.00	43.15	
<u>001-000-000-316100000</u>		B & O Tax		REFUND B&O-ACCT #0053	43.15	
VEN02472	MICAIAH J MULLINS	09/15/2023	Regular	0.00	295.00	109106
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>REIMBURSEMENT</u>	Invoice	09/14/2023	REIMBURSEMENTSEP23	0.00	295.00	
<u>001-118-000-52122-4100</u>		Patrol-Professional Servic		REIMBURSEMENTSEP23	295.00	
129030	MILES SAND & GRAVEL CO.	09/15/2023	Regular	0.00	81.38	109107
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>10003207</u>	Invoice	06/28/2023	CUST#050775 ECO BLK	0.00	81.38	
<u>401-000-000-53480-3100</u>		Office and Operating		CUST#050775 ECO BLK	81.38	
132235	MOUNTAIN MIST WATER	09/15/2023	Regular	0.00	83.95	109108
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>005479591</u>	Invoice	07/07/2023	ACCT#088436 MUNI COURT	0.00	17.56	
<u>001-112-000-51251-3100</u>		Office and Operating		ACCT#088436 MUNI COUR	13.21	
<u>001-112-000-51251-4500</u>		Operating Rentals		ACCT#088436 MUNI COUR	4.35	
<u>005581520</u>	Invoice	09/06/2023	ACCT#088436 POLICE	0.00	42.58	
<u>001-118-000-52122-3100</u>		Office and Operating		ACCT#088436 POLICE	38.23	

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Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
001-118-000-52122-4500		Operating Rentals	ACCT#088436 POLICE		4.35	
005581522	Invoice	09/06/2023	ACCT#088436 MUNI COURT	0.00	23.81	
001-112-000-51251-3100		Office and Operating	ACCT#088436 MUNI COUR		19.46	
001-112-000-51251-4500		Operating Rentals	ACCT#088436 MUNI COUR		4.35	
142952	NORTH CENTRAL LABORATORIES	09/15/2023	Regular	0.00	1,007.93	109109
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
492098	Invoice	08/29/2023	ACCT#42215 MISC SUPPLIES	0.00	157.43	
402-400-000-53580-3100		Office and Operating		ACCT#42215 MISC SUPPLI	157.43	
492177	Invoice	08/30/2023	ACCT#42215 MISC SUPPLIES	0.00	504.73	
402-400-000-53580-3100		Office and Operating		ACCT#42215 MISC SUPPLI	504.73	
492293	Invoice	09/01/2023	ACCT#42215 GLASS FILTER FUNNEL	0.00	345.77	
402-400-000-53580-3100		Office and Operating		ACCT#42215 GLASS FILTER	345.77	
VEN01558	NORTHWEST CUSTOM TEES	09/15/2023	Regular	0.00	673.79	109110
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
1629	Invoice	09/08/2023	CHEER CAMP T SHIRTS	0.00	673.79	
001-141-000-57120-3100		Office and Operating		CHEER CAMP T SHIRTS	673.79	
903752	O'REILLY AUTO PARTS	09/15/2023	Regular	0.00	84.24	109111
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
3718-466472	Invoice	09/03/2023	VENTVISOR - 2014 FORD EXPLORER	0.00	72.89	
001-118-000-52122-3110		Office & Operating-Auto		VENTVISOR - 2014 FORD E	72.89	
3718-468605	Invoice	09/10/2023	CUST#630201 VNT-94293	0.00	11.35	
001-118-000-52122-3110		Office & Operating-Auto		CUST#630201 VNT-94293	11.35	
150076	OWEN EQUIPMENT COMPANY	09/15/2023	Regular	0.00	721.80	109112
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
00213775	Invoice	09/05/2023	ACCT#35941 KIT- SB PIVOT	0.00	721.80	
503-000-000-54865-3104		Oper Supp-Parts-EM&R V		ACCT#35941 KIT- SB PIVOT	721.80	
151000	P. U. D. # 3	09/15/2023	Regular	0.00	37,160.68	109113
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
101001SEP23	Invoice	09/06/2023	101001SEP23	0.00	89.97	
101-000-000-54264-4700		Utility Services		101001SEP23	89.97	
18515001SEP23	Invoice	09/06/2023	18515001SEP23	0.00	79.72	
402-300-000-53580-4700		Utility Services-Sewer Ma		18515001SEP23	79.72	
250321001SEP23	Invoice	09/06/2023	250321001SEP23	0.00	85.20	
101-000-000-54270-4700		Utility Services-Roadside		250321001SEP23	85.20	
25911002SEP23	Invoice	09/06/2023	25911002SEP23	0.00	98.05	
101-000-000-54264-4700		Utility Services		25911002SEP23	98.05	
25911003SEP23	Invoice	09/06/2023	25911003SEP23	0.00	73.73	
001-141-000-57680-4700		Utility Services-Park		25911003SEP23	73.73	
259409001SEP23	Invoice	09/06/2023	259409001SEP23	0.00	14,293.15	
402-400-000-53580-4700		Utility Services-Sewer Ma		259409001SEP23	14,293.15	
26551001SEP23	Invoice	09/06/2023	26551001SEP23	0.00	1,368.92	
402-400-000-53580-4700		Utility Services-Sewer Ma		26551001SEP23	1,368.92	
26717001SEP23	Invoice	09/06/2023	26717001SEP23	0.00	157.88	
401-000-000-53480-4701		Utility Services - Shop		26717001SEP23	157.88	
26729001SEP23	Invoice	09/06/2023	26729001SEP23	0.00	376.36	
401-000-000-53480-4700		Utility Services-Water		26729001SEP23	376.36	

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<u>26857001SEP23</u>	Invoice	09/06/2023	26857001SEP23	0.00	28.68	
<u>101-000-000-54265-4700</u>	Utility Services		26857001SEP23		28.68	
<u>27639001SEP23</u>	Invoice	09/06/2023	27639001SEP23	0.00	456.52	
<u>001-142-000-57530-4700</u>	Utility Services-Museum		27639001SEP23		456.52	
<u>277201001SEP23</u>	Invoice	09/07/2023	277201001SEP23	0.00	120.77	
<u>401-000-000-53480-4700</u>	Utility Services-Water		277201001SEP23		120.77	
<u>27837001SEP23</u>	Invoice	09/06/2023	27837001SEP23	0.00	1,869.27	
<u>101-000-000-54263-4700</u>	Utility Services		27837001SEP23		1,869.27	
<u>27839002SEP23</u>	Invoice	09/06/2023	27839002SEP23	0.00	10,069.29	
<u>101-000-000-54263-4700</u>	Utility Services		27839002SEP23		10,069.29	
<u>28249001SEP23</u>	Invoice	09/07/2023	28249001SEP23	0.00	3,413.02	
<u>001-142-000-51890-4715</u>	Utility Services-Civic Ctr		28249001SEP23		3,413.02	
<u>30003001SEP23</u>	Invoice	09/06/2023	30003001SEP23	0.00	110.01	
<u>001-141-000-57680-4700</u>	Utility Services-Park		30003001SEP23		110.01	
<u>30003002SEP23</u>	Invoice	09/06/2023	30003002SEP23	0.00	620.16	
<u>402-400-000-53580-4700</u>	Utility Services-Sewer Ma		30003002SEP23		620.16	
<u>32453001SEP23</u>	Invoice	09/06/2023	32453001SEP23	0.00	97.09	
<u>001-141-000-57680-4700</u>	Utility Services-Park		32453001SEP23		97.09	
<u>35199001SEP23</u>	Invoice	09/06/2023	35199001SEP23	0.00	236.75	
<u>001-140-000-55430-4700</u>	Utility Services-Animal Sh		35199001SEP23		236.75	
<u>35201001SEP23</u>	Invoice	09/06/2023	35201001SEP23	0.00	2,023.15	
<u>401-000-000-53480-4700</u>	Utility Services-Water		35201001SEP23		2,023.15	
<u>35337001SEP23</u>	Invoice	09/06/2023	35337001SEP23	0.00	86.95	
<u>101-000-000-54264-4700</u>	Utility Services		35337001SEP23		86.95	
<u>35665001SEP23</u>	Invoice	09/06/2023	35665001SEP23	0.00	929.36	
<u>001-142-000-57250-4700</u>	Utility Services-Library		35665001SEP23		929.36	
<u>45451001SEP23</u>	Invoice	09/06/2023	45451001SEP23	0.00	177.48	
<u>401-000-000-53480-4700</u>	Utility Services-Water		45451001SEP23		177.48	
<u>46051001SEP23</u>	Invoice	09/06/2023	46051001SEP23	0.00	139.29	
<u>401-000-000-53480-4700</u>	Utility Services-Water		46051001SEP23		139.29	
<u>47009001SEP23</u>	Invoice	09/06/2023	47009001SEP23	0.00	72.27	
<u>402-300-000-53580-4700</u>	Utility Services-Sewer Ma		47009001SEP23		72.27	
<u>8511001SEP23</u>	Invoice	09/07/2023	8511001SEP23	0.00	87.64	
<u>401-000-000-53480-4700</u>	Utility Services-Water		8511001SEP23		87.64	
200897	PETEK & ASSOCIATES	09/15/2023	Regular	0.00	385.00	109114
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
<u>2003</u>	Invoice	09/07/2023	PRE EMPLOYMENT PSYCH EVAL	0.00	385.00	
<u>001-118-000-52122-4100</u>	Patrol-Professional Servic		PRE EMPLOYMENT PSYCH		385.00	
114040	PETTYJOHN ENTERPRISES, LLC	09/15/2023	Regular	0.00	500.00	109115
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
<u>3304</u>	Invoice	09/01/2023	LOGS	0.00	500.00	
<u>001-141-000-57680-4100</u>	Professional Services/Adv		LOGS		500.00	
903592	PIONEER FIRE & SECURITY	09/15/2023	Regular	0.00	611.46	109116
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
<u>43684-S</u>	Invoice	09/06/2023	REGULAR SERVICES	0.00	611.46	
<u>401-000-000-53480-4800</u>	Repairs and Maintenance		REGULAR SERVICES		611.46	
159300	POLYDYNE, INC.	09/15/2023	Regular	0.00	8,474.58	109117

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Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>1767374</u>	Invoice	08/29/2023	CUST#100860 CLARIFLOC	0.00	8,474.58	
<u>402-400-000-53580-3100</u>		Office and Operating		CUST#100860 CLARIFLOC	8,474.58	
164899	QWEST DBA CENTURYLINK	09/15/2023	Regular	0.00	954.77	109118
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>360Z260219722B</u>	Invoice	08/26/2023	360Z260219722BAUG23	0.00	954.77	
<u>401-000-000-53480-4201</u>		Communication - Shop		360Z260219722BAUG23	141.75	
<u>402-300-000-53580-4200</u>		Communication		360Z260219722BAUG23	56.84	
<u>402-400-000-53580-4200</u>		Communication		360Z260219722BAUG23	336.30	
<u>402-400-000-53580-4200</u>		Communication		360Z260219722BAUG23	192.23	
<u>402-640-000-53580-4200</u>		Communication		360Z260219722BAUG23	227.65	
VEN02362	RADIA INC PS	09/15/2023	Regular	0.00	342.30	109119
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>ZB3B9TUAUG23</u>	Invoice	08/20/2023	ZB3B9TUAUG23	0.00	220.05	
<u>001-123-000-52360-4100</u>		Prof Services-Prisoner Me		ZB3B9TUAUG23	220.05	
<u>ZB3B9V0AUG23</u>	Invoice	08/20/2023	ZB3B9V0AUG23	0.00	122.25	
<u>001-123-000-52360-4100</u>		Prof Services-Prisoner Me		ZB3B9V0AUG23	122.25	
VEN02275	RDAK LLC	09/15/2023	Regular	0.00	3.27	109120
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>70145473</u>	Invoice	09/05/2023	BATTERY 62976D	0.00	160.97	
<u>503-000-000-54865-3102</u>		Oper Supplies-Parts		BATTERY 62976D	160.97	
<u>70145474</u>	Credit Memo	09/05/2023	ACCT#3403 BATTERY 19955D	0.00	-157.70	
<u>503-000-000-54865-3102</u>		Oper Supplies-Parts		ACCT#3403 BATTERY 1995	-157.70	
903584	RIGHT SYSTEMS	09/15/2023	Regular	0.00	3,607.35	109121
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>SI-182095</u>	Invoice	07/11/2023	CUST#COS006 MSFT MONTHLY FEE	0.00	3,607.35	
<u>001-132-000-51888-4100</u>		Data Processing-Prof Svcs		CUST#COS006 MSFT MON	3,607.35	
187000	SHELTON-MASON COUNTY JOURNA	09/15/2023	Regular	0.00	1,116.00	109122
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>120929</u>	Invoice	08/31/2023	COFFEE CREEK SUBDIVISION	0.00	527.00	
<u>001-140-000-55860-4100</u>		Professional Services/Adv		COFFEE CREEK SUBDIVISIO	527.00	
<u>120930</u>	Invoice	08/31/2023	WELL1REHAB	0.00	589.00	
<u>411-000-000-59434-4101</u>		Water Capital Exp-Prof Sv	18-WELL1REHAB	WELL1REHAB	589.00	
VEN02470	SIMPLY CONTROLS	09/15/2023	Regular	0.00	1,632.00	109123
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>001914</u>	Invoice	09/06/2023	CUST#0001151 ACUATOR	0.00	1,632.00	
<u>402-400-000-53580-4800</u>		Repairs and Maintenance		CUST#0001151 ACUATOR	1,632.00	
VEN02471	STACIE STONEY	09/15/2023	Regular	0.00	57.49	109124
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>EQUIPREIMBSEP2</u>	Invoice	09/14/2023	EQUIPREIMBSEP23	0.00	57.49	
<u>001-141-000-57120-4100</u>		Professional Services/Adv		EQUIPREIMBSEP23	57.49	
196300	STERICYCLE, INC.	09/15/2023	Regular	0.00	10.36	109125

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Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
3006608195	Invoice	08/31/2023	CUST#6060343 SERVICES	0.00	10.36	
001-118-000-52122-4100		Patrol-Professional Servic		CUST#6060343 SERVICES	10.36	
196341	STEVEN R. BUZZARD	09/15/2023	Regular	0.00	75.00	109126
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
JUDGEPROTEM0	Invoice	09/13/2023	JUDGEPROTEM09132023	0.00	75.00	
001-112-000-51251-4101		Judge Pro-Tem		JUDGEPROTEM09132023	75.00	
178252	TASCHNER LAW, PLLC	09/15/2023	Regular	0.00	9,083.00	109127
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
SEPTEMBER/202	Invoice	09/01/2023	SEPTEMBER/2023	0.00	9,083.00	
001-122-000-51593-4100		Public Defense/Adult Mis		SEPTEMBER/2023	9,083.00	
VENO2446	TERRY WELSH	09/15/2023	Regular	0.00	91.66	109128
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
REIMBURSEMENT	Invoice	09/14/2023	REIMBURSEMENTSEP23	0.00	91.66	
001-140-000-55430-3100		Office and Operating - Ani		REIMBURSEMENTSEP23	91.66	
189670	THE SHOPPER	09/15/2023	Regular	0.00	430.18	109129
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
58381	Invoice	09/08/2023	WINDOWED ENVELOPES	0.00	410.65	
001-111-000-51421-3100		Office and Operating		WINDOWED ENVELOPES	205.33	
001-111-000-51423-3100		Office and Operating		WINDOWED ENVELOPES	205.32	
58425	Invoice	09/13/2023	MICHAEL GITHENS SIGNATURE STAMP	0.00	19.53	
001-111-000-51423-3100		Office and Operating		MICHAEL GITHENS SIGNAT	19.53	
VENO1972	THOMAS A FURRER	09/15/2023	Regular	0.00	1,552.50	109130
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
SEPTEMBER/202	Invoice	09/01/2023	SEPTEMBER/2023	0.00	1,552.50	
001-112-000-51251-4109		Other Professional Servic		SEPTEMBER/2023	1,552.50	
200985	THURSTON CO PUBLIC HEALTH	09/15/2023	Regular	0.00	670.00	109131
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
LABFEESAUG23	Invoice	09/07/2023	LABFEESAUG23	0.00	670.00	
401-000-000-53480-4100		Professional Services/Adv		LABFEESAUG23	670.00	
201300	TOZIER BROS INC.	09/15/2023	Regular	0.00	369.93	109132
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
464686	Invoice	07/15/2023	CUST#20090 OIL GAL WOODCUTTER	0.00	26.10	
101-000-000-54270-3100		Office and Operating		CUST#20090 OIL GAL WO	26.10	
464710	Invoice	07/17/2023	CUST#20090 YELLOWJACKET FOAM	0.00	13.21	
001-141-000-57680-3100		Office and Operating		CUST#20090 YELLOWJACK	13.21	
464979	Invoice	07/28/2023	CUST#20090 NUTS & BOLTS, PAIL	0.00	3.73	
001-141-000-57680-3100		Office and Operating		CUST#20090 NUTS & BOLT	3.73	
465228	Invoice	08/08/2023	CUST#20090 TAPE, ROLLER	0.00	32.67	
001-119-000-52250-3100		Office and Operating		CUST#20090 TAPE, ROLLER	32.67	
465676	Invoice	09/01/2023	CUST#20090 DECK SPRAYER POLY	0.00	144.66	
001-141-000-57680-3100		Office and Operating		CUST#20090 DECK SPRAYE	144.66	
465694	Invoice	09/02/2023	CUST#20090 PAINT BRUSH	0.00	5.70	

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001-141-000-57680-3100		Office and Operating	CUST#20090 PAINT BRUSH		5.70	
465781	Invoice	09/07/2023	CUST#20090 PROPANE TANK	0.00	36.98	
401-000-000-53480-3100		Office and Operating	CUST#20090 PROPANE TA		36.98	
465782	Invoice	09/07/2023	CUST#20090 HOSE HANGER	0.00	9.56	
401-000-000-53480-3100		Office and Operating	CUST#20090 HOSE HANGE		9.56	
465857	Invoice	09/12/2023	CUST#20090 MISC PARTS	0.00	97.32	
401-000-000-53480-3100		Office and Operating	CUST#20090 MISC PARTS		97.32	
202195	U.S. BANK N.A.-CUSTODY	09/15/2023	Regular	0.00	88.00	109133
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
CUSTODYCHARGE	Invoice	08/31/2023	CUSTODYCHARGESAUG23	0.00	88.00	
001-111-000-51423-4102		Prof Services-Banking Fee		CUSTODYCHARGESAUG23	88.00	
201957	ULINE	09/15/2023	Regular	0.00	48.96	109134
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
167505671	Invoice	08/22/2023	CUST#5672395 SANITARY NAPKIN RECEPT	0.00	48.96	
001-142-000-57250-3100		Office and Operating		CUST#5672395 SANITARY	48.96	
202340	UTILITIES UNDERGROUND LOCATIO	09/15/2023	Regular	0.00	144.48	109135
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
3080229	Invoice	08/31/2023	ACCT#100100 NOTIFICATIONS AUGUST20	0.00	144.48	
401-000-000-53480-4100		Professional Services/Adv		ACCT#100100 NOTIFICATI	48.16	
402-400-000-53580-4100		Professional Services/Adv		ACCT#100100 NOTIFICATI	48.16	
404-000-000-53180-4105		Professional Services/Adv		ACCT#100100 NOTIFICATI	48.16	
203035	WASHINGTON ST. TREASURER	09/15/2023	Regular	0.00	1,887.28	109136
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
AUGUST/2023	Invoice	09/12/2023	AUGUST 2023 STATE FINES	0.00	1,887.28	
657-000-000-58600-0006		State Fines & Forfeits		AUGUST 2023 STATE FINES	1,887.28	
203780	WATER MGMNT LABORATORIES INC	09/15/2023	Regular	0.00	390.00	109137
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
214506	Invoice	09/06/2023	ACCT#AS201R COPPER & LEAD TESTS	0.00	100.00	
401-000-000-53480-4100		Professional Services/Adv		ACCT#AS201R COPPER & L	100.00	
214525	Invoice	09/08/2023	ACCT#AS201R TESTS	0.00	290.00	
402-400-000-53580-4100		Professional Services/Adv		ACCT#AS201R TESTS	290.00	
203900	WESMAR COMPANY, INC	09/15/2023	Regular	0.00	1,018.37	109138
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
314280	Invoice	09/08/2023	CUST#31175 SODIUM HYPOCHLORITE	0.00	1,018.37	
401-000-000-53480-3104		Office and Operating-Chl		CUST#31175 SODIUM HYP	1,018.37	
053987	WESTBAY NAPA AUTO PARTS	09/15/2023	Regular	0.00	698.59	109139
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
050981	Credit Memo	09/05/2023	ACCT#4296 CORE DEPOSIT 62976D	0.00	-145.07	
503-000-000-54865-3102		Oper Supplies-Parts		ACCT#4296 CORE DEPOSIT	-145.07	
051146	Invoice	09/06/2023	ACCT#4296 BATTERY 19933D	0.00	160.99	
503-000-000-54865-3104		Oper Supp-Parts-EM&R V		ACCT#4296 BATTERY 1993	160.99	
051210	Credit Memo	09/06/2023	ACCT#4296 CORE DEPOSIT 19932D	0.00	-19.58	
503-000-000-54865-3104		Oper Supp-Parts-EM&R V		ACCT#4296 CORE DEPOSIT	-19.58	
051213	Invoice	09/06/2023	ACCT#4296 ENERGZR 2032-4	0.00	11.37	

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Packet: APPKT02864-SEPTEMBER 15, 2023 AP PAYMENTS

Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
<u>001-118-000-52122-3110</u>		Office & Operating-Auto	ACCT#4296 ENERGZR 2032		11.37	
<u>051214</u>	Invoice	09/06/2023	ACCT#4296 FUEL STATION UPGRADES	0.00	217.25	
<u>503-000-000-54865-3105</u>		Oper Supp-Parts-Shop Eq	ACCT#4296 FUEL STATION		217.25	
<u>051958</u>	Invoice	09/11/2023	ACCT#4296 BATTERY 19914D	0.00	160.13	
<u>503-000-000-54865-3104</u>		Oper Supp-Parts-EM&R V	ACCT#4296 BATTERY 1991		160.13	
<u>052004</u>	Invoice	09/12/2023	ACCT#4296 SPARK PLUG	0.00	126.04	
<u>503-000-000-54865-3101</u>		Vehicle Supplies	ACCT#4296 SPARK PLUG		75.62	
<u>503-000-000-54865-3103</u>		Vehicle Supp-EM&R Vehic	ACCT#4296 SPARK PLUG		50.42	
<u>052053</u>	Invoice	09/12/2023	ACCT#4296 BATTERY UNIT 07	0.00	155.71	
<u>001-118-000-52122-3110</u>		Office & Operating-Auto	ACCT#4296 BATTERY UNIT		155.71	
<u>052231</u>	Invoice	09/13/2023	ACCT#4296 UNIT 01 PARTS	0.00	31.75	
<u>001-118-000-52122-3110</u>		Office & Operating-Auto	ACCT#4296 UNIT 01 PARTS		31.75	
VEN02205	WILCOX CONSTRUCTION	09/15/2023	Regular	0.00	428.25	109140
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>REFUND</u>	Invoice	12/01/2020	REFUND HYDRANT METER, GATE VALVE &	0.00	428.25	
<u>401-000-000-362100000</u>		Equipment Rentals		REFUND HYDRANT METER,	428.25	
025951	WILLIAMS ARCHITECTURE	09/15/2023	Regular	0.00	1,625.00	109141
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>2023003-02</u>	Invoice	08/31/2023	CIVIC CENTER EXT REPAIRS	0.00	1,625.00	
<u>001-142-000-51890-4815</u>		Repairs and Maintenance		CIVIC CENTER EXT REPAIRS	1,625.00	
155563	YOUNGLOVE & COKER-PLLC	09/15/2023	Regular	0.00	14,102.50	109142
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>00169</u>	Invoice	08/25/2023	20501-001 AUGUST 2023	0.00	14,102.50	
<u>001-122-000-51545-4101</u>		Prof Serv - Prosecutor		20501-001 AUGUST 2023	14,102.50	
VEN02139	ZEPPELIN SHIPPING & TECHNOLOGY	09/15/2023	Regular	0.00	22.72	109143
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>PACKAGEID#1079</u>	Invoice	09/06/2023	WSP VANCOUVER - EVIDENCE	0.00	13.54	
<u>001-118-000-52122-4200</u>		Communication		WSP VANCOUVER - EVIDE	13.54	
<u>PACKAGEID#1083</u>	Invoice	09/12/2023	TACOMA CRIME LAB	0.00	9.18	
<u>001-118-000-52122-4200</u>		Communication		TACOMA CRIME LAB	9.18	

Bank Code APBNK-Main Summary

Payment Type	Payable Count	Payment Count	Discount	Payment
Regular Checks	163	70	0.00	358,086.56
Manual Checks	0	0	0.00	0.00
Voided Checks	0	0	0.00	0.00
Bank Drafts	0	0	0.00	0.00
EFT's	0	0	0.00	0.00
Virtual Payments	0	0	0.00	0.00
	163	70	0.00	358,086.56

Virtual Payments	0	0	0.00	0.00
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Fund Summary

Fund	Name	Period	Amount
999	Pooled Cash	9/2023	358,086.56
			<u>358,086.56</u>

VOUCHER APPROVAL

I, the undersigned, do hereby certify under penalty of perjury that the materials have been furnished, the services rendered, or the labor performed as described herein vouchers number 109144 through number 109185 in the total amount of \$100,107.63 that the claims are just, due and unpaid obligations against the City of Shelton, and that I am authorized to authenticate and certify said claims. Signed this 22nd of September, 2023.


Finance Director

We, the undersigned members of the City Council of Shelton, Washington, do hereby certify that the vouchers contained herein are approved for payment.

Signed this _____ of _____, 2023.

Mayor Eric Onisko

Deputy Mayor Joe Schmit

Councilmember James Boad

Councilmember Miguel Gutierrez

Councilmember Kathy McDowell

Councilmember Deidre Peterson

Councilmember Sharon Schirman



Shelton, WA

Check Register

Packet: APPKT02869 - SEPTEMBER 22, 2023 AP PAYMENTS

By Check Number

Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
Bank Code: APBNK-Main-APBNK-Main						
002520	ARAMARK	09/22/2023	Regular	0.00	136.65	109144
2901	ASPECT CONSULTING, LLC	09/22/2023	Regular	0.00	18,944.53	109145
VEN01879	BRADLEY AIR COMPANY	09/22/2023	Regular	0.00	12,564.51	109146
098000	BUILDERS FIRSTSOURCE	09/22/2023	Regular	0.00	278.49	109147
005900	CAPITAL BUSINESS MACHINES	09/22/2023	Regular	0.00	155.39	109148
VEN02063	CARL TANNE	09/22/2023	Regular	0.00	150.00	109149
VEN01281	CITY OF SHELTON - UTILITY BILLS/PE	09/22/2023	Regular	0.00	1,835.66	109150
008300	CODE PUBLISHING COMPANY	09/22/2023	Regular	0.00	293.22	109151
009351	DELAKE LANDEN FINANCIAL SVCS	09/22/2023	Regular	0.00	201.98	109152
009422	DELL MARKETING L.P.	09/22/2023	Regular	0.00	3,254.85	109153
015000	EDWARD HAEFLIGER	09/22/2023	Regular	0.00	337.00	109154
016000	EDWIN C. ROLLER	09/22/2023	Regular	0.00	1,386.00	109155
023078	FASTENAL COMPANY	09/22/2023	Regular	0.00	265.82	109156
080980	GILLIARDI LOGGING & CONSTRUCTI	09/22/2023	Regular	0.00	110.02	109157
045000	H.D. FOWLER COMPANY	09/22/2023	Regular	0.00	414.96	109158
VEN02474	HOME DEPOT USA, INC	09/22/2023	Regular	0.00	9,358.02	109159
064940	J & I POWER EQUIPMENT INC	09/22/2023	Regular	0.00	276.33	109160
VEN02475	JEFFREY HILL	09/22/2023	Regular	0.00	61.06	109161
036236	JERI TIDD	09/22/2023	Regular	0.00	83.51	109162
070000	JIM'S AUTO REPAIR & TOWING	09/22/2023	Regular	0.00	0.26	109163
079581	KCDA PURCHASING COOPERATIVE	09/22/2023	Regular	0.00	96.94	109164
081000	KENNETH J. DOBIE	09/22/2023	Regular	0.00	45.00	109165
082633	KRISTMAS TOWN KIWANIS	09/22/2023	Regular	0.00	9,000.00	109166
VEN01230	L.N. CURTIS & SONS	09/22/2023	Regular	0.00	2,023.68	109167
085075	LAKESIDE INDUSTRIES	09/22/2023	Regular	0.00	548.23	109168
112000	MASON COUNTY SHERIFF DEPT	09/22/2023	Regular	0.00	85.07	109169
VEN02397	MENDOZA ORTIZ, ANTELMA	09/22/2023	Regular	0.00	500.00	109170
129030	MILES SAND & GRAVEL CO.	09/22/2023	Regular	0.00	975.94	109171
132235	MOUNTAIN MIST WATER	09/22/2023	Regular	0.00	45.18	109172
142300	NISQUALLY INDIAN TRIBE	09/22/2023	Regular	0.00	3,640.00	109173
VEN02312	ODP BUSINESS SOLUTIONS LLC	09/22/2023	Regular	0.00	269.81	109174
149976	OTIS ELEVATOR COMPANY	09/22/2023	Regular	0.00	326.40	109175
151000	P. U. D. # 3	09/22/2023	Regular	0.00	144.00	109176
VEN02051	POINT EMBLEMS, LLC	09/22/2023	Regular	0.00	871.00	109177
168450	RH2 ENGINEERING INC	09/22/2023	Regular	0.00	968.01	109178
186242	SHELTON HIGH SCHOOL ASB	09/22/2023	Regular	0.00	2,745.45	109179
192800	SOUTHGATE FENCE, INC.	09/22/2023	Regular	0.00	18,155.46	109180
VEN02476	SUMMIT FENCE COMPANY LLC	09/22/2023	Regular	0.00	5,973.12	109181
201300	TOZIER BROS INC.	09/22/2023	Regular	0.00	199.38	109182
201875	TYLER TECHNOLOGIES	09/22/2023	Regular	0.00	3,120.00	109183
202900	WASH. ASSOC. OF SHERIFFS & POLI	09/22/2023	Regular	0.00	75.00	109184

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Packet: APPKT02869-SEPTEMBER 22, 2023 AP PAYMENTS

Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
053987	WESTBAY NAPA AUTO PARTS	09/22/2023	Regular	0.00	191.70	109185

Bank Code APBNK-Main Summary

Payment Type	Payable Count	Payment Count	Discount	Payment
Regular Checks	66	42	0.00	100,107.63
Manual Checks	0	0	0.00	0.00
Voided Checks	0	0	0.00	0.00
Bank Drafts	0	0	0.00	0.00
EFT's	0	0	0.00	0.00
Virtual Payments	0	0	0.00	0.00
	66	42	0.00	100,107.63

Virtual Payments	0	0	0.00	0.00
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Fund Summary

Fund	Name	Period	Amount
999	Pooled Cash	9/2023	100,107.63
			<u>100,107.63</u>



Shelton, WA

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Packet: APPKT02869 - SEPTEMBER 22, 2023 AP PAYMENTS

By Check Number

Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
Bank Code: APBNK-Main-APBNK-Main						
002520	ARAMARK	09/22/2023	Regular	0.00	136.65	109144
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
5120312853	Invoice	09/06/2023	ACCT#792105973 COVERALLS,MATS,TOW	0.00	65.71	
402-400-000-53580-4900		Miscellaneous		ACCT#792105973 COVERA	65.71	
5120317282	Invoice	09/13/2023	ACCT#792105972 COVERALLS,MATS,TOW	0.00	70.94	
401-000-000-53480-4901		Miscellaneous - Shop		ACCT#792105972 COVERA	70.94	
2901	ASPECT CONSULTING, LLC	09/22/2023	Regular	0.00	18,944.53	109145
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
53019	Invoice	09/11/2023	C ST LANDFILL CONST. PLANNING	0.00	18,944.53	
403-000-000-53780-4103		Prof Services - "C" Street	"C" St. Landfill	C ST LANDFILL CONST. PLA	18,944.53	
VEN01879	BRADLEY AIR COMPANY	09/22/2023	Regular	0.00	12,564.51	109146
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
7371	Invoice	09/08/2023	INSTALL NEW UNIT	0.00	12,564.51	
401-000-000-53480-4801		Repairs and Maintenance		INSTALL NEW UNIT	12,564.51	
098000	BUILDERS FIRSTSOURCE	09/22/2023	Regular	0.00	278.49	109147
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
87717711	Invoice	08/01/2023	ACCT#671668 SCREW ANCHOR	0.00	16.61	
402-400-000-53580-3100		Office and Operating		ACCT#671668 SCREW ANC	16.61	
87723997	Invoice	08/02/2023	ACCT#671668 KNIFE, PAIL, SPONGE	0.00	12.37	
001-142-000-51890-3115		Office and Operating-Civi		ACCT#671668 KNIFE, PAIL,	12.37	
87801042	Invoice	08/15/2023	ACCT#671668 FENCE BOARD	0.00	8.25	
101-000-000-54230-3100		Office and Operating		ACCT#671668 FENCE BOA	8.25	
87960113	Invoice	09/13/2023	ACCT#671668 LUMBER	0.00	27.23	
101-000-000-54230-3100		Office and Operating		ACCT#671668 LUMBER	27.23	
87966254	Invoice	09/14/2023	ACCT#671668 CAULK GUN, ADHESIVE	0.00	188.16	
402-400-000-53580-3100		Office and Operating		ACCT#671668 CAULK GUN	188.16	
87983795	Invoice	09/18/2023	ACCT#671668 SCREWS	0.00	25.87	
101-000-000-54264-3100		Office and Operating		ACCT#671668 SCREWS	25.87	
005900	CAPITAL BUSINESS MACHINES	09/22/2023	Regular	0.00	155.39	109148
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
INV169829	Invoice	09/07/2023	CONTRACT#CN2621-01	0.00	114.62	
001-118-000-52122-4500		Operating Rentals		CONTRACT#CN2621-01	114.62	
INV169830	Invoice	09/07/2023	CONTRACT#CN2736-01	0.00	40.77	
001-118-000-52122-4500		Operating Rentals		CONTRACT#CN2736-01	40.77	
VEN02063	CARL TANNE	09/22/2023	Regular	0.00	150.00	109149
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
0919-2023-SHELT	Invoice	09/19/2023	0919-2023-SHELTONMUNI	0.00	150.00	
001-112-000-51251-4106		Interpreter Expenses		0919-2023-SHELTONMUNI	150.00	
VEN01281	CITY OF SHELTON - UTILITY BILLS/PE	09/22/2023	Regular	0.00	1,835.66	109150

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Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
INV-00000775	Invoice	09/11/2023	CITY PARKING LOT WATER METER	0.00	1,835.66	
302-000-000-59565-6300		PARKING FACILITIES-Cons	19-CITYPRKLOT	CITY PARKING LOT WATER	1,835.66	
008300	CODE PUBLISHING COMPANY	09/22/2023	Regular	0.00	293.22	109151
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
GC0011966	Invoice	09/18/2023	CUST#SH4639 MUNI CODE UPDATE	0.00	293.22	
001-110-000-51160-4100		Professional Services/Adv		CUST#SH4639 MUNI CODE	293.22	
009351	DELAGÉ LANDEN FINANCIAL SVCS	09/22/2023	Regular	0.00	201.98	109152
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
80912983	Invoice	09/09/2023	CONTRACT#500-50411706	0.00	201.98	
001-118-000-59121-7001		Long Term Lease - Police		CONTRACT#500-50411706	201.98	
009422	DELL MARKETING L.P.	09/22/2023	Regular	0.00	3,254.85	109153
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
10698537563	Invoice	09/14/2023	CUST#8933147 WORKSTATION	0.00	1,994.45	
001-132-000-51888-3505		Inventoried-Small Tools/E		CUST#8933147 WORKSTAT	1,994.45	
10698566866	Invoice	09/14/2023	CUST#8933147 OPTIPLEX SMALL FORM F	0.00	1,260.40	
001-111-000-51421-3500		Small Tools/Equipment		CUST#8933147 OPTIPLEX S	1,134.36	
001-111-000-51423-3500		Small Tools/Equipment		CUST#8933147 OPTIPLEX S	126.04	
015000	EDWARD HAEFLIGER	09/22/2023	Regular	0.00	337.00	109154
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
DENTALREIMBSE	Invoice	09/19/2023	DENTALREIMBSEP23	0.00	337.00	
611-000-000-51725-2036		Dental Costs - Retired Fire		DENTALREIMBSEP23	337.00	
016000	EDWIN C. ROLLER	09/22/2023	Regular	0.00	1,386.00	109155
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
DENTALREIMBSE	Invoice	09/19/2023	DENTALREIMBSEP23	0.00	1,386.00	
611-000-000-51725-2036		Dental Costs - Retired Fire		DENTALREIMBSEP23	1,386.00	
023078	FASTENAL COMPANY	09/22/2023	Regular	0.00	265.82	109156
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
WATUM214775	Credit Memo	06/16/2023	CUST#WATUM1962 RETURN GLOVES	0.00	-65.73	
402-400-000-53580-3100		Office and Operating		CUST#WATUM1962 RETUR	-65.73	
WATUM217315	Invoice	09/13/2023	CUST#WATUM1962 MISC SUPPLIES	0.00	188.70	
402-400-000-53580-3100		Office and Operating		CUST#WATUM1962 MISC	188.70	
WATUM217440	Invoice	09/18/2023	CUST#WATUM1962 MARKING PAINT, PIN	0.00	142.85	
402-400-000-53580-3100		Office and Operating		CUST#WATUM1962 MARKI	142.85	
080980	GILLIARDI LOGGING & CONSTRUCTI	09/22/2023	Regular	0.00	110.02	109157
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
19064	Invoice	08/28/2023	WET FILL RETAIL	0.00	110.02	
404-000-000-53180-3100		Office and Operating		WET FILL RETAIL	110.02	
045000	H.D. FOWLER COMPANY	09/22/2023	Regular	0.00	414.96	109158
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
C591793	Credit Memo	09/08/2023	ACCT#194680 ANGLE BALL VALVE RETUR	0.00	-191.16	
401-000-000-53480-3100		Office and Operating		ACCT#194680 ANGLE BALL	-191.16	

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Packet: APPKT02869-SEPTEMBER 22, 2023 AP PAYMENTS

Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
<u>I6512240</u>	Invoice	09/12/2023	ACCT#194680 CLAMPS, ADAPTER	0.00	105.60	
<u>401-000-000-53480-3100</u>	Office and Operating		ACCT#194680 CLAMPS, AD		105.60	
<u>I6512929</u>	Invoice	09/13/2023	ACCT#194680 CLEANOUT RING AND COV	0.00	278.57	
<u>402-400-000-53580-3100</u>	Office and Operating		ACCT#194680 CLEANOUT		278.57	
<u>I6518237</u>	Invoice	09/19/2023	ACCT#194680 POLY PIPE	0.00	221.95	
<u>401-000-000-53480-3100</u>	Office and Operating		ACCT#194680 POLY PIPE		221.95	
VEN02474	HOME DEPOT USA, INC	09/22/2023	Regular	0.00	9,358.02	109159
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
<u>B&OREFUND202</u>	Invoice	09/15/2023	B&OREFUND2023	0.00	9,358.02	
<u>001-000-000-316100000</u>	B & O Tax		B&OREFUND2023		9,358.02	
064940	J & I POWER EQUIPMENT INC	09/22/2023	Regular	0.00	276.33	109160
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
<u>740973</u>	Invoice	09/20/2023	CUST#1177 PARTS	0.00	276.33	
<u>001-141-000-57680-3100</u>	Office and Operating		CUST#1177 PARTS		276.33	
VEN02475	JEFFREY HILL	09/22/2023	Regular	0.00	61.06	109161
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
<u>FREDMEYERREIM</u>	Invoice	09/20/2023	FREDMEYERREIMBSEP23	0.00	61.06	
<u>001-140-000-55430-3100</u>	Office and Operating - Ani		FREDMEYERREIMBSEP23		61.06	
036236	JERI TIDD	09/22/2023	Regular	0.00	83.51	109162
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
<u>REIMBURSEMENT</u>	Invoice	09/19/2023	REIMBURSEMENTSEP23	0.00	83.51	
<u>001-112-000-52360-3100</u>	Office and Operating		REIMBURSEMENTSEP23		43.51	
<u>001-112-000-52360-4900</u>	Miscellaneous		REIMBURSEMENTSEP23		40.00	
070000	JIM'S AUTO REPAIR & TOWING	09/22/2023	Regular	0.00	0.26	109163
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
<u>AUGBAL2023</u>	Invoice	09/20/2023	AUGBAL2023	0.00	0.26	
<u>001-118-000-52122-4100</u>	Patrol-Professional Servic		AUGBAL2023		0.26	
079581	KCDA PURCHASING COOPERATIVE	09/22/2023	Regular	0.00	96.94	109164
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
<u>300726058</u>	Invoice	07/27/2023	CUST#101367 WASTE BASKET	0.00	56.05	
<u>001-142-000-51890-3115</u>	Office and Operating-Civi		CUST#101367 WASTE BAS		56.05	
<u>300738456</u>	Invoice	09/08/2023	CUST#101367 CAN LINERS	0.00	40.89	
<u>101-000-000-54230-3100</u>	Office and Operating		CUST#101367 CAN LINERS		40.89	
081000	KENNETH J. DOBIE	09/22/2023	Regular	0.00	45.00	109165
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
<u>PRESCRIPTIONREI</u>	Invoice	08/18/2023	PRESCRIPTIONREIMBAUG23	0.00	45.00	
<u>502-000-000-51725-2034</u>	Non-Insured Med Costs-R		PRESCRIPTIONREIMBAUG2		45.00	
082633	KRISTMAS TOWN KIWANIS	09/22/2023	Regular	0.00	9,000.00	109166
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number	Account Name	Project Account Key	Item Description	Dist Amount		
<u>LTACGRANT/2023</u>	Invoice	09/20/2023	LTACGRANT/2023	0.00	9,000.00	
<u>108-000-000-57390-4102</u>	Prof Serv-KristmasTowne		LTACGRANT/2023		9,000.00	
VEN01230	L.N. CURTIS & SONS	09/22/2023	Regular	0.00	2,023.68	109167

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Packet: APPKT02869-SEPTEMBER 22, 2023 AP PAYMENTS

Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
INV737230	Invoice	08/17/2023	CUST#C5463 PANEL SET	0.00	1,011.84	
001-118-000-52122-3102		Uniforms-Vests/Grants		CUST#C5463 PANEL SET	1,011.84	
INV737410	Invoice	08/17/2023	CUST#C5463 PANEL SET	0.00	1,011.84	
001-118-000-52122-3102		Uniforms-Vests/Grants		CUST#C5463 PANEL SET	1,011.84	
085075	LAKESIDE INDUSTRIES	09/22/2023	Regular	0.00	548.23	109168
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
245597	Invoice	09/09/2023	CUST#101048 ASPHALT	0.00	548.23	
401-000-000-53480-3100		Office and Operating		CUST#101048 ASPHALT	548.23	
112000	MASON COUNTY SHERIFF DEPT	09/22/2023	Regular	0.00	85.07	109169
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
INMATEPRESCRIP	Invoice	09/08/2023	INMATEPRESCRIPTIONSAUG23	0.00	85.07	
001-123-000-52360-4100		Prof Services-Prisoner Me		INMATEPRESCRIPTIONSAU	85.07	
VEN02397	MENDOZA ORTIZ, ANTELMA	09/22/2023	Regular	0.00	500.00	109170
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
BAILREFUNDFEB2	Invoice	02/18/2023	BAILREFUNDFEB2023	0.00	500.00	
657-000-000-58600-0010		Municipal Court Trust		BAILREFUNDFEB2023	500.00	
129030	MILES SAND & GRAVEL CO.	09/22/2023	Regular	0.00	975.94	109171
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
10011780	Invoice	09/14/2023	CUST#050775	0.00	975.94	
402-400-000-53580-3100		Office and Operating		CUST#050775	975.94	
132235	MOUNTAIN MIST WATER	09/22/2023	Regular	0.00	45.18	109172
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
005599436	Invoice	09/18/2023	ACCT#088436 MUNI COURT	0.00	13.21	
001-112-000-51251-3100		Office and Operating		ACCT#088436 MUNI COUR	13.21	
005599438	Invoice	09/18/2023	ACCT#088436 POLICE	0.00	31.97	
001-118-000-52122-3100		Office and Operating		ACCT#088436 POLICE	31.97	
142300	NISQUALLY INDIAN TRIBE	09/22/2023	Regular	0.00	3,640.00	109173
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
36663	Invoice	08/31/2023	BOOKING FEES AUG 2023	0.00	3,640.00	
001-123-000-52360-4103		Professional Services/Adv		BOOKING FEES AUG 2023	3,640.00	
VEN02312	ODP BUSINESS SOLUTIONS LLC	09/22/2023	Regular	0.00	269.81	109174
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
328533714001	Invoice	08/29/2023	ACCT#28972108 CHAIR	0.00	269.81	
401-000-000-53480-3100		Office and Operating		ACCT#28972108 CHAIR	269.81	
149976	OTIS ELEVATOR COMPANY	09/22/2023	Regular	0.00	326.40	109175
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
F10000128453	Invoice	08/14/2023	CUST#396737 122 W FRANKLIN CONTRAC	0.00	108.80	
001-119-000-52250-4100		Professional Services/Adv		CUST#396737 122 W FRA	108.80	
F10000146345	Invoice	08/14/2023	CUST#396737 LIBRARY SERVICE CONTRAC	0.00	217.60	
001-142-000-57250-4100		Professional Services/Adv		CUST#396737 LIBRARY SER	217.60	
151000	P. U. D. # 3	09/22/2023	Regular	0.00	144.00	109176

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Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>25911005SEP23</u>	Invoice	09/11/2023	25911005SEP23		66.77	
<u>402-640-000-53580-4700</u>		Utility Services-Sewer Sat		25911005SEP23	66.77	
<u>277201002SEP23</u>	Invoice	09/11/2023	277201002SEP23		77.23	
<u>401-000-000-53480-4700</u>		Utility Services-Water		277201002SEP23	77.23	
VEN02051	POINT EMBLEMS, LLC	09/22/2023	Regular	0.00	871.00	109177
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>15356</u>	Invoice	09/17/2023	PATCHES		871.00	
<u>001-118-000-52122-3101</u>		Uniforms		PATCHES	871.00	
168450	RH2 ENGINEERING INC	09/22/2023	Regular	0.00	968.01	109178
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>92448</u>	Invoice	09/11/2023	SRTS CROSSWALK IMPROVEMENTS		968.01	
<u>302-000-000-59561-4101</u>		CAPITAL Streets/Sidewalk	22-SAFERTE2SCHOOL	SRTS CROSSWALK IMPROV	968.01	
186242	SHELTON HIGH SCHOOL ASB	09/22/2023	Regular	0.00	2,745.45	109179
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>FALLCHEER2023</u>	Invoice	09/13/2023	FALLCHEER2023		2,745.45	
<u>001-141-000-57120-4100</u>		Professional Services/Adv		FALLCHEER2023	2,745.45	
192800	SOUTHGATE FENCE, INC.	09/22/2023	Regular	0.00	18,155.46	109180
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>091423-3</u>	Invoice	09/14/2023	1518 NORTHCLIFFE RD CHAIN FENCE		18,155.46	
<u>302-000-000-59476-6300</u>		Parks Capital Projects - Co	21-NGLIFFPARK	1518 NORTHCLIFFE RD CH	18,155.46	
VEN02476	SUMMIT FENCE COMPANY LLC	09/22/2023	Regular	0.00	5,973.12	109181
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>14630</u>	Invoice	09/18/2023	CHAIN LINK FENCE - B-BALL COURT		5,973.12	
<u>302-000-000-59565-6300</u>		PARKING FACILITIES-Cons	19-CITYPRKLOT	CHAIN LINK FENCE - B-BAL	5,973.12	
201300	TOZIER BROS INC.	09/22/2023	Regular	0.00	199.38	109182
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>465614</u>	Invoice	08/29/2023	CUST#20090 MISC SUPPLIES		37.10	
<u>001-141-000-57680-3100</u>		Office and Operating		CUST#20090 MISC SUPPLI	37.10	
<u>465894</u>	Invoice	09/13/2023	CUST#20090 BRASS BUSHING		7.56	
<u>401-000-000-53480-3100</u>		Office and Operating		CUST#20090 BRASS BUSHI	7.56	
<u>465932</u>	Invoice	09/15/2023	CUST#20090 PAINT		23.98	
<u>001-142-000-57250-3100</u>		Office and Operating		CUST#20090 PAINT	23.98	
<u>465968</u>	Invoice	09/18/2023	CUST#20090 PROPANE TANK		28.58	
<u>402-400-000-53580-3100</u>		Office and Operating		CUST#20090 PROPANE TA	28.58	
<u>465971</u>	Invoice	09/18/2023	CUST#20090 BROOM		17.77	
<u>001-142-000-51890-3115</u>		Office and Operating-Civi		CUST#20090 BROOM	17.77	
<u>465973</u>	Invoice	09/18/2023	CUST#20090 PROPANE TANK		84.39	
<u>503-000-000-54865-3100</u>		Office and Operating		CUST#20090 PROPANE TA	84.39	
201875	TYLER TECHNOLOGIES	09/22/2023	Regular	0.00	3,120.00	109183

Check Register

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Vendor Number	Vendor Name	Payment Date	Payment Type	Discount Amount	Payment Amount	Number
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
045-437667	Invoice	09/13/2023	CUST#48155 ASSET MAINTENANCE	0.00	3,120.00	
<u>401-000-000-53480-4100</u>			Professional Services/Adv	CUST#48155 ASSET MAINT	1,248.00	
<u>402-300-000-53580-4100</u>			Professional Services/Adv	CUST#48155 ASSET MAINT	1,248.00	
<u>404-000-000-53180-4102</u>			Prof Serv-Stormwater Rat	CUST#48155 ASSET MAINT	312.00	
<u>503-000-000-54865-4101</u>			Professional Services/Adv	CUST#48155 ASSET MAINT	312.00	
202900	WASH. ASSOC. OF SHERIFFS & POLIC	09/22/2023	Regular	0.00	75.00	109184
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>DUES2023-00692</u>	Invoice	09/01/2023	ASSOCIATE DUES 2023	0.00	75.00	
<u>001-118-000-52122-4900</u>		Miscellaneous		ASSOCIATE DUES 2023	75.00	
053987	WESTBAY NAPA AUTO PARTS	09/22/2023	Regular	0.00	191.70	109185
Payable #	Payable Type	Payable Date	Payable Description	Discount Amount	Payable Amount	
Account Number		Account Name	Project Account Key	Item Description	Dist Amount	
<u>051222</u>	Invoice	09/06/2023	ACCT#4296 BLADE	0.00	21.77	
<u>402-400-000-53580-3100</u>		Office and Operating		ACCT#4296 BLADE	21.77	
<u>052543</u>	Invoice	09/15/2023	ACCT#4296 AIR CONDITIONING UNIT 01	0.00	169.93	
<u>001-118-000-52122-3110</u>		Office & Operating-Auto		ACCT#4296 AIR CONDITIO	169.93	

Bank Code APBNK-Main Summary

Payment Type	Payable Count	Payment Count	Discount	Payment
Regular Checks	66	42	0.00	100,107.63
Manual Checks	0	0	0.00	0.00
Voided Checks	0	0	0.00	0.00
Bank Drafts	0	0	0.00	0.00
EFT's	0	0	0.00	0.00
Virtual Payments	0	0	0.00	0.00
	66	42	0.00	100,107.63

Virtual Payments	0	0	0.00	0.00
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Fund Summary

Fund	Name	Period	Amount
999	Pooled Cash	9/2023	100,107.63
			100,107.63



CITY OF SHELTON, WASHINGTON - CITY COUNCIL

City Council Meeting Minutes
August 15, 2023 – 6:00 p.m.
Civic Center & Virtual Platform

COUNCILMEMBERS AND PERSONNEL

Councilmembers:

Mayor Eric Onisko
Deputy Mayor Joe Schmit
Miguel Gutierrez
Kathy McDowell
Deidre Peterson
Sharon Schirman

Personnel:

City Manager Mark Ziegler
City Clerk Donna Nault
Parks and Recreation Supervisor Jordanne Krumpols
Finance Director Mike Githens
Public Works Director Jay Harris

CALL TO ORDER

Call to Order: 6:00 p.m.
Pledge of Allegiance: Eric Onisko
Roll Call: City Clerk Nault – Absent: Councilmember James Boad

A motion was made by Councilmember McDowell and seconded by Councilmember Schirman to excuse the absence of Councilmember Boad. Passed.

LATE CHANGES TO THE AGENDA

None

CITY COUNCIL REPORTS

None

CONSENT AGENDA

1. Vouchers numbered 108638 through 108708 in the total amount of \$1,518,020.73
2. Vouchers numbered 108729 through 108790 in the total amount of \$135,521.92
3. Minutes:
 - Business Meeting of June 20, 2023
 - Study Session of June 27, 2023
 - Business Meeting of July 11, 2023
 - Business Meeting of July 18, 2023
 - Study Session of July 25, 2023

A motion was made by Councilmember Peterson and seconded by Councilmember Schirman to approve the Consent Agenda as presented. Passed.

PRESENTATIONS

1. Forest Festival LTAC Report – Presented by Amy Cooper
2. June Financial Status Report – Presented by Finance Director Mike Githens

Finance Director Mike Githens provided an overview of the financials through the month of June. Discussion followed.

3. Water Use Efficiency Plan - Presented by Public Works Director Jay Harris.

Public Works Director Jay Harris provided an overview of the Water Use Efficiency Plan. Discussion followed.

BUSINESS AGENDA

1. Resolution No. 1286-0823 Civic Center Exterior Rehabilitation Project – Presented by Parks & Recreation Supervisor Jordanne Krumpols

Parks & Recreation Supervisor Jordanne Krumpols reviewed the Civic Center Exterior Rehabilitation Project. Discussion followed. No public comment.

A motion was made by Councilmember Gutierrez and seconded by Councilmember Schirman to place Resolution No. 1286-0823 on the September 5, 2023 City Council action agenda for further consideration. Passed.

2. Resolution No. 1279-0723 Consultant Services for Comprehensive Plan Update – Presented by ~~Community & Economic Development Director Jae Hill~~ City Manager Mark Ziegler

City Manager Mark Ziegler presented information regarding Consultant Services for Comprehensive Plan Update. No discussion. No public comment.

A motion was made by Councilmember Gutierrez and seconded by Councilmember Schirman to place Resolution No. 1279-0723 on the September 5, 2023 City Council action agenda for further consideration. Passed.

3. Resolution No. 1281-0723 Signatory Authorization to Invest in Local Government Investment Pool - Presented by Finance Director Mike Githens

Finance Director Mike Githens presented information to update signatures for Local Government Investment Pool. No discussion. No public comment.

A motion was made by Councilmember Peterson and seconded by Councilmember Gutierrez to place Resolution No. 1281-0723 on the September 5, 2023 City Council action agenda for further consideration. Passed.

4. Resolution No. 1282-0723 Wastewater System Comprehensive Plan Update – Presented by Public Works Director Jay Harris

Public Works Director Jay Harris presented information regarding the Wastewater System Comprehensive Plan Update. Discussion followed. Public comment: Thomas Wolf

A motion was made by Councilmember Gutierrez and seconded by Councilmember Schirman to place Resolution No. 1282-0723 on the September 5, 2023 City Council action agenda for further consideration. Passed.

5. Resolution No. 1283-0723 Water System Comprehensive Plan Update – Presented by Public Works Director Jay Harris

Public Works Director Jay Harris presented information regarding the Water System Comprehensive Plan Update. Discussion followed. Public comment: Thomas Wolf

A motion was made by Councilmember Gutierrez and seconded by Councilmember Schmit to place Resolution No. 1283-0723 on the September 5, 2023 City Council action agenda for further consideration. Passed.

6. Resolution No. 1284-0723 Design & Construction Standards Manual Update-Ch. 1 & 2 – Presented by Public Works Director Jay Harris

Public Works Director Jay Harris presented information regarding updating the Design & Construction Standards Manual Update. Discussion followed. Public comment: Dean Jewett

A motion was made by Councilmember Gutierrez and seconded by Councilmember Schirman to place Resolution No. 1284-0723 on the September 5, 2023 City Council action agenda for further consideration. Passed.

ACTION AGENDA

1. Resolution No. 1278-0723 Master Fee Schedule Update – Presented by Finance Director Mike Githens

Finance Director Mike Githens presented an Update to the Master Fee Schedule. No discussion. No public comment. City Clerk Nault provided the reading of Resolution No. 1278-0723.

A motion was made by Councilmember Gutierrez and seconded by Councilmember Schmit to adopt Resolution No. 1278-0723 as presented. Passed.

2. Civic Center Rotating Art Gallery – Presented by Parks & Recreation Supervisor Jordanne Krumpols

Parks & Recreation Supervisor Jordanne Krumpols presented new art selected by the Shelton Arts Commission to be placed in the Civic Center Rotating Art Gallery. Discussion followed. No public comment.

A motion was made by Councilmember Gutierrez and seconded by Councilmember Peterson to approve Shelton Arts Commission's recommendation for placement in the Civic Center Art Gallery. Passed

3. Resolution No. 1285-0823 Front Street Paving Project – Present by Public Works Director Jay Harris

Public Works Director Jay Harris presented information regarding the Front Street Paving Project. No discussion. No public comment. City Clerk Nault provided the reading of Resolution No. 1285-0823.

A motion was made by Councilmember Gutierrez and seconded by Councilmember Schmit to waive the three-touch rule and approve Resolution No. 1285-0823, Front Street Paving Project. Passed.

ADMINISTRATION REPORT

City Manager Report:

- August 15 – Clean Audit for ARPA funds
- August 16 – Mark Ziegler will be attending WA City/County Manager Association Conference
- August 14 – Homelessness subcommittee had their first meeting

GENERAL PUBLIC COMMENT (3-minute time limit)

In-Person:

Thomas Wolf

Dean Jewett

Zoom:

Colleen Carmichael

NEW ITEMS FOR DISCUSSION

None

ANNOUNCEMENT OF NEXT MEETING

Study Session – August 22, 2023 at 6:00 p.m.

City Council Meeting – September 5, 2023 at 6:00 p.m.

MEETING ADJOURN

Mayor Onisko adjourned the meeting at 7:28 p.m.

Mayor Eric Onisko

City Clerk Donna Nault



CITY OF SHELTON, WASHINGTON - CITY COUNCIL

Study Session Minutes
August 22, 2023 – 6:00 p.m.
Civic Center & Virtual Platform

COUNCILMEMBERS AND PERSONNEL

Councilmembers:

Mayor Eric Onisko
Deputy Mayor Joe Schmit
James Boad
Miguel Gutierrez
Kathy McDowell
Deidre Peterson
Sharon Schirman

Personnel:

City Manager Mark Ziegler (via Zoom)
City Clerk Donna Nault
Finance Director Mike Githens

Guest:

Pete Butkus, Financial Sustainability Task Force member

CALL TO ORDER

Call to Order: 6:00 p.m.
Roll Call: City Clerk Nault – All present

STUDY AGENDA

1. 2024 Budget Discussion – Presented by Finance Director Mike Githens

Finance Director Githens & guest Pete Butkus presented information and suggestions regarding the 2024 budget. Discussion followed.

NEW ITEMS FOR DISCUSSION

None

ADJOURN

Mayor Onisko adjourned the meeting at 7:22 p.m.

Mayor Eric Onisko

City Clerk Donna Nault



**City of Shelton
White Cane Awareness Day
PROCLAMATION**

WHEREAS, the white cane, which every blind citizen of Shelton, Washington has the right to carry, demonstrates and symbolizes the ability to achieve a full and independent life and the capacity to work productively in competitive employment; and

WHEREAS, the white cane, by allowing every blind person to move freely and safely from place to place, makes it possible for the blind to fully participate in and contribute to our society and to live the lives they want; and

WHEREAS, every citizen should be aware that the law requires that motorists and cyclists exercise appropriate caution when approaching a blind person carrying a white cane; and

WHEREAS, Washington state law also calls upon employers, both public and private, to be aware of and utilize the employment skills of our blind citizens by recognizing their worth as individuals and their productive capacities; and

NOW, THEREFORE, the Shelton City Council does hereby proclaim October 15, 2023 as White Cane Awareness Day in the City of Shelton.

Signed this 3rd day of October 2023.

Mayor Eric Onisko



CITY OF SHELTON COUNCIL BRIEFING REQUEST (Agenda Item E1)

Touch Date: 08/28/2023
Brief Date: 10/03/2023
Action Date: 10/17/2023

Department: Parks, Recreation & Facilities
Presented By: Jordanne Krumpols

APPROVED FOR COUNCIL PACKET:

Action Requested:

ROUTE TO:

REVIEWED:

PROGRAM/PROJECT TITLE:
Sale of Surplus Real Estate

☐

Ordinance

☐ Dept. Head

☐ Finance Director

☐ Attorney

☒ City Clerk

☐ City Manager

ATTACHMENTS:

Resolution No. 1291-0823
Appraisal
Survey Map

☒

Resolution

☒

Motion

☐

Other

DESCRIPTION OF THE PROGRAM/PROJECT AND BACKGROUND INFORMATION:

A property line conflict has been identified at Northcliff Neighborhood Park. Staff have identified a fence line that is within the park's boundary and upon further examination has been in place for around 13 years. The neighboring property owner purchased the property with the fence in place and assumed the subject area to be in their ownership.

The subject land area is 2,019 sq. ft.; a portion of the parcel which is considered Northcliff Neighborhood Park (72, 461 sq. ft. total). After reviewing options to resolve the conflict with the property owner and the Parks and Recreation Citizens Advisory Committee staff is recommending the surplus and sale of the area in question as there is no negative impact on the recreational value of the park.

The property owner has provided a survey, boundary line adjustment application, and agreed to pay for appraised value of the area.

Staff and the advisory committee recommend surplus and selling 2,019 square feet of property to the neighboring property owner upon approval by the City Council.

ANALYSIS/OPTIONS/ALTERNATIVES:

N/A

BUDGET/FISCAL INFORMATION:

Market Value as is - \$200,000

Market Value w/o the subject portion - \$194,000

Implied Value of subject portion - \$6,000

PUBLIC INFORMATION REQUIREMENTS:

N/A

STAFF RECOMMENDATION/MOTION:

Staff recommends: "I move to place Resolution No. 1291-0823 on the October 17, 2023 action agenda for further consideration."

RESOLUTION NO. 1291-0823

**A RESOLUTION OF THE CITY OF SHELTON, WASHINGTON DECLARING CERTAIN REAL ESTATE
UNDER CITY OWNERSHIP SURPLUS TO THE NEEDS OF THE CITY**

WHEREAS, the City owns the property located at 1518 Northcliff Rd, identified on Exhibit A as #1, and a small piece of the parcel that is shown on Exhibit A as #2 ("Subject Property"); and

WHEREAS, 1518 Northcliff Road is reserved for park use but is currently vacant; and

WHEREAS, a survey of the property showed that the adjacent property owner's fence line and shed are encroaching on the City's property; and

WHEREAS, as the City does not need the Subject Property, it is preferable to convey the Subject Property to the adjacent property owner rather than requiring the property owner to remove the encroachments; and

WHEREAS, the Subject Property has been appraised for six thousand dollars (\$6,000); and

WHEREAS, the property owner has agreed to apply for a boundary line adjustment to include the Subject Property within its property and, has agreed to compensate the City in the amount of \$6,000.

NOW, THEREFORE BE IT RESOLVED, by the City Council of the City of Shelton, Washington, as follows:

1. The Subject Property is declared surplus to the needs of the City.
2. In lieu of requiring the adjacent property owner to remove the encroachment, the Subject Property may be conveyed to the property owner.
3. The property owner shall be responsible for obtaining a boundary line adjustment in accordance with the Shelton Municipal Code.
4. City staff shall not approve the boundary line adjustment until the property owner conveys to the City the appraised value of \$6,000.

Passed by the City Council at its regular meeting held on the 17th day of October 2023.

Eric Onisko, Mayor

ATTEST:

City Clerk Nault



CITY OF SHELTON

RESOLUTION NO. 1291-0823

EXHIBIT A

Appraisal Report

**Northcliff Road Land
1518 Northcliff Road
Shelton, Washington**

Prepared For:

Karl Ostheller

ANDERSON APPRAISAL, INC.

Real Estate Appraisers and Consultants

ANDERSON APPRAISAL, INC.

EIN: 91-1486688 • TELEPHONE (360) 943-8400 • EMAIL: DEREKJ@ANDERSONAPPRAISALINC.COM
P. O. BOX 2694 • OLYMPIA, WASHINGTON 98507

Date of Report: August 11, 2023

Mr. Karl Ostheller
Karl Ostheller
705 Holly Lane
Shelton, WA 98584

Re: Northcliff Road Land
1518 Northcliff Road
Shelton, Washington
File No. 6415-23ADS

Dear Mr. Ostheller:

In accordance with our engagement, Anderson Appraisal, Inc. evaluated the above referenced property, utilizing best practice appraisal standards for this property type. The appraisal was conducted in compliance with our understanding of the following: Uniform Standards of Professional Appraisal Practice (USPAP) and all applicable state and federal laws and regulations including licensing and registration. The undersigned hereby certifies that no attempt was made by the client or any third party to influence the valuation through coercion, extortion, collusion, compensation, inducement, intimidation, bribery, or in any other manner. The Appraisal Report is as defined by USPAP Standards Rule 2-2(a).

The purpose of this appraisal is to develop an opinion of the Market Value of the subject property's Fee Simple Estate. The subject is a portion of parcel 32018-65-00900. To estimate the value of the subject, the value of the overall parcel with, and without, the subject portion is concluded with the difference being the implied value of the subject portion. The following table conveys the final opinions of market value that are developed within the body of the report.

Value Type	Value Premise	Value Perspective	Interest Appraised	Effective Date	Indicated Value
Market Value	A-As Is assuming entirety of subject parcel	Current	Fee Simple	7/17/2023	\$200,000
Market Value	B-As Is less the 2,019 SF of area within the fence line	Current	Fee Simple	7/17/2023	\$194,000
Market Value	C-Implied Value of Subject (A - B)	Current	Fee Simple	7/17/2023	\$6,000

The appraisal report has been prepared for the exclusive benefit of Karl Ostheller and the City of Shelton. It may not be used or relied upon by any other party without our written consent. The reader's attention is directed to the Underlying Assumptions and Limiting Conditions, on page 53. We appreciate the opportunity to serve you, and if you have any questions regarding this report, please feel free to call.

Sincerely,



Derek R. Jolliff, MAI

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Summary of Salient Facts and Conclusions

Introduction:

The subject is the 2,019 SF portion of parcel 320186500900 located within the fence line of the neighboring parcel. Parcel 320186500900 is owned by the City of Shelton and is vacant land planned to be developed as a park but zoned Neighborhood Residential. The owner of the neighboring parcel wishes to purchase the section within the fence line. To arrive at an opinion of value for the subject it is necessary to estimate the value of the whole parcel 320186500900 with, and without, the subject portion. The difference in value is the implied value for the subject.

Property Identification: Northcliff Road Land.

Parcel Number(s): 320186500900.

Ownership: City of Shelton.

Property Type: Land Other.

Land Area: 2,019 SF – Subject.
72,461 SF - Parcel 320186500900 As Is.
70,442 SF - Parcel 320186500900 w/o the subject portion.

Sizes per provided proposed Boundary Line Adjustment.

Zoning: NR, Neighborhood Residential.

Highest & Best Use: Residential Use.

Type of Appraisal: As requested, this is an Appraisal Report, which is USPAP compliant.

Effective Date(s) of Value: July 17, 2023.

Date of Report: August 11, 2023.

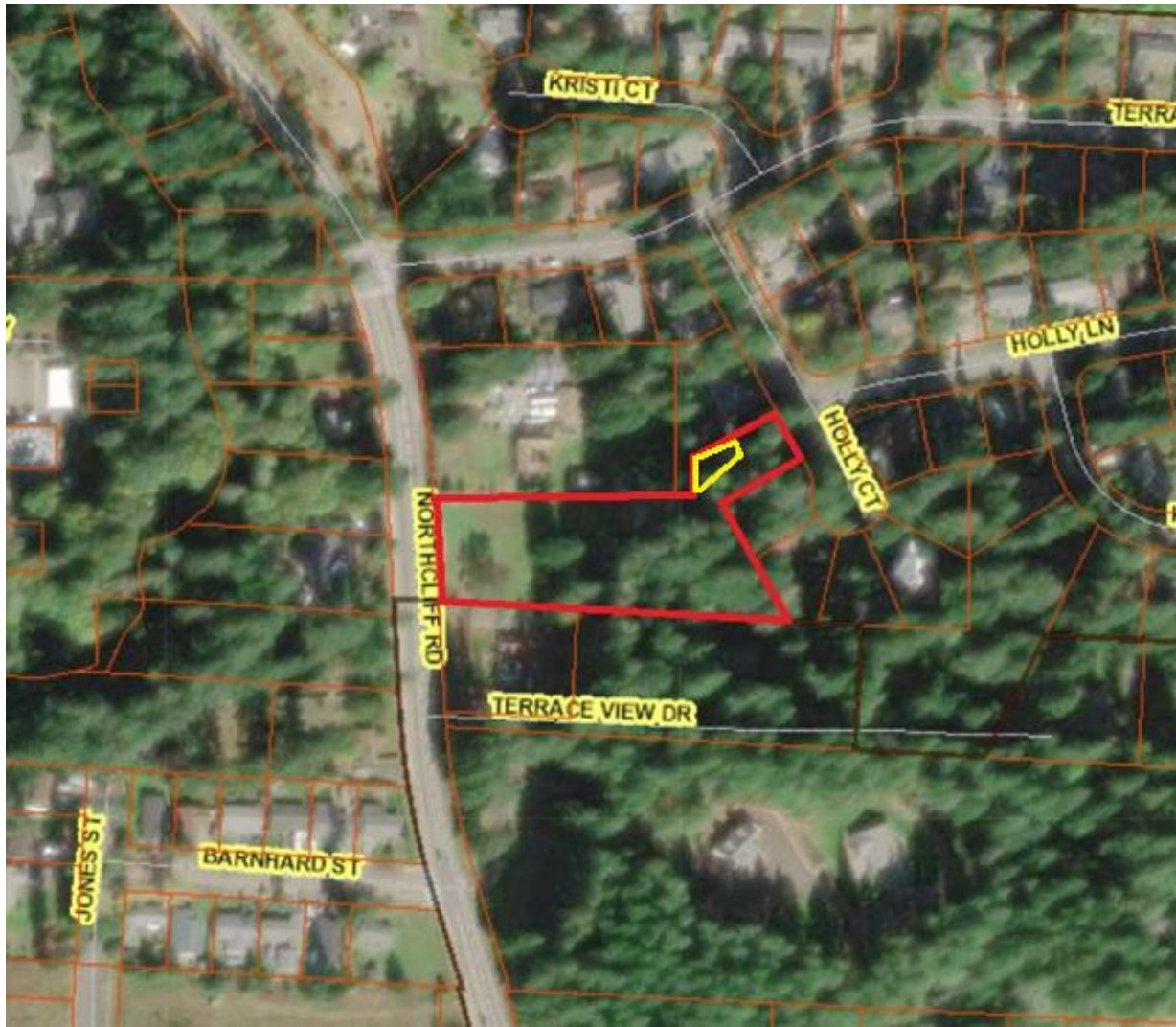
Rights Appraised: Market Value of the Fee Simple Estate.

Client & Intended Use: The client (intended user) is Karl Ostheller and the City of Shelton. The function (intended use) of this appraisal is to assist the client in the purchase of the subject property.

<i>Value Indicated in Scenario "A" Parcel 320186500900 As Is</i>	
Cost Approach:	Not Completed
Sales Comparison Approach	\$200,000
Income Approach:	Not Completed
FINAL ESTIMATE OF MARKET VALUE:	\$200,000

<i>Value Indicated in Scenario "B" Parcel 320186500900 w/o the subject portion</i>	
Cost Approach:	Not Applicable
Sales Comparison Approach	\$194,000
Income Approach:	Not Completed
FINAL ESTIMATE OF MARKET VALUE:	\$194,000

Subject Photographs



Aerial view of parcel 320186500900. Subject portion outlined in Yellow.



Northcliff Rd, Looking S



Northcliff Rd, Looking N



Subject Streetview



Subject, Looking E from Northcliff



Subject parcel, Looking SW from narrowest part of parcel



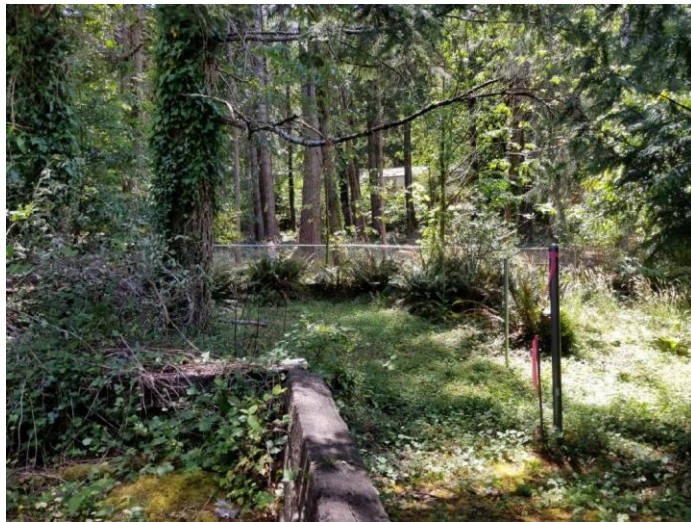
Subject Interior



Subject Interior, Looking NE, BLA fence line to left and fence with neighbor to S on right



Standing on 320186500037, Looking SW, original boundary marked in pink



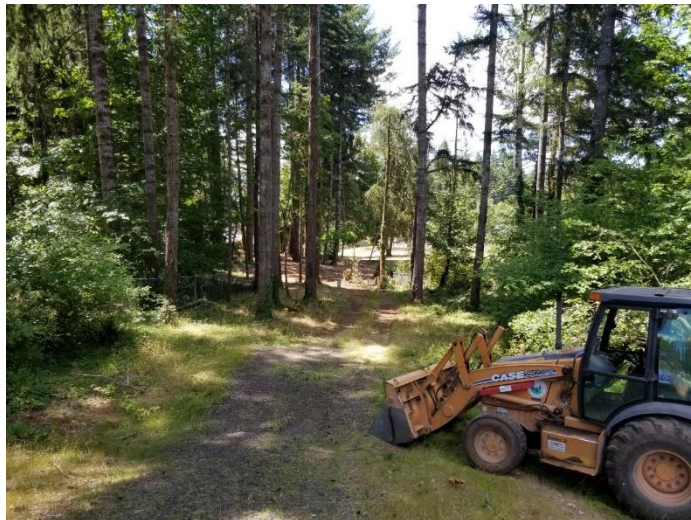
Standing on 320186500037, Looking S at BLA area, original parcel marked in pink



Standing on 320186500037, Looking NE, pick marker far left



Fence placed on subject parcel, marking E border of BLA



Subject, looking SE from Holly Ln/Ct



Fence line marking BLA



Holly Lane, Looking SE to Holly Court



Holly Lane, Looking NNE toward Terrace Blvd

Introduction

<i>Type of Property:</i>	Northcliff Road Land.
<i>Address of Property:</i>	1518 Northcliff Road, Shelton, Washington.
<i>Location:</i>	East side of Northcliff Road on the eastern edge of Shelton city limits.
<i>Owner of Record:</i>	City of Shelton.

Legal Description

No title report has been furnished. The legal description, as defined in Boundary Line Adjustment Proposal is as follows:

"TRACT A OF TERRACE HEIGHTS DIVISION TWO VOLUME 9, PAGE 162 RECORDS OF MASON COUNTY, WASHINGTON. AND LOT 5 OF CITY OF SHELTON BOUNDARY LINE ADJUSTMENT, RECORDED JULY 15, 1992, UNDER AUDITOR'S FILE NO. 547777, BEING LOT 37, PLAT OF TERRACE HEIGHTS DIVISION TWO, RECORDED IN VOLUME 9 OF PLATS, PAGE(S) 162-163, RECORDS OF MASON COUNTY, WASHINGTON AND A PORTION OF THE NORTHEAST QUARTER OF SECTION 18, TOWNSHIP 20 NORTH, RANGE 3 WEST, WM., IN MASON COUNTY, WASHINGTON."

Purpose of Appraisal

The purpose of this appraisal was to estimate the Market Value a buyer would be justified in paying for the subject property, Fee Simple Estate, as of July 17, 2023.

Intended Use of Appraisal

This appraisal report is intended for the sole and exclusive use of Karl Ostheller and the City of Shelton. The intended use is to assist the client Karl Ostheller in the purchase of the subject property.

Definition of Client

The term "Client" is defined in USPAP as:

"The party or parties who engage an appraiser (by employment or contract) in a specific assignment."

The client (intended user) of this appraisal report is Karl Ostheller and the City of Shelton..

Unavailability of Information

The following information was not provided or available to the appraisers:

Title Report.

Environmental Reports.

Extraordinary Assumptions

None.

Hypothetical Conditions

In Scenario B there is a Hypothetical Condition that the 2,019 SF within the fence line of the adjoining property 705 Holly Lane, Shelton WA (Parcel 32018-65-00037) is no longer part of the subject parcel.

Definitions

Market Value¹

The most probable price that a property should bring in a competitive and open market under all conditions requisite to a fair sale, the buyer and seller each acting prudently and knowledgeably, and assuming the price is not affected by undue stimulus. Implicit in this

¹The Dictionary of Real Estate Appraisal, Appraisal Institute, Sixth Edition, Page 142.

definition is the consummation of a sale as of a specified date and the passing of title from seller to buyer under conditions whereby:

- *Buyer and seller are typically motivated;*
- *Both parties are well informed or well advised, and acting in what they consider their best interests;*
- *A reasonable time is allowed for exposure in the open market;*
- *Payment is made in terms of cash in U.S. dollars or in terms of financial arrangements comparable thereto; and*
- *The price represents the normal consideration for the property sold unaffected by special or creative financing or sales concessions granted by anyone associated with the sale. (12 C.F.R. Part 34.42(g); 55 Federal Register 34696, August 24, 1990, as amended at 57 Federal Register 12202, April 9, 1992; 59 Federal Register 29499, June 7, 1994).*

Fee Simple Estate²

Absolute ownership unencumbered by any other interest or estate, subject only to the limitations imposed by the governmental powers of taxation, eminent domain, police power, and escheat.

Property Rights Appraised

The Fee Simple Estate is appraised herein, subject to zoning, easements, and other governmental restrictions of record.

Date of Inspection

The last date of physical property inspection was July 17, 2023. Present during the inspection were the following individuals: Derek Jolliff, Appraiser; Ali Anderson Snodgrass, Assistant Appraiser; Karl Ostheller, client.

During the inspection, the appraiser visually surveyed the subject by walking the site perimeter, road frontages, and portions of the interior. The appraiser is not a surveyor, environmental, or geotechnical specialist. The client is urged to retain such if so desired. Should there be damage, defects, or hazardous materials not commensurate with the observed areas that are later discovered, we reserve the right to modify the report and value conclusions presented within.

² The Dictionary of Real Estate Appraisal, Appraisal Institute, Sixth Edition, Page 90.

Property History

The subject property is a portion of parcel 320186500900 which is owned by the City of Shelton. The adjacent property, 705 Holly Lane, was purchased by the client, Mr. Ostheller, in 2010 for \$220,000. The subject of this appraisal was within the fenced area of the property purchased by Mr. Ostheller. Surveys conducted by the City of Shelton for the purpose of building a park on the site revealed that the fence line for the neighboring property encroached on City property.

The subject land has not sold in the three years prior to the date of value and is not currently under contract or being marketed for sale.

Scope of Work

This report has been prepared in conformance with the current Uniform Standards of Professional Appraisal Practice (USPAP), as formulated by the Appraisal Foundation.

The subject property is appraised based on the following Scope of Work:

- The property is identified as: Northcliff Road Land.
- The property was inspected on July 17, 2023.
- The research of the local and regional economy and Mason County Land market data included reference to various sources that include Mason County Assessor, Washington State Office of Financial Management, CoStar, Washington State Department of Labor and Industry, and our in-house surveys of the market.
- Specific data concerning the subject was obtained from various sources including the property owner, (zoning), and Mason County (assessed values and real estate taxes).
- Data compiled in the analysis of the building sales and leases was obtained from Mason County Assessor, NWMLS, CoStar, CBA (Commercial Broker Association), as well as our own in-house data files.
- All of the data were confirmed with a party involved in the transaction and/or through public records and each was inspected.
- The Cost Approach was not developed.
- The Sales Comparison Approach was fully developed.
- The Income Approach was not developed.

- The reconciliation and final value estimate(s) are based on an overview of the weight applied to each approach by buyers and sellers in the current market, also taking into consideration the quality of the data available for each.
- Alison D. Snodgrass, License # 21018996, provided significant real property appraisal assistance to the person signing this report by assisting in the: defining of the appraisal problem, performing preliminary analysis and planning, selecting and collecting data, performing an analysis of the subject property, estimating the subject's highest and best use, developing the approaches to value, reconciling value indicators, reaching defined value conclusions and reporting value conclusions as defined.

Exposure Time

"The time a property remains on the market. The estimated length of time the property interest being appraised would have been offered on the market prior to the hypothetical consummation of a sale at market value on the effective date of the appraisal; a retrospective estimate based on an analysis of past events assuming a competitive and open market."³

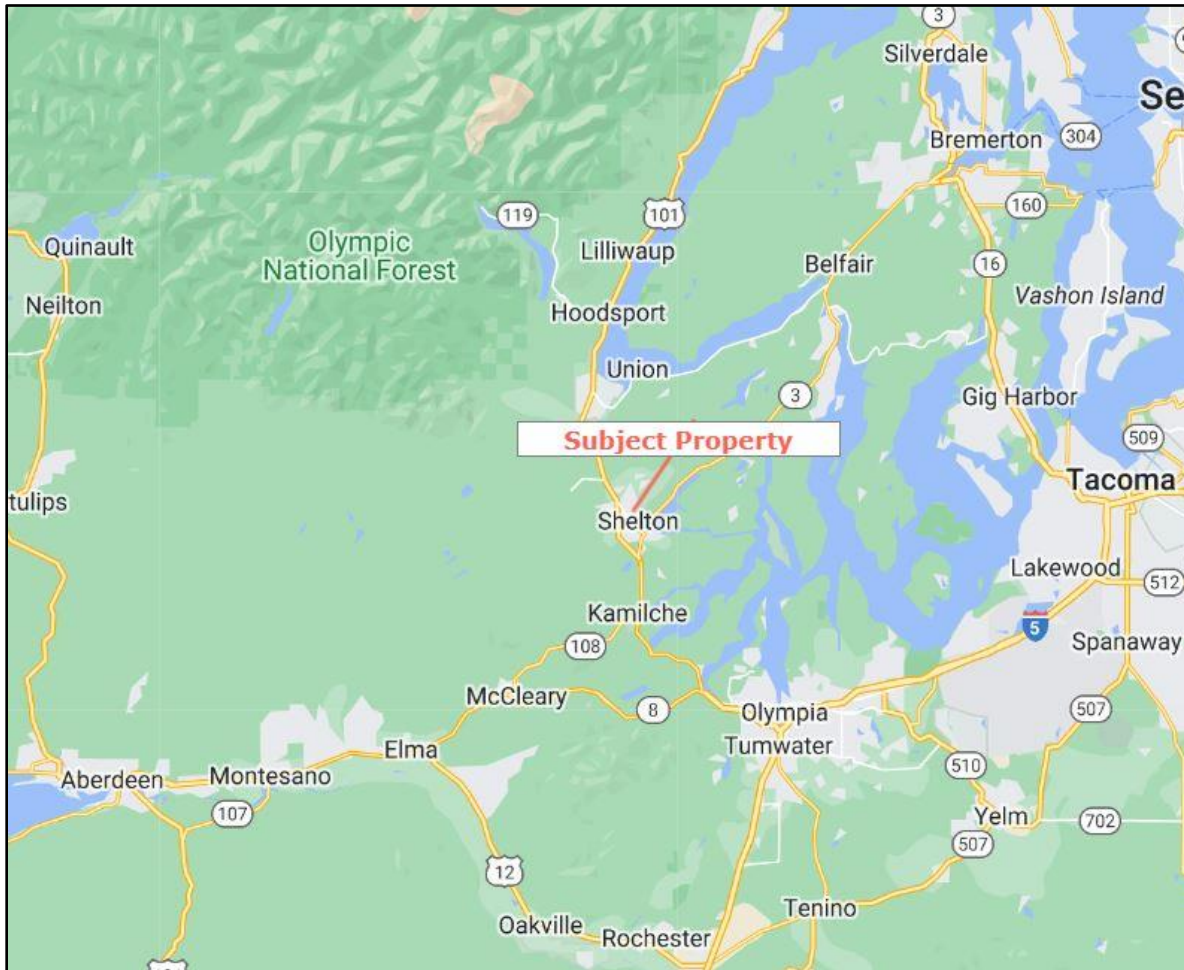
The following information was taken into consideration to develop an estimate of exposure time for the subject property: recent comparable sale and current listing experience (i.e. days on market), interviews with real estate brokers/agents with experience marketing this property type, interviews with lenders who finance this type of real estate, and the subject property's overall physical and locational characteristics.

Based upon our research for this assignment, required marketing periods ranging between one week and fourteen (14) months were observed. Considering all of the preceding factors, the exposure period has been estimated at approximately 12 months or less. Exposure time is always presumed to occur prior to the effective date of the appraisal.

³ The Dictionary of Real Estate Appraisal, Appraisal Institute, Sixth Edition, Page 83.

Market Area Summary

A market area is defined as "the geographic or locational delineation of the market for a specific category of real estate, i.e., the area in which alternative, similar properties effectively compete with the subject property in the minds of probable, potential purchasers and users."⁴



Location

Mason County, comprising a total land mass of 961 square miles, is located in western Washington at the southwest end of Puget Sound. It is bordered to the north by Jefferson County, to the west and southwest by Grays Harbor County and to the southeast by Thurston County. The county's eastern boundary is shared with Kitsap, Pierce and Thurston Counties, and is primarily delineated by the rugged contours of Hood Canal and Case Inlet. Mason County's topography was heavily influenced by prehistoric glacial activity. After the ice retreated, the more mountainous areas in the county's interior evolved into dense forest land. This is particularly true in the north county, much of which is incorporated in the Olympic National Forest and Olympic National Park (elevations in this part of the county reach 6,000 feet above sea level). Hood Canal and Puget Sound account for most of Mason County's 90 square miles of water. Two-thirds of Hood Canal, two to three miles wide in some places, runs through Mason County. Case Inlet forms the lower

⁴Dictionary of Real Estate Appraisal, Appraisal Institute, Sixth Edition, Page 139.

half of Mason County's eastern boundary and includes two large inhabited islands, Hartstene and Squaxin – and three smaller ones: Hope, Reach and Stretch.

Infrastructure and Public Services

The primary transportation route in Mason County is US Highway 101, which travels north and south through Shelton and along Puget Sound inlets and the Hood Canal. Extending from US Highway 101 are State Routes 3, 106 and 108. State Routes 3 and 106 travel northeast along the county's waterways, taking travelers toward the town of Bremerton and points beyond in neighboring Kitsap County. State Route 108 extends southwest from US Highway 101 providing a link to the town of Aberdeen in neighboring Grays Harbor County as well as the Pacific Ocean. Several smaller, provincial roads connect the county's numerous townships. The county is located approximately 20 miles west of US Interstate 5.

Of the six port districts in Mason County, the largest is the Port of Shelton which oversees more than 1,600 acres of developed and undeveloped property. The Port developed and manages four main properties: Sanderson Field Industrial Complex, Johns Prairie Industrial Complex, the Shelton Yacht Club and Marina, and the Hiawatha Business Park. The other Mason County Port Districts are: The Port of Allyn, the Port of Hoodport, the Port of Grapeview, the Port of Tahuya and the Port of Dewatto. Sanderson Field, owned and operated by the Port of Shelton is the only airport in Mason County. The runway measures 5,050 feet and is primarily for use by private aircraft and charters. There are no deepwater ports or shipping facilities in Mason County, however, there are private barge facilities that serve Oakland Bay and Hood Canal. Burlington Northern Railroad and Bayshore Loading Company share three active railroad spurs in Mason County and the companies primarily handle lumber and wood products.

Mason County has one hospital, Mason General Hospital, which is part of the Public Hospital District 1 of Mason County, which also includes 11 clinics.

Law enforcement is provided by Shelton Police Department in Shelton and Mason County Sheriff in the smaller rural communities and unincorporated areas of the County. Residents of Mason County are provided fire protection by fire districts in unincorporated parts of the county and the Shelton Fire Department within the city of Shelton.

Mason County has seven school districts, the Shelton School District being the largest, then North Mason School District in Belfair, the Mary M. Knight School District in Dayton and Matlock, and four smaller K-8 districts: Grapeview, Hood Canal, Pioneer and Southside. Olympic College, part of the State's community college system, has a branch in Shelton on a 27-acre campus north of Shelton.

Population

Mason County had a population of 60,699 as of the 2010 census, 65,726 as of the 2020 census and 66,200 as of the April 1, 2022 estimate⁵. Shelton, the only incorporated city in Mason County, had a population of 9,834 as of the 2010 census, 10,371 as of the 2020 census, and 10,430 as of the April 1, 2022 estimate. The balance of the population resides in and around the county's unincorporated townships: Hoodport, Union, Lilliwaup, Allyn, Belfair, Grapeview, Kamilche, Dayton and Matlock. Mason County is home to two Native American Tribes: The Skokomish

⁵ 2020 State Population Estimate, April 1, 2022 Office of Financial Management

tribe at the southern end of Hood Canal at the mouth of the Skokomish River and the Squaxin Tribe, located in the southeast county near Kamilche. It should be noted that the county's population estimates include institutional residents (1,300 person capacity).

	2010C	2020C	2021est	2022est
Mason County	60,699	65,726	65,750	66,200
Unincorporated	50,865	55,355	55,340	55,770
Incorporated	9,834	10,371	10,410	10,430
Shelton	9,834	10,371	10,410	10,430

Employment

The region's forest lands have provided well-paying employment for several generations of loggers and mill workers, and while the industry has fallen on difficult times, it nevertheless remains the backbone of the county's economy. However, the area's population has grown to the point where it cannot be sustained by that industry and the economy is diversifying. The greatest growth has occurred in the non-manufacturing sector. Services, trade, and government, all occupy prominent niches in employment. Government, if all its levels are considered (federal, state, and local), is the largest employer in the county.

Economy

Mason County's economy has long been dominated by the timber industry. The region's forestlands have provided well-paying employment for several generations. Yet, the most significant economic feature of the recent past and the foreseeable future is the relative decline of timber's importance. In 1970, led by lumber and wood products, manufacturing held a tight grip on county employment, accounting for 36 percent of all jobs and far out-pacing the nearest industry division. By September 2020, manufacturing accounts for just 6.4 percent of jobs, trailing government, trade and services.

The remarkable transformation of Mason County's economy has not come without a cost. While the tremendous growth of the services and trade industries has provided an outlet for jobseekers, it has also created many lower paying jobs. These sectors have low wages throughout the state. In Mason County, the sectors pay even less as they lack the elements that tend to boost wages – high tech and wholesale trade industries. The result has been a stagnation of services.

On the upside, Mason County residents have maintained a relatively stable median household income, due in part to its proximity to Thurston County and its status as State Capitol and easy commute distance. Indeed, according to the Washington State Employment Security's "Mason County Profile", Mason County also has become an important bedroom community for commuters to Thurston and Pierce counties. Median household income levels in Mason County are below State median levels.

Additionally, Mason County has seen tremendous in-migration during periods of economic restructuring, an unusual combination. The draw of the area is its relatively low cost of living, its natural beauty and its accessibility to adjacent employment centers.

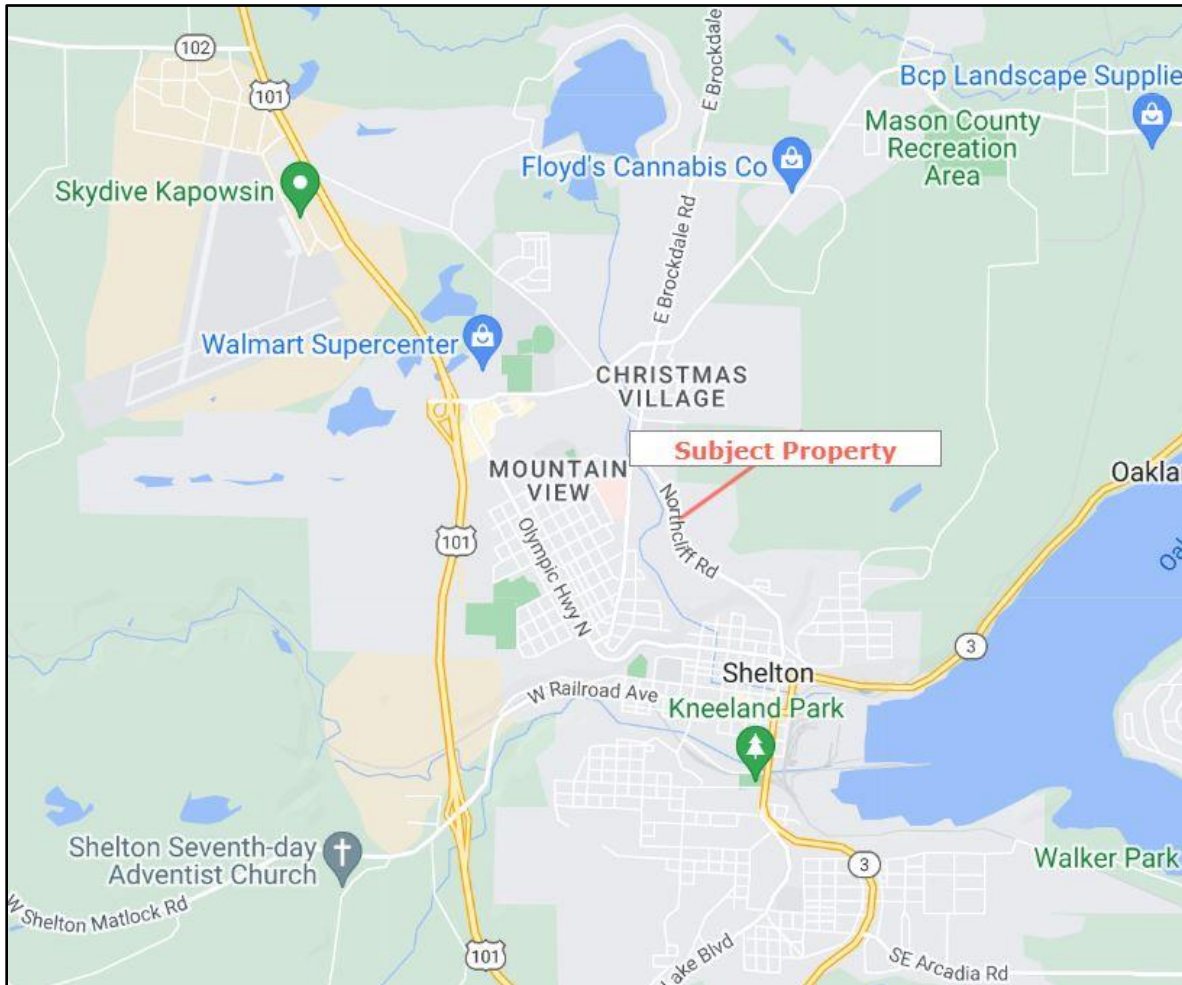
Summary

In summary, the future of Shelton and Mason County looks to bring more of a shift toward service and trade industries. And with over half of income earned in Mason County coming from workers commuting outside the county, it has become more of a bedroom community. Casinos owned, and operated by the two tribal nations, Squaxin and Skokomish, now offer a more diverse entertainment setting to complement the natural beauty of Hood Canal and the Olympic Mountains.

As congestion grows and home prices escalate in other urban areas of the Puget Sound, Mason County's attractiveness will grow. Still, the blue-collar roots will remain strong. Despite its relative decline, timber is still the single most important economic factor in the county and will remain as such for the foreseeable future. Jobs in the services and trade sectors will simply expand and diversify the economic base, but the real driver for the economy must be the growth of base industry.

Neighborhood and/or District Summary

A neighborhood is defined as "a group of complementary land uses; a congruous grouping of inhabitants, buildings, or business enterprises."⁶ A district is defined as "a market area characterized by homogeneous land use, e.g. apartment, commercial, industrial, agricultural."⁷



Boundaries

North:	E Peacock Hill; change in use to institutional and commercial uses
South:	Bluff and green space between Northcliff Rd and downtown Shelton
East:	Shelton City Limit; Undeveloped land
West:	Shelton Creek

Environmental Influences

<i>Construction Types, Ages:</i>	Largely single family residential uses built between 1930s to a few recently built structures, the majority of which were built in the 1970s.
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⁶Dictionary of Real Estate Appraisal, Appraisal Institute, Sixth Edition, Page 156.

⁷Dictionary of Real Estate Appraisal, Appraisal Institute, Sixth Edition, Page 68.

<i>General Maintenance:</i>	Overall maintenance in the neighborhood is considered average.
<i>New Development & Construction:</i>	There are a few homes built since 2000, but there is minimal development in the neighborhood.
<i>Life Cycle:</i>	Stable There has been limited infill residential construction and remodeling of existing homes in the subject's neighborhood.
<i>Nuisances & Hazards:</i>	None noted.
<i>Public Utilities & Infrastructure:</i>	Typical public utilities are all available throughout the neighborhood.
<i>Linkages:</i>	Northcliff Rd provides north/south connection to Wallace-Kneeland Road to the North and thence, Highway 101; and 1 st St and thence SR 3 to the south.
<i>Street Patterns:</i>	Streets patterns are a mix of grid and topographical.
<i>Public Transportation:</i>	The neighborhood is served by Mason County Trnsit with the following routes: 8.
<i>Goods & Services:</i>	Basic goods and services are available within a five minute drive northwest of the property. Most typical goods and services are available within a 30 minute drive, in Olympia.

Governmental Influences

<i>Zoning & Land Use Policy:</i>	The City of Shelton controls the zoning and land use policy in the neighborhood.
<i>Protective Services:</i>	City of Shelton, police, fire and emergency medical.
<i>Tax Burden, LID's, etc.:</i>	None noted.
<i>Environmental Regulations:</i>	No extraordinary environmental regulations were noted.

Economic Influences

<i>Income Characteristics:</i>	Median household income within the neighborhood is approximately \$56,794 (2-mi radius, CoStar).
<i>Owner Occupancy:</i>	Approximately 60% of homes in a 2-mile radius are owner-occupied; 40% are renter occupied
<i>Industry Employment:</i>	The following table summarizes which industries employ the most people living in the subject's neighborhood (2-mi radius, CoStar)

<u>Industry, Top 5</u>	<u># Employed</u>	<u>% Employed</u>
Educational Services, Health Care, Social Assistance:	3,232	38%
Trade Transportation & Utilities	1,339	16%
Public Administration	985	12%
Leisure & Hospitality	686	8%
Financial Activities	605	7%

Social Influences

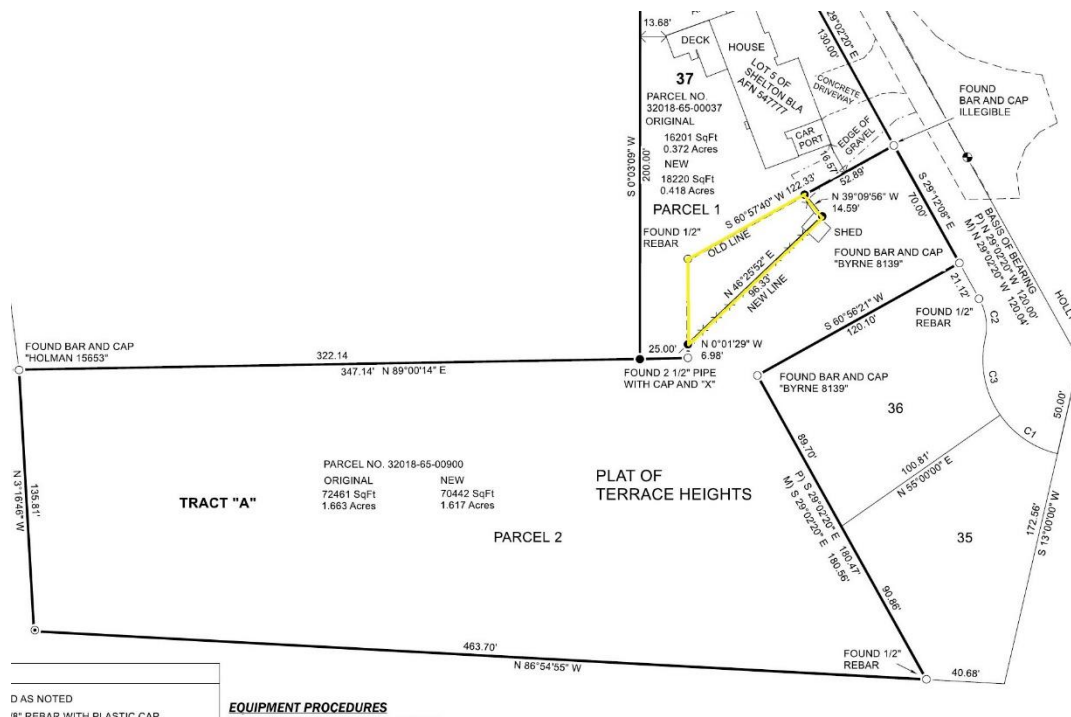
<i>Population Density:</i>	Low to moderate, typical of residential neighborhoods.
<i>Educational Characteristics:</i>	84% have a high diploma or greater; 14% have a bachelors degree or greater.
<i>Age Levels:</i>	The median age in the neighborhood is 37.1. The median age for Washington State is 36.9.
<i>Quality of Community Services:</i>	Fair to Average, common for small town services.

Summary and Conclusions:

The neighborhood is a predominantly semi-rural area on the eastern edge of the Shelton City limits. The neighborhood is zoned neighborhood residential, allows single-family, duplex, or triplex development, and generally allows up to nine units per acre. The neighborhood is an established area of predominantly single-family residences. The neighborhood is established, though some vacant lots remain.

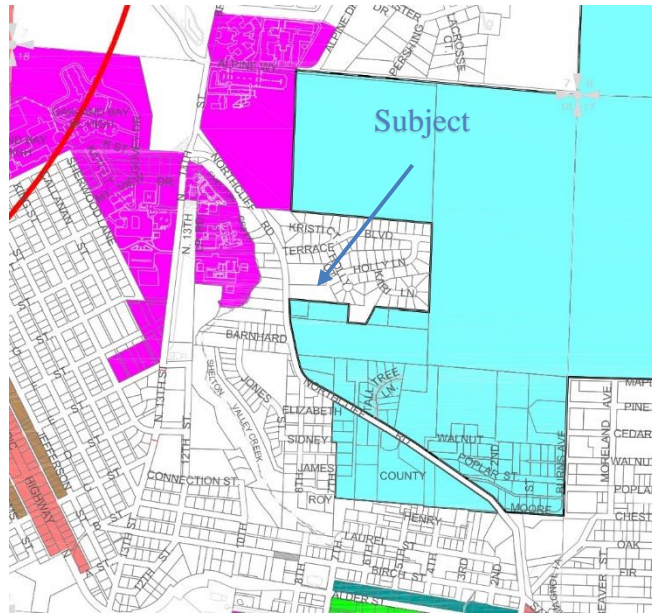
Site Summary – Parcel 32018-65-00900

No site plan has been furnished. The exhibit below is a depiction of the site from the Boundary Line Adjustment Proposal, prepared by Chehalis Valley Associates, LLC on June 8, 2023, showing the basic orientation and configuration, with the proposed boundary line adjustment highlighted. The following description is based upon public records and/or a personal inspection of the site.



Zoning:

The subject property is zoned NR, Neighborhood Residential, under the City of Shelton zoning ordinance. The most relevant aspects of the designation are reprinted or summarized below. The white area is the neighborhood residential zoning. The teal is the urban growth area. The hot pink is a medical/educational zoning district. The neighborhood residential zoning is the predominant zoning within the city.



Intent: These regulations recognize the need for flexibility to be exercised relative to the types and density of housing allowed but also recognize the value that good site design, interesting architecture, and thoughtful landscaping play in providing compatible infill development and more livable communities.

Allowed Uses: Single family uses; ADUs; Duplexes; Triplexes; Conditional Uses- neighborhood serving commercial uses: Bakery; Banks and other financial services; Barber shop; Beauty salon; Book store; Business and professional offices; Candy stores; Community clubs; Convenience stores, no gas pumps; Day care, preschool; Deli; Drug stores; Eating and drinking places (no drive-thrus); Florist; Food store; Gallery; Gift store; Groceries and related products; Health club, gym; Instruction studio; Laundromat; Neighborhood meeting hall; Parks; Post office; Residential uses above commercial; Tailor; Telecommuting services; Theater, under fifty seats; Travel and other agencies; Variety store; Video rental- no larger than 6,000 SF.

Development Standards: Min Lot Size: 4,500 SF (6,000 SF duplexes & 7,500 SF triplexes); Min Lot Width: 30'; Front Setback: 10'; Side setback: 5'; Rear setback: 15'; Building Hgt: 35'; Max Coverage: 50%.

Conclusion: By zoning, the subject could support up to 15 or 16 single family units, 12 duplexes, 9 triplexes, or up to 6,000 SF of neighborhood-serving commercial space, such as a daycare center.

Location: The east side of Northcliff Road in Shelton, and small frontage along Holly Lane.

Abutting Subject Property:

Abuts	Description
<i>North:</i>	Residential Use w/comm. home occupation
<i>South:</i>	Residential Use
<i>East:</i>	Residential Use
<i>West:</i>	Northcliff Rd, thence Residential Use

Shape: Irregular, slightly detrimental. The irregular shape creates a narrow point at the southeast corner and a narrow angled sliver and ‘neck’ to the eastern portion of the site that fronts Holly Lane. These two narrow areas effectively reduce the number of units the site could support due to minimum lot sizes and setbacks, as well as access.

Size: 72,461 SF - Parcel 320186500900 As Is.
70,442 SF - Parcel 320186500900 w/o the subject portion.

Visibility Rating: Average to Good. The site has direct frontage along Northcliff Road, a residential north/south arterial in Shelton. Maximizing the development potential of the site would require building an access road through the parcel from Northcliff Rd.

Access Rating: Good. The site has direct frontage on both Northcliff Rd and Holly Lane. The site has a transit stop directly in front on Northcliff Rd.

Frontage:

Street/Attribute	Descriptor
Northcliff Rd	Residential Arterial
Direction	Generally North/South
Lanes	Two
Sidewalks/Lights	Yes (Bus stop, N and on W side of Northcliff) /No
On-Street Parking	No
Traffic Volume	Light
Speed Limit	30 MPH

Street/Attribute	Descriptor
Holly Lane	Residential
Direction	Generally North/South
Lanes	Two
Sidewalks/Lights	No
On-Street Parking	No
Traffic Volume	Low
Speed Limit	25 MPH

Topography: Level to slight slope on western half of the site, slope increases to moderate over eastern half with a total elevation change of about 15 feet.

Soils: No soil tests were provided. No settling or other disturbance noted in immediately surrounding area. It is an assumption of the report that the soil qualities are adequate to support the Highest and Best Use of the subject property.

Drainage: Vacant lot, utilizes natural drainage. Stormwater drainage in Northcliff Rd.

<i>Utilities:</i>	Provider
<i>Electricity:</i>	Mason County PUD 3
<i>Gas:</i>	Cascade Natural Gas
<i>Sewer:</i>	City of Shelton
<i>Water:</i>	City of Shelton

Utilities are available in Northcliff Road.

Site Improvements & Coverage: The site is a vacant lot. It is mostly cleared, with the majority of the remaining trees in the southeast corner of the site. There are street frontage improvements along most of the site frontage with Northcliff Road but not with Holly Court.

Parking: The site is vacant.

Environmental Concerns: No site environmental assessment information has been furnished.

There was no visual evidence of solid waste materials dumping, soil erosion, overuse of pesticides or other hazardous elements. This statement does not mean that Anderson Appraisal, Inc. warrants the non-existence of any potential environmental concerns, but rather that none were visually evident on the date of inspection. The value estimate is predicated on the assumption that there is no such material on or in the property that would cause a loss in value. No responsibility is assumed for any such conditions, or for any expertise or engineering knowledge required to discover them. The client is urged to retain an expert in this field, if desired.

Flood Zone: According to FEMA Community Panel No. 53045C0605E, effective 06/20/2019, the subject site is part of a larger surrounding area all designated "X", with minimal flood risk.

Earthquake Zone:

The International Building Code (IBC) is the newly adopted building code effective in the state of Washington. The IBC uses the Seismic Design Category (SDC), which is a function of ground motion, soil type, and building occupancy, to classify areas of expected ground shaking. Most buildings in Puget Sound region would fall under category D or greater. The categories range from A to F, with A having the lowest structural requirements and F having the highest structural requirements.

A seismic study has not been provided and the appraisers do not possess the expertise in seismic or structural engineering.

Critical Areas:

According to public mapping, there are no wetlands or other critical areas on the property.

Easements:

There are no known detrimental easements.

*Covenants, Conditions &
Restrictions:*

No adverse covenant, conditions, and restrictions noted.

Summary and Conclusions:

The subject parcel is well located on a residential arterial within the Shelton city limits. It is served by a public transit stop directly in front of the parcel on Northcliff. The zoning allows for up to 18 dwelling units. However, due to slope, an irregular shape, the need to build an access road through the property from Northcliff, and required setbacks for each lot, and the surrounding low density uses, the site would more realistically support up to an estimated eight or nine single family units or four duplexes or triplexes. It is possible the site could support a small neighborhood-serving commercial use, such as a medical office or childcare center. When considering parcel 320186500900 w/o the 2,019 SF section, the usable area is slightly reduced but all other physical characteristics remain similar.

Assessed Valuation and Tax Load

The subject property is currently assessed for real estate taxes as shown below:

Tax Parcel No. (s)	Tax Land Value	Tax Buildings Value	Tax Market Value	Tax Amount
320186500900	\$46,390		\$46,390	\$0.00
Totals	\$46,390	\$0	\$46,390	\$0.00

The subject property has a tax exemption due to its current ownership. A purchaser of this property may not receive a similar exemption.

Market Study

"An analysis of the market conditions of supply, demand, and pricing for a specific property type in a specific area."⁸

Product Definition

There are a number of characteristics that determine the marketability of any property. The characteristics generally fall under the broad categories of legal, physical (site and improvements) and locational. To understand how the market perceives the subject, it is necessary to compare it to similar properties in its market area. The following table rates the subject's primary characteristics in comparison to similar competitive properties.

Subject—Property Rating							
Sub-rate	Inferior			Typical	Superior		
	High	Moderate	Slight	Neutral	Slight	Moderate	High
Legal Characteristics							
Zoning				X			
Site Characteristics							
Accessibility					X		
Visibility					X		
Site Improvements/Parking				X			
Utilities						X	
Topography/Shape			X				
Locational Characteristics							
Linkages				X			
Proximity to Goods & Services				X			
Proximity to Employment Drivers				X			
Quality of the Neighborhood				X			

Conclusion

Overall, the subject parcel 320186500900 has slightly above average competitiveness compared to other similar properties in the market area. The subject is located along a north/south arterial for the east side of Shelton. The subject has an irregular shape, with narrow angles that limit full utilization of the site. The site has utilities in the road directly in front of the property; many of the recently sold properties do not have as easy access to utilities and the majority of UGA parcels do not have utilities available yet or would need to be extended a long distance.

Market Delineation

The market delineation in this marketability study includes determination of the market area, and the most likely buyer and user of the property.

⁸The Dictionary of Real Estate Appraisal, Appraisal Institute, Sixth Edition, Page 140.

Market Area

Based on the subject's location, it competes directly with other residential parcels in Shelton city limits and the Shelton UGA, and to a lesser degree, other small communities located in Mason, Thurston, and possibly Kitsap Counties.

Most Likely Buyer/User

Based on the subject's product definition, the most likely buyer is a developer for the purpose of developing either six to nine single family units or three or four duplex or triplex units. Less likely, but still a possibility, is an individual looking to build a single-family home or an owner-user for the purpose of building a small neighborhood-serving retail building, such as F.I.R.E office use or daycare.

The most likely users of the subject are residential users. Less likely, but possible, is a small-scale retail/office use. The parcel is currently owned by the City of Shelton and has a bus stop directly in front of it. Therefore, it is possible it could be used for civic purposes such as a park.

Current Conditions

Commercial

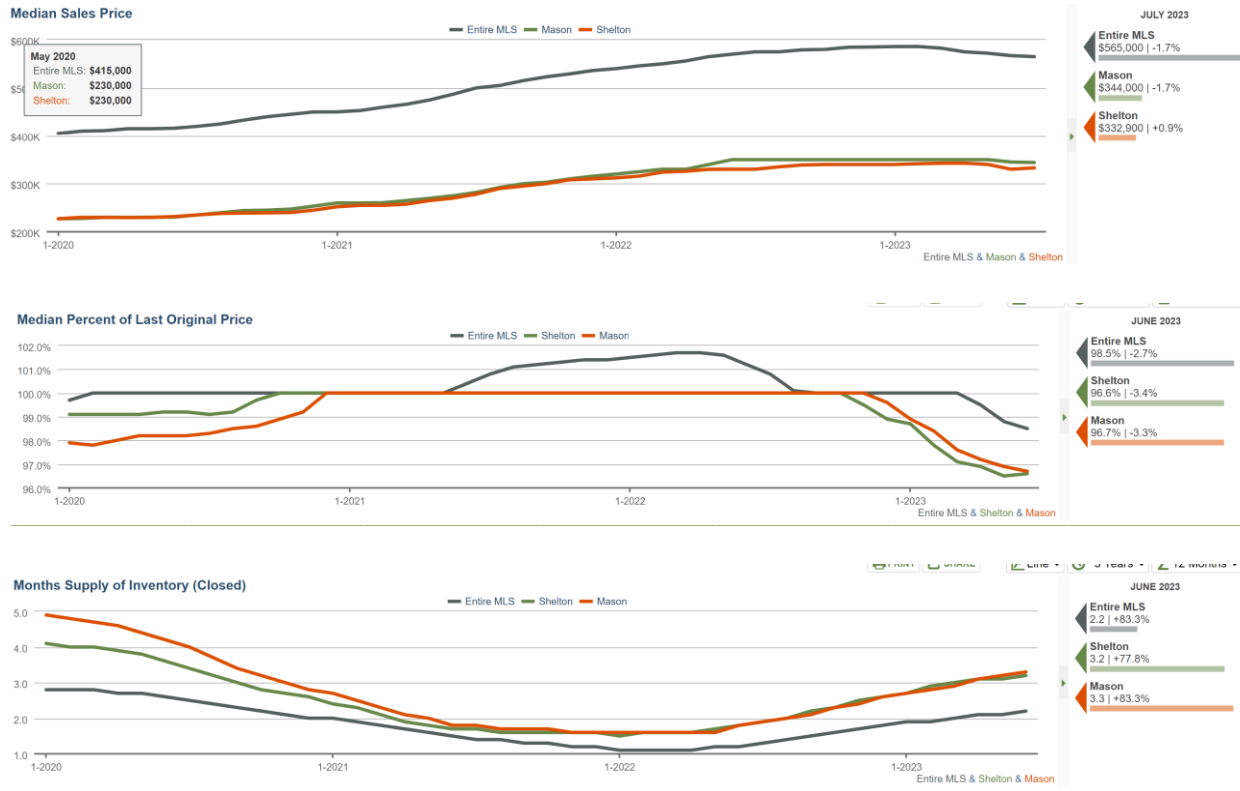
The following are statistics from CoStar Property related to the "commercial" market in Shelton. CoStar only tracks 215 retail properties for Mason County, which limits the reliability of the data. It does indicate positive trends in absorption, vacancy, rent per square foot, and sale price. Of the 13 improved commercial properties sold in Shelton since the beginning of 2022, three of them are properties that sold multiple times between 2020 and 2023. Four of the 13 were in the Wallace Kneeland commercial node and five were in the downtown area. Reports from market participants indicate the reliability of the Mason County data is low. Due to Shelton's location 30 minutes from employment nodes in Thurston and Kitsap Counties, market demand tends to follow these markets' trends, though it does lag. The majority of the demand for any commercial use in subject neighborhood will be driven more by population growth than investment in the commercial nodes.

Residential

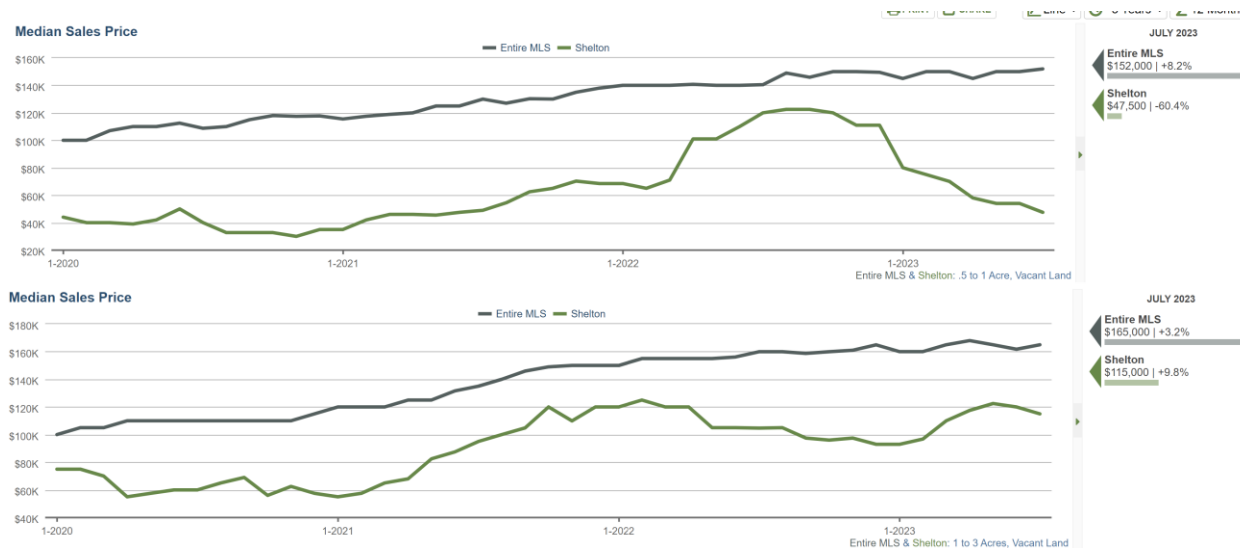
While zoning does allow up to 27 units on the subject parcel, much of the neighborhood is single family and some duplex use. According to the University of Washington Housing Study, the number of active listings and the months' supply statewide have trended down over the last ten years, generally moving together, until 2022 where months supply has trended up since the end of 2021 and active listings have dropped dramatically since mid-2022. Seasonally Adjusted sales for Mason County for Q1 2023 are down over 16% over the prior year and the median sale price countywide is down just over 4% over the prior year. Sales of existing homes in Mason County have been trending down every quarter for the last five quarters. The annual sales ranged between 14,500 and 16,000 from 2016 through 2020, with no clear upward or downward trend. However, after topping 17,000 sales in 2021, sales dropped dramatically to just over 13,000 in 2022⁹. After

⁹ NWMLS, Infostats, July 29, 2023

peaking in Q2 2022, the median price has been trending downward for the county. The following graphs give an indication of the slowing that is occurring in the residential sales market.

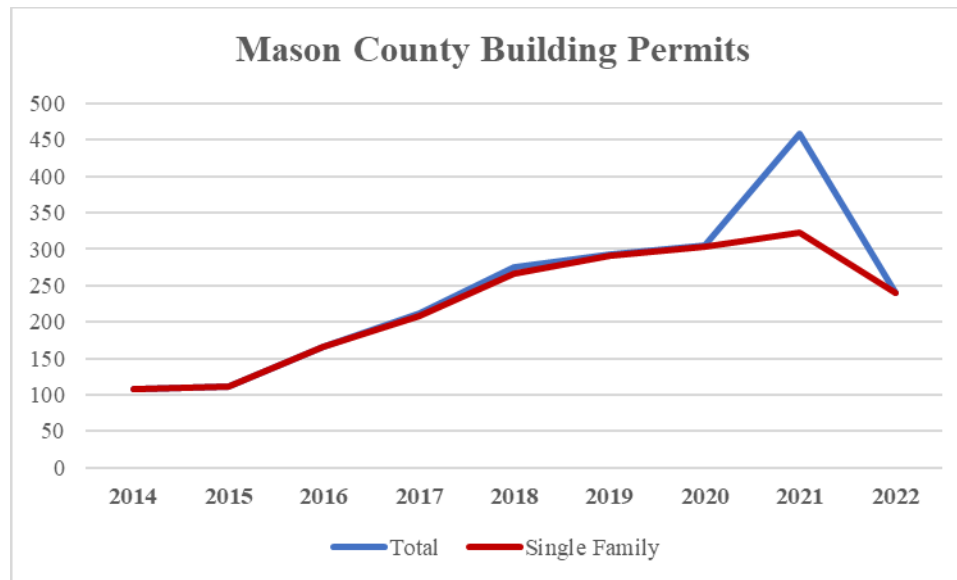


The subject is vacant land zoned for neighborhood residential use. As demand for existing homes peaked during the pandemic and the historically low interest rates seen in 2020 and 2021, demand for vacant land gained momentum. However, tracking by NWMLS implies that the land market has softened. It does indicate that the market for parcels less than 1 acre has returned to pre-pandemic levels while parcels greater than 1 acre, that could support more units or types of development, have dipped but remain well above pre-pandemic prices.



Trends in building permits give a lagging indication in demand for vacant land and are seen as a strong indicator of residential demand for an area. Building permits have trended upward over

the last ten years but dropped dramatically in 2022. Discussions with the Shelton Planning department indicate this is, in part, due to the restrictions on development that would require extension or expansion of utility service while the city determines its capacity to provide water. It is unknown how the restrictions, current economic uncertainty, and prolonged period of higher interest rates may impact building trends, but trends that existed prior to the pandemic point to a range of 200 to 300 building permits per year. According to the Mason County 2016 Comprehensive Plan, the Shelton UGA was projected to absorb 44% of the population growth between 2016 and 2036. Current trends in building permit applications will not keep pace with projected demand.



Multifamily

According to CoStar Property, which tracks approximately 927 multifamily units across 28 properties in Mason County, the total vacancy rate is estimated to be extremely high around 28.5%, up from 14% the prior period, which is likely due to the number of units that delivered to the market in the 12 months. However, the amount of data is limited as there are no comprehensive surveys of the Mason County multifamily market. However, it does generally align with numbers from the University of Washington Housing Report. In neighboring Kitsap County and Thurston County, where there is more data available, the vacancy rate for multifamily is around 10%, up from 4.7% and 8.4%, up from 4.8%, respectively. The increases are likely due to the approximately 2,000 units that were delivered to market over the 12 month period in both counties.

According to CoStar Property, asking rents in Mason County have been generally increasing since 2010, with current reported average rent of \$1,169, a 3.1% increase. Interviews with local property managers in Shelton indicate that the most recent rents for two- and three-bedroom homes in the Shelton area range from \$1500/mo to around \$3,000/mo.

A search for "multifamily" sales on Northwest Multiple Listing Service in Mason County revealed the following:

Multifamily Sales		
<i>Year</i>	<i># of Sales</i>	<i>Ave \$ per Unit</i>
2017	6	\$101,500
2018	10	\$90,000
2019	9	\$91,600
2020	5	\$102,500
2021	9	\$155,000
2022	9	\$165,000
2023YTD	2	\$179,750

Source: NWMLS

One 2022 sale was not included because it is a mixed-use property with only one residential unit upstairs. It sold for \$550,000 in January of 2022. The majority of sold properties were duplexes. It is difficult to draw any reliable conclusions due to the low number of sales. It was a common practice, especially in more rural areas of western Washington, for multifamily sales to occur ‘off-market’ during the pandemic, meaning they were not openly marketed. It is unknown how many multifamily sales occurred off-market during the pandemic in Mason County. However, it is clear that the median price per unit has experienced significantly higher annual appreciation since the pandemic. It is worth noting that with only three current listings, all of which have been on the market for approximately two to six months, there is less than one year of supply actively on the market.

Demand Analysis

Demand for commercial and residential properties tends to come from a contiguous market or trade area. Demand in this marketability analysis is interpreted from historical, current and projected market data.

Population

The following table summarizes population growth in the subject’s Neighborhood/Market Area (2-mile radius), Mason County, and Washington State:

Projected Population			<i>Annual Growth Rate</i>
	2023 Proj	2028 Proj	2023-2028
Market Area (2-mile Radius)	13,326	13,683	0.54%
Mason County	67,000	71,512	1.35%
Washington State	7,951,150	8,343,906	0.99%

Sources: CoStar, WA State Office of Financial Management

The subject market area has received below average increases in demand from population growth compared to Washington State and less than half that of Mason County. This is likely due to the developed single-family nature of the neighborhood. Much of the land in the UGA just east of the subject is currently owned by regional timber companies. As construction costs and interest rates moderate, and demand picks up, it is likely some of that land will become more attractive for residential development.

According to the 2016 Mason County Comprehensive Plan, the City of Shelton is projected to capture 28.5% of the projected population growth and the Shelton UGA would absorb 16.2% of the projected population growth. The current Mason County population, reported by the Washington State Office of Financial Management, and the population of Shelton, as reported on the City of Shelton website, are both below 2016 projections, based on average annual population growth. The Mason County 2016 Comprehensive Plan projects that the Shelton UGA will absorb 44% of Mason County's projected population growth.

Median Household Income

The following table summarizes median household income growth in Mason County and Washington State.

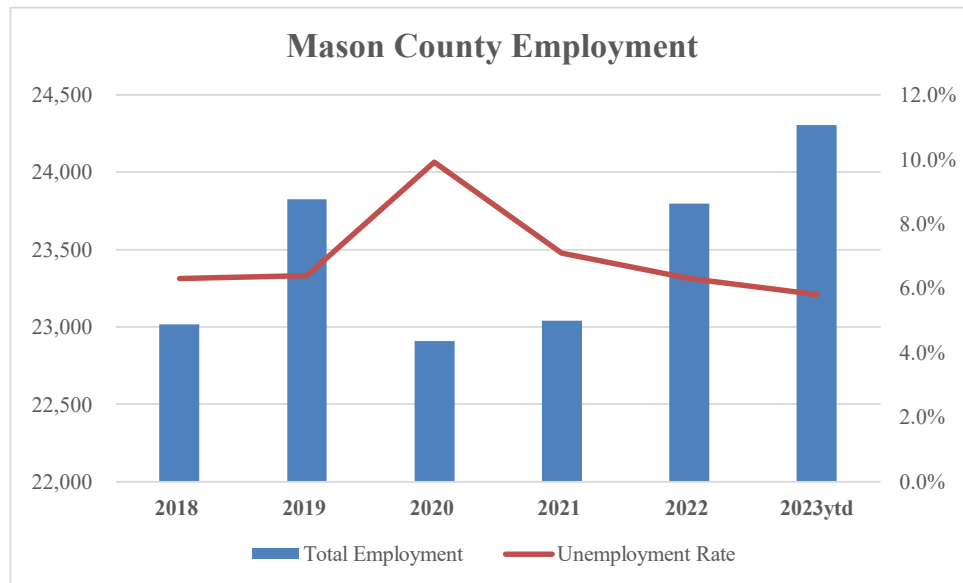
Current and Projected Median Household Income			
	2021 Est.	2022 Proj.	Annual Growth Rate 2021-2022
Mason County	\$73,696	\$77,936	5.75%
Washington State	\$84,155	\$86,343	2.60%

Source: WA State Office of Financial Management

As can be seen in the table above, income levels in Mason County are below that of Washington State, but they appear to be growing at a significantly higher rate. The above estimates are for Mason County as a whole. According to CoStar data, the median income within 2 miles of the subject is only \$56,794, with a similar 5% increase over the previous year.

Employment

Mason County has generally had unemployment rates hover between 6% and 8% historically, remaining consistently around 6.5% in the three years prior to the pandemic. Around 2006 unemployment was low near 6% until the great recession when unemployment ballooned to a high of nearly 12% in 2010 and slowly began decreasing over the next 9 years to 6.3% in 2019. While unemployment did spike during the Covid-19 quarantines, the unemployment rate has returned to pre-pandemic levels while total employment has continued to increase, currently sitting above the pre-pandemic high.

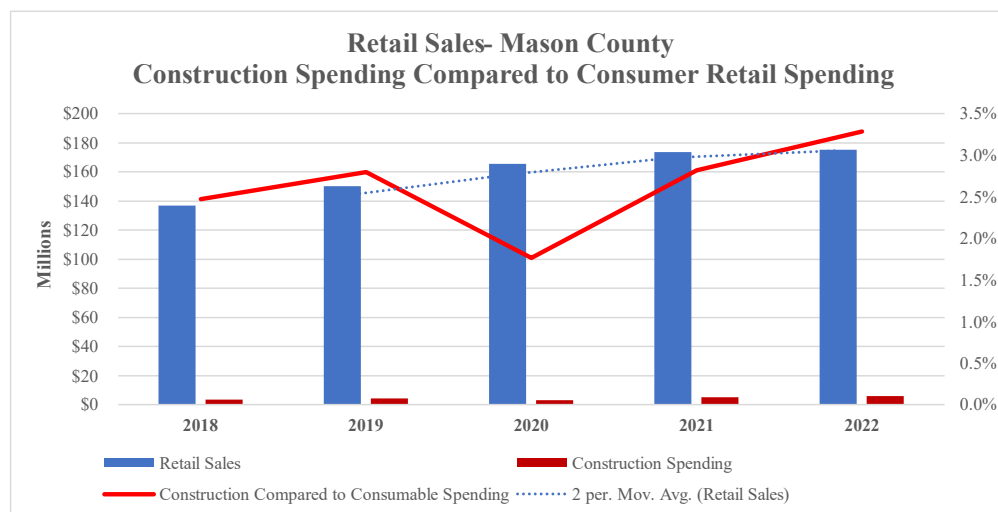


Source: Washington State Employment Security Dept.

According to the Washington State Employment Security Department, employment in the Pacific Mountain Workforce Development area, which includes Mason County, is projected to increase 1.90% on an annual basis from 2021 to 2026, slowing to 1.07%, annually from 2026-2031.

Retail Sales

The following graph summarizes the taxable sales for retail trade in Shelton. Retail sales have been steadily increasing since 2016. During 2020, at the onset of the pandemic, retail spending grew slightly faster than average, but construction spending fell compared to consumer retail spending. As a result of the spike in building permit applications in 2020 and 2021, and the lag created by the pre-construction entitlement process, construction spending increased in 2021 and 2022, especially when compared to the growth in consumer retail spending in a period of ‘sticky’ inflation and rising interest rates. Those factors, and the return of permit applications to pre-pandemic averages, will likely lead to a drop in overall construction spending and as compared to consumer retail spending.



Source: Washington State Department of Revenue.

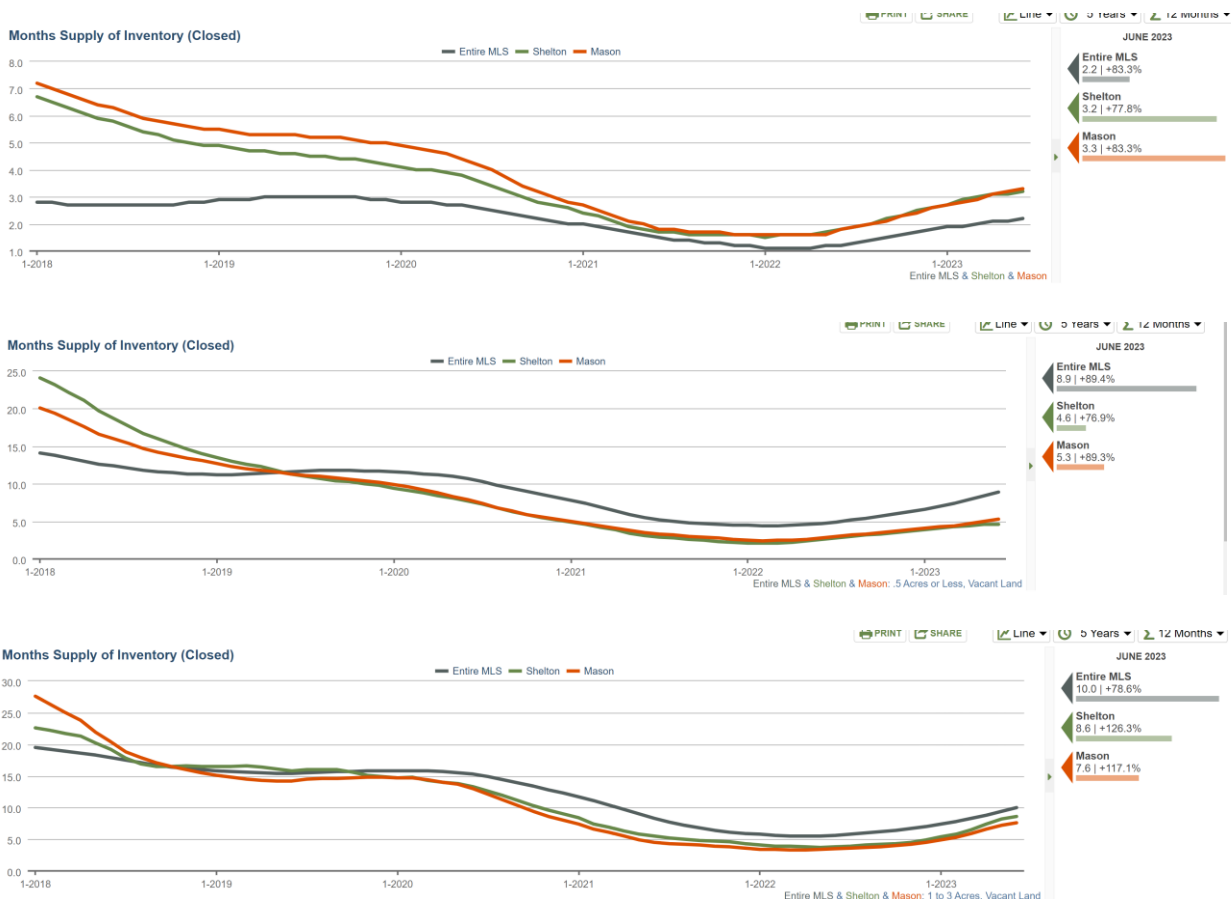
Supply Analysis

Supply in this market analysis is interpreted from estimates of existing competing properties plus planned and potential construction of competing properties.

Existing Supply

The subject is zoned such that commercial development is permitted. However, it is zoned to encourage lower to medium density residential use. The surrounding land uses are largely single-family residential east of Shelton Creek and south of Olympic College.

According to the University of Washington housing market report, Mason County had 1.7 months of supply in Q1 of 2023. According to the NWMLS, the Shelton MLS area had around 2.7 months' supply of closed sales in the first quarter of 2023. There are currently 85 active listings of residential properties between .11 and 1.75 acres for sale in the Shelton MLS area. There are 34 active listings of vacant land less than .5 acres and 34 listings between 1 and 3 acres in the Shelton MLS area. Based on NWMLS tracking of supply, months' supply has crept up over the last 18 months, which coincides with 'sticky' inflation and rising interest rates used to combat inflation.



There are nine pending sales of vacant land between 4,500 SF and 80,000 SF in the Shelton MLS area. However, the majority of them are at the outer edges of the MLS boundary, in areas zoned for low density residential use. Only one pending sale is in the city limits with higher allowed zoning.

The 2016 Mason County Comprehensive Plan (most recently released data) estimates residential land capacity to be 1,650 net acres in the City of Shelton and 3,100 net acres in the Shelton UGA. These lands allow up to 4 dwelling units per acre. There are approximately 500 acres of largely undeveloped land just east of the subject in the Shelton UGA and zoned for neighborhood residential use.

Construction

Commercial

According to Jason Dose, Senior Planner, there has been some new commercial construction in the north end of the city. This includes a 60,000 SF hospital expansion and a new dialysis clinic; an expansion of the high school, a new elementary school, and the Shelton Family YMCA. None of the 2022 building permits applications for Mason County were for commercial development.

Multifamily

Two triplexes that had been planned on Park Street near S 7th Street, with two more planned, actually became single family residences because the developer did not want the additional construction cost required by the city for multifamily units (interview with Jason Dose, Senior Planner). The only multifamily to have been proposed in Shelton development area was first reduced in scope and has since indefinitely stalled, both for permitting/entitlement reasons and significant cost.

Single Family

Jill Dickinson, Building Permits manager for the City of Shelton, sent over the following for single family home permits within the Shelton city limits:

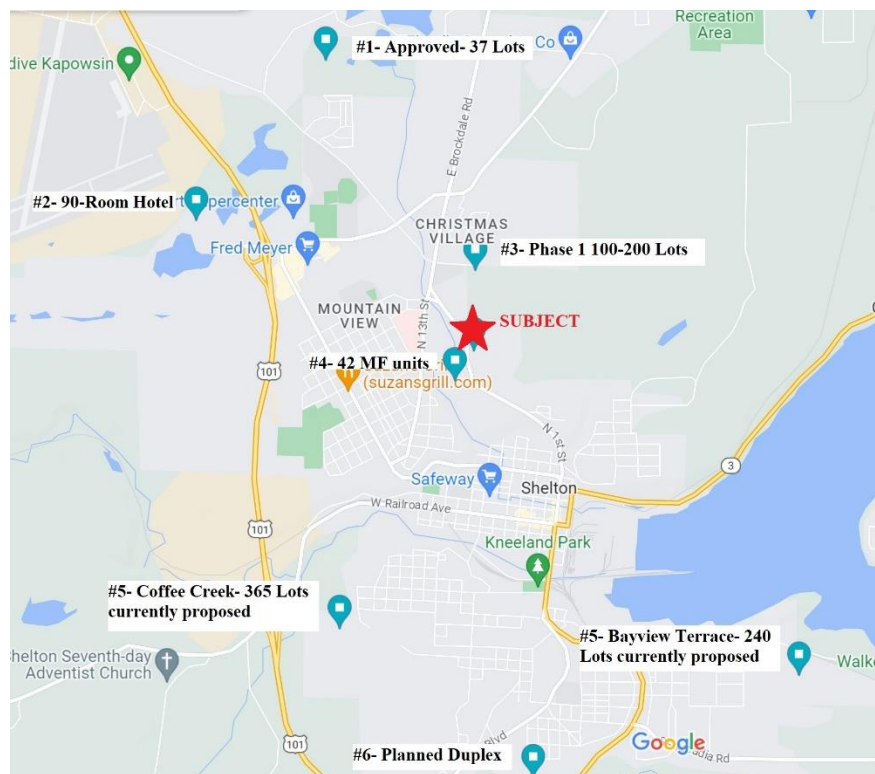
Shelton SF Construction	
Year	Single Family Permits Issued
2019	20
2020	13
2021	16
2022	12
2023ytd	3

Potential Construction

There is another large development that has been brought to the city in recent years. This development was proposed on the west side of 101 near Walmart in the north end. This would include approximately 700 housing units and 2.8 million square feet of commercial/industrial space. An environmental Impact Statement was issued in 2014, however, no movement on that project has taken place since then. According to Jason Dose, the same developer has changed plans

and now is proposing a hotel on this same parcel. The 90-room hotel is currently in pre-submission meetings with the city. Mr. Dose stated that the City has been working with this developer on this same parcel for over 15 years. This exemplifies the uncertainty of this potential project.

According to Mr. Dose, of the almost 1,000 residential units that were proposed to the city two years ago, only 19 have moved forward in the last two years. Currently, of the 800 to 900 single family and multifamily units proposed, only 37 single-family units are approved and moving forward. The last 18 to 24 months, the city has imposed restrictions on any new development that required extension of water mains or upsizing of existing mains. The city is currently working on confirmation of its capacity to provide adequate water service, a fix for existing limitations to capacity, and a phasing plan for new development. Reportedly, the fix and phasing will likely involve a fee to developers for what are essentially ‘options’ for a predetermined number of connections that will remain valid for ‘x’ amount of time. If the developers do not build the connections in the prescribed period of time, the fee is forfeited and the connection rights can be sold to others for development. This limitation and fee requirement applies to all development that would require extension or expansion of existing service, both within city limits and in the UGA.



Proposed Developments:

- 1) The only approved development able to move forward- 37 lots on 40 acres being developed by MTT Development.
- 2) The Phase I hotel in the long awaited commercial and residential development at Wallace Kneeland and 101.
- 3) Phase I – 100-200 lots being planned by Mitchell Development. The developer has options on 300± acres to the east and northeast, currently classified and used as timber land.
- 4) The only multifamily development even under consideration in Shelton. Originally proposed as 58 units, recently reduced to 42 units: 32 one- and two-bedroom

- apartments and 10 three-bedroom row houses and associated outdoor amenity space. However, due to delays and increased cost to develop, developer would sell the property if the right buyer comes along.
- 5) Coffee Creek- Originally proposed as 271 single family lots; according to Jason Dose, currently proposed as 365 single family lots and a neighborhood park
 - 6) Bayview Terrace- Proposed 240 single family lots and outdoor amenity space to include trails and parks.

Interaction of Supply & Demand

The supply and demand factors in the subject's market indicate that the market is currently in balance to slightly undersupplied. Building has consistently been below projected housing needs, even prior to the restrictions being in place. However, population growth has been a little below the growth projections used to calculate the housing needs. Employment is now stronger than it was prior to the pandemic and wage growth continues to outpace state averages. Should these fundamental demand drivers remain strong, it is likely the demand for housing will rebound as construction delays, construction costs, and interest rates begin to decline.

A cloud of economic uncertainty still looms over smaller, tertiary markets that are more susceptible to downturns. While investment still lags in the Shelton market, several businesses that delayed opening during the pandemic have since opened or are moving forward with opening, plus a few others. The impact of high inflation and high interest rates, and general economic uncertainty, shows in the residential market. In the last three months, months' supply of inventory has doubled, or almost doubled. The median sale price has flattened in the last 12 months. The median sale price in Shelton actually dropped slightly below that of Mason County.

Multifamily

There is minimal movement in the multifamily segment with a developer that had planned triplexes changing those to single family units due to what was considered onerous building requirements for the multifamily units. Vacancy data from multiple reporting sources, but with emphasis on area leasing agents, implies that the rental market is slightly undersupplied. Rent data shows rents in Mason County, including downtown Shelton, are significantly lower than surrounding areas. This further supports the idea that the market is likely only slightly under supplied or balanced, given income and employment in Shelton. New inventory that has delivered to market in the last twelve months has spiked vacancy in Mason County, but that will likely return to the historical average as the market absorbs the units and no units are currently in the pipeline. Continued strength in the underlying economic demand drivers and state requirements for a wider variety of housing types, driven by the Growth Management Act, will likely encourage development of duplexes, triplexes, and small multifamily developments in the Shelton market.

Conclusions

The only commercial development the subject would likely support would be a low intensity, neighborhood serving commercial use, such as a daycare. However, given the minimal growth expected in the 2-mile radius in the near term, it is unlikely the market would currently support such a use in a largely established residential neighborhood.

Current restrictions on new residential development and the likely requirement of increased connection fees for new development that requires extension or expansion of existing water service

capacity will likely slow development in the near term. Higher vacancy due to new multifamily units delivered across Mason County and the lack of multifamily building permit applications indicates the market is likely in a holding pattern, waiting to see how higher inflation and interest rates, and broader economic uncertainty, affect demand. Market participants report that the residential market is likely in balance to only slightly undersupplied. It is expected that demand is adequate to begin building once new entitlement requirements are finalized. However, developers will likely slow delivery of new inventory to ensure demand is great enough to justify higher costs. However, employment and income growth, should they remain above surrounding county and state averages, will drive demand in the medium term. Building permit applications have been below what is needed to meet projected demand. Population growth has also been slightly below projections. That is likely factor in the downsizing and timing of phases of currently planned development. The subject, since according to Mr. Dose it would be easier than most to subdivide into three or four lots and would not be subject to current development restrictions, would be more desirable than many larger vacant lots in the Shelton development area (city limits and UGA).

Should the economy continue to recover from the Covid-19 pandemic and subsequent inflation and interest rate hikes, population growth will likely begin to pick up in Mason County. Single family development in the Shelton city limits has lagged behind the rural areas of the county. According to Jef Conkling, a longtime broker, appraiser, developer, and investor in the county, this is due to the relatively high cost to develop inside the city limits. There is a large portion of the Shelton UGA, just northeast of the subject, that is planned and under option for development. That could drive demand for neighborhood service commercial use but would be prime competition for residential uses. However, the subject's relative ease to subdivide, access to existing utilities, and ease of development mean that it would likely be able to be developed well before the land to the northeast.

The sale of the old Shelton Bank building, the former Smokin' Mo's site at the corner of Railroad and 2nd Street, gives indication of the change in the market that occurred from early 2020 to early 2022. The site first sold, after Smokin' Mo's vacated, in 2020 for \$355,000. The property sold within 7 days to an absentee investor. After not being able to tenant the restaurant building during the pandemic, the absentee investor relisted the property in October of 2021. The property took two months to go pending and over four months to close, at \$460,000 or 94% of asking price. That represents a 29.6% appreciation in less than two years, for a well-outfitted, but vacant, restaurant with historical character and a prime location in the commercial core, but no parking or ability to provide drive-through or curbside service. This sale closed before interest rates increased over 200 basis points.

In August of 2020, the Evergreen Meadows Cannabis shop, a converted home on Pine Street at the edge of town, sold for \$399,999. The property sold at a 13% capitalization rate due to the tenant being a cannabis retailer; the higher capitalization rate was intended to account for the significantly above market rents and the risk associated with a cannabis retailer and that the cannabis permit conveys with the tenant, not the property. The tenant did, in fact, break the lease in 2021, and the property has been relisted, vacant, for \$339,999 and the property finally closed in June 2023 for \$225,000.

These two sales point to the challenges of the Shelton market. For well-appointed commercial properties on Railroad Ave and a small section of 1st Street, in the downtown commercial corridor, the risk is lower and there has been appreciation. But, there have been no sales since interest rates spiked. For properties with some functional obsolescence for their permitted uses, outside the primary commercial corridor, the risk of vacancy is much higher, sales

take longer, and especially with changing capital markets, appreciation is not guaranteed. This is strong indication of weak demand in the Shelton market.

The subject is vacant land, zoned to allow medium density, with few impediments to development, utilities in the road directly in front of the subject, and a transit stop directly in front. The subject is slightly more attractive for residential use, both due to the relative restrictions on commercial use (size and types of uses) and the Growth Management Act requirements to build a wider variety of ‘middle housing’. While the subject would require access be built through it, as well as stubbing in utilities and building minimal street frontage, it would not require approval or additional ‘option’ fees and time to connect to existing utilities. The largest challenges to development for the subject are the likely requirement to curb in access closer to the southern edge of the Northcliff frontage, and the awkward narrow angles at the southeastern corner and where the subject narrows between lots under separate ownership, fronting Holly Lane. These challenges will impact lot placement and may make the subject more marketable for duplex or triplex development for lots accessed from Northcliff Road. In a recent interview, Mr. Dose opined that the subject parcel, in theory, could feasibly, easily be divided into three lots, one single family fronting Holly Lane and two lots accessed from Northcliff that could support triplex development. Conversations with Mr. Dose and Mr. Conklin both implied that emergency services and the neighborhood would have concerns about any development with higher density. Recently built or sold duplexes in the market do indicate there is a market for these housing types. However, Mr. Dose stated any potential development would have to go through the pre-submission process to find out what would actually be approved.

The Covid-19 pandemic was unprecedented so long-term effects on the real estate market are unknown. Questions include: Will inflation spurred by the Covid-19 pandemic prove to be persistent? How high will the Fed raise interest rates to combat inflation? How long will high interest rate persist? What impact will higher inflation and interest rates have on the economy? What impact will they have on real estate sales? How will this impact rent payments? There are some signs that the unprecedented rent increases seen over the last two years have plateaued. Rents have even decreased in some markets or in some product types in primary and secondary markets. High interest rates have impacted sales in 2022 and especially in 2023. It was the opinion of some analysts at large real estate services firms, such as CBRE, Colliers, and Kidder Mathews in 2022 that persistent inflation and high interest rates will nudge up capitalization rates and investors will pull back from tertiary markets, such as Shelton. This does appear to be occurring in 2023.

There are some signs of market corrections across all property types. However, it is too early to predict the long-term impacts on real estate markets. Making any value predictions is speculative at this point but expect market participants to reevaluate their properties considering the changing situation. Proposed development in Shelton and its UGA imply there is still market demand for residential uses.

Highest and Best Use Analysis

"The reasonably probable and legal use of vacant land or an improved property that is physically possible, appropriately supported, and financially feasible, and that results in the highest value."¹⁰

Summarizing the above:

- The use must be *legal*.
- The use must be *physically possible*.
- The use must be *financially feasible*.
- The use must be *maximally productive* (highest net return to the land).

The definition above applies specifically to the highest and best use of the land. It should be recognized that in cases where a site has existing improvements, the highest and best use may very well be determined to be different from the existing use. The existing use will continue, however, unless and until the land value in its highest and best use exceeds the total value of the property in its existing use.

Application of the Highest and Best Use Criteria:

As Vacant

Legal Considerations:

The site is zoned NR, Neighborhood Residential. This zone allows for single-family, duplex, and triplex development, and well as small neighborhood-serving commercial use. The zone is most prohibitive of industrial uses. It should also be noted that the following development standards apply: All development is approved on a case-by-case basis that factors in utility capacity and impact of the density on surrounding uses; duplex and triplex development require minimum 7,500 SF lot size.

Physical & Locational Considerations:

Physical characteristics of a property that may impact the development of a site include the site's physical location, size, shape, topography, and/or location within a floodway or floodplain.

Size: 1.67 acres or 72,745 SF.

Shape: Irregular. The subject has multiple narrow angled 'corners' and a narrow 'neck' between the western and eastern edge of the parcel that impact the ability to fully utilize the site.

¹⁰The Dictionary of Real Estate, Sixth Edition, Page 109.

Topography: Level to sloping. The subject slopes where the larger, western portion of the site transitions to the smaller, more narrow, eastern portion, further complicating development in the center of the parcel.

Hazards: None noted.

Utilities: All utilities available in the street on both Northcliff and Holly. However, a small extension or review of capacity on Holly may impact development of the Holly side of the subject.

Location: The location provides for good access to transit and access to downtown and commercial and institutional nodes to the north.

Overall, the physical characteristics of the subject site are conducive to most uses allowed by zoning.

Financial Feasibility:

The financial feasibility test is a test of the ability of a potential property use to generate enough income to support the use. The following information are market indicators of the most financially feasible uses:

- Employment and Income growth are strong in Mason County.
- Building has not kept up with projected demand since projections were last published in 2016.
- Population growth has been slightly below projections since 2016.
- Several developments in the pipeline have not moved forward due to restrictions stemming from the City's concerns about water and sewer capacity.
- Those delays may have negatively impacted population growth.
- The subject has utility service directly in front of the portion fronting Northcliff Rd and the portion facing Holly Lane would only require a small extension, once improved. Any development fronting Northcliff would not require expansion or extension of utility service.
- The subject has access to transit services directly in front of the parcel on Northcliff.
- The subject has easy access to goods and services in the newer, larger Wallace Kneeland commercial node and the downtown core.
- Discussions with Jason Dose indicate the subject would be an easy, less expensive candidate for subdivision.

Maximally Productive:

Residential use emerges as the dominant use based on the legal, physical and financially feasible tests.

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Valuation Methods

Cost Approach

The Cost Approach is based on the understanding that market participants typically relate value to cost. In the Cost Approach, the value of a property is derived by adding the estimated value of the land to the current cost of constructing a reproduction or replacement for the improvements and then subtracting the amount of depreciation (i.e. deterioration and obsolescence) in the structures from all causes. Entrepreneurial profit and/or incentive may be included in the value indication.

Sales Comparison Approach

In the Sales Comparison Approach, an opinion of market value is developed by comparing properties similar to the subject property that have recently sold, are listed for sale, or are currently under contract to be sold.¹¹ The Sales Comparison Approach is most useful when a number of similar properties have recently been sold or are currently for sale in the subject property's market.

Income Approach

The Income Approach is based on the concept that an investor who purchases income-producing real estate is essentially trading present dollars for the expectation of receiving future dollars. The income capitalization approach consists of methods, techniques, and mathematical procedures that an appraiser uses to analyze a property's capacity to generate benefits (i.e., usually the monetary benefits of income and reversion) and to convert these benefits into an indication of present value.

Conclusion:

The Cost Approach is not utilized in this assignment. The Cost Approach is not applicable because the subject is unimproved land.

The Sales Comparison Approach has been completed. There were adequate comparable land sales to complete a credible Sales Comparison Approach. Overall, this is considered to be the procedure which most closely represents market attitude and decision making basis.

The Income Approach has not been completed. Undeveloped and unentitled land such as the subject is not generally purchased for its income generating potential.

¹¹ The Appraisal of Real Estate, Fifteenth Edition, (Appraisal Institute, Chicago, Illinois, 2020), page 351.

Land (or Site) Analysis – Scenario A

The direct sales comparison approach is usually the preferred methodology for developing a land value conclusion. When sales of similar parcels of land are not plentiful enough for the application of sales comparison, alternative methods such as the following, may be used.

- Allocation.
- Extraction.
- Subdivision development analysis.
- Land residual technique.
- Ground rent capitalization.

In this appraisal assignment, the sales comparison approach is the primary method which has been utilized. The most recent comparable land sales are shown in the following summary table. Each sale is then individually described; and is also presented in greater detail in the Comparable Market Data section of the report, including photographs, legal references, and other information.

Comparable Sales Search & Selection

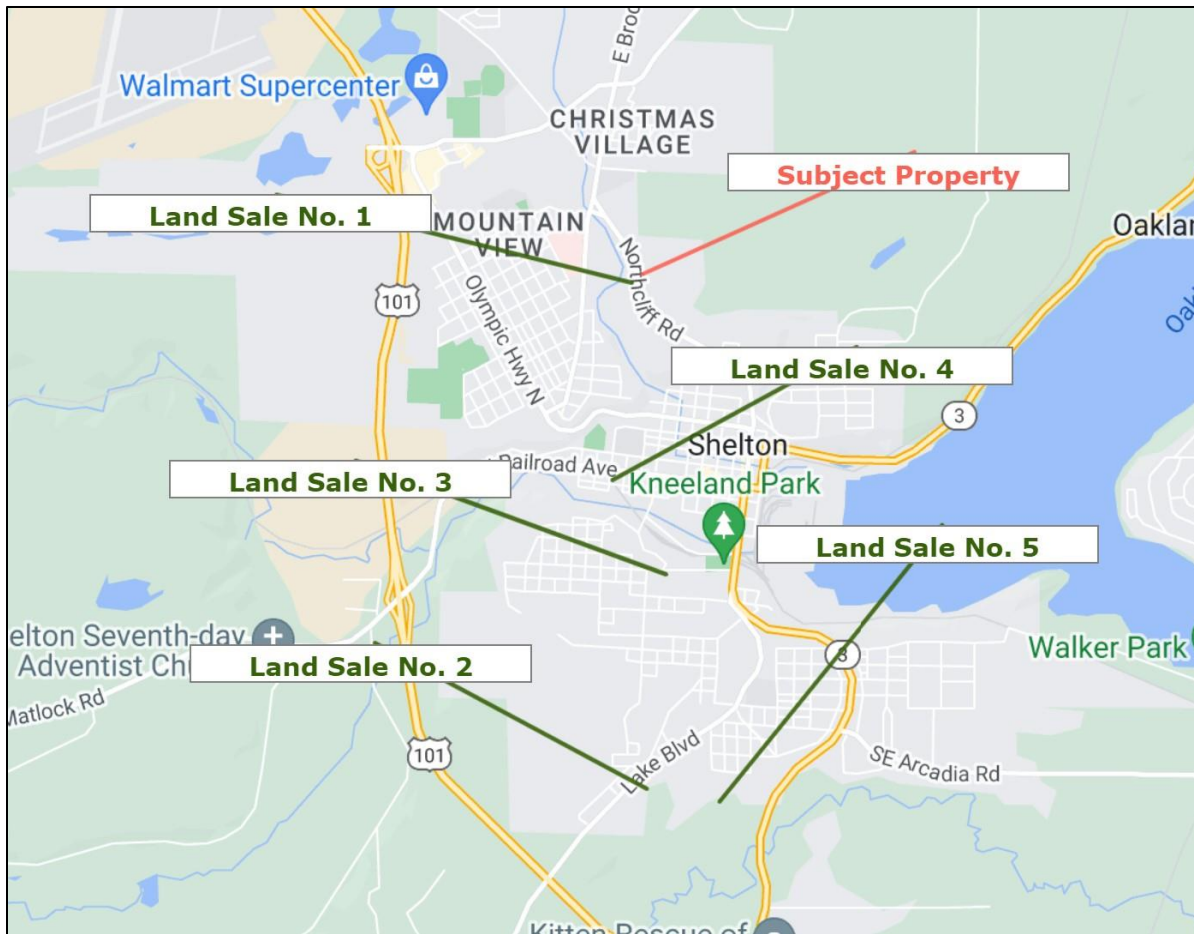
The search for comparable sales focused on developable residential land in the city limits and urban growth area of Shelton.

Unit of Comparison

The price per square foot is the primary unit of comparison. Most market participants utilize price per lot for single family land and price per supportable unit or price per square foot for land that allows multifamily development. The subject and all the comparable sales could reasonably support two to seven residences, either as single-family, duplex, or triplex units. Recent sales indicate that parcels marketed and purchased for the potential development of duplex or triplex units, ultimately got developed with single-family residences. Therefore, since the number of units is unknown for most of the sales, price per square foot is utilized herein.

Please note: This Sales Comparison Approach is based on the Hypothetical Condition that under this "A" scenario, the property maintains the entirety of the parcel, approximately 72,461 SF.

The table below is a summary of the best sale examples discovered--more information on each property is included in the Comparable Market Data section of the report. Confirmation of each sale has been obtained from buyer, seller, broker, or other parties believed to be knowledgeable about the details of the transaction, whenever possible. When direct verification was not possible, we have relied upon public records or similar data sources. A map, showing the location of pertinent sales, is shown below.



Land Sales						
	Subject	Sale # 1	Sale # 2	Sale # 3	Sale # 4	Sale # 5
Name	Northcliff Park Land	Northcliff Rd Land	Beverly Heights Land	Turner Ave Land	Cota Street Land	Delanty Rd Land
Address	1518 Northcliff Road	1441 Northcliff Rd	XXX Lake Blvd	XXX Turner Ave	928 W Cota St	410 E Delanty Rd
City	Shelton	Shelton	Shelton	Shelton	Shelton	Shelton
Sale Price	N/A	\$68,500	\$40,000	\$60,000	\$60,000	\$155,500
Date of Sale	N/A	4/9/2021	11/18/2022	5/19/2023	5/27/2023	6/30/2023
Adjusted Sale Price	N/A	\$68,500	\$40,000	\$110,000	\$60,000	\$155,500
Land Sq Ft	72,461	36,115	43,560	47,916	9,583	56,192
Price / SF of Land	N/A	\$1.89	\$.92	\$2.30	\$6.26	\$2.77
Land Acres	1.66	0.83	1.00	1.10	0.22	1.29
Price / Acre	N/A	\$82,530	\$40,000	\$100,000	\$272,685	\$120,543

Adjustments must be made for the following ten elements of comparison, which are listed below:

Real Property Rights Conveyed

The subject's fee simple rights are being appraised. All of the comparable sales were transactions of fee simple property rights. Thus, no adjustments are required.

Financing terms

All of the comparable transactions sold based on payment equivalent to cash or financing that was neither superior nor inferior to that which is obtainable in the market and thus no adjustment for financing is necessary.

Conditions of sale

Conditions of sale is an element of comparison that considers the motivation of the buyer and seller. None of the buyers or sellers were noted to be unduly motivated, thus, no adjustment is necessary.

Expenditures made immediately after purchase

A buyer that anticipates having to make an expenditure immediately after purchase will consider this expenditure when agreeing on a price to pay. Some of the sales may have required quantitative adjustments for expenditures made immediately after purchase such as for demolition. Those adjustments are included in the analyzed prices shown in the table above. Sale L-3 required extension of the utilities and an estimate, prior to the city's restriction on extension or expansion of utilities, had been obtained. The analyzed price includes the cost to extend water and sewer to the sale site.

Market conditions

The comparables sold over a period from April 2021 to June 2023. Market conditions for vacant rural residential land properties in Mason County had been relatively flat over the long term, but beginning in 2014, the rural residential market began an upcycle. More in depth analysis of sales over 2020 and 2021, sales transaction volume and the days on market point to signs of strengthening during the Covid-19 pandemic. However, sales transactions began to slow in 2021 and brokers in the market report buyers are more discerning about what land they are willing to buy. Market participants report that residential land inside Shelton city limits and the surrounding UGA has been stagnant due to the temporary restrictions put in place in the last two years on expansion of utility service and the higher cost to develop within city and UGA limits. Sale L-1 is the only sale to occur before interest rates spiked and construction costs proved to be stubbornly high. However, sale L-1 is across the street from the subject, has the same zoning, and also is not impacted by the restrictions on the expansion of utilities. Therefore, Sale L-1 requires an upward adjustment for market conditions.

Location

There are mild to moderate locational differences between the sales and the subject which are discussed with each individual sale below.

Physical characteristics

There are a number of physical characteristics that can affect the value of the comparable sales. The primary characteristics analyzed herein are access, utilities, size, critical areas, site coverage, topography, street frontage, and amenities such as views.

Economic characteristics

Economic characteristics include attributes of a property that directly affect its income. The economic characteristics of the sales are the same as the subject and require no adjustment.

Use/zoning

All sales were zoned for neighborhood residential use, allowing up to nine residences per acre, and allows single-family, duplex, and triplex development. The zoning (and/or entitlement) differences between the sales and the subject are discussed with each individual sale below.

Non-realty components of value

Non-realty components include personal property, business value, goodwill, and other items that are not considered part of the real property. While some of the properties reportedly had marketable timber, no timber cruises were provided, and none reported the timber being a factor in sale. Thus, no adjustment for non-realty components of value is necessary.

Sale L-1 (\$1.89/SF) is the April 2021 sale of a mostly rectangular shaped parcel on the west side of Northcliff Road. The 36,155 SF parcel had 11,000 SF on the western side impacted by Shelton Creek and the steep slope leading down to it. It did reduce the buildable area and likely would have impacted the ability to subdivide, since it was at the ‘back’ of the parcel, it did not impact the ability to get utilities to a building site or access to the building site. The creek and slope also provided an amenity in that it provided territorial views not available with most vacant lots. The parcel is zoned NR, Neighborhood Residential. Pre-development feasibility done for the purpose of marketing the property determined the site would support a triplex. The Seller’s Broker reported the property benefited from an easement that effectively added 2,070 SF along the southern border of the property. The easement was the result of the location of the fence of the neighbor to the south.

<u><i>Element</i></u>	<u><i>Rating</i></u>	<u><i>Comment</i></u>
Market Conditions	Inferior	Sold apprx 30 months prior to date of value
Location	Similar	Sale is across the street from subject
Access	Similar	Good frontage along Northcliff road, no built access onto property
Utilities	Similar	All utilities avail in road, not subject to restrictions
Size	Superior	Half the size of subject
Critical Areas	Similar	No impact from creek due to slope
Coverage	Slightly Inferior	Heavily treed
Topography/Shape	Inferior	Back 1/3 of site impacted by slope
Amenities	Slightly Superior	Sale has superior views with of slope and creek
Use/Zoning	Similar	NR zoning
Overall Rating	Inferior	This sale is inferior largely because of slope and older date of sale outweighing the smaller size and amenities.

Sale L-2 (\$0.92/SF) is the November 2022 sale of a three-parcel property, totaling 1 acre off Lake Boulevard, at the southern edge of the Shelton City limits. The triangular-shaped parcels are one block southeast of Lake Blvd and south of the intersection of Lake Blvd and Wyoming St but lacked access; City of Shelton utility maps identifies the undeveloped future road along the northwest border of the parcels as “Idaho Blvd” and marketing identifies a future “Arizona St” but the city has no plans to construct either road in the near term. Water and sewer are installed along Lake Blvd. One of the parcels was separated from the northern two by an undeveloped future alley. The parcels are heavily treed. The parcels are zoned NR but due to the lack of access and need to extend utilities, it is unlikely any development of the parcel will be approved in the near term, given the current restrictions and number of projects in pipeline waiting for connection approval. The Seller’s Broker stated there was healthy interest in the property until buyers began due diligence and discovered the restrictions on connections and requirements and time required to get connections approved. The property was on the market for over a year and was ultimately purchased by an adjacent neighbor for 80% of the original asking price.

<u>Element</u>	<u>Rating</u>	<u>Comment</u>
Market Conditions	Similar	Sold in November 2022, restrictions have largely stalled land market in town and UGA
Location	Slightly Inferior	Located at southern edge of town, farther from goods and services
Access	Inferior	No access w/no plans to build it
Utilities	Inferior	Water and sewer in Lake Blvd, extension not likely to be approved in near term
Size	Slightly Superior	~2/3 the size of subject, which tends to increase \$/SF
Critical Areas	Similar	Sale is not impacted by critical areas
Coverage	Slightly Inferior	Site is heavily treed
Topography/Shape	Slightly Superior	Site is not impacted by slope, triangular shape prevents full utilization of site, similar to subject
Amenities	Similar	Sale does not have creek or territorial views or other amenities that would drive value
Use/Zoning	Similar	Sale has same zoning
Overall Rating	Inferior	Sale is inferior mostly due to lack of access and unavailability of utilities, as well as significant tree coverage outweighing the smaller size and slight benefit from lack of slope. Sale has similar loss of area created by the triangular shape.

Sale L-3 (\$2.30/SF) is the May 2023 sale of a 1.1-acre parcel on the south side of Turner Ave, south of downtown Shelton. The parcel is bisected by an undeveloped alleyway running east to west. Water and sewer service end 450' to the east and 600-650' to the east, essentially leaving the undeveloped block of Turner Ave without utility service. The same buyer purchased seven other vacant parcels on the block at the same time, creating an almost six-acre contiguous, flag shaped property along Turner, 7th, and Harvard Ave. Similarly shaped and sized portions of blocks in the neighborhood have been short platted into as many as nine lots. However, most are subdivided into five or six lots. This sale is one of the only two openly marketed parcels in the sale. The property was one of two that did not have utilities already in the street in front. The Seller's Broker had worked with the owner on feasibility work done prior to marketing. The cost to extend utilities to the site, before the city council instituted the restrictions on utility extension, was \$50,000-\$60,000. The site slopes from northeast to southwest. A much smaller parcel on the southern side of this sale, owned by the same seller and marketed by the same broker, was purchased for the purpose of storm water management for the larger development. The Seller's Broker knew the buyer intended to subdivide but did not know what the buyers exact plans were. There are no plans current in pre-submission with the city. Since the other parcels that were part of the assemblage of this sale were not openly marketed, they are discussed in the Additional Market Data section at the end of comparable sale write-up.

<u>Element</u>	<u>Rating</u>	<u>Comment</u>
Market Conditions	Similar	Sold approximately 2 months prior to date of value
Location	Similar	Sale property is south of downtown Shelton
Access	Similar	Direct frontage, no developed access, less than 1 block from transit
Utilities	Slightly Inferior	Even with the known cost to extend utilities before the restrictions is added, the uncertainty of getting approval and the additional cost to purchase a 'claim' is inferior to subject
Size	Slightly Superior	Sale is apprx 2/3 size of subject, which tends to increase \$/SF
Critical Areas	Similar	Sale is not impacted by critical areas
Coverage	Slightly Inferior	Sale is heavily treed
Topography/Shape	Similar	Sale is more impacted by slope but rectangular shape allows greater utilization of site
Amenities	Similar	Sale does not have particularly desirable views amenities that drive value
Use/Zoning	Similar	Sale has same zoning as subject
Overall Rating	Slightly Inferior	The sale is slightly inferior largely due to the lack of utilities. The more significant slope is mitigated by the stable soils and the ability to fully utilize the parcel due to its rectangular shape.

Sale L-4 (\$6.26/SF) is the May 2023 sale of a 0.22-acre two-parcel property located on W Cota St at the western edge of downtown. The property is bisected by a defunct, vacated rail line, now owned by the City of Shelton, which plans to build a multimodal trail through town. The future trail effectively cuts off the .02 acres at the corner of Cota St and 10th Ave, leaving .2 acres northeast of the trail as usable area. The site has rear alley access which mitigates the loss of frontage on Cota and 10th. Utilities are available both along Cota and 10th Ave. The parcel is zoned for neighborhood residential use. The property just to the east was redeveloped into a triplex in the early 2010s.

<u><i>Element</i></u>	<u><i>Rating</i></u>	<u><i>Comment</i></u>
Market Conditions	Similar	Sold two months prior to date of value
Location	Superior	Sale is located in the downtown core
Access	Similar	Road frontage is impacted by location of future trail but has alley access that mitigates the impact
Utilities	Similar	Utilities are available and would not be impacted by the city imposed restrictions
Size	Highly Superior	Parcel is 1/8 size of subject, would still allow triplex development
Critical Areas	Similar	Sale not impacted by critical areas
Coverage	Similar	Sale is mostly cleared with only a few trees remaining
Topography/Shape	Slightly Superior	Sale is level
Amenities	Similar	Sale has a public use trail through the front yard, possibly adding an amenity but reducing privacy; subject has bus stop, but more room to create buffer
Use/Zoning	Similar	Sale has same zoning as subject
Overall Rating	Superior	This sale is superior due to the small size with zoning that allows duplex or triplex development, as well as location close to downtown, outweighing the public use trail going through the front yard. The loss of developable area is similar to the loss in the subject due to odd angles and slope.

Sale L-5 (\$2.77/SF) is the June 2023 sale of a 1.29-acre parcel at the southern terminus of Delanty Rd, just south of the Shelton city limits. The square shaped parcel had been cleared and had the driveway installed. It is outside the city of Shelton utility service area but had a well and a 6-bedroom septic installed. Permits for the well and septic that would allow development of a duplex were first filed before the last recession and again in early 2020. The sellers moved forward with installation of the well and septic, but never moved forward with development of the duplex. The buyer intended to move forward with building a duplex. The site was in the UGA and zoned for neighborhood residential.

<u>Element</u>	<u>Rating</u>	<u>Comment</u>
Market Conditions	Similar	Sold approx. 1 mo prior to date of value
Location	Slightly Inferior	Located outside the city limits, south of the city, farther from goods and services
Access	Slightly Inferior	At terminus of paved rural residential road with driveway installed
Utilities	Similar	No water/sewer service but had well and septic installed
Size	Slightly Superior	Sale is smaller than subject
Critical Areas	Similar	Sale not impacted by critical areas
Coverage	Similar	Large, cleared area, trees remain around parcel boundaries
Topography/Shape	Slightly Superior	Gentle slope affects only southeastern corner of parcel and shape would allow maximum utilization and slope would not prevent dev.
Amenities	Similar	Sale has similar views and amenities that drive value
Use/Zoning	Similar	Sale has same zoning as subject, but entitlement work makes the sale build ready, but limits density
Overall Rating	Similar	Sale is basically similar to subject because the entitlement work makes the sale build ready but limits density. The sale property is farther from goods, services, and transit than the subject.

Additional Market Data: The six parcels that totaled approximately 4.5 acres along Turner Ave, 7th St, and Harvard Ave all sold within two days of sale L-3, to the same buyer. These parcels were owned by two separate owners and were not openly marketed. All of the purchased parcels were undeveloped and heavily treed. The two parcels that fronted 7th had utility service in the street directly in front; the parcel that fronted Turner Ave was similar to sale L-3. The 3.3-acre combined property owned by the Manke family sold for \$250,000, or \$1.74/SF.

The other three parcels, totaling 1.22 acres that fronted Harvard Ave sold for \$110,000, or \$2.06/SF. These three parcels had utility access in the road. There was a single-family residence in the parcel to the east. Given that sale L-3 sold at the same time, to the same buyer, was of similar size, but did not have utility service and it was uncertain when utility service could be established, these sales support the adjusted sale price for L-3. Sale L-3 would likely be slightly more desirable due to the lack of development and unlikelihood of development across Turner from the parcel.

Conclusion

The goal of the sales comparison approach is to select the most comparable market sales and then adjust for differences that cannot be eliminated within the selection process. Elements of comparison include property rights conveyed, financing terms, conditions of sale (motivation), expenditures made immediately after purchase, market conditions (time), location, physical characteristics (e.g. size, soils, access, shape, frontage, topography), economic characteristics, use (zoning), and non-realty components.

The actual adjustments may be quantitative, where precise dollar or percentage adjustments can be developed from market evidence, or qualitative, where the adjustments may be simply an acknowledgement of a property's superiority or inferiority. In this appraisal, due to the lack of sufficient market evidence with which to support quantitative adjustments, we have utilized a qualitative adjustment process known as "relative comparison analysis", also referred to as "bracketing analysis".

In the following table is a representation of the qualitative adjustment and comparison process, in an effort to estimate a supportable value range for the subject site. It also represents the sequence in which adjustments are made, if necessary, and applicable. Please note that "plus" or "minus" adjustments shown are relative; for example, a physical adjustment may carry more weight than adjustments made to other elements of comparison.

Land Sale Adjustment Grid												
Adjustments*	A	B	C	D	E	F	G	H	I	J	</>	Price/SF
Sale 1	0	0	0	0	++	0	0	0	0	0	>	\$1.89
Sale 2	0	0	0	0	0	+	+++	0	0	0	>	\$0.92
Sale 3	0	0	0	0	0	0	+	0	0	0	>	\$2.30
Sale 4	0	0	0	0	0	--	----	0	0	0	<	\$6.26
Sale 5	0	0	0	0	0	+	-	0	0	0	~	\$2.77
<i>*A=Rights Conveyed; B=Financing Terms; C=Sale Conditions; D=Expenditures; E= Market Conditions F=Location; G=Physical Characteristics; H=Economic Factors; I=Use (Zoning); J=Non-Realty Components Note: + Symbol means inferior to subject or upward adjustment; - Symbol means superior to subject or downward adjustment; > Symbol means "greater than"; < Symbol means "less than"</i>												

Following the comparison and adjustment process, a refined value range of approximately \$2.30/SF to \$2.77/SF was indicated.

The subject is most similar to Sales L-1, L-3 (adjusted for the cost to extend utilities), and L-5. Sale L-2 is virtually undevelopable in the near term and was not purchased for development, but to prevent development. Sale L-4 is significantly smaller than the subject and downtown. So, while it had similar public access directly in front and the highest and best use was similar, the size makes it difficult to compare directly to the subject. Sale L-4 represents the top of the comparable land market.

Sale L-1 is across the street from the subject, had similar zoning, and similar utility access. Sale L-1 is half the size of the subject and it has an even smaller usable area due to slope at the western end of the parcel. While buyers will typically pay more per square foot for smaller parcels, this relationship is strongest for parcels that support the same development. Vacant land sales of parcels greater than 1 acre, those that can reasonably be subdivided into multiple single family or

possibly duplex lots, have not seen the same degree of correction that parcels between .5 and 1 acre have seen.

Sale L-3, even once it is adjusted for the cost to extend utilities (before the restrictions were put in place) has uncertainty on the timing and additional expenses to provide utilities to the site and subdivide it. It was also part of a larger assemblage of property. The slope impacts this parcel more than the others in the larger sale, meaning it is possible there would only be six units/lots rather than eight on parcels less impacted. Sale L-5 is outside the city of Shelton utility area, but already had a well and septic installed, negating the uncertainty and expense of utility service. It also means the parcel is essentially 'build ready' for the buyer. However, the well and septic limited development to one duplex on land that could have supported approximately 10 units.

The subject could support more than 10 units, by size. However, based on discussions with Jason Dose, Senior Planner for the City of Shelton, the awkward corners, slope, emergency access requirements, and surrounding uses would likely limit the subject to four or five single family lots, at most, or one single family lot and two to three lots for duplex or triplex development. However, discussions with Mr. Dose indicated that the increased building requirements for triplex, and to a lesser extent duplex, development have limited smaller builders' interest in developing so-called 'middle housing'. Therefore, the subject would likely fall moderately above sale L-1, which sold two years ago for development of one single-family home and somewhat above sale L-3 which will likely support six to eight single family lots. The subject would likely be similar to L-5, which was build ready, but due to the well and septic in place, limited to lower density than the subject would likely support. The subject is a prime candidate to support duplex or triplex development, determined to be much needed in the market. However, builders' reluctance to build these units limits demand. The subject's relative ease of development would allow a builder to bring single family units to market much faster than those in the pipeline but would involve higher costs and a longer entitlement period than sale L-5. Therefore, the subject would likely fall above sale L-3 because it does not have the uncertainty and additional costs involving utility service, but similar to or only slightly below L-5 which is build ready for a duplex unit, lower density than the subject could support but no additional time or expense is required to build the duplex units.

We are of the opinion a value of approximately \$2.75/SF, was reasonably supported, as of the date of appraisal.

Summary, Land Value Conclusion:

$$(72,461 \text{ SF})(\$2.75 \text{ Per SF}) = \$199,268$$

Indication of Value by the Sales Comparison Approach [rounded to]

\$200,000

Land (or Site) Analysis – Scenario B

This assignment was to estimate the market value of the subject under the following scenarios:

A. Estimate the Fee Simple Interest of the property at 1518 Northcliff Road, Shelton, WA (Parcel 32018-65-00900) including the area estimated to be within the fence line of the adjoining property 705 Holly Lane, Shelton, WA (Parcel 32018-65-00037).

B. Estimate the Fee Simple Interest of the property at 1518 Northcliff Road, Shelton, WA (Parcel 32018-65-00900) under the Hypothetical Condition that the area estimated to be within the fence line of the adjoining property 705 Holly Lane, Shelton, WA (Parcel 32018-65-00037) is no longer part of parcel 32018-65-00900.

C. $A - B =$ Implied Value of Subject 2,019 SF Portion of Parcel 32018-65-00900.

Scenario A: For scenario A, the value of the subject was estimated via a Sales Comparison Approach which resulted in a value indication of \$200,000 for the unimpaired property.

Scenario B: In scenario B, the subject is losing approximately 2,019 SF of site area. The loss does not effectively change the clearance, or width across the narrow portion of the parcel, connecting the Holly Lane facing portion to the Northcliff facing portion. This area is also affected by slope and would likely be an issue for emergency service, even without the loss of site area. Thus, making it most likely the Holly Lane portion would be subdivided as a single family lot with access from Holly Lane. The loss of site area may impact placement of improvements on the site and reduce the size of any resulting yard area but would not effectively change the likely development potential of the overall parcel. Thus, the same estimated value of \$2.75 per square foot as already estimated for scenario A is applied to parcel 32018-65-00900's size in scenario B.

Summary, Land Value Conclusion:

$$(70,442 \text{ SF})(\$2.75 \text{ Per SF}) = \$193,716$$

Indication of Value by the Sales Comparison Approach [rounded to]	<u>\$194,000</u>
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Scenario C: This is the estimated value from Scenario A minus the estimated value from Scenario B.

$$\$200,000 \text{ (Scenario A Value)} - \$194,000 \text{ (Scenario B Value)} = \$6,000$$

Indication of Value [rounded to]	<u>\$6,000</u>
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Reconciliation of Value Indications – Scenario A

Three independent approaches to value were considered by the appraisers. The resultant value indications were:

Cost Approach	Not Completed
Sales Comparison Approach	\$200,000
Income Approach	Not Completed

The Sales Comparison Approach provides a meaningful indication of value when:

- The amount of available market data is adequate.
- The relative advantages and deficiencies of the property being appraised and the comparative sale properties are not too extensive and have been correctly weighed.

The Sales Comparison Approach was a good indicator of value. All of the sales are from the general Shelton city limits or directly outside, in the UGA, and all were within two years of the date of value, and all the sales had the same zoning. However, there were some differences in size, location, and availability of utilities. Overall, the Sales Comparison Approach best reflects the analysis of the most likely buyer and is given all weight in reconciliation.

As a result of our investigations and analyses, it is our opinion that the market value of the identified interest in the subject real property, as of July 17, 2023, was:

Two Hundred Thousand Dollars

(\$200,000).

Reconciliation of Value Indications – Scenario B

Three independent approaches to value were considered by the appraisers. The resultant value indications were:

Cost Approach	Not Completed
Sales Comparison Approach	\$194,000
Income Approach	Not Completed

The Sales Comparison Approach provides a meaningful indication of value when:

- The amount of available market data is adequate.
- The relative advantages and deficiencies of the property being appraised and the comparative sale properties are not too extensive and have been correctly weighed.

The Sales Comparison Approach was a good indicator of value. All of the sales are from the general Shelton city limits or directly outside, in the UGA, and all were within two years of the date of value, and all the sales had the same zoning. However, there were some differences in size, location, and availability of utilities. Overall, the Sales Comparison Approach best reflects the analysis of the most likely buyer and is given all weight in reconciliation.

As a result of our investigations and analyses, it is our opinion that the market value of the identified interest in the subject real property, as of July 17, 2023, was:

ONE HUNDRED NINETY-FOUR THOUSAND

(\$194,000).

Certification

We certify that, to the best of my knowledge and belief,

- The statement of fact contained in this report are true and correct.
- The reported analyses, opinions and conclusions are limited only by the reported assumptions and limiting conditions, and are our personal, impartial, and unbiased professional analyses, opinions, and conclusions.
- We have no present or prospective interest in the property that is the subject of this report, and we have no personal interest with respect to the parties involved. We have not performed any services regarding the subject property within the three years preceding acceptance of this assignment.
- We have no bias with respect to the property that is the subject of this report or to the parties involved with this assignment.
- Our engagement in this assignment was not contingent upon developing or reporting predetermined results.
- Our compensation for completing this assignment is not contingent upon the development or reporting of a predetermined value or direction in value that favors the cause of the client, the amount of the value opinion, the attainment of a stipulated result, or the occurrence of a subsequent event directly related to the intended use of this appraisal.
- Our analyses, opinions, and conclusions were developed, and this report has been prepared in conformity with the requirements of the Uniform Standards of Professional Appraisal Practice.
- We have made a personal inspection of the property that is the subject of this report.
- Alison D. Snodgrass, License # 21018996, provided significant professional assistance to the person(s) signing this report.
- The use of this report is subject to the requirements of the Appraisal Institute, relating to review by its duly authorized representatives.



Derek R. Jolliff, MAI*

*As of the date of this report, I have completed the requirements of the continuing education program of the Appraisal Institute.

Appraiser's Qualifications

Derek R. Jolliff, MAI

Experience:

- **Appraiser**, Anderson Appraisal, Inc., Olympia, Washington
- **Appraiser**, Capital Valuation Group, Salem, Oregon 1/06 – 10/10

Over a decade of appraising various property types, including office, retail, industrial, multifamily, institutional, vacant land, easements, subdivisions, special use and agricultural properties.

Education:

Western Washington University, Bellingham, Washington (BA - Business Administration)

Appraisal Education:

Successful completion of the following appraisal courses/seminars:

Appraisal Institute Courses:

- "Basic Appraisal Procedures"
- "Basic Income Capitalization"
- "Real Estate Finance Statistics and Valuation"
- "Report Writing and Valuation Analysis"
- "Evaluating Commercial Construction"
- "Litigation Appraising: Specialized Topics and Applications"
- "Appraising Convenience Stores"
- "Fundamentals of Separating Real Property, Personal Property, & Intangible Assets"
- "Advanced Sales Comparison and Cost Approach"
- "General Appraiser Report Writing and Case Studies"
- "General Appraiser Market Analysis and Highest and Best Use"
- "General Appraiser Site Valuation and Cost Approach"
- "General Appraiser Sales Comparison Approach"
- "Advanced Income Capitalization"
- "Advanced Applications"
- "Uniform Appraisal Standards for Federal Land Acquisitions: Practical Applications"

Matthew Larabee:

- "Case Studies in Income Property Appraisal"

McKissock Appraisal Education:

- "USPAP - Uniform Standards of Professional Appraisal Practice"
- "Appraisal of Assisted Living Facilities"
- "Appraisal of Self-Storage Facilities"

International Right of Way Association:

- "Appraisal of Partial Acquisitions"
- "Easement Valuation"

American Society of Farm Managers and Rural Appraisers

- "Advanced Rural Case Studies"
- "Introduction to the Valuation of Permanent Plantings"

Business and Professional Organizations:

Member, Appraisal Institute (#468211)

Washington State Certified General Real Estate Appraiser (#1101978)

Appraiser's Qualifications

Alison Snodgrass

Experience:

Appraisal Assistant, Anderson Appraisal, Inc., Olympia, Washington
January 2021-Present

Business Manager, ProBuild Construction, Tacoma, Washington
One year of experience estimating and procuring materials for small scale residential and assisted living remodeling projects in western Washington.

Real Estate Analyst, KLNb, Washington D.C.
One year experience in all aspects of valuation: due diligence, lease abstracting, market analysis, and financial modeling, using Argus DCF and Excel.

Real Estate Analyst Intern, The Equity Group, Colorado Springs, Colorado
Training in all aspects of valuation and development: due diligence, site selection, valuation, market analysis, and financial modeling, entitlements.

Education:

Georgetown University, Washington, D.C. (M.S.- Real Estate Development and Finance)
University of Colorado, Colorado Springs, CO- (B.S.- Finance)

Appraisal Education:

Successful completion of the following appraisal courses/seminars:

Georgetown University:

- "Foundations of Real Estate"
- "Foundations of Real Estate Finance"
- "Foundations of Real Estate Markets"
- "Foundations of Real Estate Law"
- "Foundations of Real Estate Accounting"
- "Construction Estimating and Procurement"
- "Lease and Negotiation"
- "Multi-Family and Affordable Housing"
- "Software for Real Estate Finance"
- "Urban Plan"

Argus:

- "Argus DCF"

Appraisal Institute Courses:

- "15-Hour Equivalent USPAP Course 2020-2021"
- "Basic Appraisal Principles"
- "Basic Appraisal Procedures"
- "Supervisory Appraiser/Trainee Appraiser Course"
- "Appraising Automobile Dealerships"

Business and Professional Organizations:

State Registered Real Estate Appraiser Trainee (#21018996)

Statement of Limiting Conditions and Assumptions

- One (or more) of the signatories of this appraisal report is a Member or Candidate of the Appraisal Institute.
- The legal description furnished the appraisers is assumed to be correct. Title to the property appraised in this report is assumed to be merchantable in the parties stated to be the owners. For the purpose of this report, the property is assumed to be free of liens and encumbrances.
- The information contained in this report, other than facts observable by a physical examination of the property, is from sources considered to be reliable, but such information is in no sense guaranteed.
- No responsibility is assumed because of matters of legal character affecting the property, such as title defects, encroachments, liens, and overlapping property lines. The appraisal is based on the premise that, there is full compliance with all applicable federal, state, and local environmental regulations and laws unless otherwise stated in the report; further that all applicable zoning, building, and use regulations and restrictions of all types have been complied with unless otherwise stated in the report; further, it is assumed that all required licenses, consents, permits, or other legislative or administrative authority (local, state, federal and/or private entity or organization) have been or can be obtained or renewed for any use considered in the value estimate.
- In computing values, various figures have been rounded off to the nearest significant amount, for the sake of clarity, in arriving at the valuation. The distribution of the total value between land and improvements applies only under the utilization of the property to its Highest and Best Use.
- Compensation for services is dependent only upon delivery of this report. The values found by the appraiser are in no way contingent upon the compensation to be paid for services.
- The Bylaws and Regulations of the Appraisal Institute require each Member and Candidate to control the use and distribution of each appraisal report signed by such Member or Candidate. Therefore, except as hereinafter provided, the party for whom this appraisal report was prepared may distribute copies of this appraisal report, in its entirety, to such third parties as may be selected by the party for whom this appraisal report was prepared; however, selected portions of this appraisal report shall not be given third parties without the prior written consent of the signatories of this appraisal report.
- This report is made in accordance with the Uniform Standards of Professional Appraisal Practice, adopted by the Appraisal Standards Board of the Appraisal Foundation.
- Improvements proposed, if any, on or off-site, as well as any repairs required are considered, for the purposes of this appraisal, to be completed in good and workmanlike manner according to information submitted and/or considered by the appraisers. In cases of proposed construction, the appraisal is subject to revision upon inspection of property after construction is completed. This estimate of market value is as of the date shown, as proposed, as if completed and operating at levels shown and projected.

- Any drawings and/or diagrams are for illustrative purposes only and are not drawn necessarily to scale and should not be construed as surveys or engineering reports.
- It is called to the reader's attention the fact that this report is delivered subject to the stipulation that neither all nor any part of the contents of this report shall be conveyed to the public through advertising, public relations, news, sales or other media, without the written consent and approval of the appraisers or review appraiser, particularly as to valuation conclusions, the identity of the appraiser or firm with which he is connected, or any reference to the Appraisal Institute or the MAI designation.
- The opinion of value, as set forth in this report, is based solely upon information available at and prior to the date of valuation, and no responsibility is assumed with respect to facts that may develop subsequent to such date and which might have a bearing on the opinion of value at the date noted as expressed herein.
- The appraisers and/or officers of Anderson Appraisal, Inc. reserve the right to alter statements, analysis, conclusion or any value estimate in the appraisal if there become known to us facts pertinent to the appraisal process that were unknown to us when the report was finished.
- It is assumed that the property which is the subject of this report will be under prudent and competent ownership and management; neither inefficient nor super efficient.
- The estimated market value, which is defined in the report, is subject to change with market changes over time; value is highly related to exposure, time, promotional effort, terms, motivation, and conditions surrounding the offering. The value estimate considers the productivity and relative attractiveness of the property physically and economically in the marketplace.
- The appraiser is not required to give testimony or appear in court because of having made the appraisal with reference to the property in question, unless arrangements have been previously made.
- The appraiser assumes no responsibility for hidden or unapparent conditions of the property, which would render it more or less valuable, and further assumes no responsibility for surveys or engineering which might be required to discover such factors.
- The above conditions include soil composition, drainage characteristics, load bearing capacity, seasonal or permanent water table elevation, seismic susceptibility, hazardous materials contamination (including, but not limited to hydrocarbons, PCB's, asbestos, radon, urea-formaldehyde foam insulation, pesticides, mold/mildew), radioactivity, emissions or disruptions caused from high voltage transmission lines, the location of underground facilities, illegal dumping, leaking underground storage tanks, and so forth.
- Unless otherwise stated in this report, the existence of hazardous material, which may or may not be present on the property, was not observed by the appraiser. The appraiser has no knowledge of the existence of such materials on or in the property. The appraiser, however, is not qualified to detect such substances. The presence of potentially hazardous

materials may affect the value of the property. The value estimate is predicated on the assumption that there is no such material on, in or around the property that would cause a loss in value. No responsibility is assumed for any such conditions, or for any expertise or engineering knowledge required to discover them. The client is urged to retain an expert in this field, if desired.

- The Americans with Disabilities Act (ADA) became effective January 26, 1992. The appraisers have not made a specific compliance survey and analysis of this property to determine whether or not it is in conformity with the various detailed requirements of the ADA.
- It is possible that a compliance survey of the property, together with a detailed analysis of the requirements of the ADA, could reveal that the property is not in compliance with one or more of the requirements of the Act. If so, this fact could have a negative effect upon the value of the property. Since the appraisers have no direct evidence relating to this issue, possible noncompliance with the requirements of ADA in estimating the value of the property has not been considered.
- Federal Government Regulations: The Federal Government has special requirements for appraisals to be utilized for some types of loans, resulting from Federal Financial Institutions Reform, Recovery and Enforcement Act of 1989. This appraisal was not written in accordance with FIRREA guidelines, unless so stated, in the letter of transmittal.
- Additional research, analysis, and report writing may be required because of the variety of standards and interpretations among certain financial institutions, and appraisal reviewers; and will be undertaken upon client request, at additional fees, for time and costs.
- Where the discounted cash flow analysis has been used it has been prepared on the basis of information and assumptions stipulated in this report. The forecasts, projections, or operating estimates contained herein are based upon current market conditions, anticipated short-term supply and demand factors, and a continued stable economy.
- The achievement of any financial projections will be affected by fluctuating economic conditions and is dependent upon the occurrence of other future events that cannot be assured. Therefore, the actual results achieved may well vary from the projections and such variation may be material.
- This appraisal was obtained from Anderson Appraisal, Inc. or related companies and/or its individuals or related independent contractors and consists of "trade secrets and commercial or financial information" which is privileged and confidential and exempted from disclosure under 5 U.S.C. 552(b)(4). Notify the appraiser(s) signing the report of any request to reproduce this appraisal in whole or in part.
- **APPRAISER LIABILITY EXTENDS ONLY TO STATED CLIENT, NOT SUBSEQUENT PARTIES OR USERS, AND IT IS LIMITED TO THE AMOUNT OF FEE RECEIVED BY THE APPRAISER FOR THIS REPORT. ACCEPTANCE OF AND/OR USE OF THIS APPRAISAL REPORT BY CLIENT OR ANY THIRD PARTY IS PRIMA FACIE EVIDENCE THAT THE USER UNDERSTANDS AND AGREES TO THESE CONDITIONS.**

Comparable Market Data

Land Sale No. 1



Property Name Northcliff Road Residential Land
Address 1441 Northcliff Road
City, State Zip Shelton, Washington 98584
County Mason
Location West side of Northcliff Rd in northeast Shelton
Tax ID 32018-58-03004
Property Type Multi-Family Land, Duplex and 3-4 Plex
Zoning Code NR, Neighborhood Residential

Comp ID No. 2567

Physical Characteristics

Land Size 0.83 acres or 36,155 SF
Utilities All typical utilities available in the road
Visibility Average
Site Comments steep slope on west 'back' one-third or so of the parcel down to Shelton Creek, referred to as "the Canyon"
Gas pipeline easement - Between gas line easement and slope, buildable area is focused on NE portion of site
~2,070 SF along the southern border of the parcel and the parcel just to the south determined to be an easement benefitting sale parcel because of the location of the southern neighbor's fence.

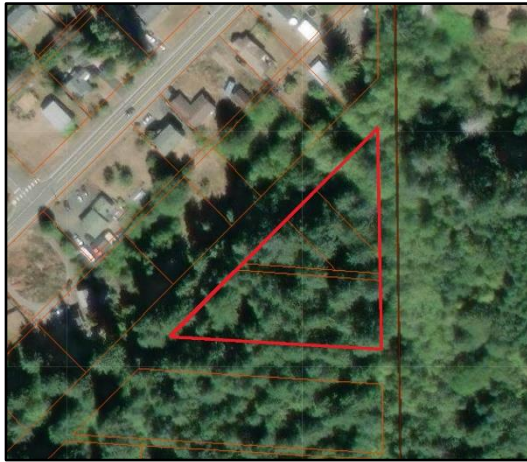
Recording Information

Sale Date 04-09-2021
Contract Price \$68,500
Adjusted Price \$68,500
Seller Robert & Kristina Johnson
Buyer EVG Northwest LLC
Property Rights Fee Simple Estate
Financing Cash to Seller
Market Time 7 days
Price/SF \$1.89
Price/Acre \$82,530
Sale Comments Seller had done initial feasibility and determined the parcel could support a triplex. Buyer was a developer/builder that built a single family on spec. Buyer knew the potential to build triplex, opted to build single family
Seller's Broker stated that the ~2,070 SF beneficial easement created because the neighbor's fence was well into their property line would not have changed the asking price at all because the zoning and surrounding single family uses allowed max of a triplex, the addition or subtraction of 2,000+/- SF would not have changed that.
Confirmed By Jef Conklin, Seller's Broker 360-280-0874

Recording No. 2154376

Comp ID No. 2567

Land Sale No. 2



Property Name	Beverly Heights Land	Comp ID No.	2568
Address	XXX Lake Boulevard		
City, State Zip	Shelton, Washington 98584		
County	Mason		
Location	Approx 1 block SE of Lake Boulevard, along the southern edge of Shelton city limit		
Tax ID	32030-51-12003, 32030-51-12001, 32030-51-12002		
Property Type	Multi-Family Land, Duplex and 3-4 Plex		
Zoning Code	NR, Neighborhood Residential		

Physical Characteristics

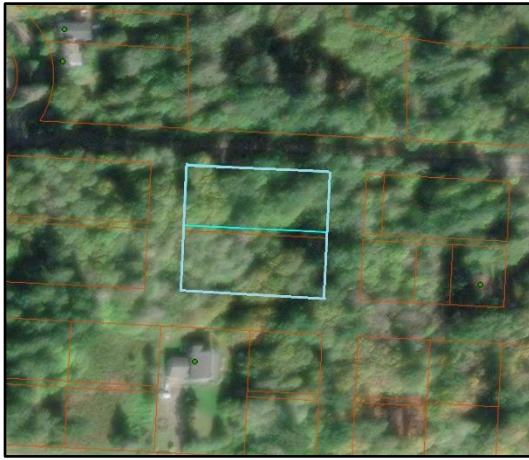
Land Size	1.00 acres or 43,560 SF
Visibility	Poor
Site Comments	Water, Sewer, and Power available in Lake Blvd. Would need to be extended ~\$40,000 and \$80,000, estimated by brokers in the market. Access would also need to be built. The City currently has no plans to construct proposed Arizona St that would run along east side or Idaho which would run parallel to Lake Boulevard on the northwest side of parcels. No critical area impact

Recording Information

Sale Date	01-20-2023	Recording No.	2190811
Contract Price	\$40,000		
Adjusted Price	\$40,000		
Seller	Leonard & Cynthia McConahey		
Buyer	Jaime Romero		
Property Rights	Fee Simple Estate		
Financing	Cash to Seller		
Market Time	60 days		
Price/SF	\$.92		
Price/Acre	\$40,000		
Sale Comments	Property was landlocked. There are indefinitely plans for a "future Arizona St" but the Seller's Broker did not know of any near term plans by the city to build the street. There is no address because there is no access. There is a vacated, but undeveloped alley between the two small triangular parcels and the larger parcel to the south. Seller's Broker stated there was a lot of interest until potential buyers checked with the County regarding development requirements. The requirements scared off buyers. There is currently a building moratorium in the city and UGA for any parcels that require extension of water and sewer due to city's concerns over ability to supply services. Seller's Broker stated there was a moratorium based on recently redone Lake Blvd. Buyer was the neighbor at the northwest corner of the sale property- Buyer has house at 2022 Lake Blvd. Long closing period, but all cash sale.		
Confirmed By	Jodie Guedon, Seller's Broker 360-589-9694		

Comp ID No. 2568

Land Sale No. 3



Turner aerial



PWW Dev assemblage

Property Name Turner Ave Land
Address XXX Turner Ave
City, State Zip Shelton, Washington 98584
County Mason
Location S side of Turner Ave in the Angleside neighborhood of Shelton
Tax ID 32019-56-02001
Property Type Multi-Family Land, Duplex and 3-4 Plex
Zoning Code NR, Neighborhood Residential

Comp ID No. 2571

Physical Characteristics

Land Size 1.10 acres or 47,916 SF
Visibility Average
Site Comments Utilities end 450' to west and 650' to east, would need to be extended
Parcel is bisected by a city planned, but undeveloped, alley that has been vacated in other parcels in the block
Site does have some slope but soils are stable

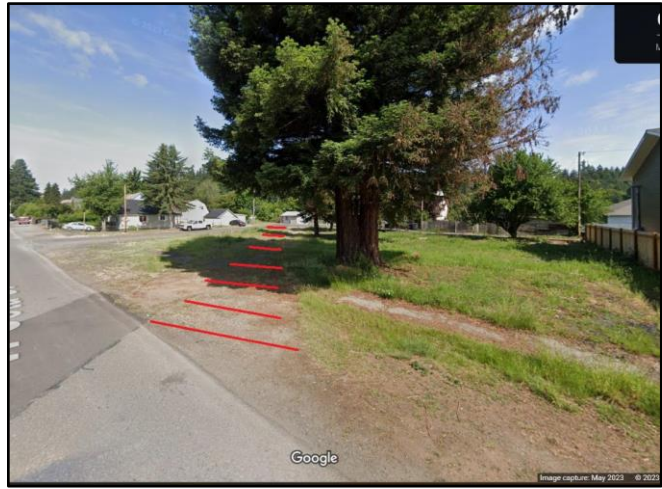
Recording Information

Sale Date 05-19-2023
Contract Price \$60,000
Adjusted Price \$60,000
Seller Cecilia Santodomingo
Buyer PWW Property Development
Property Rights Fee simple
Financing Cash
Market Time 45 days
Price/SF \$1.25
Price/Acre \$54,545
Sale Comments Buyer was a home builder, likely going to build single family or duplexes. However, water and sewer end approximately 450' to the west and/or 650' to the east and would need to be extended. A parcel on Harvard was purchased for stormwater retention for development on this sale. The buyer also purchased six other contiguous parcels off-market from two separate buyers. All transactions were filed within a few days of each other; the buyer assembled almost 6 acres in the combined purchases. This sale is the only property that would require utilities be extended. The purchase price of this sale is approximately equal to the similarly sized 3-parcel sale minus the cost quoted by the Seller's Broker to extend the utilities.
Confirmed By Don Sparks, Seller's Broker, 360-490-3008

Recording No. 2197308

Comp ID No. 2571

Land Sale No. 4



2023 Google Streetview w appr trail marked

Property Name Cota Infill Land
Address 928 W Cota St
City, State Zip Shelton, Washington 98584
County Mason
Location N side of Cota, at corner with 10th, western edge of downtown
Tax ID 32019-52-16005, 32019-52-16006
Property Type Multi-Family Land, Duplex and 3-4 Plex
Zoning Code NR, Neighborhood Residential

Comp ID No. 2572

Physical Characteristics

Land Size 0.22 acres or 9,583 SF
Utilities All typical public and private utilities are available
Visibility Average to good
Site Comments The site is bisected by a former rail line that is now owned by the city for the purpose of creating a trail. It effectively cuts off the corner at Cota and 10th, and creates a buildable area of approximately .2 acres with rear alley access. The site has all utilities available and is not impacted by critical areas. Zoning allows a triplex and the adjacent property to the east is a triplex, proving feasibility

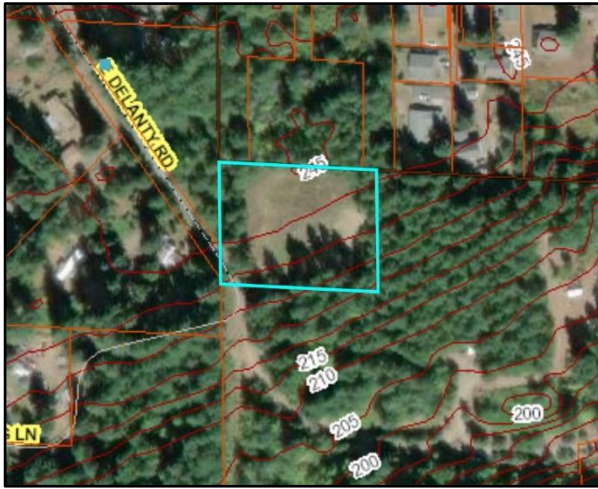
Recording Information

Sale Date 05-27-2023
Contract Price \$60,000
Adjusted Price \$60,000
Seller WOPO LLC
Buyer Ernesto Puebla
Property Rights Fee Simple Estate
Financing Cash to Seller
Market Time 27 days
Price/SF \$6.26
Price/Acre \$272,727
Price/Lot
Sale Comments Seller was a RE investor that had purchased the property in November 2022 for \$25,000 for potential development, but was able to sell at a profit without dealing with current development challenges. Seller's Broker did not know the buyer's intent
Confirmed By JC Nowacki, Seller's Broker 360-239-9270

Recording No. 2197618

Comp ID No. 2572

Land Sale No. 5



Property Name	Delanty Land	Comp ID No.	2573
Address	410 E Delanty Rd		
City, State Zip	Shelton, Washington 98584		
County	Mason		
Location	At terminus of paved Delanty Rd, just south of Shelton city limit in the SW part of town		
Tax ID	32030-14-00150		
Property Type	Multi-Family Land, Duplex and 3-4 Plex		
Zoning Code	NR, Neighborhood Residential		

Physical Characteristics

Land Size	1.29 acres or 56,192 SF
Utilities	Not available, well and septic installed
Visibility	Fair to Average
Site Comments	Site not impacted by critical areas, gentle slope, cleared, driveway installed drilled well and 6-bedroom septic installed, installed with plan to develop duplex

Recording Information

Sale Date	06-30-2023	Recording No.	2198933
Contract Price	\$155,500		
Adjusted Price	\$155,500		
Seller	Harold & Margarete Dohring		
Buyer	Marianne Wilson-Gumm		
Property Rights	Fee Simple Estate		
Financing	Equivalent to cash.		
Market Time	10 days		
Price/SF	\$2.77		
Price/Acre	\$120,544		
Price/Lot			
Sale Comments	Seller had plans to build duplex in 2010, delayed, again in early 2020, delayed again, both due to economic conditions, opted to sell rather than submit building permit application. Multiple offers, sold \$6,000 or 4% over asking price Buyer intended to move forward with duplex plans		
Confirmed By	Keith Fuller, Seller's Broker 360-490-3811		

Comp ID No. 2573

ANDERSON APPRAISAL, INC.

TELEPHONE (360) 943-8400 • EMAIL: derekj@andersonappraisalinc.com

P. O. BOX 2694 • OLYMPIA, WASHINGTON 98507

June 30, 2023

Dear Mr. Ostheller,

Please consider this letter to be our proposal. The appraisal will be completed in accordance with the most recent edition of Uniform Standards of Professional Appraisal Practice (USPAP).

Purpose of the appraisal: To estimate the market value of the subject property identified as that area of parcel 32018-65-00900 within the fence line of the adjoining parcel 705 Holly Lane, Shelton, WA (Parcel 32018-65-00037).

Intended use: To assist the client in the purchase of the subject property.

Methodology: A) Estimate the Fee Simple Interest of the property at 1518 Northcliff Road, Shelton, WA (Parcel 32018-65-00900) including the area estimated to be within the fence line of the adjoining property 705 Holly Lane, Shelton, WA (Parcel 32018-65-00037).

B) Estimate the Fee Simple Interest of the property at 1518 Northcliff Road, Shelton, WA (Parcel 32018-65-00900) under the Hypothetical Condition that the area estimated to be within the fence line of the adjoining property 705 Holly Lane, Shelton, WA (Parcel 32018-65-00037) is no longer part of parcel 32018-65-00900.

C) $A - B =$ Subject Value Indication

Intended users: Karl Ostheller. City of Shelton.

Client: Karl Ostheller.

Date of Value: Current.

Due date: Approximately (6) weeks from engagement.

Fee: \$2,500.

Reporting format: Appraisal Report. The report will be in narrative format.

Number of Copies: (1) Electronic Report.

Requested Information: Survey.

Contact Information:

Karl Ostheller

Email: kwostheller@gmail.com

If this scope meets your approval, please sign below and return. Thank you for the opportunity to provide this proposal, and we look forward to working with you.

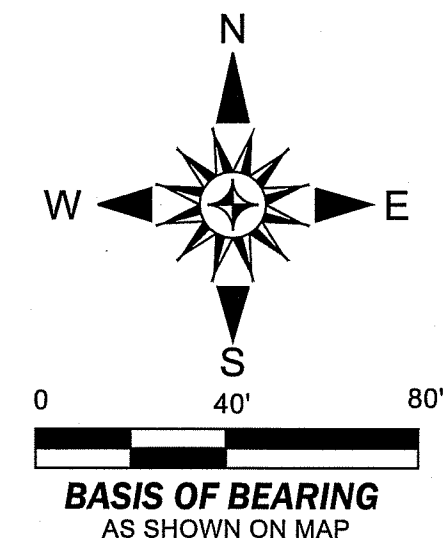


Authorized By:

Date:

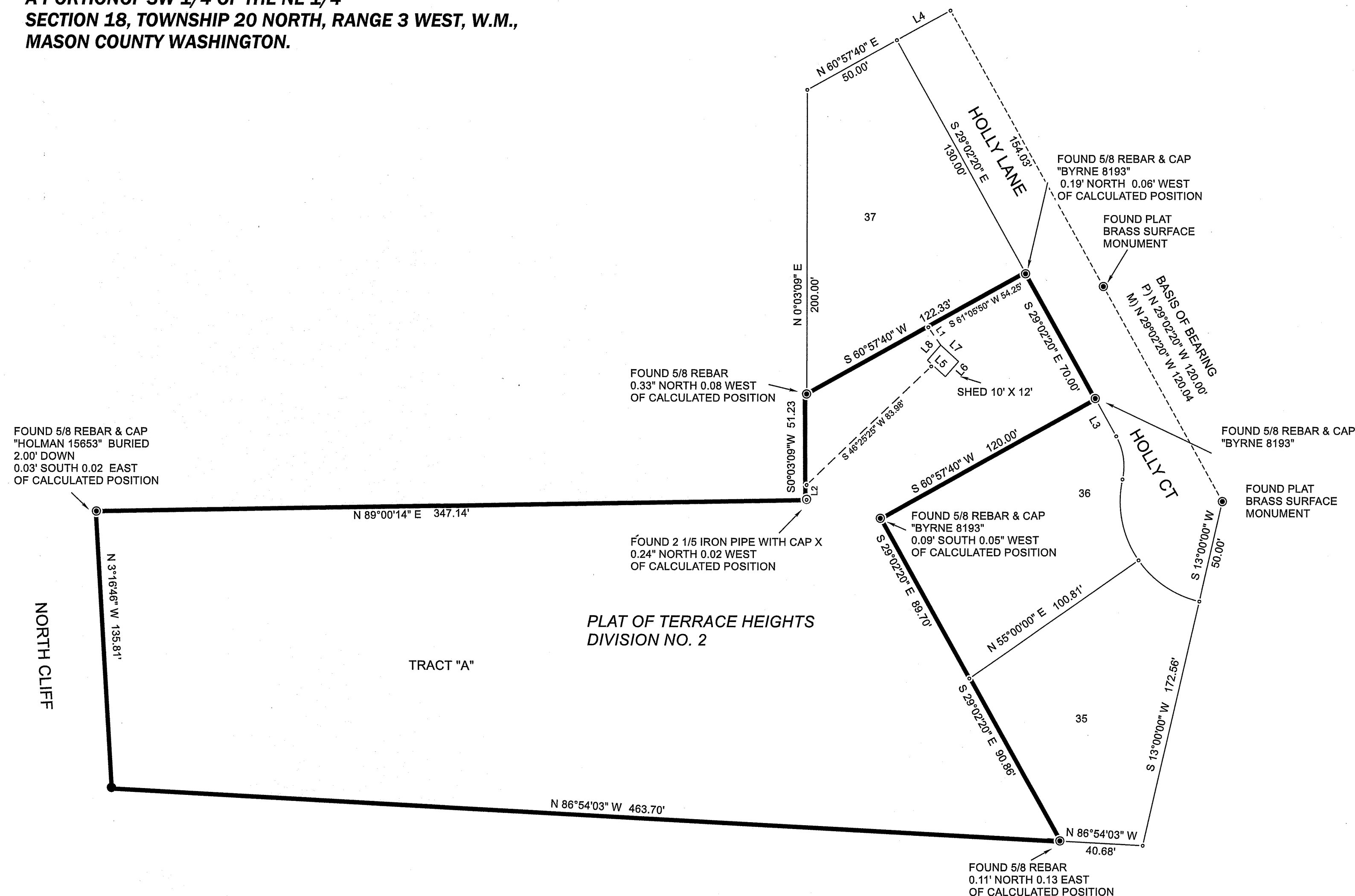
6/30/2023

RECORD OF SURVEY
A PORTION OF SW 1/4 OF THE NE 1/4
SECTION 18, TOWNSHIP 20 NORTH, RANGE 3 WEST, W.M.,
MASON COUNTY WASHINGTON.

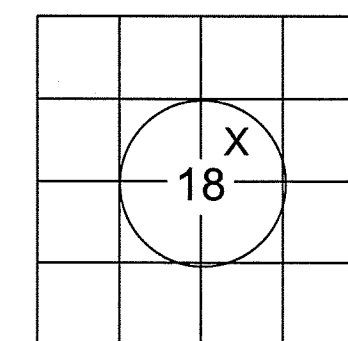


LEGAL DESCRIPTION
TRACT A, TERRACE HEIGHTS
DIVISION TWO, VOLUME 9 OF PLATS,
PAGES 162-163 COUNTY OF MASON,
STATE OF WASHINGTON

REFERENCE SURVEYS
PLAT OF TERRACE HEIGHTS
DIVISION TWO VOLUME 9 PAGE 162



LINE	BEARING	HORIZ DIST
L1	S34°49'18"E	10.58'
L2	S0°03'08"W	7.24'
L3	S29°02'20"E	21.12'
L4	N60°57'40"E	30.00'
L5	S47°37'48"E	11.80'
L6	N41°00'21"E	9.82'
L7	N47°37'48"W	11.80'
L8	S41°00'21"W	9.82'



SECTION 18
TOWNSHIP 20 NORTH
RANGE 3 WEST, W.M.

LEGEND

- FOUND AS NOTED ON MAP
- SET 5/8 REBAR WITH PLASTIC CAP "ROSE44654"
- CHAINLINK FENCE
- CALCULATED POSITION
- P) PLAT DIMENSION
- M) MEASURED DIMENSION

EQUIPMENT/PROCEDURE

NIKON DTM 322 TOTAL STATION AND CONTENTIONAL FIELD TRAVERSE
NOTE:
THIS SURVEY MEETS OR EXCEEDS THE ACCURACY STANDARDS SET FORTH IN W.A.C. 323-130-090
NOTE:
THIS SURVEY DOES NOT INTENDED TO SHOW ALL EASEMENTS WHICH MAY OR MAY NOT BE OF RECORD, CHEHALIS VALLEY ASSOCIATES MAKES NO WARRANTIES AS WHERE EASEMENTS MAY AFFECT PROPERTY RIGHTS

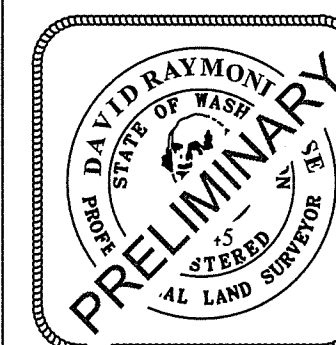
AUDITOR'S CERTIFICATE

FILED FOR RECORD THIS ____ DAY OF ____, 20__ AT ____
M, IN BOOK ____ OF SURVEYS AT PAGE ____
AT THE REQUEST OF DAVID RAYMOND ROSE
COUNTY AUDITOR ____

SURVEYOR'S CERTIFICATE

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE SURVEY RECORDING ACT AT THE REQUEST OF CITY OF SHELTON
AUGUST 2021

DAVID RAYMOND ROSE - LICENSE NO. 44645

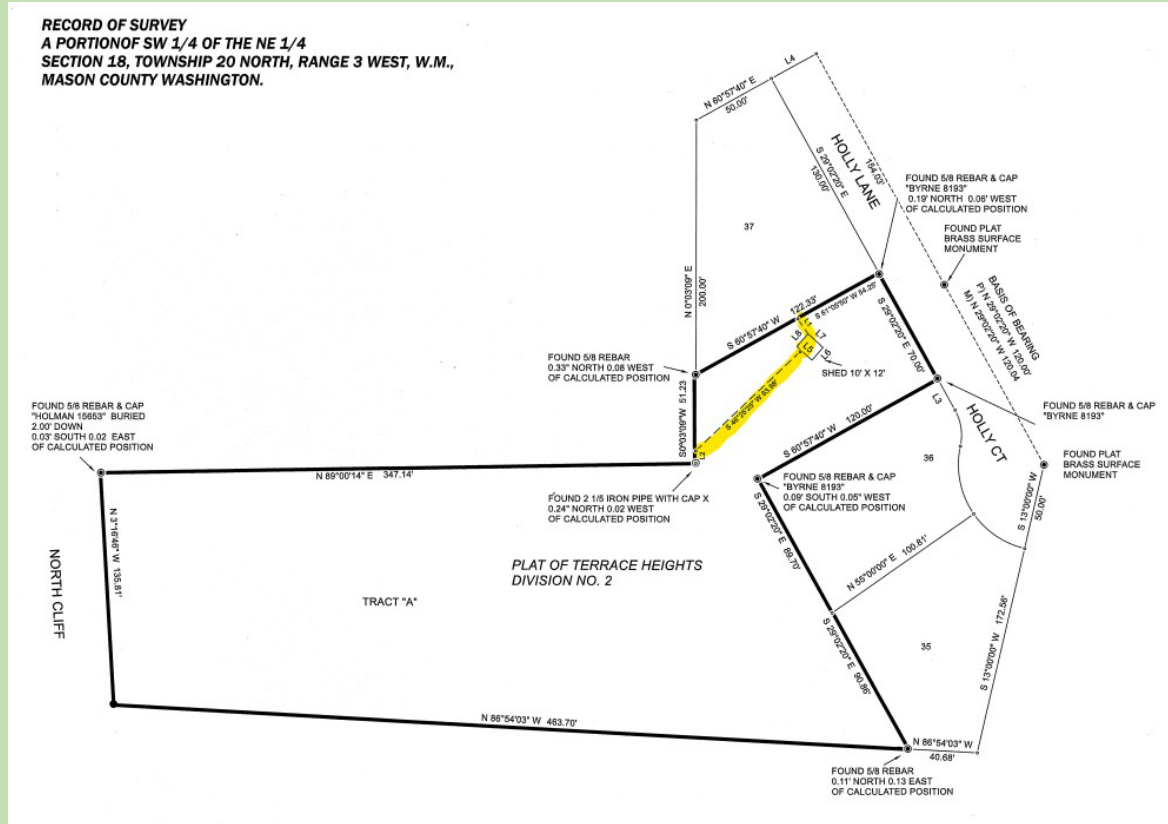


CHEHALIS VALLEY ASSC

PROFESSIONAL LAND SURVEYING
222 SE SNIDER RD
SHELTON, WA. 98584
(360) 427-8392
drsurveying@yahoo.com

DRAWN BY: JLVG	DATE: 08/16/2021	JOB NO. 2021-102
CHECKED BY: D. ROSE	SCALE: 1" = 40'	SHEET 1 OF 1
SW 1/4 OF NE 1/4	SECTION 18	TOWNSHIP 20 NORTH
		RANGE 3 WEST
		W.M.

Northcliff Neighborhood Park



Survey Map



Aerial View



CITY OF SHELTON COUNCIL BRIEFING REQUEST (Agenda Item F1)

Touch Date: 08/25/2023
Brief Date: 09/19/2023
Action Date: 10/03/2023

Department: Finance
Presented By: Mike Githens, Finance Director

APPROVED FOR COUNCIL PACKET:

Action Requested:

ROUTE TO:

REVIEWED:

PROGRAM/PROJECT TITLE:

**300-23 EFT Policy and
Procedures**

ATTACHMENTS:

**Resolution No. 1288-0823
Exhibit A**

☐ Dept. Head

☒ Finance Director

☐ Attorney

☒ City Clerk

☒ City Manager

8/25/23

8/28/23

8/28/23

☐

Ordinance

☒

Resolution

☒

Motion

☐

Other

DESCRIPTION OF THE PROGRAM/PROJECT AND BACKGROUND INFORMATION:

The City of Shelton recognizes and uses various electronic payment methods as safe and efficient ways to process certain payments. The policy and procedures provide a framework to ensure that proper protocols are followed, and that applicable oversight is in place for the use of electronic funds transfers.

ANALYSIS/OPTIONS/ALTERNATIVES:

The primary goal of the policy is to ensure that electronic funds transfers are initiated, executed, and approved in a secure manner.

BUDGET/FISCAL INFORMATION:

The use of electronic funds transfers, automated clearing house payments and wire transfers are typically a savings to the City over printing, processing, and mailing paper checks.

PUBLIC INFORMATION REQUIREMENTS:

Information can be obtained from the City Clerk.

STAFF RECOMMENDATION/MOTION:

A recommended motion is: "I move to approve Resolution No. 1288-0823 as presented."

RESOLUTION NO. 1288-0823

**A RESOLUTION OF THE COUNCIL OF THE CITY OF SHELTON, WASHINGTON,
ADOPTING AN ELECTRONIC FUNDS TRANSFER (EFT)
POLICY AND PROCEDURES**

WHEREAS, the City recognizes the use of various electronic payment methods as a safe and efficient method to process certain disbursements; and

WHEREAS, the City is committed to establishing controls and procedures for the utilization of electronic funds transfers (EFT's); and

WHEREAS, the City now desires to adopt an electronic funds transfer policy and procedures;

**NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF SHELTON,
WASHINGTON, DOES HEREBY RESOLVE AS FOLLOWS:**

Section 1. The "Electronic Funds Transfer (EFT) Policy and Procedures" attached hereto as Exhibit A and incorporated by reference, is hereby adopted for the City of Shelton. The City Council delegates to the City Finance Director the authority to make minor administrative changes to such policy, provided such changes are consistent with state and federal requirements.

PASSED AND ADOPTED by the City Council of the City of Shelton, Mason County, Washington at its regular meeting held on the 3rd day of October, 2023.

Mayor Eric Onisko

ATTEST:

City Clerk Donna Nault



POLICY AND PROCEDURE

SUBJECT: Electronic Funds (EFT)	GROUP: Financial Services	NUMBER: 300-23
EFFECTIVE DATE: October 4, 2023	SUPERSEDES: N/A	
PREPARED BY: Mike Githens	APPROVED BY: Mark Ziegler	

1.0 PURPOSE:

The City of Shelton recognizes the use of various electronic payment methods as a safe and efficient method to process certain disbursements. The City is committed to establishing controls and procedures for the utilization of electronic funds transfers (EFTs). This policy provides a framework for procedures to ensure that proper protocols are followed, and that applicable oversight is in place for the use of EFTs.

The primary goal of the policy is to ensure EFTs are initiated, executed, and approved in a secure manner. This policy establishes general guidelines for using EFTs including wire transfers for payables and receivables. The procedures outline what electronic funds transactions the City may engage in and the accounting procedures to be followed in accordance with RCW 39.58.750 and Washington State Auditor's requirements.

2.0 DEPARTMENTS AFFECTED:

Finance and Human Resources (primarily)

3.0 REFERENCES:

RCW 39.58.750

4.0 POLICY:

- 4.1 The City utilizes EFTs for receipt of intergovernmental payments, grant payments, and other revenues where practical, and the transmittal of payroll, withholdings, tax deposits, bond payments, credit card processing fees, banking fees, real estate transactions, and other disbursements where practical or required. All EFT transactions will utilize the same procedures.
- 4.2 All EFT payments will be coordinated and submitted through the Finance Department. The Finance Director or his/her designee will approve all new requests and any changes to EFT transfer

requests, ensuring that the payment is necessary, all required documentation is provided and appropriately approved, and that the request and banking account information is accurate and valid, and that the transaction is accurately recorded in the general ledger system.

- 4.3 All EFTs are subject to applicable Purchasing Policies and all other policies and procedures in relation to the purchase of goods and/or services.
- 4.4 Except as noted above, wire transfers should only be used in payment of an obligation of the City on an emergency basis when the situation requires immediate funds to settle a transaction. If a more inexpensive mechanism can be used to effect payment of the obligation (i.e., EFT or paper check), the Finance Department shall reserve the right to effect payment with the more inexpensive mechanism. Exceptions to this must be pre-approved by Finance.
- 4.5 This City Finance Director is authorized to make minor administrative changes to this policy, provided such changes are consistent with state and federal requirements.
- 4.6 Definitions:
 - Electronic Funds Transfer (EFT): The electronic exchange (transfer of money from one bank to another), either within a single financial institution or across multiple institutions, through computer-based systems. Wire transfers and ACH payments are examples of EFTs. This form of disbursement is authorized by RCW 39.58.750.
 - Automated Clearing House (ACH): This is an electronic payment delivery system that processes electronic credit and debit transactions, including direct deposits, within the United States using American Bankers Association (ABA) number. These should be set in the vendor master file that denotes this payment method.
 - Banking Information: Information from the payee or their bank regarding their account. This information includes bank name, account name, account number, routing number, bank contact information and any other information necessary to transmit funds.
 - Wire Transfer: This is an electronic transfer of funds from one bank account to another initiated directly with the payer's bank. This type of transfer utilizes a system operated by the Federal Reserve Banks and is more costly compared to transactions involving checks or ACH.

5.0 PROCEDURE:

- 5.1 The Finance Department is the only department authorized to initiate EFTs. Finance shall be responsible for the review of EFT requests in order to ensure compliance, completeness, and proper general ledger recording. This method of payment will be used only when authorized by the Finance Director or his/her designee.
- 5.2 To promote the safety of City funds in the EFT environment, the following procedures will be used by all City employees involved in processing payments via EFTs:
 - The procedure to initiate an EFT is subject to the same financial policies, and procedures and controls that govern disbursement by any other payment method.

- EFT transactions will not be made without proper authorization of affected parties in accordance with Federal and State statutes and accepted business practices.
- Authentication of new EFT requests and changes to existing EFTs are required prior to the transactions being input in the computer-based banking system and includes the following steps:
 - Validate: All new electronic payment instruction requests received, even if the request is internal.
 - Contact: The supplier or requestor must be contacted directly by phone to confirm any requests for payment method or payment instruction changes. Do not use the contact information provided on the request to change payment method or payment instructions. Contact information known to be genuine must be used, such as the contact information in the master file or information collected from the original contract. The contact must confirm existing payment instructions on file prior to making changes to those instructions (i.e., current bank account name, number, and routing information).
 - Verify: The new information provided on the payment instructions must be verified with the known contact (i.e., contact bank to confirm correct account name, number, and routing information).
 - Document: The verification process that was followed must be documented to validate payment instructions. The person responsible for entering/updating instructions and the person approving the new/updated wire instructions must approve the record of verification.
- When ACH payments are approved, they will be set up in the master file database in the financial accounting system by individuals authorized to perform vendor maintenance.
- All invoices will be approved by the responsible department and entered into the financial accounting software by Accounts Payable.
- Transmission of the ACH file from the financial system to bank will occur through secure single user account login by authorized Finance staff, verifying the number of EFTs submitted to the bank and that the total matches the report in the financial accounting system.
- Bank balances will be monitored daily for unusual or unexpected transactions.
- Reconciliation of banking activity will be accomplished in a timely manner with investigation and resolution of reconciling items.

5.3 The City will ensure the State Auditor has access to files, records and documentation of all EFT transactions involving the City when required for the conduct of the statutory audit. Such information will also be supplied if the City changes banks.

5.4 Wire Transfers: The Finance Department is the only department authorized to initiate wire transfers. Finance shall be responsible for the review of wire requests in order to assure compliance, completeness, and proper general ledger recording. This method of payment will be used only when authorized by the Finance Director or his/her designee.

5.5 The City will utilize security measures offered by their financial institution to prevent unauthorized individuals from initiating or modifying a wire transfer. On-line banking systems should only be used by employees with proper system credentials and separate banking user IDs. The security

administrators in the Finance Department shall ensure that adequate separation of duties exist in accordance with internal control standards and that the integrity of system user profiles are protected. Steps are also taken to limit the number of users who have access to create or approve wire transfers and their authorized wire amounts.

- 5.6 All wire transfer requests, including back-up wire information, invoices or other supporting documents will be forwarded to those authorized in the Finance Department to initiate wires. The wire transfer request must include the name and address of the payee, and full payment instructions including banking information. The bank and invoice information must be verified and if there is an inconsistency with the information provided, the wire initiator will contact the initiating department or proper party to obtain additional or corrected information. If all information agrees with the documentation, the wire will be requested with the City's financial institution by the authorized finance employee.
- 5.7 The wire transfer request and all documentation will be forwarded to the Finance Director or his/her designee for payment approval. The pending wire information is reviewed online against the back-up documentation. If there is an error, the wire will be rejected online, and the wire initiator will make any necessary corrections to the data. If all information is correct, the wire will be approved. The payment approval confirmation should be attached to the documentation for future reference. Upon completion of the wire transfer, the entry will be recorded in the financial accounting system by the proper finance employee.
- 5.8 ACH Payments to Vendors: The procedure to initiate an ACH payment is subject to the same procedures and controls that govern disbursement by any other payment mechanism including a check payment. ACH transactions will not be made without proper authorization of affected parties. This same process will be followed should Shelton pay vendors in the future through an ACH process. Currently, with limited exceptions, vendors are paid through a check process.
- 5.9 Prior to a vendor receiving ACH payments for submitted invoices, a completed Direct Deposit Authorization Form must be submitted to Accounts Payable and will be approved by the Finance Department. The Finance Department will review the ABA number, bank account number, and name as shown on the supporting documentation. If all information on the form and the supporting documentation is correct, the data is then recorded in the vendor record in the financial accounting system. The supporting documentation is then filed and stored in a secure office location. Any subsequent requests to change vendor banking information require a new Vendor ACH/Direct Deposit Authorization Form and will be confirmed directly via phone with the vendor by Accounts Payable.
- 5.10 The financial accounting system will generate an electronic file and an EFT check register report will be used to complete the ACH transaction. The ACH transaction will be completed by the Finance Department and will be used to generate a standard ACH transmission file. The electronic generated banking file from the financial accounting system is electronically transmitted to the City's banking institution, authorizing the debit and credit of funds between banks.
- 5.11 The Finance Department staff who initiate and complete EFT transactions are responsible for ensuring the financial internal controls are maintained, the activity is posted timely, and operational procedures are in place to reduce the risk of loss of City funds arising from fraud,

employee error, misrepresentation by third parties, or imprudent actions by City employees. The Finance Department will monitor bank balances daily for unusual or unexpected transactions, reconcile bank activity to the general ledger in a timely manner, and investigate and resolve reconciling items.

- 5.12 Payroll Direct Deposit: For processing disbursements for payroll, each employee is required to complete a Direct Deposit Authorization Form. This form must contain bank and account information documented to assure proper setup. Account documentation may include a voided check or a bank notification stating the bank's transit and routing number in addition to the employee's account number. The form is signed by the employee and provided to Finance. Account documentation is reviewed to ensure the information does not appear altered or manipulated in any way. If evidence of such is present, the employee will be contacted to verify the information. In addition, if a voided check, which does not contain the employee's name, is submitted, the employee will be contacted to verify the information. The outcome of these communications will be documented on the direct deposit form. Suspicious or fraudulent situations should be routed to the Finance Director. After the form has been reviewed for accuracy, the form will be given to payroll. Information is entered from the form into the employee record within the payroll system. If an employee wishes to change direct deposit information, a new form must be completed and signed. This information is limited to Human Resources personnel and Finance staff responsible for payroll.
- 5.13 Payroll Withholding: The City currently pays certain invoices relating to payroll expenses through an EFT process. Upon completion of a payroll cycle, the vendor and invoice amount are identified. Through a secure single user account, payroll staff initiate an ACH payment on the vendor site for the specific amount identified for each payroll cycle. The information including vendor, disbursement amount, and payroll cycle is maintained along with a confirmation that the ACH disbursement was accepted by the vendor.
- 5.14 Internal Controls: The following internal controls have been adopted to validate all available safety precautions are utilized:
- Implementation of bank offered security measures to prevent unauthorized individuals from initiating or modifying a transfer.
 - Each user initiating or approving wire transfers must have a separate banking user ID.
 - Only setting up wire transfers for debt service payments, transfers between City bank accounts, and real property acquisitions, and other transactions as required, and only with approval of the Finance Director or his/her designee.
 - Utilization of computer standards, policies, and procedures to protect the computers and computing processes used for EFTs from computer malware.
 - Ensuring a secure process for creating, securing, sending, and authenticating direct deposit transmittal files to prevent unauthorized modification or submission.
 - If banking fraud is discovered in the EFT process, the fraud must be reported to the Finance Director. In the absence of the Finance Director, the Deputy Finance Director must be notified. The Finance Director must notify the City Manager of the possible fraud as soon as possible after it is detected. Steps will be taken with the City's financial institution to mitigate the fraud and the appropriate entities will be notified as necessary.



CITY OF SHELTON COUNCIL BRIEFING REQUEST (Agenda Item F2)

Touch Date: 09/14/2023
Brief Date: 10/03/2023
Action Date: 10/03/2023

Department: Public Works
Presented By: Aaron Nix, Capital Projects Manager

APPROVED FOR COUNCIL PACKET:

Action Requested:

ROUTE TO:

REVIEWED:

PROGRAM/PROJECT TITLE:

Western Gateway Project Close-Out

☐

Ordinance

☒ Dept. Head

J.O.H.

☐ Finance Director

ATTACHMENTS:

☒

Resolution

☐ Attorney

**-Photos included in this
briefing**

☒

Motion

☒ City Clerk

☐

Other

☐ City Manager

-Resolution No.1292-0923

DESCRIPTION OF THE PROGRAM/PROJECT AND BACKGROUND INFORMATION:

The Western Gateway Project is a project that served several purposes. The main objective was to replace the existing waterline with new ductile iron 12" pipe. The new pipe runs the extent of the project. In addition, the existing roadway needed significant repair, as the asphalt had begun to alligator, along with potholes and other obstacles that had developed over time and heavy use. Pedestrian sidewalks, as well as other features to enhance the walkability of this area. Railroad Avenue serves as a main corridor into the City from highway 101. These improvements were critical in order to slow the degradation of the existing infrastructure and truly functions as a very nice gateway into this beautiful City, from the West. The project experienced a few bumps as the project unfolded. These issues are identified and shown within the existing resolution, detailing additional work that was needed.

ANALYSIS/OPTIONS/ALTERNATIVES:

N/A

BUDGET/FISCAL INFORMATION:

Budgeted project, previously awarded this contract to do the Western Gateway Improvements, as outlined within the project documentation.

PUBLIC INFORMATION REQUIREMENTS:

N/A

STAFF RECOMMENDATION/MOTION:

"I move to waive the three-touch rule and adopt Resolution No. 1292-0923 as presented."

Western Gateway Project During Construction (Railroad Avenue looking East)



Western Gateway Project Final Product (Railroad Avenue Looking East)



RESOLUTION NO. 1292-0923

**A RESOLUTION OF THE COUNCIL OF THE CITY OF SHELTON, WASHINGTON,
ACCEPTING THE WESTERN GATEWAY PROJECT AS FINAL AND COMPLETE**

WHEREAS, a Contract for the Western Gateway Project was awarded to Miles LLC in the amount of \$2,552,284.80 on April 5, 2022, following a formal competitive bidding process; and

WHEREAS, construction of the project commenced August 9, 2022; and

WHEREAS, throughout the course of the project, four change orders totaling \$87,210.18, not including sales tax, were executed to allow for the addition and deletion of bid items and adjustment of bid item quantities in order to provide for needed drainage, bus shelter and additional paving work; and

WHEREAS, the project was determined to have achieved physical completion by the project engineer on May 22, 2023; and

WHEREAS, the final amount paid to the Contractor, after tax and retainage, will be \$2,695,178.78; and

WHEREAS, all documentation required by the Contract and required by law has been furnished by the Contractor.

THEREFORE, BE IT RESOLVED by the City Council of the City of Shelton that the Western Gateway Project is accepted as final and complete.

INTRODUCED AND PASSED by the City Council of the City of Shelton on the 3rd day of October 2023.

Eric Onisko, Mayor

AUTHENTICATED:

Donna Nault, City Clerk



CITY OF SHELTON COUNCIL BRIEFING REQUEST (Agenda Item F3)

Touch Date: 09/14/2023
Brief Date: 10/03/2023
Action Date: 10/03/2023

Department: Public Works
Presented By: Aaron Nix, Capital Projects Manager

APPROVED FOR COUNCIL PACKET:

ROUTE TO:

- ☒ Dept. Head
- ☐ Finance Director
- ☐ Attorney
- ☒ City Clerk
- ☐ City Manager

REVIEWED:

J.O.H.

PROGRAM/PROJECT TITLE:
**C Street Landfill Clean-Up Project
Close-Out**

ATTACHMENTS:

1. **Before and After Photos
(included in this briefing)**
2. **Resolution No.1293-0923**
3. **Preliminary Construction
Completion Report (pending
DOE approval)**

Action Requested:

- ☐ Ordinance
- ☒ Resolution
- ☒ Motion
- ☐ Other

DESCRIPTION OF THE PROGRAM/PROJECT AND BACKGROUND INFORMATION:

The C Street Landfill Clean-Up Construction project was initiated in order to clean-up known contamination, remnants of the previous landfill that existed in the location of the project. Additional exploration and contamination was ordered by the Department of Ecology in order to remove additional contamination identified as the project unfolded. Due to this additional contamination, work continued on cleaning up the site, including five (5) change orders that resulted in an additional expenditure of approximately 1.1 million dollars in order to clean up the site in accordance with Washington State Law. The clean-up work has been summarized within the Construction Completion Report, completed by our Consultant, Aspect Engineering and is currently under review by the Department of Ecology. Staff does not expect any additional action on the City's part pertaining to this project and can be closed out.

ANALYSIS/OPTIONS/ALTERNATIVES:

N/A

BUDGET/FISCAL INFORMATION:

Budgeted project, previously awarded this contract to do the C Street Landfill Clean-Up Construction Project, as outlined within the project documentation.

PUBLIC INFORMATION REQUIREMENTS:

All materials for this project are maintained by the City's Public Works Department. Please contact Public Works directly to view the construction documents.

STAFF RECOMMENDATION/MOTION:

"I move to waive the three-touch rule and adopt Resolution No. 1293-0923 as presented."

C Street Landfill Clean-Up During Construction



C Street Landfill Clean-Up Final Product



RESOLUTION NO. 1293-0923

**A RESOLUTION OF THE COUNCIL OF THE CITY OF SHELTON, WASHINGTON,
ACCEPTING THE C STREET LANDFILL CLEANUP CONSTRUCTION PROJECT AS
FINAL AND COMPLETE**

WHEREAS, a Contract for the C Street Landfill Cleanup Construction Project was awarded to Brumfield Construction Incorporated in the amount of \$1,390,187.17 on November 15, 2022, following a formal competitive bidding process; and

WHEREAS, awarding Resolution Number #1246-1022 authorized the Public Works Director to execute change orders up to ten percent of the original Contract price and the City Manager to execute any change orders necessary for completion of the project; and

WHEREAS, construction of the project commenced on January 4, 2023 with the excavation and relocation of landfill waste from the southerly adjacent parcel and was paused for 12 weeks in early February when it became evident that the waste on the adjacent property extended further and deeper onto the property than anticipated; and

WHEREAS, throughout the course of the project, five change orders totaling \$1,097,668.38, not including sales tax, were executed to allow for the addition and deletion of bid items and adjustment of bid item quantities due to the exploratory excavation needed in order to determine the final waste limits; and

WHEREAS, the project was determined to have achieved physical completion by the project engineer on June 16, 2023; and

WHEREAS, the final amount paid to the Contractor, after tax and retainage, will be \$2,592,273.63; and

WHEREAS, all documentation required by the Contract and required by law has been furnished by the Contractor.

THEREFORE, BE IT RESOLVED by the City Council of the City of Shelton that the C Street Landfill Cleanup Construction Project is accepted as final and complete.

INTRODUCED AND PASSED by the City Council of the City of Shelton on the 3rd day of October 2023.

Eric Onisko, Mayor

AUTHENTICATED:

Donna Nault, City Clerk

CONSTRUCTION COMPLETION REPORT

Shelton C Street Landfill
Shelton, Washington

Prepared for: City of Shelton

Project No. 150074-C • September 13, 2023 AGENCY REVIEW DRAFT



e a r t h + w a t e r



CONSTRUCTION COMPLETION REPORT

Shelton C Street Landfill
Shelton, Washington

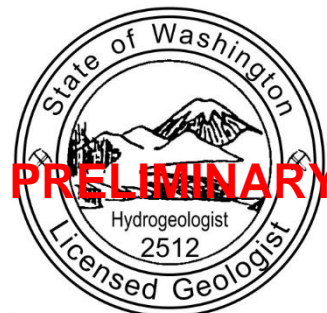
Prepared for: City of Shelton

Project No. 150074-C • September 13, 2023 AGENCY REVIEW DRAFT

Aspect Consulting, LLC



Eric Schellenger, PE
Senior Geotechnical Engineer
eschellenger@aspectconsulting.com



CARLA E. BROCK
Carla Brock, LHG
Principal Geologist
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Ali Cochrane, LG
Associate Geologist
acochrane@aspectconsulting.com

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Draft\Shelton C Street, Construction Completion Report_Agency Review Draft.docx

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Acronyms

Agreed Order	Agreed Order No. DE 19541
Aspect	Aspect Consulting, LLC
CAP	Cleanup Action Plan
CCR	Construction Completion Report
City	City of Shelton
cPAHs	carcinogenic polycyclic aromatic hydrocarbons
COCs	contaminants of concern
CY	cubic yards
Ecology	Washington State Department of Ecology
EDR	Engineering Design Report
mg/kg	milligrams/kilogram
Miles	Miles Sand & Gravel Co.
MTCA	Model Toxics Control Act
RCW	Revised Code of Washington
RI/FS	Remedial Investigation/Feasibility Study
WAC	Washington Administrative Code
WDNR	Washington Department of Natural Resources
WSDOT	Washington State Department of Transportation
WWTP	wastewater treatment plant

1 Introduction

Aspect Consulting, LLC (Aspect) prepared this Construction Completion Report (CCR) to document the cleanup construction activities performed at the Shelton C Street Landfill, a former municipal solid waste landfill, located in Shelton, Washington (herein referred to as the Site; Figure 1). The Site is located on a 16.7-acre parcel (Property; Figure 1) owned by the City of Shelton. The Property is at the west end of West C Street, just west of the overpass across U.S. Highway 101 in Mason, County, Washington. The City of Shelton (City) acquired the Property in 1928 and used a portion of it as a municipal solid waste landfill through the early 1980s for disposal of solid waste generated within the City limits and the surrounding areas.

The CCR has been prepared to meet the requirements of Agreed Order No. DE 19541 (Agreed Order) between the Washington State Department of Ecology (Ecology) and the City, executed on December 20, 2021. Ecology has determined that the cleanup action documented in this report complies with the Model Toxics Control Act (MTCA), Chapter 70.105D Revised Code of Washington (RCW), and the MTCA Cleanup Regulation, Chapter 173-340 of the Washington Administrative Code (WAC). This determination is based on the Remedial Investigation and Feasibility Study (RI/FS) Report (Aspect, 2021) and Cleanup Action Plan (CAP; Ecology, 2021), and other relevant documents in the administrative record.

The activities described in the CCR were conducted in accordance with the Engineering Design Report (EDR; Aspect, 2022a) and its addendums (Aspect, 2022b and 2023), which collectively provide the plans, specifications, and monitoring requirements for the engineering concepts of the cleanup action.

1.1 Report Organization

The following sections of this report are organized as follows:

- **Section 2—Background** describes the use history of the Property, the results of the RI/FS, and the cleanup action goals established in the CAP.
- **Section 3—Cleanup Construction Activities** describes the scope, methods, and implementation of the cleanup, including the low permeability cap construction, installation of physical barriers, and post-construction monitoring.
- **Section 4—Summary and Conclusions** briefly summarizes the cleanup construction results relative to the CAP goals.
- **Section 5—References** lists the documents cited in this report.

2 Background

2.1 Site Use History

The Property was purchased by the City in May 1928, including both the parcel and a perpetual easement for access; landfilling activities started the same year. In July 1931, the City sold the property to Rainier Pulp and Paper Company but retained the right to continue to use the land as a garbage dump. Rayonier, Incorporated, successor of Rainier Pulp and Paper Company, sold the property back to the City in July 1949.

The landfill received municipal solid waste between approximately 1928 and the mid-1980s. Early on, waste consolidation practices included open burning and on-Property incineration, common for the era (Aspect, 2021). Between 1931 and 1974, the landfill received by-products, research waste, and demolition debris from nearby pulp mills. Sludge from the City's wastewater treatment plant (WWTP) was brought to the landfill between 1973 and the mid-1980s. From 1976 to 1981, fly ash from the wood-burning power plant at the Simpson Timber Company mill was mixed with the WWTP sludge and put in the landfill. The WWTP sludge was disposed of in the northwestern part of the landfill and is estimated to be up to 5 feet thick. The cover soil and WWTP sludge overlies municipal solid waste that is approximately 20 to 25 feet thick.

The Property has been generally unused since the mid-1980s, and public access to the Property and surrounding properties is restricted for safety reasons. There is no available information that documents landfill closure activities, and it is not known whether any were completed, but the results of the RI indicate that some of the landfill waste was covered with imported soil.

In 2016, the City entered into Agreed Order No. DE 12929 with Ecology to perform an RI and FS and to submit a draft CAP for the Site. The RI field work was conducted between 2017 and 2020. The final RI/FS report and draft CAP were provided to Ecology in 2021, fulfilling the requirements of Agreed Order No. DE 12929.

In 2021, the City entered into Agreed Order No. DE 19541 with Ecology to implement the cleanup action described in the draft CAP following its finalization in February 2021. As of the date of this report, the completed requirements of the 2021 Agreed Order include preparation of the EDR with Compliance Monitoring Plan, construction plans, and specifications between 2021 and July 2022; conducting the cleanup construction between January and June 2023; and preparation of this Construction Completion Report.

2.2 Results of Remedial Investigation and Feasibility Study

Results of the RI (Aspect, 2021) indicate that the source of contaminants at the Site is the landfill waste, including the WWTP sludge. The contaminants of concern (COCs) for the cleanup action consist of carcinogenic polycyclic aromatic hydrocarbons (cPAHs), dioxin/furans, and metals in surface soil, and total and dissolved iron and manganese in groundwater. Dioxin/furans, cPAHs, and metals are at the highest concentrations in surface soil at the northwest portion of the landfill, where WWTP sludge was disposed of on the ground surface. Based on current and potential future use scenarios, the risk at the Site is to human receptors and terrestrial ecological receptors (plants and animals) who

have the potential for direct contact with landfill waste and COCs in surface and shallow subsurface soil.

To address contamination at the Site, four remedial alternatives were developed and evaluated in the FS (Aspect, 2021). The alternatives combined a range of potentially applicable technologies, consisting of landfill capping, source removal, institutional controls, and long-term monitoring. Each of the four alternatives were evaluated against the MTCA threshold criteria and other requirements, including disproportionate cost analysis procedures (WAC 173-340-360). The results of the analysis identified the following as the preferred alternative:

- **Alternative 1**, consisting of four components: install a low permeability soil cap meeting the landfill closure specifications in WAC 173-304-460(e); implement institutional controls in the form of deed restriction; install physical barriers in the form of fencing and restricted-access signage; and conduct long-term inspection, monitoring, and maintenance (I, M, and M), including annual topographic surveys for the first 5 years, periodic inspection of Site conditions, maintenance of the remedy as needed, semiannual groundwater monitoring for iron and manganese concentrations, and periodic reporting to Ecology including 5-year reviews.

2.3 Cleanup Action Elements and Goals

The cleanup activities were designed to improve protection of human health and the environment at the Site by implementing the CAP (Ecology, 2021). The elements of the cleanup action and their specific role in achieving the goal of protecting human health and the environment are as follows:

- **Low Permeability Soil Cap.** The soil cap, installed over the full extent of the landfill (approximately 4 acres), prevents contact with landfill waste and contaminated soil by human and terrestrial ecological receptors and meets the landfill closure specifications in WAC 173-304-460(e). The soil cap consists of a geotextile isolation barrier; a minimum 2-foot-thick layer of clean, imported low permeability cover materials; and a 6-inch-thick vegetative layer of topsoil seeded with grasses or other shallow-rooted vegetation. Installation of the soil cap is discussed in Section 3.3.
- **Institutional Controls.** Institutional controls will include an environmental covenant, in the form of a deed restriction, to prevent future, unrestricted development or any other activities that could create exposure pathways for direct contact with the contaminated soil or landfill waste. The institutional controls are required *in perpetuity*.
- **Signage and Physical Barriers.** Signage will be installed along the main access road that connects to the terminus of West C Street, warning of the presence of landfill waste and potential risk to human health, along with a gate or other physical restriction on the access road. A fence with signage will be installed surrounding the landfill area to minimize accessibility from areas other than the access road. Installation of physical barriers is discussed in Section 3.4.

- **Monitoring.** Long-term monitoring will be conducted to ensure the remedy remains protective over time. The I, M, and M program will include the following:
 - Periodic inspection of Site conditions to ensure integrity of the soil cap, signage, and physical barriers
 - Maintenance of the remedy (e.g., removal of large or deep-rooted vegetation from the cap area¹ and filling of eroded areas), performed on an as-needed basis
 - Semiannual groundwater monitoring at the four existing monitoring wells for iron and manganese concentrations to demonstrate groundwater protection
 - Annual topographic surveys for at least the first 5 years following construction, to compare with as-built conditions and demonstrate soil cap stability
 - Periodic reporting of I, M, and M activities to Ecology, including 5-year reviews
- The initial topographic survey and initial semiannual groundwater monitoring event are described in Sections 4.1 and 4.2 respectively.

3 Cleanup Construction Activities

This section describes the cleanup construction activities related to the engineering concepts for the cleanup action, including landfill waste relocation and consolidation, low permeability soil cap construction, and installation of physical barriers. Photographs of cleanup construction activities are included as Appendix A.

3.1 Cleanup Construction Overview

Through a competitive bid process, the City awarded the contract to Brumfield Construction (Brumfield; Contractor) of Aberdeen, Washington. Brumfield self-performed the landfill waste consolidation and soil cap construction components of the work.

Brumfield mobilized to the Site and completed worker orientation, surveying, clearing and grubbing activities, and construction of access roads in early January 2023. Waste excavation activities began on January 9, 2023, with excavation of landfill waste extending south of the Property boundary onto the south-adjointing property owned by Miles Sand & Gravel Co. (Miles) for consolidation into the landfill on the Property. During waste excavation activities on the south-adjointing property, it became apparent that the horizontal and vertical extents of the waste were greater than anticipated and shown in the plans. On approximately January 17, 2023, cleanup construction activities

¹ Trees would not be allowed to grow in the capped area, since roots of large trees could extend into the landfill waste and bring it to the surface if a tree is blown over (for example).

were paused for 12 weeks to allow for modification of the excavation plans and specifications for an aurally larger and vertically deeper excavation on the south-adjointing property (see Section 3.2). Cleanup construction resumed on April 12, 2023. The remaining landfill waste consolidation activities were completed by May 30, 2023 (Section 3.2). Construction of the low permeability cap and installation of the physical barriers on the Property were primarily completed between April 25, 2023, and June 14, 2023, respectively (Sections 3.3 and 3.4). Initial post-construction monitoring activities occurred on June 26, 2023 (initial topographic survey; Section 4.1) and August 3, 2023 (initial semiannual groundwater monitoring; Section 4.2).

Aspect was the engineering firm responsible for overseeing, monitoring, and reporting the cleanup construction activities (Engineer). Aspect provided regular status updates to Ecology throughout the duration of the cleanup construction activities in the form of email updates and formal progress reports, and consulted with the City and Contractor daily to weekly.

3.2 Landfill Waste Consolidation

This section describes the activities related to relocating contaminated soil and solid waste present on the south-adjointing property, consolidation of that waste to within the footprint of the low permeability soil cap area located on Property, and restoration activities conducted at the south-adjointing property.

The results of the RI indicated that municipal solid waste extended onto the south-adjointing property to an estimated extent of up to 20 feet south of the Property line. Initial efforts to relocate and consolidate the solid waste onto the Property suggested that the actual extent of the solid waste was greater than anticipated. To delineate the actual vertical and horizontal extent of waste beyond the Property line, exploratory test pits and soil borings were performed on the south-adjointing property, following execution of the Access Agreement between the City and Miles on July 9, 2022, and its amendments dated December 2, 2022 and February 10, 2023. Aspect observed 20 direct-push soil borings, designated AB-01 through AB-20 and nine test pits, designated ATP-01 through ATP-09 to determine the limits of the waste on the south-adjointing property and to inform excavation planning and material quantities. The borings were advanced from the existing ground surface to maximum depths of 45 feet, through fill and landfill waste (where encountered) to underlying native soil consisting of recessional outwash silt and sand (Aspect, 2023).

Excavation, consolidation, and restoration activities are summarized below:

- **Excavation.** Based on the explorations, the excavation for removal of landfill waste from the south-adjointing property extended to approximately 165 feet south of the Property line and 380 feet in the east-west direction, and extended vertically to 20 to 40 feet bgs, or elevation 123 feet (NAVD88). The lateral extent of the landfill waste consolidation excavation on the south-adjointing property is shown on Figure 2.
- **Landfill Waste Consolidation.** Excavated landfill waste and other material the Engineer deemed unsuitable for use as waste excavation backfill was placed in

existing ground surface depressions in the landfill area on the Property within the footprint of the low permeability soil cap. The waste and unsuitable material was compacted by the Contractor.

- **Restoration.** Excavation of the landfill waste on the south-adjoining property required temporary removal of an approximately 25-foot-tall berm road to reach the underlying landfill waste. Restoration activities on the south-adjoining property included backfilling the excavation using overburden materials approved by the Engineer and native borrow soil sourced from the Property, and re-construction of the berm road. Backfill material sourced from the on-Property borrow area generally consisted of native sand and gravel that was hauled from the Property to the excavation using off-road haul trucks. Backfill was placed and graded level in approximately 2-foot-thick lifts using bulldozers. Each lift was compacted using a vibratory smooth drum roller. The final elevation of the berm road was lower than it was before the excavation; this lower elevation was approved by the south-adjacent property owner. Following reconstruction of the berm road by the Contractor, the City placed a layer of crushed rock to surface the road.

3.3 Low Permeability Soil Cap Construction

Construction of the low permeability soil cap over the full extent of the contaminated soil and solid waste (collectively, the landfill waste) is the primary engineering control to prevent receptor exposure to landfill waste. In order from deepest to shallowest, the soil cap consists of a foundation layer, a geotextile isolation barrier, a layer of imported clean low permeability soil, and a vegetative layer of topsoil seeded with grasses, and complies with landfill closure specifications in WAC 173-304-460(e). Table 1 summarizes the approximate final quantities and sources for each of these layers:

Table 1. Soil Cap Construction Quantities

Description	Quantity	Source
Foundation Layer	9,913 CY	On-Property Borrow
Geotextile Isolation Barrier	191,900 SF	ACF West Inc.
Imported Low Permeability Soil	12,340 CY	Delphi Quarry
Topsoil	3,550 CY	Delphi Quarry

Notes:

CY – cubic yards

SF – square feet

Additional description of these layers, the work completed to prepare and construct them, and inspection and quality control are presented in the following sections. The record drawings provided in Appendix B include the as-built topographic survey for the top of each soil cap layer.

3.3.1 Surface Preparation

The existing ground surface within the soil cap area was cleared and grubbed of all vegetation. As indicated in Section 2.1, existing ground surface depressions were filled

with landfill waste and geotechnically unsuitable materials excavated from the south-adjacent property. Once the existing ground surface depressions were filled, the remaining landfill waste and unsuitable materials were placed, graded, and compacted in a ‘dome’ configuration with side slopes between 2 and 30 three percent in accordance with WAC standards.

3.3.2 Foundation Layer

The foundation layer consisted of a 2-foot-thick layer of native sand and gravel (sourced from the on-Property borrow area) placed directly over the landfill waste and geotechnically unsuitable material. The two-foot-thickness was necessary (and agreed upon by Aspect, the Contractor, and the City) to create a ‘bridge’ over the wet/saturated landfill waste and geotechnically unsuitable materials derived from the off-Property waste excavation so that the necessary level of compaction of the overlying low permeability soil layer could be achieved. Where appreciably soft landfill waste and unsuitable materials were present in the northern approximately 1/3 of the soil cap area, concrete rubble was placed first and capped with the native sand and gravel so that no sharp concrete edges or points could protrude into the overlying geotextile. The foundation layer was generally placed in two 12-inch-thick lifts that were graded with a bulldozer to match the dome-shaped surface of the underlying landfill waste. Each lift was compacted with a vibratory smooth drum roller.

3.3.2.1 Inspection and Quality Control

Aspect was on site on a nearly continuous basis to observe and inspect placement and compaction of the foundation layer. Aspect qualitatively evaluated compaction of the foundation layer by observing the behavior of the material when passed over by heavy construction equipment, and by hand-probing with a T-probe. Through the inspections, Aspect verified that the foundation layer was placed and compacted to a relatively firm and unyielding condition, in accordance with the project specifications.

In addition to the qualitative inspections completed by Aspect, the Contractor hired a materials testing firm (Materials Testing and Consulting, Inc) to conduct in-place density testing on the compacted foundation layer materials. The density testing indicated foundation layer materials were compacted to levels ranging between 76 to 99 percent of the materials’ maximum dry density. The required level of compaction for the foundation layer per the project specifications is 85 percent. Based on our observations, we conclude the density tests below this value were likely due to the material at those test locations being different than the proctor material and/or were influenced by the soft waste and unsuitable materials below. Based on our visual/manual inspection of the material and our observations of the compactive effort applied by the Contractor, we conclude the foundation layer was acceptable as constructed.

3.3.3 Geotextile Isolation Barrier

A geotextile isolation barrier was laid over the top of the foundation layer for the purpose of preventing terrestrial contact with underlying landfill waste. The geotextile isolation barrier was anchored in an anchor trench around the perimeter of the soil cap. The manufacturer’s specifications for the geotextile are included as Appendix C.

3.3.3.1 Inspection and Quality Control

Aspect verified the geotextile that was used matched the geotextile that was originally submitted by the Contractor and accepted by Aspect prior to the start of construction. Aspect was on site on a nearly continuous basis to observe excavation of the anchor trench and to inspect placement of the geotextile isolation barrier. We verified the anchor trench depth and width were in accordance with the plans, the geotextile was placed under tension with minimal wrinkles, and that adjacent rolls of geotextile overlapped at least 6 inches at the seams in accordance with the plans.

3.3.4 Imported Low Permeability Soil

A 2-foot-thick layer of imported low permeability soil meeting the requirements of WAC 173-304-460(3)(e)(i) was placed over the geotextile isolation barrier. The low permeability soil was placed in 6- to 12-inch-thick lifts that were graded with a bulldozer to match the dome-shaped surface of the underlying foundation layer. Each lift was compacted with a vibratory sheepsfoot roller.

3.3.4.1 Testing, Inspection, and Quality Control

3.3.4.1.1 Chemical Testing

The low permeability soil consisted of native soil from the Contractor's rock quarry (Delphi Quarry). The Contractor submitted samples of the low permeability soil to a laboratory for testing to determine the materials' chemical properties in accordance with the CAP, as follows:

- A total of 34 representative soil samples were collected by the Contractor and analyzed by a Washington State-accredited laboratory for the following:
 - Gasoline-, diesel-, and oil-range petroleum hydrocarbons using Northwest Methods NWTPH-Gx and NWTPH-Dx.
 - MTCA 5 metals, including arsenic, cadmium, chromium, lead, and mercury,
 - Polycyclic aromatic hydrocarbons (PAHs) using EPA Method 8270.

The analytes tested were not detected above the laboratory reporting limits with the exception of chromium, which was detected in all 34 samples ranging from 7 to 18 mg/kg. Detected concentrations of chromium and reporting limits for undetected analytes are below the standard MTCA Method A/B soil cleanup levels for unrestricted land use, established as the applicable and acceptable soil quality criteria in Table A-2 of the Compliance Monitoring Plan included with the EDR (Aspect, 2022a); therefore, the imported material was determined to be acceptable for construction of the low permeability layer of the soil cap. Chemical testing laboratory reports are included in Appendix D.

3.3.4.1.2 Laboratory Permeability and Proctor Tests

The Contractor submitted samples of the low permeability soil to a materials testing laboratory (HWA Geosciences, Inc) to conduct moisture-density-permeability relationship tests (Proctor tests and hydraulic conductivity tests). The testing showed that the permeability specification (a permeability of no more than 1×10^{-6} cm/sec) is met if the material is compacted to at least 93 percent of its maximum dry density. The laboratory Proctor tests and hydraulic conductivity tests are included in Appendix E.

3.3.4.1.3 Inspection and Quality Control

Aspect was on site on a nearly continuous basis to observe and inspect placement and compaction of the low permeability soil layer. Aspect verified the imported low permeability material was consistent with the materials submitted for laboratory testing by the Contractor. Aspect qualitatively evaluated compaction of the low permeability soil layer by observing the behavior of the material when passed over by heavy construction, and by hand-probing with a T-probe. Through these inspections, Aspect verified the low permeability soil layer was placed and compacted to a relatively firm and unyielding condition in accordance with the project specifications. Aspect also verified the final thickness of the low permeability soil layer was 2 feet based on grade stakes that were established by the Contractor under observation by Aspect. The use of grade stakes to verify thickness of the low permeability soil layer and overlying topsoil layer was collectively agreed upon by Aspect and the Contractor due to the substantial thickness of the soft landfill waste, which will compress as additional material is placed over it to construct the cap and make surveying an inaccurate means to verify the final thickness.

In addition to the qualitative inspections completed by Aspect, the Contractor's material testing subcontractor conducted in-place density testing on the compacted low permeability soil layer materials. The density testing indicated the low permeability soil materials were compacted to at least 93 percent of the materials' maximum dry density to meet the permeability specification. In cases where the density testing showed a level of compaction that did not meet the permeability specification (i.e., less than 93 percent of the material's maximum dry density), the Contractor stopped working the material and allowed it to dry out, recompacted the material, and re-tested compaction. The re-tests showed that the materials were compacted to at least 93 percent of their maximum dry density to meet the permeability specification. The density test field reports from the Contractor's materials testing subcontractor are included in Appendix F.

3.3.5 Vegetative Topsoil

A 6-inch-thick layer of vegetative topsoil was placed over the imported low permeability soil layer. The topsoil material was the same material as the low permeability soil layer (native overburden stripped from the Contractor's quarry, which meets the specification for Topsoil Type C per the Washington State Department of Transportation (WSDOT) Standard Specifications and consistent with the requirements of WAC 173-304-460(3)(e)(iii)), except that the Contractor screened out all particles larger than 3 inches in diameter. The vegetative topsoil was placed in a single 6-inch-thick layer that was graded with a bulldozer to match the dome-shaped surface of the underlying low permeability soil layer. The vegetative topsoil was not compacted. Following placement of the topsoil layer, it was hydroseeded to establish vegetative cover and prevent erosion.

3.3.5.1 Inspection and Quality Control

Aspect verified the final thickness of the topsoil layer was 6 inches based on grade stakes that were established by the Contractor under observation by Aspect.

3.3.6 Deviations from the Plans

During construction, we noted the following deviations from the plans related to the soil cap construction:

1. **Limits of the soil cap.** The limits of the soil cap were modified based on field conditions and actual landfill waste extents revealed during construction. This included extending the soil cap to the south property line and reducing the northern extent of the soil cap.
2. **Elevation of the soil cap.** The final elevations of the soil cap were higher than originally planned due to the increased volume of landfill waste excavated from the south-adjacent property and the need to construct a 2-foot-thick foundation layer over the landfill waste as previously discussed.
3. **Topsoil thickness.** The thickness of the topsoil layer was reduced from 12 inches to 6 inches with approval from the Engineer. A minimum topsoil thickness of 6 inches is specified in WAC 173-304-460(3)(e)(iii).
4. **Anchor trench modification.** The location of the anchor trench on the south side of the soil cap area was modified to be within the footprint of the soil cap which extends up to the Property boundary. The modified anchor trench detail is shown in the record drawings (Appendix B).

Aspect concludes the deviations described above conform with landfilling standards in WAC 173-304-460 and engineering concepts presented in the EDR, and therefore are acceptable.

3.3.7 Soil Cap Conformance with WAC Standards

Table 2 summarizes the WAC landfill soil cap design standards and the as-built soil cap condition.

Table 2. Soil Cap Design Standards and As-Built Conditions

Item	WAC Standard	As-Built Condition
Thickness of low permeability soil	2 feet	2 feet
Permeability of low permeability soil	1×10^{-6} cm/sec (max)	1×10^{-6} cm/sec or lower
Topsoil thickness	6 inches	6 inches
Surface Slopes Grade	2 to 33 percent	Up to 23 percent

See Figure 2 for a map of the soil cap with contoured surface elevations.

3.4 Physical Barriers

Physical barriers to discourage unauthorized access to the landfill cap area consisted of chain-link fencing and signage. The new 6-foot-tall chain-link fencing was installed around the perimeter of the soil cap, with two locking 12-foot-wide double swing gates on the east and west sides of the cap. Signage was posted at each gate and at approximately 300-foot spacing along the fencing surrounding the soil cap, with the following text appearing in both English and Spanish languages:

Restricted Area – No Trespassing

City of Shelton Property
Contamination Cleanup In Progress
Contact: Andrew Smith, Dept. of Ecology
Phone: (360) 407-6316

Pictures of the fencing and signage are included in Photographs 9, 10, and 11 in Appendix A.

3.5 Final Inspection

The final inspection of the cleanup construction activities was conducted on June 14, 2023 by the Engineer. On that date, the Engineer noted the following:

- Construction of the physical barriers (fencing and signage) was complete.
- Construction of the soil cap was complete, with side slopes ranging from about 12 to 13 degrees (21 to 23 percent; below the maximum allowable grade of 30 percent).
- The surface of the landfill cap was hydroseeded, as were areas beyond the soil cap that had been disturbed by cleanup construction activities.
- Groundwater monitoring wells AMW-1, AMW-2, and AMW-4 remained in-place, accessible, and protected by bollards.²
- Construction of the access road and berm on the south-adjointing property was complete, with a thin layer of crushed rock placed at ground surface.

No additional or outstanding on-site cleanup construction work items were observed. The record drawings for the soil cap are included as Appendix B.

4 Post-Construction Confirmational Monitoring

Post-construction confirmational monitoring is described in this section. The purpose of the confirmational monitoring is to confirm the long-term effectiveness of the cleanup action once the cleanup standards have been met at the points of compliance.

Confirmational monitoring includes visual inspections of the soil cap and physical barriers, topographic surveys to demonstrate little-to-no settlement of the soil cap, and groundwater sampling to demonstrate little-to-no leachate generation.

4.1 Topographic Survey

Following construction of the soil cap, licensed surveyor Apex Engineering of Tacoma, Washington performed an initial post-construction survey on June 26, 2023. The initial post-construction survey consisted of establishing eight settlement survey benchmarks, spaced roughly equally across the soil cap, to be used for annual settlement monitoring.

² Well AMW-3 is located outside of the cleanup construction area and remains in-place and accessible.

The locations of the benchmarks are shown on Figure 2 and in the survey report included in Appendix G.

The eight benchmarks will be re-surveyed annually. The next survey event will occur in June 2024, at which time the surveyor will attest to whether the settlement criteria have been met. Settlement criteria are established by Ecology in the Addendum to “Preparing for Termination of Post-Closure Activities at Landfills Closed under Chapter 173-304 WAC” guidance document.

4.2 Groundwater Monitoring

The first post-construction groundwater monitoring event occurred on August 3, 2023, and the second post-construction groundwater monitoring even is scheduled for February 2024. Results of the first and second events will be presented in an annual groundwater monitoring report, prepared following the February 2024 event.

Groundwater monitoring events will continue on a semiannual basis occurring in August and February of each year for a minimum period of 5 years (through February 2028) and for at least 2 years after compliance is achieved. Compliance will be achieved when the average concentration of four consecutive sampling events is below the cleanup level or background concentration.

5 Conclusion

Cleanup construction activities at the Site occurred between January 9 and June 14, 2023, with oversight and final inspection performed by Aspect on behalf of the City of Shelton. Based on the observations during construction, it is the opinion of the Engineer that the cleanup construction was completed in accordance with standard industry practices, in compliance with the technical specifications, and in accordance with the CAP (Ecology, 2021) and EDR (Aspect, 2022) approved by Ecology.

6 References

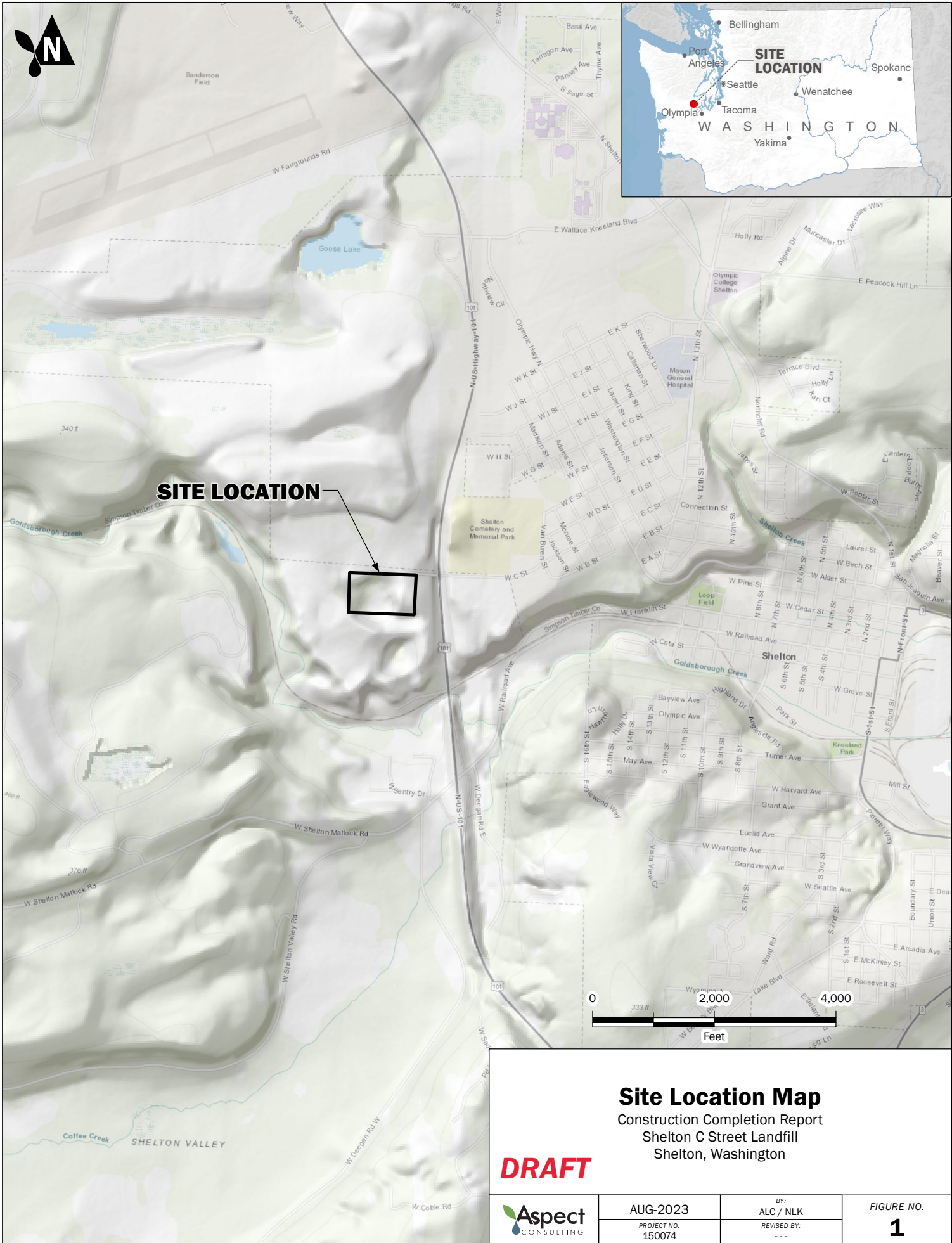
- Aspect Consulting, LLC (Aspect), 2021, Final Remedial Investigation and Feasibility Study Report, Shelton C Street Landfill, Shelton, Washington, December 16, 2021.
- Aspect Consulting, LLC (Aspect), 2022, Engineering Design Report, Shelton C Street Landfill, Shelton, Washington, July 11, 2022.
- Aspect Consulting, LLC (Aspect), 2023, Geotechnical Engineering Recommendations, C Street Landfill Waste Excavation Expansion, Shelton, Washington, April 3, 2023.
- Washington State Department of Ecology (Ecology), 2021, Cleanup Action Plan, Shelton C Street Landfill, City of Shelton, August 10, 2021.

7 Limitations

Work for this project was performed for the City of Shelton (Client), and this report was prepared in accordance with generally accepted professional practices for the nature and conditions of work completed in the same or similar localities, at the time the work was performed. This report does not represent a legal opinion. No other warranty, expressed or implied, is made.

All reports prepared by Aspect Consulting for the Client apply only to the services described in the Agreement(s) with the Client. Any use or reuse by any party other than the Client is at the sole risk of that party, and without liability to Aspect Consulting. Aspect Consulting's original files/reports shall govern in the event of any dispute regarding the content of electronic documents furnished to others.

FIGURES



SITE LOCATION

Site Location Map
Construction Completion Report
Shelton C Street Landfill
Shelton, Washington

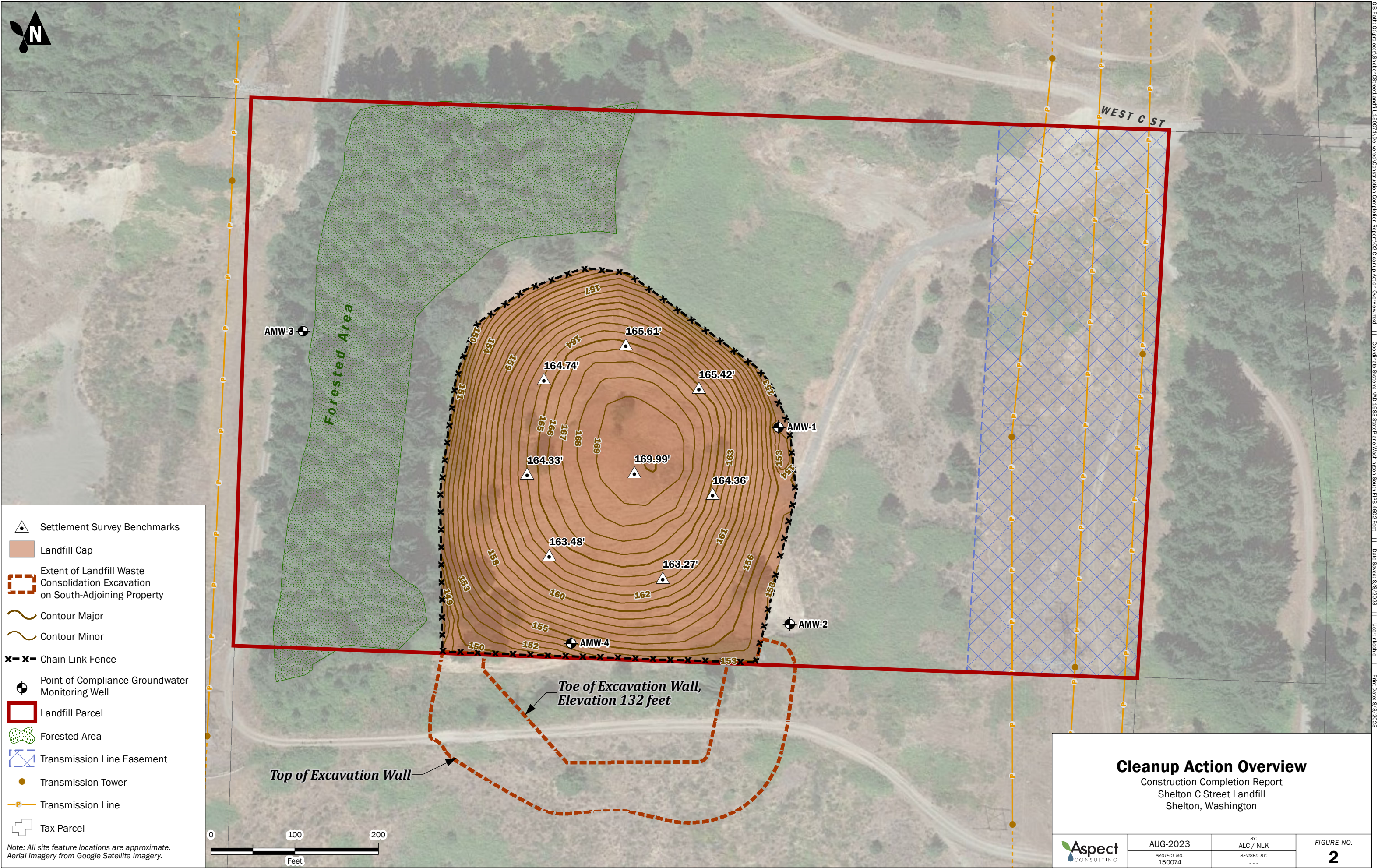
DRAFT



AUG-2023
PROJECT NO.
150074

BY:
ALC / NLK
REVISED BY:

FIGURE NO.
1



APPENDIX A

Photographs



Photograph 1. View of the Property landfill area prior to the start of cleanup construction, during vegetation grubbing. Photo faces south-southwest.



Photograph 2. View of the Property landfill area following vegetation grubbing. Photo faces west.



Photograph 3. Exploratory drilling on the south-adjoining property to delineate the extent of landfill waste beyond the south Property boundary. Photo faces west.



Photograph 4. Landfill waste relocation excavation on south-adjoining property. Landfill waste shown in dark-colored layers. Photo faces north.



Photograph 5. Backfill and compaction of landfill waste relocation excavation on south-adjacent property. Photo faces north.



Photograph 6. Construction of foundation layer on Property. Wells AMW-02 and AMW-03 are shown. Photo faces west-northwest.



Photograph 7. Installation of geotextile barrier. Photo faces north-northeast.



Photograph 8. Placement of low permeability soil overlying geotextile barrier. Photo faces north-northeast.



Photograph 9. Hydroseeded areas following completion of cleanup construction. Photo faces northwest.



Photograph 10. Reconstructed access road on south-adjointing property, following completion of cleanup construction. Photo faces west.



Photograph 11. Typical fencing and signage installed around soil cap on the Property.

APPENDIX B

Record Drawings

CLEANUP ACTION RECORD DRAWINGS

SHELTON C STREET LANDFILL

SHELTON, WASHINGTON



DATE	8/17/2023	SEA	APPR.
DATE	11/18/2022	SEA	APPR.
DATE	8/17/2023	ECS	REV.
DESCRIPTION	ISSUED FOR CONSTRUCTION	1	0
DESCRIPTION	RECORD DRAWINGS	1	0

DESIGNED BY:	ECS
DRAWN BY:	CMV
REVIEWED BY:	-

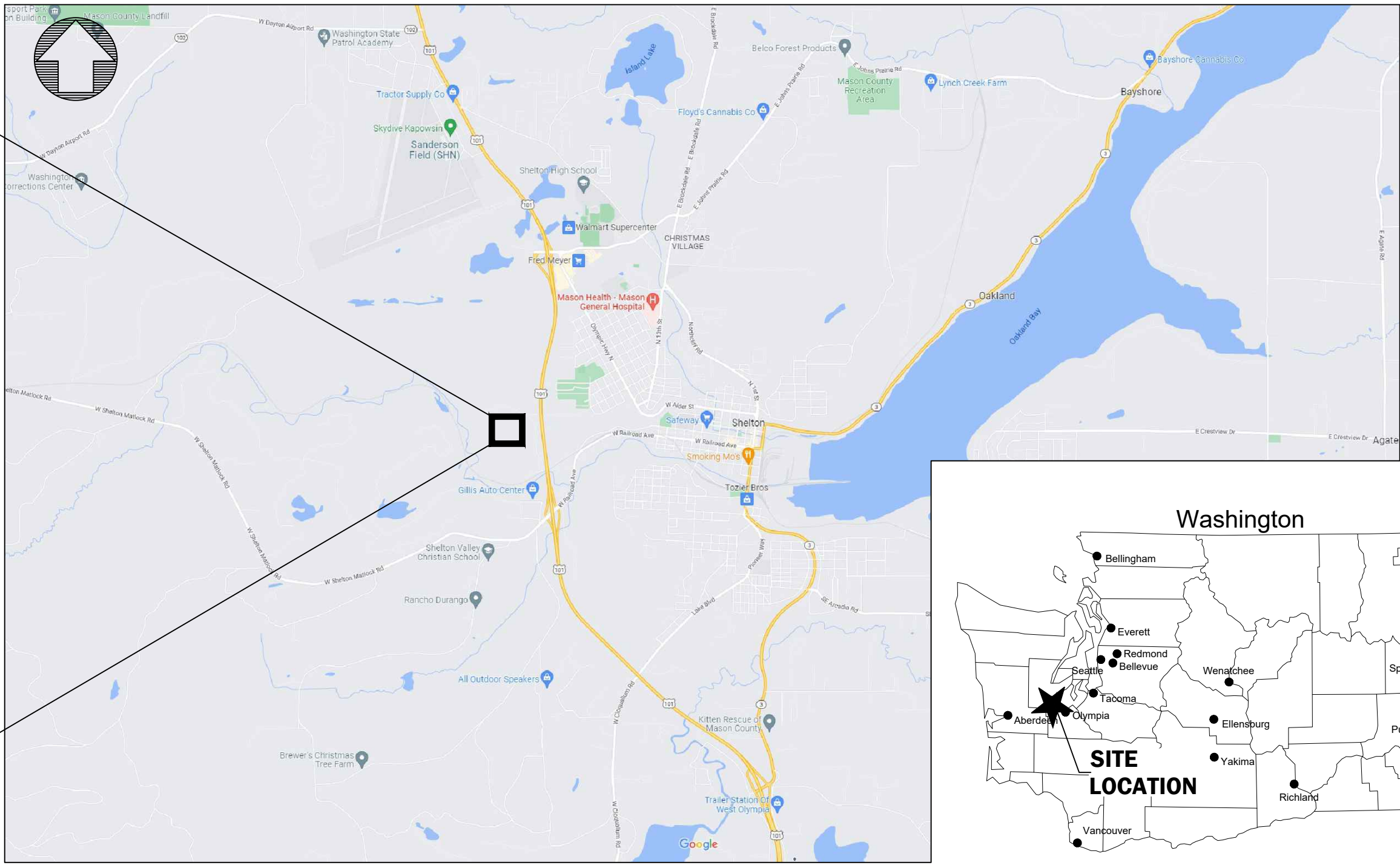
DATE	8/17/2023	REVISION	1	PROJECT NUMBER	150074

COVER, LOCATION MAP, AND DRAWING INDEX
CLEANUP ACTION CONSTRUCTION PLANS
SHELTON C STREET LANDFILL
SHELTON, WASHINGTON

SHEET
REFERENCE
NUMBER:
G-01
SHEET 1 OF 6



VICINITY MAP (BING)
0 1000 2000 Feet



LOCATION MAP (GOOGLE)
0 4000 8000 Feet

CALL 2 WORKING DAYS
BEFORE YOU DIG: 811
(UNDERGROUND UTILITY
LOCATIONS ARE APPROX.)



ENGINEER:
ASPECT CONSULTING, LLC
710 SECOND AVE, SUITE 550 SEATTLE, WA 98104
ATTN: ERIC SCHELLENGER, P.E.
206-780-7745

PROPERTY OWNER AND LEGAL DESCRIPTION
ADDRESS: 525 W COTA ST
OWNER: CITY OF SHELTON, WASHINGTON
SEC-TWN-RNG-QTR: SEC 24, TWP 20, RNG 4W (NE-NW/4)

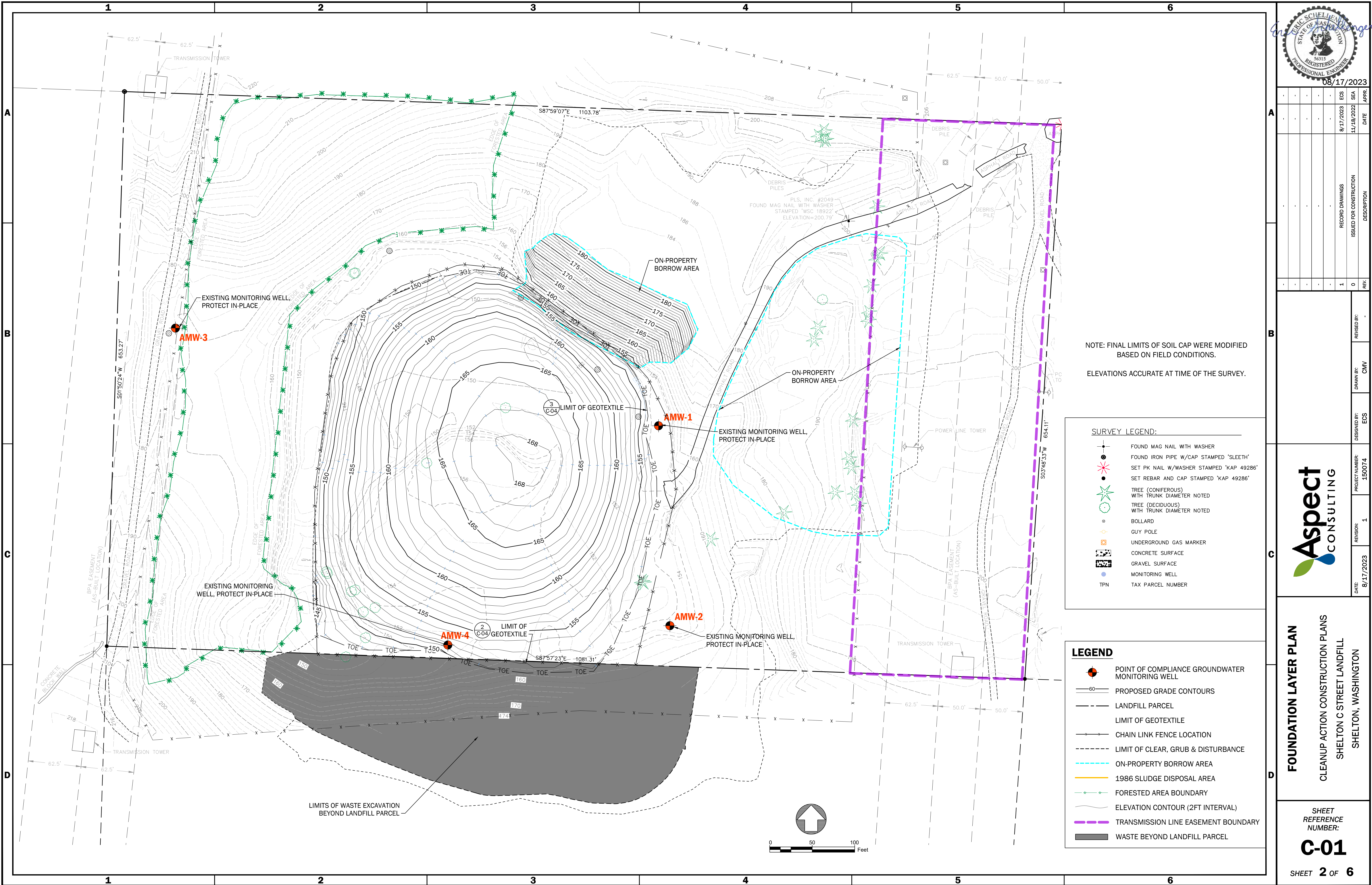
LEGAL DESCRIPTION: TR43 OF NE NW 45/68

MASON COUNTY PARCEL NO.: 42024-21-60430
LOT AREA SQUARE FOOTAGE: 713,994 SQFT
BUILDING FOOTPRINT SQUARE FOOTAGE: 0 SQFT

BASIS OF SURVEY (EXISTING TOPOGRAPHY)
SURVEY COMPLETED BY: PLS, INC., ISSAQUAH, WASHINGTON, 10/13/2017.
HORIZONTAL DATUM: NAD 83/2011, WASHING COORDINATE SYSTEM, SOUTH ZONE.
VERTICAL DATUM: NAVD 88 WSDOT BENCHMARK "SLEETH" MONUMENT I.D. 49268, PUBLISHED ELEVATION 107.04'.

BASIS OF RECORD DRAWING SURVEY (SOIL CAP ELEVATIONS)
SURVEY COMPLETED BY: MNT 2 COAST PROFESSIONAL LAND SURVEYORS, TUMWATER, WASHINGTON, 05/11/2023.
HORIZONTAL DATUM: NAD 83/2011, WASHINGTON COORDINATE SYSTEM, SOUTH ZONE.
VERTICAL DATUM: NAVD 88 BASED ON CONTROL PROVIDED BY BRUMFIELD.

SHEET	DESCRIPTION	SHEET NO.
G-01	COVER, LOCATION MAP AND DRAWING INDEX	1 OF 6
C-01	FOUNDATION LAYER PLAN	2 OF 6
C-02	LOW PERMEABILTY SOIL LAYER PLAN	3 OF 6
C-03	VEGETATIVE TOP SOIL PLAN	4 OF 6
C-04	DETAILS	5 OF 6
C-05	FENCE AND SIGNAGE DETAILS	6 OF 6



DATE	REVISION	PROJECT NUMBER	DESIGNED BY	DRAWN BY	REVIEWED BY	DESCRIPTION
8/17/2023	1	150074	ECS	CMV	SEA	ISSUED FOR CONSTRUCTION
11/18/2022	0				APPR	
8/17/2023					SEA	
					APPR	

1	0	REV				
---	---	-----	--	--	--	--

Aspect CONSULTING

FOUNDATION LAYER PLAN

CLEANUP ACTION CONSTRUCTION PLANS

SHELTON C STREET LANDFILL

SHELTON, WASHINGTON

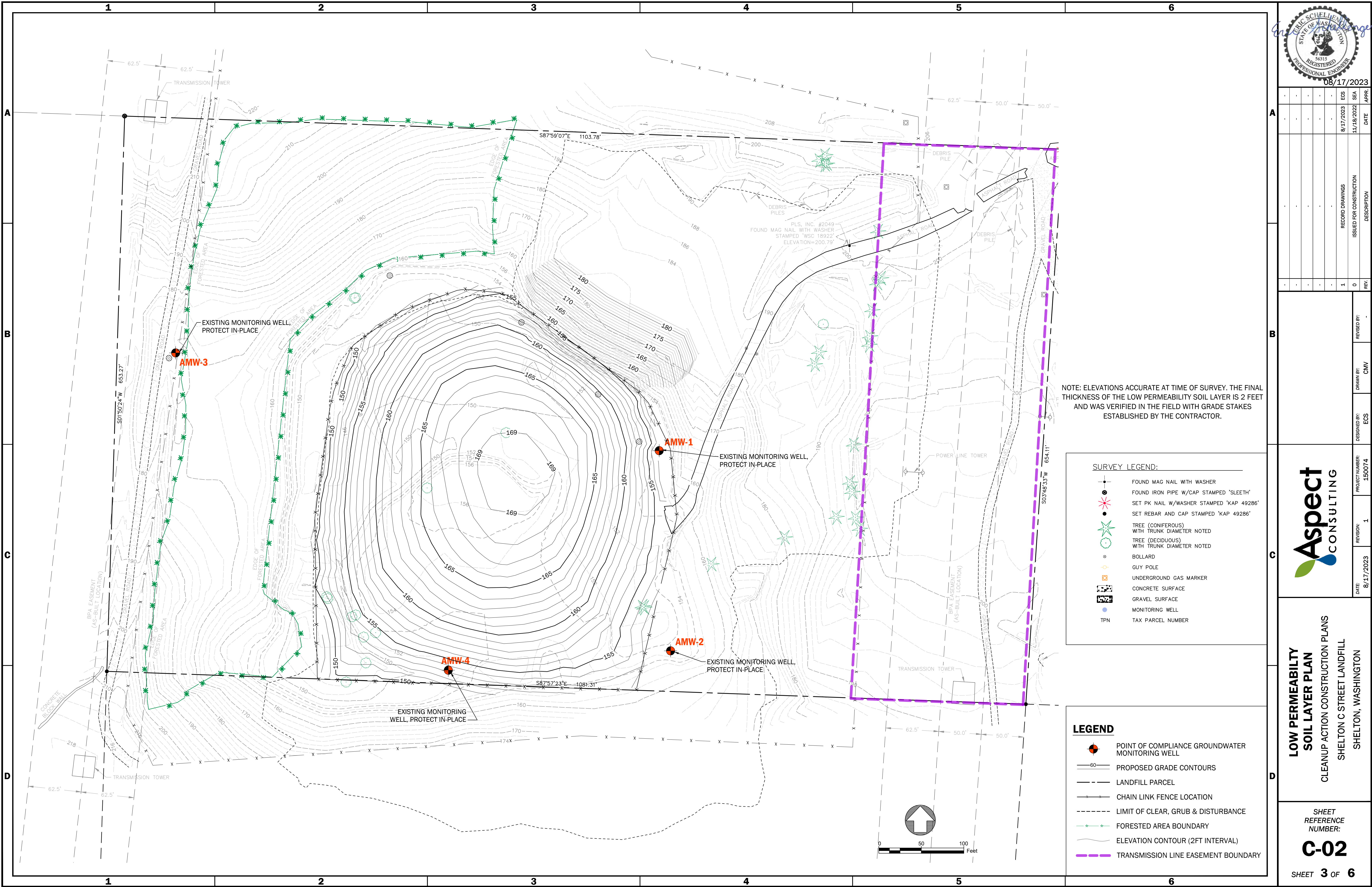
SHEET

REFERENCE

NUMBER:

C-01

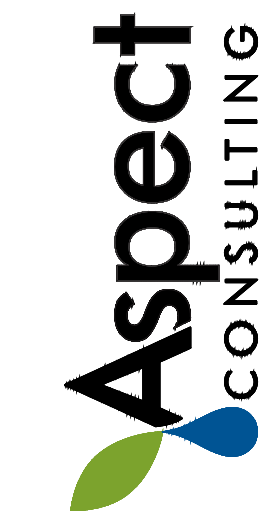
SHEET 2 OF 6



08/17/2023

DATE	REV.	DESCRIPTION
11/18/2022	0	ISSUED FOR CONSTRUCTION
8/17/2023	1	RECORD DRAWINGS
ECS		SEA
APPR.		

DESIGNED BY:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
ECS	CMV		



DATE	REVISION	PROJECT NUMBER
8/17/2023	1	150074

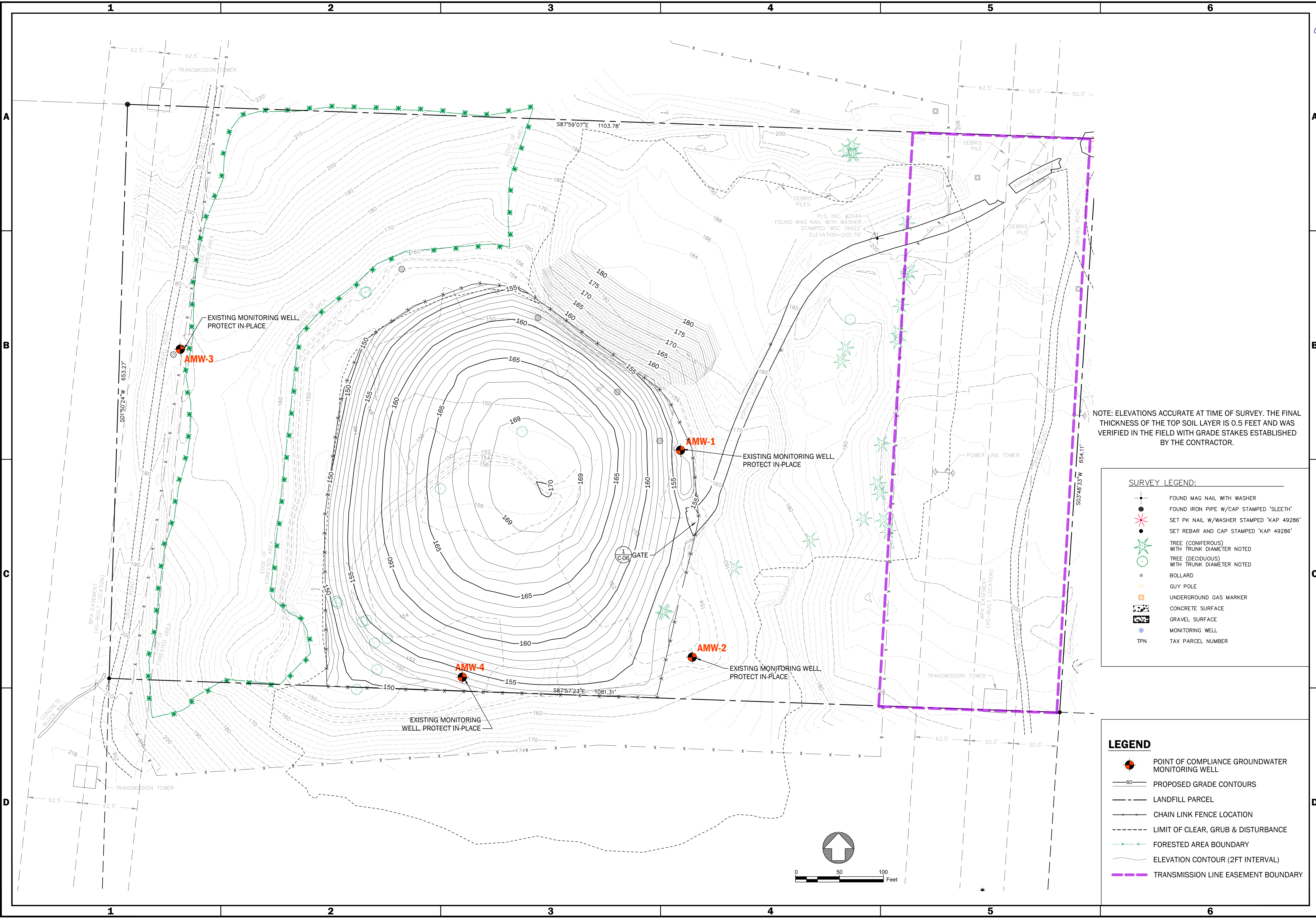
**LOW PERMEABILITY
SOIL LAYER PLAN**
CLEANUP ACTION CONSTRUCTION PLANS
SHELTON C STREET LANDFILL
SHELTON, WASHINGTON

SHEET
REFERENCE
NUMBER:

C-02

SHEET 3 OF 6

CADD Path: C:\City of Shelton\LEIC014 Shelton C Street Landfill\2023\08 Record Drawings\150074 Plan Set\RECORD DRAWS.dwg, 1:00 PM, 8/17/2023 2:56:48 PM, 11, User: terry.schellinger



NOTE: ELEVATIONS ACCURATE AT TIME OF SURVEY. THE FINAL THICKNESS OF THE TOP SOIL LAYER IS 0.5 FEET AND WAS VERIFIED IN THE FIELD WITH GRADE STAKES ESTABLISHED BY THE CONTRACTOR.

SURVEY LEGEND:

- FOUND MAG NAIL WITH WASHER
- FOUND IRON PIPE W/CAP STAMPED 'SLEETH'
- SET PK NAIL W/WASHER STAMPED 'KAP 49286'
- SET REBAR AND CAP STAMPED 'KAP 49286'
- TREE (CONIFEROUS) WITH TRUNK DIAMETER NOTED
- TREE (DECIDUOUS) WITH TRUNK DIAMETER NOTED
- BOLLARD
- GUY POLE
- UNDERGROUND GAS MARKER
- CONCRETE SURFACE
- GRAVEL SURFACE
- MONITORING WELL
- TPN
- TAX PARCEL NUMBER

LEGEND

- POINT OF COMPLIANCE GROUNDWATER MONITORING WELL
- PROPOSED GRADE CONTOURS
- LANDFILL PARCEL
- CHAIN LINK FENCE LOCATION
- LIMIT OF CLEAR, GRUB & DISTURBANCE
- FORESTED AREA BOUNDARY
- ELEVATION CONTOUR (2FT INTERVAL)
- TRANSMISSION LINE EASEMENT BOUNDARY

08/17/2023

DATE	REVISION	PROJECT NUMBER	DESIGNED BY	DRAWN BY	REVIEWED BY
8/17/2023	1	150074	ECS	CMV	-

VEGETATIVE TOP SOIL PLAN

CLEANUP ACTION CONSTRUCTION PLANS

SHELTON C STREET LANDFILL

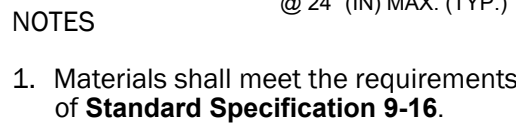
SHELTON, WASHINGTON

SHEET REFERENCE NUMBER:

C-03

SHEET 4 OF 6

CADD PATH: C:\City of Shelton\LEGISLATION\Shelton C Street Landfill\2023\08 Record Draw\150074.dwg (150074.dwg) 11 Date Saved: 8/9/2023 2:56:48 PM



DOUBLE GATE DETAIL 1
NTS C-05

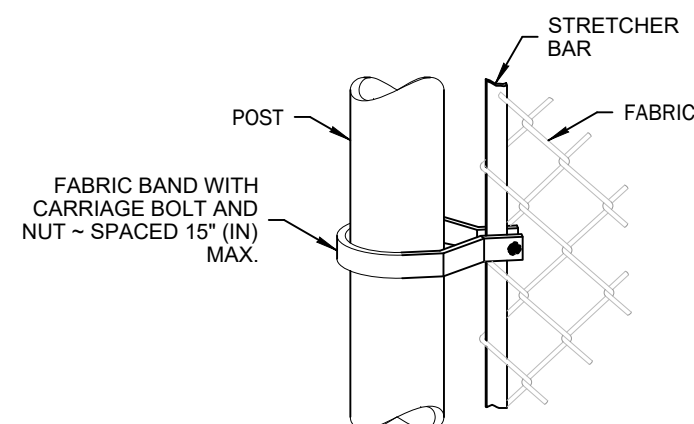


GATE POST CONNECTION DETAILS



FABRIC LOOP ~ 2 SIDES

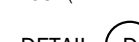
- ### NOTES
1. All concrete post bases shall be 10" (in) minimum diameter.
 2. Along the top and bottom, using Hog Rings, fasten the Chain Link Fence Fabric to the Tension Wire within the limits of the first full fabric weave.
 3. Details are illustrative and shall not limit hardware design or post selection of any particular fence type.
 4. Fencing shall be used for security and boundary delineation only.



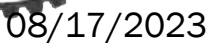
METHOD OF FASTENING STRETCHER BAR TO POST



CHAIN LINK FENCE TYPE 3



FENCE TYPE 3 CONNECTION DETAILS



A

B1

FENCE AND SIGNAGE DETAILS

C-05

APPENDIX C

Geotextile Manufacturer Specifications

2007 Westport Rd
PO Box 600
Aberdeen, WA 98520



Phone (360) 268-9231
Fax (360) 268-1454
Licensed and Bonded
BRUMF-CI-114-K4

Date: 12/15/2022

Submittal – Transmittal

To: City of Shelton - Public Works Dept.
Address: 525 West Cota, Shelton, WA 98584
Attn: Sam Adlington

Transmittal No. : 08

Project: C Street Landfill Cleanup Construction
Owner: City of Shelton - Public Works Dept.
Previous Transmittal No. (If Resubmitted) _____

Project No. : _____
Location: Shelton, WA

Use One Form Per Item Submitted

Qty	Spec. Paragraph No.	Spec Page No.	Item Description and Use	Manufacturer	Dwg. No.(s)	Approval Status Engineer
1	2.5		WSF 200 Geotextile	AFC West		

By this submittal, the Contractor represents that they have determined and verified all field measures, field construction criteria, materials, catalog numbers and similar data, or will do so and that they have checked and coordinated each submittal with the project requirements and the Contract Documents. Deviations are noted below.

Comments:

Contractor: Brumfield Construction, Inc.

Signature _____

Engineer Use Only

Enclosed are _____ copies of the above item. Approval status as noted above is in accordance with the following legend:

- ☐ No Exceptions Taken
- ☐ Make Corrections Noted
- ☐ Revise and Resubmit
- ☐ Submit Specified Item
- ☐ Rejected
- ☐ See Attached Review Comment Sheet Dated _____

By: _____

CC: _____



ACF West Inc. is a D.B.A. name for Northwest Geosynthetics Inc.
 8951 SE 76th Drive, Portland, OR 97206 (503) 771-5115, (800) 878-5115, (503)771-1161 fax

Product Data Sheet

WSF 200 (ACF 200) Woven Geotextile

WSF 200 is a woven slit film geotextile, and will meet the following physical properties when tested in accordance with the methods listed below. The individual slit films are woven together in such a manner as to provide dimensional stability relative to each other. The construction of the geotextile makes WSF 200 ideal for soil separation and stabilization. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils.

WSF 200 Woven Geotextile conforms to the following physical properties:

Property	Test Method	English (MARV) ¹
Weight (Typical)	ASTM D-5261	4.0 oz./SY
Grab Tensile Strength	ASTM D-4632	200 lbs
CBR Puncture	ASTM D-6241	700 lbs
Trapezoidal Tear	ASTM D-4533	80 lbs
UV Resistance	ASTM D-4355	80%
Apparent Opening Size (AOS) ²	ASTM D-4751	50 US Std. Sieve
Permittivity	ASTM D-4491	0.05 sec ⁻¹
Roll Sizes		12.5' x 432' 15' x 360' 17.5'x 309'

- 1) All values listed are Minimum Average Roll Value (MARV) unless otherwise noted, calculated as the typical minus two standard deviations. Statistically, it yields 97.7% degree of confidence that any sample taken during quality assurance testing will exceed the value reported.
- 2) Values for Apparent Opening size are Maximum Average Roll Values (MaxARV), typical value plus two standard deviations.

Note: WSF 200 fabric is manufactured and imported for ACF West Inc. by Gia Loi Joint Stock Company. Phuoc Thai Hamlet, Tahi Hoa Tan Uyen District. Binh Duon Province, Vietnam. ACF 200 is a trade name of ACF West Inc. and any use of this name without the expressed written consent of ACF West Inc. is strictly prohibited. The property values listed above are effective 11-1-2010 and subject to change without notice.

THIS PUBLICATION SHOULD NOT BE CONSTRUED AS ENGINEERING ADVICE. WHILE INFORMATION CONTAINED IN THIS PUBLICATION IS ACCURATE TO THE BEST OF OUR KNOWLEDGE, ACF WEST INC. DOES NOT WARRANT ITS ACCURACY OR COMPLETENESS. THE ULTIMATE CUSTOMER AND USER OF THE PRODUCTS SHOULD ASSUME SOLE RESPONSIBILITY FOR THE FINAL DETERMINATION OF THE SUITABILITY OF THE INFORMATION AND THE PRODUCTS FOR THE CONTEMPLATED AND ACTUAL USE. THE ONLY WARRANTY MADE BY ACF WEST INC. FOR ITS PRODUCTS IS SET FORTH IN OUR PRODUCT DATA SHEETS FOR THE PRODUCT, OR SUCH OTHER WRITTEN WARRANTY AS MAY BE AGREED BY ACF WEST INC. AND INDIVIDUAL CUSTOMERS. ACF WEST INC. SPECIFICALLY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM PROVISION OF SAMPLES, A COURSE OF DEALING OR USAGE OF TRADE.

2007 Westport Rd
PO Box 600
Aberdeen, WA 98520



Phone (360) 268-9231
Fax (360) 268-1454
Licensed and Bonded
BRUMF-CI-114-K4

Date: 12/16/2022

Submittal – Transmittal

To: City of Shelton - Public Works Dept.
Address: 525 West Cota, Shelton, WA 98584
Attn: Sam Adlington

Transmittal No. : 09

Project: C Street Landfill Cleanup Construction
Owner: City of Shelton - Public Works Dept.
Previous Transmittal No. (If Resubmitted) _____

Project No. : _____
Location: Shelton, WA

Use One Form Per Item Submitted

Qty	Spec. Paragraph No.	Spec Page No.	Item Description and Use	Manufacturer	Dwg. No.(s)	Approval Status Engineer
1	2.4		WSF 315 Geotextile	AFC West		

By this submittal, the Contractor represents that they have determined and verified all field measures, field construction criteria, materials, catalog numbers and similar data, or will do so and that they have checked and coordinated each submittal with the project requirements and the Contract Documents. Deviations are noted below.

Comments:

Contractor: Brumfield Construction, Inc.

Signature _____

Engineer Use Only

Enclosed are _____ copies of the above item. Approval status as noted above is in accordance with the following legend:

- ☐ No Exceptions Taken
- ☐ Make Corrections Noted
- ☐ Revise and Resubmit
- ☐ Submit Specified Item
- ☐ Rejected
- ☐ See Attached Review Comment Sheet Dated _____

By: _____

CC: _____

Product Data Sheet

WSF 315 Woven Geotextile

WSF 315 is a woven slit film geotextile, and will meet the following physical properties when tested in accordance with the methods listed below. The individual slit films are woven together in such a manner as to provide dimensional stability relative to each other. The construction of the geotextile makes WSF 315 ideal for soil separation and stabilization. The geotextile is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils.

WSF 315 woven Geotextile conforms to the following physical properties:

Property	Test Method	English (MARV) ¹
Grab Tensile	ASTM D-4632 (MC/CD)	315 lbs / 315 lbs
Grab Elongation	ASTM D-4632 (MC/CD)	15%
UV Resistance	ASTM D-4355	>80%
Trapezoidal Tear	ASTM D-4533 (MC/CD)	122 lbs
CBR Puncture	ASTM D-6241	1100 lbs
Apparent Opening Size (AOS) ²	ASTM D-4751	40 US Std. Sieve
Permittivity	ASTM D-4491	0.10 Sec ⁻¹
Roll Sizes		12.5' x 360' 17.5' x 258'

1. All values listed are Minimum Average Roll Value (MARV) unless otherwise noted, calculated as the typical minus two standard deviations. Statistically, it yields 97.7% degree of confidence that any sample taken during quality assurance testing will exceed the value reported.
2. Values for Apparent Opening size are Maximum Average Roll Value (MaxARV), typical value plus two standard deviations.
3. AASHTO M288 Separation Class I Compliant.

Note: WSF 315 fabric is manufactured and imported for ACF West Inc. by Gia Loi Joint Stock Company. Phuoc Thai Hamlet, Tahi Hoa Tan Uyen District. Binh Duon Province, Vietnam. WSF 315 is a trade name of ACF West Inc. and any use of this name without the expressed written consent of ACF West Inc. is strictly prohibited. The property values listed above are effective 02-1-2014 and subject to change without notice.

APPENDIX D

Laboratory Reports for Chemical and Physical Quality of Imported Material

2007 Westport Rd
PO Box 600
Aberdeen, WA 98520



Phone (360) 268-9231
Fax (360) 268-1454
Licensed and Bonded
BRUMF-CI-114-K4

Date: 02/16/2023

Submittal – Transmittal

To: City of Shelton - Public Works Dept.
Address: 525 West Cota, Shelton, WA 98584
Attn: Eric Schellenger

Transmittal No. : 12

Project: C Street Landfill Cleanup Construction
Owner: City of Shelton - Public Works Dept.
Previous Transmittal No. (If Resubmitted)

Project No. :
Location: Shelton, WA

Use One Form Per Item Submitted

Qty	Spec. Paragraph No.	Spec Page No.	Item Description and Use	Manufacturer	Dwg. No.(s)	Approval Status Engineer
1	2.4		Soil Cap Construction - Imported Fill Chemical Quality Information	Libby Environmental		

By this submittal, the Contractor represents that they have determined and verified all field measures, field construction criteria, materials, catalog numbers and similar data, or will do so and that they have checked and coordinated each submittal with the project requirements and the Contract Documents. Deviations are noted below.

Comments:

Contractor: Brumfield Construction, Inc.

Signature

Engineer Use Only

Enclosed are _____ copies of the above item. Approval status as noted above is in accordance with the following legend:

- ☐ No Exceptions Taken
- ☐ Make Corrections Noted
- ☐ Revise and Resubmit
- ☐ Submit Specified Item
- ☐ Rejected
- ☐ See Attached Review Comment Sheet Dated

By: _____

CC: _____



Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

February 15, 2023

Josh Franzke
Brumfield Construction, Inc.
2007 Westport Rd
Aberdeen, WA 98520

Dear Josh Frankze:

Please find enclosed the analytical data report for the Delphi Quarry project located in Delphi, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of within 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

3322 South Bay Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

Date: 02/06/23

Page: 1 of 1

Client: BRUMFIELD CONSTRUCTION INC

Project Manager: JOSH FRANZKE

Address: 2007 WESTPORT RD

Project Name: DELPHI QUARRY

City: ABERDEEN State: WA Zip: 98520

Location: City, State: DELPHI, WA

Phone: 360-268-9231 Fax:

Collector: GAGE HARSHMAN Date of Collection: 02/06/23

Client Project #

Email: JOSH@BRUMFIELD.COM

Sample Number	Depth	Time	Sample Type	Container Type													Field Notes
					VOC 8260	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	NWTPH-Dx / Dx	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	c PAH 8270	PAH 8270 + N4PMH5	Semi Vol 8270	
1 Soil 1	—	11:00 AM	Soil	Jar		X			X	X				X			
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	

Relinquished by: GAGE HARSHMAN	Date / Time: 02/06/23 4:25 PM	Received by: [Signature]	Date / Time: 2/6/23 1:25	Sample Receipt Good Condition? Y N Cooler Temp. °C Sample Temp. °C Total Number of Containers		Remarks: TAT: 24HR 48HR 5-DAY
Relinquished by:	Date / Time:	Received by:	Date / Time:			
Relinquished by:	Date / Time:	Received by:	Date / Time:			

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law.

Distribution: White - Lab, Yellow - Originator

Libby Environmental, Inc.

DELPHI QUARRY PROJECT
Brumfield Construction Inc
Delphi, Washington
Libby Project # L23B021

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@gmail.com

Analyses of Gasoline (NWTPH-Gx) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Gasoline (mg/kg)
Method Blank	2/9/2023	74	nd
Soil 1	2/9/2023	92	nd
Practical Quantitation Limit			10

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 41% TO 142%

ANALYSES PERFORMED BY: Alex Randolph

Libby Environmental, Inc.

DELPHI QUARRY PROJECT
Brumfield Construction Inc
Delphi, Washington
Libby Project # L23B021

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@gmail.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	2/7/2023	87	nd	nd
Laboratory Control Sample	2/7/2023	99	99%	n/a
Soil 1	2/7/2023	91	nd	nd
Soil 1 Dup	2/7/2023	90	nd	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Lucy Owens

Libby Environmental, Inc.

DELPHI QUARRY PROJECT

Brumfield Construction Inc

Delphi, Washington

Libby Project # L23B021

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

Analyses of Total Metals in Soil by EPA Method 7010 Series

Sample Number	Date Analyzed	Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Arsenic (mg/kg)
Method Blank	2/9/2023	nd	nd	nd	nd
Soil 1	2/9/2023	nd	nd	27	9.4
Practical Quantitation Limit		5.0	1.0	5.0	5.0
"nd" Indicates not detected at the listed detection limits.					

ANALYSES PERFORMED BY: Randolph Kraus

QA/QC for Total Metals in Soil by EPA Method 7010 Series

Sample Number	Date Analyzed	Lead (% Recovery)	Cadmium (% Recovery)	Chromium (% Recovery)	Arsenic (% Recovery)
LCS	2/9/2023	102%	102%	115%	113%
L23B019-01 MS	2/9/2023	93%	114%	109%	123%
L23B019-01 MSD	2/9/2023	83%	101%	94%	110%
RPD	2/9/2023	11%	12%	15%	11%

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 75%-125%

ACCEPTABLE RPD IS 20%

ANALYSES PERFORMED BY: Randolph Kraus

Libby Environmental, Inc.

DELPHI QUARRY PROJECT
Brumfield Construction Inc
Delphi, Washington
Libby Project # L23B021

3322 South Bay Road NE
Olympia, WA 98506
Phone: (360) 352-2110
FAX: (360) 352-4154
Email: libbyenv@gmail.com

Analyses of Total Mercury in Soil by EPA Method 7471

Sample Number	Date Analyzed	Mercury (mg/kg)
Method Blank	2/9/2023	nd
Soil 1	2/9/2023	nd
Practical Quantitation Limit		0.5
"nd" Indicates not detected at the listed detection limits.		

ANALYSES PERFORMED BY: Kory Dixon

QA/QC for Total Mercury by EPA Method 7471

Sample Number	Date Analyzed	Mercury (% Recovery)
LCS	2/9/2023	89%
L23B019-01 MS	2/9/2023	87%
L23B019-01 MSD	2/9/2023	89%
RPD	2/9/2023	2%

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 75%-125%
ACCEPTABLE RPD IS 20%

ANALYSES PERFORMED BY: Kory Dixon

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

DELPHI QUARRY PROJECT

Brumfield Construction Inc

Libby Project # L23B021

Date Received 2/6/23 16:25

Received By KD

Sample Receipt Checklist

Chain of Custody

- | | | | |
|--------------------------------------|--|--|----------------------------------|
| 1. Is the Chain of Custody complete? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | |
| 2. How was the sample delivered? | <input checked="" type="checkbox"/> Hand Delivered | <input type="checkbox"/> Picked Up | <input type="checkbox"/> Shipped |

Log In

- | | | | |
|---|---|--|---|
| 3. Cooler or Shipping Container is present. | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A |
| 4. Cooler or Shipping Container is in good condition. | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| 5. Cooler or Shipping Container has Custody Seals present. | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| 6. Was an attempt made to cool the samples? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A |
| 7. Temperature of cooler (0°C to 8°C recommended) | <u>N/A °C</u> | | |
| 8. Temperature of sample(s) (0°C to 8°C recommended) | <u>16.8 °C</u> | | |
| 9. Did all containers arrive in good condition (unbroken)? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 10. Is it clear what analyses were requested? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 11. Did container labels match Chain of Custody? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 12. Are matrices correctly identified on Chain of Custody? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 13. Are correct containers used for the analysis indicated? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 14. Is there sufficient sample volume for indicated analysis? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 15. Were all containers properly preserved per each analysis? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 16. Were VOA vials collected correctly (no headspace)? | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| 17. Were all holding times able to be met? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |

Discrepancies/ Notes

- | | | | |
|---|---|-----------------------------|---|
| 18. Was client notified of all discrepancies? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
|---|---|-----------------------------|---|

Person Notified: Josh

Date: 2/6/2023

By Whom: JA

Via: Email

Regarding: Analyses

19. Comments. Lab technician filled in COC per project requirements and labeled samples accordingly.

Clarified analyses with Josh.

Client Sampled from 5 gal bucket into jars and VOAs upon arrival at the lab.



Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Libby Environmental
Sherry Chilcutt
3322 South Bay Road NE
Olympia, WA 98506

RE: Delphi Quarry
Work Order Number: 2302142

February 15, 2023

Attention Sherry Chilcutt:

Fremont Analytical, Inc. received 1 sample(s) on 2/8/2023 for the analyses presented in the following report.

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com

CLIENT: Libby Environmental
Project: Delphi Quarry
Work Order: 2302142

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2302142-001	Soil 1	02/06/2023 11:00 AM	02/08/2023 10:22 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

CLIENT: Libby Environmental
Project: Delphi Quarry

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2302142

Date Reported: 2/15/2023

Client: Libby Environmental

Collection Date: 2/6/2023 11:00:00 AM

Project: Delphi Quarry

Lab ID: 2302142-001

Matrix: Soil

Client Sample ID: Soil 1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 39416

Analyst: CB

Naphthalene	ND	19.0		µg/Kg	1	2/14/2023 5:28:39 PM
2-Methylnaphthalene	ND	19.0		µg/Kg	1	2/14/2023 5:28:39 PM
1-Methylnaphthalene	ND	19.0		µg/Kg	1	2/14/2023 5:28:39 PM
Acenaphthylene	ND	19.0		µg/Kg	1	2/14/2023 5:28:39 PM
Acenaphthene	ND	19.0		µg/Kg	1	2/14/2023 5:28:39 PM
Fluorene	ND	19.0		µg/Kg	1	2/14/2023 5:28:39 PM
Phenanthrene	ND	19.0		µg/Kg	1	2/14/2023 5:28:39 PM
Anthracene	ND	19.0		µg/Kg	1	2/14/2023 5:28:39 PM
Fluoranthene	ND	19.0		µg/Kg	1	2/14/2023 5:28:39 PM
Pyrene	ND	38.1		µg/Kg	1	2/14/2023 5:28:39 PM
Benz(a)anthracene	ND	19.0		µg/Kg	1	2/14/2023 5:28:39 PM
Chrysene	ND	19.0		µg/Kg	1	2/14/2023 5:28:39 PM
Benzo(b)fluoranthene	ND	23.8		µg/Kg	1	2/14/2023 5:28:39 PM
Benzo(k)fluoranthene	ND	23.8	*	µg/Kg	1	2/14/2023 5:28:39 PM
Benzo(a)pyrene	ND	28.6		µg/Kg	1	2/14/2023 5:28:39 PM
Indeno(1,2,3-cd)pyrene	ND	38.1		µg/Kg	1	2/14/2023 5:28:39 PM
Dibenz(a,h)anthracene	ND	47.6		µg/Kg	1	2/14/2023 5:28:39 PM
Benzo(g,h,i)perylene	ND	47.6		µg/Kg	1	2/14/2023 5:28:39 PM
Surr: 2-Fluorobiphenyl	65.4	34.4 - 132		%Rec	1	2/14/2023 5:28:39 PM
Surr: Terphenyl-d14 (surr)	61.0	32.8 - 147		%Rec	1	2/14/2023 5:28:39 PM

NOTES:

* - Associated LCS is below acceptance criteria. Result may be low-biased.

Work Order: 2302142
CLIENT: Libby Environmental
Project: Delphi Quarry

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: MB-39416	SampType: MBLK	Units: µg/Kg			Prep Date: 2/13/2023			RunNo: 81865			
Client ID: MBLKS	Batch ID: 39416	Analysis Date: 2/14/2023						SeqNo: 1697481			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Acenaphthene	ND	20.0									
Acenaphthylene	ND	20.0									
Phenanthrene	ND	20.0									
Fluorene	ND	20.0									
Anthracene	ND	20.0									
Fluoranthene	ND	20.0									
Pyrene	ND	40.0									
Benz(a)anthracene	ND	20.0									
Chrysene	ND	20.0									
Benzo(b)fluoranthene	ND	25.0									
Benzo(k)fluoranthene	ND	25.0									*
Benzo(a)pyrene	ND	30.0									
Indeno(1,2,3-cd)pyrene	ND	40.0									
Dibenz(a,h)anthracene	ND	50.0									
Benzo(g,h,i)perylene	ND	50.0									
Surr: 2,4,6-Tribromophenol	1,420		2,000		70.9	54.6	144				
Surr: 2-Fluorobiphenyl	828		1,000		82.8	34.4	132				
Surr: Terphenyl-d14 (surr)	789		1,000		78.9	32.8	147				

NOTES:

* - Associated LCS is below acceptance criteria. Result may be low-biased.

Sample ID: LCS-39416	SampType: LCS	Units: µg/Kg				Prep Date: 2/13/2023			RunNo: 81865		
Client ID: LCSS	Batch ID: 39416					Analysis Date: 2/14/2023			SeqNo: 1697482		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,390	20.0	2,000	0	69.4	64.3	115				
2-Methylnaphthalene	1,350	20.0	2,000	0	67.3	58.9	122				
1-Methylnaphthalene	1,380	20.0	2,000	0	68.9	57.4	122				
Acenaphthene	1,360	20.0	2,000	0	68.0	61.1	119				

Work Order: 2302142
CLIENT: Libby Environmental
Project: Delphi Quarry

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: LCS-39416	SampType: LCS	Units: µg/Kg				Prep Date: 2/13/2023			RunNo: 81865		
Client ID: LCSS	Batch ID: 39416	Analysis Date: 2/14/2023							SeqNo: 1697482		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthylene	1,390	20.0	2,000	0	69.4	52.9	120				
Phenanthrene	1,290	20.0	2,000	0	64.7	60	118				
Fluorene	1,360	20.0	2,000	0	68.0	63.6	120				
Anthracene	1,410	20.0	2,000	0	70.4	59.5	119				
Fluoranthene	1,290	20.0	2,000	0	64.7	62.3	120				
Pyrene	1,310	40.0	2,000	0	65.6	61.1	120				
Benz(a)anthracene	1,370	20.0	2,000	0	68.4	61.5	123				
Chrysene	1,250	20.0	2,000	0	62.4	58.6	120				
Benzo(b)fluoranthene	1,260	25.0	2,000	0	63.2	62.1	124				
Benzo(k)fluoranthene	1,200	25.0	2,000	0	59.8	60.3	116				S
Benzo(a)pyrene	1,320	30.0	2,000	0	66.1	51.6	115				
Indeno(1,2,3-cd)pyrene	1,350	40.0	2,000	0	67.6	53.8	127				
Dibenz(a,h)anthracene	1,340	50.0	2,000	0	67.2	53.3	127				
Benzo(g,h,i)perylene	1,320	50.0	2,000	0	65.8	48.6	122				
Surr: 2,4,6-Tribromophenol	1,670		2,000		83.4	54.6	144				
Surr: 2-Fluorobiphenyl	830		1,000		83.0	34.4	132				
Surr: Terphenyl-d14 (surr)	837		1,000		83.7	32.8	147				

NOTES:

S - Outlying spike recovery observed (high bias). Detections will be qualified with a *.

Sample ID: 2302203-008AMS	SampType: MS	Units: µg/Kg-dry				Prep Date: 2/13/2023			RunNo: 81865		
Client ID: BATCH	Batch ID: 39416	Analysis Date: 2/15/2023							SeqNo: 1697498		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,390	24.2	2,419	0	57.3	55.7	105				
2-Methylnaphthalene	1,380	24.2	2,419	0	57.1	56.6	103				
1-Methylnaphthalene	1,390	24.2	2,419	0	57.6	56.1	101				
Acenaphthene	1,380	24.2	2,419	0	57.0	55.9	107				
Acenaphthylene	1,380	24.2	2,419	0	56.9	53.8	100				
Phenanthrene	1,310	24.2	2,419	0	54.2	49.1	109				
Fluorene	1,370	24.2	2,419	0	56.7	55.7	107				
Anthracene	1,300	24.2	2,419	0	53.7	52.4	107				

Work Order: 2302142
CLIENT: Libby Environmental
Project: Delphi Quarry

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2302203-008AMS		SampType: MS		Units: µg/Kg-dry		Prep Date: 2/13/2023		RunNo: 81865			
Client ID: BATCH		Batch ID: 39416				Analysis Date: 2/15/2023		SeqNo: 1697498			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluoranthene	1,320	24.2	2,419	0	54.6	53.1	110				
Pyrene	1,340	48.4	2,419	0	55.6	52.5	109				
Benz(a)anthracene	1,380	24.2	2,419	0	57.1	53.4	112				
Chrysene	1,290	24.2	2,419	0	53.5	52	105				
Benzo(b)fluoranthene	1,310	30.2	2,419	0	54.0	51.3	119				
Benzo(k)fluoranthene	1,250	30.2	2,419	0	51.7	50.3	108				
Benzo(a)pyrene	1,400	36.3	2,419	0	57.7	48.5	106				
Indeno(1,2,3-cd)pyrene	1,400	48.4	2,419	0	58.0	42.1	113				
Dibenz(a,h)anthracene	1,420	60.5	2,419	0	58.9	40.4	114				
Benzo(g,h,i)perylene	1,350	60.5	2,419	0	55.9	34.7	105				
Surr: 2,4,6-Tribromophenol	1,720		2,419		71.2	54.6	144				
Surr: 2-Fluorobiphenyl	833		1,209		68.8	34.4	132				
Surr: Terphenyl-d14 (surr)	785		1,209		64.9	32.8	147				

Sample ID: 2302203-008AMS		SampType: MSD		Units: µg/Kg-dry		Prep Date: 2/13/2023		RunNo: 81865			
Client ID: BATCH		Batch ID: 39416				Analysis Date: 2/15/2023		SeqNo: 1697499			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,420	23.9	2,385	0	59.4	55.7	105	1,386	2.18	30	
2-Methylnaphthalene	1,390	23.9	2,385	0	58.3	56.6	103	1,381	0.635	30	
1-Methylnaphthalene	1,420	23.9	2,385	0	59.4	56.1	101	1,394	1.62	30	
Acenaphthene	1,390	23.9	2,385	0	58.3	55.9	107	1,378	0.898	30	
Acenaphthylene	1,390	23.9	2,385	0	58.3	53.8	100	1,376	1.07	30	
Phenanthrene	1,300	23.9	2,385	0	54.7	49.1	109	1,311	0.492	30	
Fluorene	1,380	23.9	2,385	0	57.9	55.7	107	1,371	0.664	30	
Anthracene	1,310	23.9	2,385	0	54.9	52.4	107	1,299	0.843	30	
Fluoranthene	1,340	23.9	2,385	0	56.0	53.1	110	1,322	1.10	30	
Pyrene	1,350	47.7	2,385	0	56.6	52.5	109	1,344	0.355	30	
Benz(a)anthracene	1,390	23.9	2,385	0	58.1	53.4	112	1,381	0.435	30	
Chrysene	1,320	23.9	2,385	0	55.3	52	105	1,294	1.84	30	
Benzo(b)fluoranthene	1,320	29.8	2,385	0	55.3	51.3	119	1,306	1.03	30	

Work Order: 2302142
CLIENT: Libby Environmental
Project: Delphi Quarry

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2302203-008AMSD		SampType: MSD		Units: µg/Kg-dry		Prep Date: 2/13/2023		RunNo: 81865			
Client ID: BATCH		Batch ID: 39416				Analysis Date: 2/15/2023		SeqNo: 1697499			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(k)fluoranthene	1,270	29.8	2,385	0	53.3	50.3	108	1,252	1.54	30	
Benzo(a)pyrene	1,410	35.8	2,385	0	59.0	48.5	106	1,395	0.910	30	
Indeno(1,2,3-cd)pyrene	1,420	47.7	2,385	0	59.4	42.1	113	1,402	1.07	30	
Dibenz(a,h)anthracene	1,430	59.6	2,385	0	59.8	40.4	114	1,424	0.224	30	
Benzo(g,h,i)perylene	1,360	59.6	2,385	0	57.1	34.7	105	1,352	0.806	30	
Surr: 2,4,6-Tribromophenol	1,700		2,385		71.2	54.6	144		0		
Surr: 2-Fluorobiphenyl	834		1,193		69.9	34.4	132		0		
Surr: Terphenyl-d14 (surr)	776		1,193		65.1	32.8	147		0		

Client Name: LIBBY

Work Order Number: 2302142

Logged by: Clare Griggs

Date Received: 2/8/2023 10:22:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? UPS

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☐ No ☐ Not Present ☒
6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
7. Were all items received at a temperature of >2°C to 6°C * Yes ☒ No ☐ NA ☐
8. Sample(s) in proper container(s)? Yes ☒ No ☐
9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
10. Are samples properly preserved? Yes ☒ No ☐
11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
14. Does paperwork match bottle labels? Yes ☒ No ☐
15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
16. Is it clear what analyses were requested? Yes ☒ No ☐
17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp °C
Sample	4.6

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

**SUBCONTRACT
ORDER
L23B021**

2302142

Sending Laboratory:

Libby Environmental, Inc.
3322 South Bay Road NE
Olympia, WA 98506
Phone: 360-352-2110
Fax: 360-352-4154

Project Manager: Sherry Chilcutt
LibbyEnv@gmail.com

Subcontracted Laboratory:

Fremont Analytical, Inc.
3600 Fremont Ave N
Seattle, WA 98103
Phone: (206) 352-3790
Fax:

Requested Turnaround (TAT) STD

Project: Delphi Quarry

Analysis

Comments

Client Sample ID: Soil 1 *Soil* **Sampled:** 02/06/2023 11:00

Lab ID: L23B021-01

8270 PAH

+ Naphths *Sim*

Containers Supplied:

[Signature]
Released By
[Signature]
Date
2.7.23

[Signature] 02/18/23
Received By
Date
10:22

2007 Westport Rd
PO Box 600
Aberdeen, WA 98520



Phone (360) 268-9231
Fax (360) 268-1454
Licensed and Bonded
BRUMF-CI-114-K4

Date: 03/09/2023

Submittal – Transmittal

To: Aspect Consulting
Address: 50414th Ave SE Suite 200, Olympia, WA 985
Attn: Eric Sschellenger

Transmittal No. : 13

Project: C Street Landfill Cleanup Construction
Owner: City of Shelton
Previous Transmittal No. (If Resubmitted) _____

Project No. : 22-244-80
Location: Shelton, WA

Use One Form Per Item Submitted

Qty	Spec. Paragraph No.	Spec Page No.	Item Description and Use	Manufacturer	Dwg. No.(s)	Approval Status Engineer
1	2.4		Soil Cap Construction - Im	Libby Environme		

By this submittal, the Contractor represents that they have determined and verified all field measures, field construction criteria, materials, catalog numbers and similar data, or will do so and that they have checked and coordinated each submittal with the project requirements and the Contract Documents. Deviations are noted below.

Comments:

Contractor: Brumfield Construction, Inc.

Signature Josh Franzke

Engineer Use Only

Enclosed are _____ copies of the above item. Approval status as noted above is in accordance with the following legend:

- ☐ No Exceptions Taken
- ☐ Make Corrections Noted
- ☐ Revise and Resubmit
- ☐ Submit Specified Item
- ☐ Rejected
- ☐ See Attached Review Comment Sheet Dated _____

By: _____
CC: _____



Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

March 8, 2023

Josh Franzke
Brumfield Construction
2007 Westport Road
Aberdeen, WA 98520

Dear Josh Franzke:

Please find enclosed the analytical data report for the Delphi Quarry project located in Olympia, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of within 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

A handwritten signature in black ink, appearing to read "Sherry L. Chilcutt".

Sherry L. Chilcutt
Senior Chemist
Libby Environmental, Inc.

Libby Environmental, Inc.

Chain of Custody Record

www.LibbyEnvironmental.com

3322 South Bay Road NE

Ph: 360-352-2110

Olympia, WA 98506

Fax: 360-352-4154

Client: BRUMFIELD CONSTRUCTION

Address: 2007 WEST PORT ROAD

City: ABERDEEN

State: WA

Zip: 98520

Phone: 360-915-2438

Fax:

Client Project #

Date: 2-28-23

Page:

of

Project Manager: JOSH FRANZKE

Project Name: DELPHI QUARRY

Location: DELPHI RD SW

City, State: OLYMPIA, WA

Collector: GAGE HARSHMAN

Date of Collection: 2-28-23

Email: JOSH@BRUMFIELDINC.COM



Sample Number

Depth

Time

Sample Type

Container Type

VOC 8260
PCE & Daughter Prod.
NWTPH-Gx

BTEX (8260) / (8021)
NWTPH-HCl/D
NWTPH-Dx/Dx

PCB 8082
MTCA 5 Metals
RCRA 8 Metals

cPAH 8270
PAH 8270 + Naphthalene

Semi Vol 8270

Field Notes

1 #2

—

1200

Soil

VOA

X

X

X

X

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

Relinquished by:

Date / Time

Received by:

Date / Time

Sample Receipt

Remarks:

2-28-23/4:46

2-28-23/1:50

Good Condition? Y N

Cooler Temp. °C

Sample Temp. °C

Relinquished by:

Date / Time

Received by:

Date / Time

Total Number of Containers

Relinquished by:

Date / Time

Received by:

Date / Time

TAT: 24HR 48HR 5-DAY

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law.

Distribution: White - Lab, Yellow - Originator

Libby Environmental, Inc.

DELPHI QUARRY PROJECT

Brumfield Construction

Olympia, Washington

Libby Project # L23C001

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

Analyses of Gasoline (NWTPH-Gx) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Gasoline (mg/kg)
Method Blank	3/1/2023	98	nd
#2	3/1/2023	96	nd
Practical Quantitation Limit			10

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Toluene-d8): 41% TO 142%

ANALYSES PERFORMED BY: Paul Burke

Libby Environmental, Inc.

DELPHI QUARRY PROJECT

Brumfield Construction

Olympia, Washington

Libby Project # L23C001

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	3/3/2023	102	nd	nd
LCS	3/3/2023	114	125%	n/a
#2	3/3/2023	99	nd	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Kristin Hintz

Libby Environmental, Inc.

DELPHI QUARRY PROJECT

Brumfield Construction

Olympia, Washington

Libby Project # L23C001

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

Analyses of Total Mercury in Soil by EPA Method 7471

Sample Number	Date Analyzed	Mercury (mg/kg)
Method Blank	3/2/2023	nd
#2	3/2/2023	nd
Practical Quantitation Limit		0.5
"nd" Indicates not detected at the listed detection limits.		

ANALYSES PERFORMED BY: Kory Dixon

QA/QC for Total Mercury by EPA Method 7471

Sample Number	Date Analyzed	Mercury (% Recovery)
LCS	3/2/2023	81%
L23B124-01 MS	3/2/2023	82%
L23B124-01 MSD	3/2/2023	85%
RPD	3/2/2023	4%

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 75%-125%

ACCEPTABLE RPD IS 20%

ANALYSES PERFORMED BY: Kory Dixon

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@gmail.com

DELPHI QUARRY PROJECT

Brumfield Construction

Libby Project # L23C001

Date Received 2/28/23 16:50

Received By KD

Sample Receipt Checklist

Chain of Custody

- | | | | |
|--------------------------------------|--|--|----------------------------------|
| 1. Is the Chain of Custody complete? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | |
| 2. How was the sample delivered? | <input checked="" type="checkbox"/> Hand Delivered | <input type="checkbox"/> Picked Up | <input type="checkbox"/> Shipped |

Log In

- | | | | |
|---|---|--|---|
| 3. Cooler or Shipping Container is present. | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A |
| 4. Cooler or Shipping Container is in good condition. | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| 5. Cooler or Shipping Container has Custody Seals present. | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
| 6. Was an attempt made to cool the samples? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A |
| 7. Temperature of cooler (0°C to 8°C recommended) | <u>n/a °C</u> | | |
| 8. Temperature of sample(s) (0°C to 8°C recommended) | <u>13.1 °C</u> | | |
| 9. Did all containers arrive in good condition (unbroken)? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 10. Is it clear what analyses were requested? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 11. Did container labels match Chain of Custody? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 12. Are matrices correctly identified on Chain of Custody? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 13. Are correct containers used for the analysis indicated? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 14. Is there sufficient sample volume for indicated analysis? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 15. Were all containers properly preserved per each analysis? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 16. Were VOA vials collected correctly (no headspace)? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 17. Were all holding times able to be met? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |

Discrepancies/ Notes

- | | | | |
|---|---|-----------------------------|------------------------------|
| 18. Was client notified of all discrepancies? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
|---|---|-----------------------------|------------------------------|

Person Notified: Brumfield Construction Employee

Date: 2/28/2023

By Whom: Kory Dixon

Via: In person

Regarding: No analyses indicated on COC

- | | |
|---------------|---|
| 19. Comments. | <u>Client requested same analyses to be performed as previously received project.</u> |
| | <u></u> |
| | <u></u> |
| | <u></u> |



Fremont
Analytical

3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

info@fremontanalytical.com

Libby Environmental

Sherry Chilcutt
3322 South Bay Road NE
Olympia, WA 98506

RE: Delphi Quarry

Work Order Number: 2303024

March 07, 2023

Attention Sherry Chilcutt:

Fremont Analytical, Inc. received 1 sample(s) on 3/2/2023 for the analyses presented in the following report.

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample Moisture (Percent Moisture)

Total Metals by EPA Method 6020B

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

*DoD-ELAP Accreditation #79636 by PJLA, ISO/IEC 17025:2017 and QSM 5.3 for Environmental Testing
ORELAP Certification: WA 100009 (NELAP Recognized) for Environmental Testing
Washington State Department of Ecology Accredited for Environmental Testing, Lab ID C910*

Original

www.fremontanalytical.com



Date: 03/07/2023

CLIENT: Libby Environmental
Project: Delphi Quarry
Work Order: 2303024

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2303024-001	#2	02/28/2023 12:00 PM	03/02/2023 9:44 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

CLIENT: Libby Environmental
Project: Delphi Quarry

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



Analytical Report

Work Order: 2303024

Date Reported: 3/7/2023

Client: Libby Environmental

Collection Date: 2/28/2023 12:00:00 PM

Project: Delphi Quarry

Lab ID: 2303024-001

Matrix: Soil

Client Sample ID: #2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Batch ID: 39601

Analyst: CB

Naphthalene	ND	24.0		µg/Kg-dry	1	3/4/2023 1:45:42 AM
2-Methylnaphthalene	ND	24.0		µg/Kg-dry	1	3/4/2023 1:45:42 AM
1-Methylnaphthalene	ND	24.0		µg/Kg-dry	1	3/4/2023 1:45:42 AM
Acenaphthylene	ND	24.0		µg/Kg-dry	1	3/4/2023 1:45:42 AM
Acenaphthene	ND	24.0		µg/Kg-dry	1	3/4/2023 1:45:42 AM
Fluorene	ND	24.0		µg/Kg-dry	1	3/4/2023 1:45:42 AM
Phenanthrene	ND	24.0		µg/Kg-dry	1	3/4/2023 1:45:42 AM
Anthracene	ND	24.0		µg/Kg-dry	1	3/4/2023 1:45:42 AM
Fluoranthene	ND	24.0		µg/Kg-dry	1	3/4/2023 1:45:42 AM
Pyrene	ND	48.1		µg/Kg-dry	1	3/4/2023 1:45:42 AM
Benz(a)anthracene	ND	24.0		µg/Kg-dry	1	3/4/2023 1:45:42 AM
Chrysene	ND	24.0		µg/Kg-dry	1	3/4/2023 1:45:42 AM
Benzo(b)fluoranthene	ND	30.1		µg/Kg-dry	1	3/4/2023 1:45:42 AM
Benzo(k)fluoranthene	ND	30.1		µg/Kg-dry	1	3/4/2023 1:45:42 AM
Benzo(a)pyrene	ND	36.1		µg/Kg-dry	1	3/4/2023 1:45:42 AM
Indeno(1,2,3-cd)pyrene	ND	48.1		µg/Kg-dry	1	3/4/2023 1:45:42 AM
Dibenz(a,h)anthracene	ND	60.1		µg/Kg-dry	1	3/4/2023 1:45:42 AM
Benzo(g,h,i)perylene	ND	60.1		µg/Kg-dry	1	3/4/2023 1:45:42 AM
Surr: 2-Fluorobiphenyl	74.7	34.4 - 132		%Rec	1	3/4/2023 1:45:42 AM
Surr: Terphenyl-d14 (surr)	73.9	32.8 - 147		%Rec	1	3/4/2023 1:45:42 AM

Total Metals by EPA Method 6020B

Batch ID: 39599

Analyst: SLL

Arsenic	1.15	0.239		mg/Kg-dry	1	3/3/2023 2:48:00 PM
Cadmium	0.0507	0.0191		mg/Kg-dry	1	3/3/2023 2:48:00 PM
Chromium	25.9	0.239		mg/Kg-dry	1	3/3/2023 2:48:00 PM
Lead	1.54	0.957		mg/Kg-dry	1	3/3/2023 2:48:00 PM

Sample Moisture (Percent Moisture)

Batch ID: R82183

Analyst: AS

Percent Moisture	20.9			wt%	1	3/3/2023 8:23:50 AM
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Work Order: 2303024
CLIENT: Libby Environmental
Project: Delphi Quarry

QC SUMMARY REPORT

Total Metals by EPA Method 6020B

Sample ID: MB-39599		SampType: MBLK		Units: mg/Kg		Prep Date: 3/3/2023			RunNo: 82198		
Client ID: MBLKS		Batch ID: 39599					Analysis Date: 3/3/2023			SeqNo: 1707107	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	0.250									
Cadmium	ND	0.0200									
Chromium	ND	0.250									
Lead	ND	1.00									

Sample ID: LCS-39599	SampType: LCS	Units: mg/Kg				Prep Date: 3/3/2023			RunNo: 82198		
Client ID: LCSS	Batch ID: 39599					Analysis Date: 3/3/2023			SeqNo: 1707108		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	39.3	0.200	40.00	0	98.4	80	120				
Cadmium	1.92	0.0160	2.000	0	95.9	80	120				
Chromium	40.3	0.200	40.00	0	101	80	120				
Lead	19.5	0.800	20.00	0	97.7	80	120				

Sample ID: 2303024-001AMS	SampType: MS	Units: mg/Kg-dry				Prep Date: 3/3/2023			RunNo: 82198		
Client ID: #2	Batch ID: 39599					Analysis Date: 3/3/2023			SeqNo: 1707111		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	30.2	0.239	47.86	1.147	60.8	75	125				S
Cadmium	1.91	0.0191	2.393	0.05073	77.8	75	125				
Chromium	49.3	0.239	47.86	25.90	48.8	75	125				S
Lead	20.5	0.957	23.93	1.541	79.1	75	125				

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Sample ID: 2303024-001AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 3/3/2023			RunNo: 82198		
Client ID: #2		Batch ID: 39599		Analysis Date: 3/3/2023					SeqNo: 1707112		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	29.9	0.238	47.50	1.147	60.6	75	125	30.24	1.02	20	S
Cadmium	1.92	0.0190	2.375	0.05073	78.7	75	125	1.913	0.315	20	



Work Order: 2303024
CLIENT: Libby Environmental
Project: Delphi Quarry

QC SUMMARY REPORT

Total Metals by EPA Method 6020B

Sample ID: 2303024-001AMSD		SampType: MSD		Units: mg/Kg-dry		Prep Date: 3/3/2023			RunNo: 82198		
Client ID: #2		Batch ID: 39599					Analysis Date: 3/3/2023			SeqNo: 1707112	
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	48.6	0.238	47.50	25.90	47.8	75	125	49.27	1.35	20	S
Lead	22.3	0.950	23.75	1.541	87.5	75	125	20.47	8.65	20	

NOTES:

S - Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.

Work Order: 2303024
CLIENT: Libby Environmental
Project: Delphi Quarry

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: MB-39601	SampType: MBLK	Units: µg/Kg			Prep Date: 3/3/2023			RunNo: 82230			
Client ID: MBLKS	Batch ID: 39601	Analysis Date: 3/3/2023						SeqNo: 1707855			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	20.0									
2-Methylnaphthalene	ND	20.0									
1-Methylnaphthalene	ND	20.0									
Acenaphthene	ND	20.0									
Acenaphthylene	ND	20.0									
Phenanthrene	ND	20.0									
Fluorene	ND	20.0									
Anthracene	ND	20.0									
Fluoranthene	ND	20.0									
Pyrene	ND	40.0									
Benzo(a)anthracene	ND	20.0									
Chrysene	ND	20.0									
Benzo(b)fluoranthene	ND	25.0									
Benzo(k)fluoranthene	ND	25.0									
Benzo(a)pyrene	ND	30.0									
Indeno(1,2,3-cd)pyrene	ND	40.0									
Dibenz(a,h)anthracene	ND	50.0									
Benzo(g,h,i)perylene	ND	50.0									
Surr: 2-Fluorobiphenyl	798		1,000		79.8	34.4	132				
Surr: Terphenyl-d14 (surr)	810		1,000		81.0	32.8	147				

Sample ID: LCS-39601	SampType: LCS	Units: µg/Kg				Prep Date: 3/3/2023			RunNo: 82230		
Client ID: LCSS	Batch ID: 39601	Analysis Date: 3/3/2023						SeqNo: 1707856			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,860	20.0	2,000	0	92.8	64.3	115				
2-Methylnaphthalene	1,840	20.0	2,000	0	92.1	58.9	122				
1-Methylnaphthalene	1,840	20.0	2,000	0	91.9	57.4	122				
Acenaphthene	1,830	20.0	2,000	0	91.7	61.1	119				
Acenaphthylene	1,820	20.0	2,000	0	91.1	52.9	120				
Phenanthrene	1,840	20.0	2,000	0	92.1	60	118				

Work Order: 2303024
CLIENT: Libby Environmental
Project: Delphi Quarry

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: LCS-39601	SampType: LCS	Units: µg/Kg				Prep Date: 3/3/2023			RunNo: 82230		
Client ID: LCSS	Batch ID: 39601	Analysis Date: 3/3/2023						SeqNo: 1707856			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	1,870	20.0	2,000	0	93.6	63.6	120				
Anthracene	1,810	20.0	2,000	0	90.5	59.5	119				
Fluoranthene	1,860	20.0	2,000	0	92.8	62.3	120				
Pyrene	1,870	40.0	2,000	0	93.5	61.1	120				
Benz(a)anthracene	1,930	20.0	2,000	0	96.4	61.5	123				
Chrysene	1,790	20.0	2,000	0	89.3	58.6	120				
Benzo(b)fluoranthene	1,860	25.0	2,000	0	93.2	62.1	124				
Benzo(k)fluoranthene	1,820	25.0	2,000	0	90.8	60.3	116				
Benzo(a)pyrene	1,870	30.0	2,000	0	93.5	51.6	115				
Indeno(1,2,3-cd)pyrene	1,920	40.0	2,000	0	95.8	53.8	127				
Dibenz(a,h)anthracene	1,830	50.0	2,000	0	91.6	53.3	127				
Benzo(g,h,i)perylene	1,880	50.0	2,000	0	94.2	48.6	122				
Surr: 2-Fluorobiphenyl	770		1,000		77.0	34.4	132				
Surr: Terphenyl-d14 (surr)	809		1,000		80.9	32.8	147				

Sample ID: 2303025-001AMS	SampType: MS	Units: µg/Kg-dry				Prep Date: 3/3/2023			RunNo: 82230		
Client ID: BATCH	Batch ID: 39601					Analysis Date: 3/3/2023			SeqNo: 1707858		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,760	21.6	2,163	0	81.5	55.7	105				
2-Methylnaphthalene	1,730	21.6	2,163	0	79.7	56.6	103				
1-Methylnaphthalene	1,720	21.6	2,163	0	79.4	56.1	101				
Acenaphthene	1,680	21.6	2,163	0	77.9	55.9	107				
Acenaphthylene	1,700	21.6	2,163	0	78.4	53.8	100				
Phenanthrene	1,720	21.6	2,163	0	79.6	49.1	109				
Fluorene	1,740	21.6	2,163	0	80.5	55.7	107				
Anthracene	1,680	21.6	2,163	0	77.5	52.4	107				
Fluoranthene	1,720	21.6	2,163	0	79.3	53.1	110				
Pyrene	1,720	43.3	2,163	0	79.7	52.5	109				
Benz(a)anthracene	1,780	21.6	2,163	0	82.3	53.4	112				
Chrysene	1,670	21.6	2,163	0	77.1	52	105				

Work Order: 2303024
CLIENT: Libby Environmental
Project: Delphi Quarry

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2303025-001AMS		SampType: MS		Units: µg/Kg-dry		Prep Date: 3/3/2023			RunNo: 82230		
Client ID: BATCH		Batch ID: 39601		Analysis Date: 3/3/2023					SeqNo: 1707858		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	1,750	27.0	2,163	0	81.0	51.3	119				
Benzo(k)fluoranthene	1,670	27.0	2,163	0	77.2	50.3	108				
Benzo(a)pyrene	1,750	32.4	2,163	0	80.8	48.5	106				
Indeno(1,2,3-cd)pyrene	1,860	43.3	2,163	26.14	84.8	42.1	113				
Dibenz(a,h)anthracene	1,880	54.1	2,163	31.40	85.5	40.4	114				
Benzo(g,h,i)perylene	1,830	54.1	2,163	0	84.6	34.7	105				
Surr: 2-Fluorobiphenyl	719		1,082		66.4	34.4	132				
Surr: Terphenyl-d14 (surr)	747		1,082		69.1	32.8	147				

Sample ID: 2303025-001AMSD	SampType: MSD	Units: µg/Kg-dry			Prep Date: 3/3/2023			RunNo: 82230			
Client ID: BATCH	Batch ID: 39601	Analysis Date: 3/3/2023						SeqNo: 1707859			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1,730	21.7	2,167	0	80.0	55.7	105	1,763	1.68	30	
2-Methylnaphthalene	1,720	21.7	2,167	0	79.5	56.6	103	1,725	0.0889	30	
1-Methylnaphthalene	1,730	21.7	2,167	0	79.7	56.1	101	1,717	0.661	30	
Acenaphthene	1,710	21.7	2,167	0	78.8	55.9	107	1,685	1.40	30	
Acenaphthylene	1,720	21.7	2,167	0	79.4	53.8	100	1,696	1.43	30	
Phenanthrene	1,750	21.7	2,167	0	80.6	49.1	109	1,721	1.46	30	
Fluorene	1,760	21.7	2,167	0	81.2	55.7	107	1,741	1.06	30	
Anthracene	1,720	21.7	2,167	0	79.4	52.4	107	1,677	2.56	30	
Fluoranthene	1,760	21.7	2,167	0	81.2	53.1	110	1,715	2.61	30	
Pyrene	1,780	43.3	2,167	0	82.3	52.5	109	1,724	3.41	30	
Benz(a)anthracene	1,830	21.7	2,167	0	84.4	53.4	112	1,780	2.68	30	
Chrysene	1,720	21.7	2,167	0	79.5	52	105	1,667	3.23	30	
Benzo(b)fluoranthene	1,840	27.1	2,167	0	84.8	51.3	119	1,752	4.70	30	
Benzo(k)fluoranthene	1,730	27.1	2,167	0	79.8	50.3	108	1,671	3.49	30	
Benzo(a)pyrene	1,820	32.5	2,167	0	83.8	48.5	106	1,748	3.77	30	
Indeno(1,2,3-cd)pyrene	1,940	43.3	2,167	26.14	88.5	42.1	113	1,860	4.44	30	
Dibenz(a,h)anthracene	2,000	54.2	2,167	31.40	90.9	40.4	114	1,881	6.23	30	
Benzo(g,h,i)perylene	1,880	54.2	2,167	0	86.7	34.7	105	1,830	2.58	30	

Work Order: 2303024
CLIENT: Libby Environmental
Project: Delphi Quarry

QC SUMMARY REPORT

Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: 2303025-001AMSD		SampType: MSD			Units: µg/Kg-dry		Prep Date: 3/3/2023			RunNo: 82230		
Client ID: BATCH		Batch ID: 39601			Analysis Date: 3/3/2023			SeqNo: 1707859				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Surr: 2-Fluorobiphenyl	723		1,084		66.7	34.4	132		0			
Surr: Terphenyl-d14 (surr)	760		1,084		70.2	32.8	147		0			

Client Name: LIBBY

Work Order Number: 2303024

Logged by: Clare Griggs

Date Received: 3/2/2023 9:44:00 AM

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes ☒ No ☐ Not Present ☐
6. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
7. Were all items received at a temperature of $>2^{\circ}\text{C}$ to 6°C * Yes ☒ No ☐ NA ☐
8. Sample(s) in proper container(s)? Yes ☒ No ☐
9. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
10. Are samples properly preserved? Yes ☒ No ☐
11. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
12. Is there headspace in the VOA vials? Yes ☐ No ☐ NA ☒
13. Did all samples containers arrive in good condition(unbroken)? Yes ☒ No ☐
14. Does paperwork match bottle labels? Yes ☒ No ☐
15. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
16. Is it clear what analyses were requested? Yes ☒ No ☐
17. Were all holding times able to be met? Yes ☒ No ☐

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

19. Additional remarks:

Item Information

Item #	Temp $^{\circ}\text{C}$
Sample	3.8

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



2303024
Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

**SUBCONTRACT
ORDER
L23C001**

Sending Laboratory:

Libby Environmental, Inc.
3322 South Bay Road NE
Olympia, WA 98506
Phone: 360-352-2110
Fax: 360-352-4154

Project Manager: Sherry Chilcutt
LibbyEnv@gmail.com

Subcontracted Laboratory:

Fremont Analytical, Inc.
3600 Fremont Ave N
Seattle, WA 98103
Phone: (206) 352-3790
Fax:

Requested Turnaround (TAT) Std

Project: Delphi Quarry

Analysis

Comments

Client Sample ID: #2 Soil Sampled: 02/28/2023 12:00

Lab ID: L23C001-01

8270 PAH
Metals SUB MTCA 4

+Naphths
Totals please

Containers Supplied:

Released By

Date

3.1.23

Received By

Date

2007 Westport Rd
PO Box 600
Aberdeen, WA 98520



Phone (360) 268-9231
Fax (360) 268-1454
Licensed and Bonded
BRUMF-CI-114-K4

Date: 06/06/2023

Submittal – Transmittal

To: City of Shelton - Public Works Dept.
Address: 525 West Cota, Shelton, WA 98584
Attn: Eric Schellenger

Transmittal No. : 25

Project: C Street Landfill Cleanup Construction
Owner: City of Shelton - Public Works Dept.
Previous Transmittal No. (If Resubmitted)

Project No. :
Location: Shelton, WA

Use One Form Per Item Submitted

Qty	Spec. Paragraph No.	Spec Page No.	Item Description and Use	Manufacturer	Dwg. No.(s)	Approval Status Engineer
1	2.4.2.1		Environmental Testing - Low Permeability Soil Layer	Libby Environmental		

By this submittal, the Contractor represents that they have determined and verified all field measures, field construction criteria, materials, catalog numbers and similar data, or will do so and that they have checked and coordinated each submittal with the project requirements and the Contract Documents. Deviations are noted below.

Comments:

Contractor: Brumfield Construction, Inc.

Signature

Engineer Use Only

Enclosed are _____ copies of the above item. Approval status as noted above is in accordance with the following legend:

- ☐ No Exceptions Taken
- ☐ Make Corrections Noted
- ☐ Revise and Resubmit
- ☐ Submit Specified Item
- ☐ Rejected
- ☐ See Attached Review Comment Sheet Dated

By: _____

CC: _____



Libby Environmental, Inc.

3322 South Bay Road NE • Olympia, WA 98506-2957

Phone (360) 352-2110 • libbyenv@gmail.com

June 06, 2023

Josh Franzke
Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

RE: Delphi Soil
Work Order Number: L23E107

Enclosed are the results of analyses for samples received by our laboratory on 5/26/2023.

Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of within 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please feel free to contact us. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry Chilcutt
Senior Chemist

Libby Environmental, Inc.

3322 South Bay Road NE
Olympia, WA 98506

Ph: 360-352-2110
Fax: 360-352-4154

L23E107 Chain of Custody Record

www.LibbyEnvironmental.com

Client: Brunfield Construction Inc

Address: 2007 WESTPORT RD

City: ABERDEEN State: WA Zip: 98520

Phone: 360-268-9231

Fax:

Client Project #

Date: 5/26/23

Page: 1 of 2

Project Manager: JOSH FRANZKE

Project Name: Delphi Soil

Location: Delphi Quarry

City, State: Olympia, WA

Collector: GAGE

Date of Collection: 5/26

Email: JOSH@Brunfieldinc.com



Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	NWTPH-Dx / Dx	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	c PAH 8270	PAH 8270-NAPH	Semi Vol 8270	Field Notes
1 D-1	2ft	6:15am	SOIL														
2 D-2		6:15 AM															
3 D-3		6:25 AM															
4 D-4		6:40 AM															
5 D-5		7:00 AM															
6 D-6		7:10 AM															
7 D-7		7:30 AM															
8 D-8		7:30 AM															
9 D-9		7:30 AM															
10 D-10		7:30 AM															
11 D-11		8:00 AM															
12 D-12		8:20 AM															
13 D-13		8:20 AM															
14 D-14		8:40 AM															
15 D-15		8:40 AM															
16 D-16		8:50 AM															
17 D-17		8:55 AM															

Relinquished by: <u>GAGE HARSHMAN</u>	Date / Time: <u>5/26/23 11:55</u>	Received by: <u>[Signature]</u>	Date / Time: <u>5/26/23 1155</u>	Sample Receipt Good Condition? <u>Y</u> <u>N</u> Cooler Temp. <u>°C</u> Sample Temp. <u>°C</u> Total Number of Containers <u> </u>	Remarks: TAT: 24HR 48HR 5-DAY
Relinquished by:	Date / Time:	Received by:	Date / Time:		
Relinquished by:	Date / Time:	Received by:	Date / Time:		
Relinquished by:	Date / Time:	Received by:	Date / Time:		

LEGAL ACTION CLAUSE: In the event of default of payment and/or failure to pay, Client agrees to pay the costs of collection including court costs and reasonable attorney fees to be determined by a court of law.

Distribution: White - Lab, Yellow - Originator

Libby Environmental, Inc.

3322 South Bay Road NE

Ph: 360-352-2110

Olympia, WA 98506

Fax: 360-352-4154

Chain of Custody Record

www.LibbyEnvironmental.co

Client: **BRUMFIELD CONSTRUCTION INC**

Address: **2007 WESTPORT RD**

City: **ABERDEEN**

State: **WA**

Zip: **98520**

Phone: **360-268-9231**

Fax:

Client Project #

Date: **5/26/23**

Page: **2** of **2**

Project Manager: **JOSH FRANZKE**

Project Name: **Delphi Soil**

Location: **Delphi Quarry**

City, State: **Olympia, WA**

Collector: **GAGE**

Date of Collection: **5/26**

Email: **JOSH@BRUMFIELDINC.COM**



Sample Number	Depth	Time	Sample Type	Container Type	VOC 8260	PCE & Daughter Prod.	NWTPH-Gx	BTEX (8260) / (8021)	NWTPH-HCID	NWTPH-Dx / Dx	PCB 8082	MTCA 5 Metals	RCRA 8 Metals	c PAH 8270	PAH 8270 + Naph	Semi Vol 8270	Field Notes
1	D-18	2ft	9:00 AM	Soil													
2	D-19		9:00 AM														
3	D-20		9:00 AM														
4	D-21		9:05 AM														
5	D-22		9:05 AM														
6	D-23		9:05 AM														
7	D-24		9:30 AM														
8	D-25		9:40 AM														
9	D-26		9:45 AM														
10	D-27		9:50 AM														
11	D-28		10:15 AM														
12	D-29		10:25 AM														
13	D-30		10:45 AM														
14	D-31		11:05 AM														
15	D-32		11:15 AM														
16																	
17																	

Relinquished by: **GAGE HARSHMAN** Date / Time: **5/26/23 11:55**

Received by: **Josh Franzke** Date / Time: **5/26/23 11:55**

Sample Receipt

Remarks:

Relinquished by:

Received by:

Good Condition? Y N

Cooler Temp. °C

Sample Temp. °C

Relinquished by:

Received by:

Total Number of Containers

TAT: 24HR 48HR 5-DAY



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Notes and Definitions

Item	Definition
A	Due to high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
F	High concentration of co-eluting target compounds interfering with surrogate recovery. Outlying surrogate recoveries expected.
I	Analyte with an internal standard that does not meet established acceptance criteria. Result should be considered and estimate.
S1	Outlying spike recovery(ies) observed. A duplicate analysis was performed with similar results indicating a possible matrix effect.
S3	Outlying spike recovery observed (high bias). Analyte will be qualified with a ** if detected.
RL	Reporting Limit
ND	Analyte NOT DETECTED at or above the reporting limit
DET	Analyte DETECTED at or above the reporting limit
Qual	Qualifier
All results reported on an "as received" basis unless indicated by "Dry"	
RPD	Relative Percent Difference
%REC	Percent Recovery
Parent	Sample that was matrix spiked or duplicated

Work Order Sample Summary

Lab ID	Sample	Matrix	Date Sampled	Date Received
L23E107-01	D-1	Soil	05/26/2023	05/26/2023
L23E107-02	D-2	Soil	05/26/2023	05/26/2023
L23E107-03	D-3	Soil	05/26/2023	05/26/2023
L23E107-04	D-4	Soil	05/26/2023	05/26/2023
L23E107-05	D-5	Soil	05/26/2023	05/26/2023
L23E107-06	D-6	Soil	05/26/2023	05/26/2023
L23E107-07	D-7	Soil	05/26/2023	05/26/2023
L23E107-08	D-8	Soil	05/26/2023	05/26/2023
L23E107-09	D-9	Soil	05/26/2023	05/26/2023
L23E107-10	D-10	Soil	05/26/2023	05/26/2023
L23E107-11	D-11	Soil	05/26/2023	05/26/2023
L23E107-12	D-12	Soil	05/26/2023	05/26/2023
L23E107-13	D-13	Soil	05/26/2023	05/26/2023
L23E107-14	D-14	Soil	05/26/2023	05/26/2023
L23E107-15	D-15	Soil	05/26/2023	05/26/2023
L23E107-16	D-16	Soil	05/26/2023	05/26/2023
L23E107-17	D-17	Soil	05/26/2023	05/26/2023
L23E107-18	D-18	Soil	05/26/2023	05/26/2023
L23E107-19	D-19	Soil	05/26/2023	05/26/2023
L23E107-20	D-20	Soil	05/26/2023	05/26/2023
L23E107-21	D-21	Soil	05/26/2023	05/26/2023
L23E107-22	D-22	Soil	05/26/2023	05/26/2023
L23E107-23	D-23	Soil	05/26/2023	05/26/2023
L23E107-24	D-24	Soil	05/26/2023	05/26/2023
L23E107-25	D-25	Soil	05/26/2023	05/26/2023
L23E107-26	D-26	Soil	05/26/2023	05/26/2023



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil

Project Manager: Josh Franzke

City/State: Aberdeen, WA

Work Order: L23E107

Reported: 06/06/2023 14:55

Work Order Sample Summary

Lab ID	Sample	Matrix	Date Sampled	Date Received
L23E107-27	D-27	Soil	05/26/2023	05/26/2023
L23E107-28	D-28	Soil	05/26/2023	05/26/2023
L23E107-29	D-29	Soil	05/26/2023	05/26/2023
L23E107-30	D-30	Soil	05/26/2023	05/26/2023
L23E107-31	D-31	Soil	05/26/2023	05/26/2023
L23E107-32	D-32	Soil	05/26/2023	05/26/2023



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Libby Environmental Sample Detection Summary

Analyte	Result	Qual	Units	RL	Method
Sample: D-1			Lab#: L23E107-01		
Chromium	9.0		mg/kg dry	6.0	7010
Sample: D-2			Lab#: L23E107-02		
Chromium	9.8		mg/kg dry	6.3	7010
Sample: D-3			Lab#: L23E107-03		
Chromium	11		mg/kg dry	6.1	7010
Sample: D-4			Lab#: L23E107-04		
Chromium	12		mg/kg dry	6.2	7010
Sample: D-5			Lab#: L23E107-05		
Chromium	15		mg/kg dry	6.1	7010
Sample: D-6			Lab#: L23E107-06		
Chromium	11		mg/kg dry	6.2	7010
Sample: D-7			Lab#: L23E107-07		
Chromium	18		mg/kg dry	6.2	7010
Sample: D-8			Lab#: L23E107-08		
Chromium	11		mg/kg dry	6.2	7010
Sample: D-9			Lab#: L23E107-09		
Chromium	11		mg/kg dry	6.1	7010
Sample: D-10			Lab#: L23E107-10		
Chromium	7.9		mg/kg dry	6.1	7010
Sample: D-11			Lab#: L23E107-11		
Chromium	9.9		mg/kg dry	6.2	7010
Sample: D-12			Lab#: L23E107-12		
Chromium	14		mg/kg dry	6.1	7010
Sample: D-13			Lab#: L23E107-13		
Chromium	11		mg/kg dry	6.3	7010
Sample: D-14			Lab#: L23E107-14		
Chromium	11		mg/kg dry	6.1	7010
Sample: D-15			Lab#: L23E107-15		
Chromium	12		mg/kg dry	6.2	7010



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Libby Environmental Sample Detection Summary (Continued)

Analyte	Result	Qual	Units	RL	Method
Sample: D-16			Lab#: L23E107-16		
Chromium	14		mg/kg dry	6.2	7010
Sample: D-17			Lab#: L23E107-17		
Chromium	13		mg/kg dry	6.1	7010
Sample: D-18			Lab#: L23E107-18		
Chromium	10		mg/kg dry	6.1	7010
Sample: D-19			Lab#: L23E107-19		
Chromium	11		mg/kg dry	6.1	7010
Sample: D-20			Lab#: L23E107-20		
Chromium	9.6		mg/kg dry	5.9	7010
Sample: D-21			Lab#: L23E107-21		
Chromium	16		mg/kg dry	6.1	7010
Sample: D-22			Lab#: L23E107-22		
Chromium	12		mg/kg dry	6.1	7010
Sample: D-23			Lab#: L23E107-23		
Chromium	12		mg/kg dry	6.0	7010
Sample: D-24			Lab#: L23E107-24		
Chromium	12		mg/kg dry	6.0	7010
Sample: D-25			Lab#: L23E107-25		
Chromium	11		mg/kg dry	6.0	7010
Sample: D-26			Lab#: L23E107-26		
Chromium	12		mg/kg dry	6.0	7010
Sample: D-27			Lab#: L23E107-27		
Chromium	10		mg/kg dry	6.0	7010
Sample: D-28			Lab#: L23E107-28		
Chromium	14		mg/kg dry	6.2	7010
Sample: D-29			Lab#: L23E107-29		
Chromium	9.6		mg/kg dry	6.0	7010
Sample: D-30			Lab#: L23E107-30		
Chromium	7.4		mg/kg dry	5.9	7010



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Libby Environmental Sample Detection Summary (Continued)

Analyte	Result	Qual	Units	RL	Method
Sample: D-31			Lab#: L23E107-31		
Chromium	7.5		mg/kg dry	6.1	7010
Sample: D-32			Lab#: L23E107-32		
Chromium	9.2		mg/kg dry	6.1	7010

Note: If no entry is made, then no target compounds were detected.



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results

Client Sample ID: D-1

Lab ID: L23E107-01 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.024	mg/kg dry	06/01/2023	JA
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/01/2023	JA
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/01/2023	JA
Acenaphthylene (SIM)	ND		0.024	mg/kg dry	06/01/2023	JA
Acenaphthene (SIM)	ND		0.024	mg/kg dry	06/01/2023	JA
Fluorene (SIM)	ND		0.024	mg/kg dry	06/01/2023	JA
Phenanthrene (SIM)	ND		0.024	mg/kg dry	06/01/2023	JA
Anthracene (SIM)	ND		0.024	mg/kg dry	06/01/2023	JA
Fluoranthene (SIM)	ND		0.024	mg/kg dry	06/01/2023	JA
Pyrene (SIM)	ND		0.024	mg/kg dry	06/01/2023	JA
Benz(a)anthracene (SIM)	ND		0.024	mg/kg dry	06/01/2023	JA
Chrysene (SIM)	ND		0.024	mg/kg dry	06/01/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/01/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/01/2023	JA
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry	06/01/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry	06/01/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry	06/01/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry	06/01/2023	JA
Surrogate: 2-FBP (SIM)	96.0%		52-115		06/01/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	90.0%		40-116		06/01/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		17	mg/kg dry	05/30/2023	PB
Surrogate: Toluene-d8	100%		41-142		05/30/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		60	mg/kg dry	05/31/2023	ES
Oil	ND		300	mg/kg dry	05/31/2023	ES
Surrogate: 2-FBP	73.5%		43.6-129		05/31/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.0	mg/kg dry	06/05/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	9.0		6.0	mg/kg dry	06/01/2023	KD
Lead	ND		6.0	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.60	mg/kg dry	05/30/2023	KD



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-1

Lab ID: L23E107-01 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	17		0.50	%	05/30/2023	SG



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-2

Lab ID: L23E107-02 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
2-Methylnaphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
1-Methylnaphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Acenaphthylene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Acenaphthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Fluorene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Phenanthrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benz(a)anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Chrysene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(a)pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Surrogate: 2-FBP (SIM)	96.0%		52-115		06/02/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	90.0%		40-116		06/02/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		18	mg/kg dry	05/30/2023	PB
Surrogate: Toluene-d8	100%		41-142		05/30/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		63	mg/kg dry	05/31/2023	ES
Oil	ND		310	mg/kg dry	05/31/2023	ES
Surrogate: 2-FBP	99.0%		43.6-129		05/31/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.3	mg/kg dry	06/05/2023	KD
Cadmium	ND		1.3	mg/kg dry	06/01/2023	KD
Chromium	9.8		6.3	mg/kg dry	06/01/2023	KD
Lead	ND		6.3	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.63	mg/kg dry	05/30/2023	KD



Libby Environmental, Inc.

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Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
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Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-2

Lab ID: L23E107-02 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	20		0.50	%	05/30/2023	SG



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Project Manager: Josh Franzke

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Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-3

Lab ID: L23E107-03 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Acenaphthylene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Acenaphthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Fluorene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Phenanthrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benz(a)anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Chrysene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Surrogate: 2-FBP (SIM)	98.0%		52-115		06/02/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	92.0%		40-116		06/02/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		17	mg/kg dry	05/30/2023	PB
Surrogate: Toluene-d8	98.6%		41-142		05/30/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		61	mg/kg dry	05/31/2023	ES
Oil	ND		310	mg/kg dry	05/31/2023	ES
Surrogate: 2-FBP	104%		43.6-129		05/31/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.1	mg/kg dry	06/05/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	11		6.1	mg/kg dry	06/01/2023	KD
Lead	ND		6.1	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.61	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-3

Lab ID: L23E107-03 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	18		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-4

Lab ID: L23E107-04 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
2-Methylnaphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
1-Methylnaphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Acenaphthylene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Acenaphthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Fluorene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Phenanthrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benz(a)anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Chrysene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(a)pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Surrogate: 2-FBP (SIM)	104%		52-115		06/02/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	100%		40-116		06/02/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		17	mg/kg dry	05/30/2023	PB
Surrogate: Toluene-d8	99.0%		41-142		05/30/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		62	mg/kg dry	05/31/2023	ES
Oil	ND		310	mg/kg dry	05/31/2023	ES
Surrogate: 2-FBP	93.7%		43.6-129		05/31/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.2	mg/kg dry	06/05/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	12		6.2	mg/kg dry	06/01/2023	KD
Lead	ND		6.2	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.62	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-4

Lab ID: L23E107-04 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	19		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-5

Lab ID: L23E107-05 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Acenaphthylene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Acenaphthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Fluorene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Phenanthrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benz(a)anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Chrysene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Surrogate: 2-FBP (SIM)	98.0%		52-115		06/02/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	92.0%		40-116		06/02/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		16	mg/kg dry	05/31/2023	PB
Surrogate: Toluene-d8	86.2%		41-142		05/31/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		61	mg/kg dry	05/31/2023	ES
Oil	ND		300	mg/kg dry	05/31/2023	ES
Surrogate: 2-FBP	102%		43.6-129		05/31/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.1	mg/kg dry	06/05/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	15		6.1	mg/kg dry	06/01/2023	KD
Lead	ND		6.1	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.61	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-5

Lab ID: L23E107-05 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	18		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-6

Lab ID: L23E107-06 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
2-Methylnaphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
1-Methylnaphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Acenaphthylene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Acenaphthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Fluorene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Phenanthrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benz(a)anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Chrysene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(a)pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Surrogate: 2-FBP (SIM)	100%		52-115		06/02/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	94.0%		40-116		06/02/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		17	mg/kg dry	05/30/2023	PB
Surrogate: Toluene-d8	106%		41-142		05/30/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		62	mg/kg dry	05/31/2023	ES
Oil	ND		310	mg/kg dry	05/31/2023	ES
Surrogate: 2-FBP	74.1%		43.6-129		05/31/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.2	mg/kg dry	06/05/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	11		6.2	mg/kg dry	06/01/2023	KD
Lead	ND		6.2	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.62	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-6

Lab ID: L23E107-06 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	19		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-7

Lab ID: L23E107-07 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
2-Methylnaphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
1-Methylnaphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Acenaphthylene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Acenaphthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Fluorene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Phenanthrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benz(a)anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Chrysene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(a)pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Surrogate: 2-FBP (SIM)	102%		52-115		06/02/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	94.0%		40-116		06/02/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		17	mg/kg dry	05/30/2023	PB
Surrogate: Toluene-d8	109%		41-142		05/30/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		62	mg/kg dry	05/31/2023	ES
Oil	ND		310	mg/kg dry	05/31/2023	ES
Surrogate: 2-FBP	93.1%		43.6-129		05/31/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.2	mg/kg dry	06/05/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	18		6.2	mg/kg dry	06/01/2023	KD
Lead	ND		6.2	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.62	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-7

Lab ID: L23E107-07 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	20		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-8

Lab ID: L23E107-08 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
2-Methylnaphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
1-Methylnaphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Acenaphthylene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Acenaphthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Fluorene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Phenanthrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benz(a)anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Chrysene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(a)pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Surrogate: 2-FBP (SIM)	102%		52-115		06/02/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	94.0%		40-116		06/02/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		17	mg/kg dry	05/30/2023	PB
Surrogate: Toluene-d8	96.2%		41-142		05/30/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		62	mg/kg dry	05/31/2023	ES
Oil	ND		310	mg/kg dry	05/31/2023	ES
Surrogate: 2-FBP	102%		43.6-129		05/31/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.2	mg/kg dry	06/05/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	11		6.2	mg/kg dry	06/01/2023	KD
Lead	ND		6.2	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.62	mg/kg dry	05/30/2023	KD



Libby Environmental, Inc.

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Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
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Sample Results (Continued)

Client Sample ID: D-8

Lab ID: L23E107-08 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	19		0.50	%	05/30/2023	SG



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Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-9

Lab ID: L23E107-09 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Acenaphthylene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Acenaphthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Fluorene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Phenanthrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benz(a)anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Chrysene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Surrogate: 2-FBP (SIM)	102%		52-115		06/02/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	96.0%		40-116		06/02/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		17	mg/kg dry	05/30/2023	PB
Surrogate: Toluene-d8	108%		41-142		05/30/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		61	mg/kg dry	05/31/2023	ES
Oil	ND		300	mg/kg dry	05/31/2023	ES
Surrogate: 2-FBP	74.5%		43.6-129		05/31/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.1	mg/kg dry	06/05/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	11		6.1	mg/kg dry	06/01/2023	KD
Lead	ND		6.1	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.61	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-9

Lab ID: L23E107-09 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	17		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-10

Lab ID: L23E107-10 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Acenaphthylene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Acenaphthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Fluorene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Phenanthrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benz(a)anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Chrysene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Surrogate: 2-FBP (SIM)	100%		52-115		06/02/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	98.0%		40-116		06/02/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		17	mg/kg dry	05/30/2023	PB
Surrogate: Toluene-d8	111%		41-142		05/30/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		61	mg/kg dry	05/31/2023	ES
Oil	ND		300	mg/kg dry	05/31/2023	ES
Surrogate: 2-FBP	94.5%		43.6-129		05/31/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.1	mg/kg dry	06/05/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	7.9		6.1	mg/kg dry	06/01/2023	KD
Lead	ND		6.1	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.61	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-10

Lab ID: L23E107-10 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
Moisture by ASTM D2216-19						
Moisture	18		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-11

Lab ID: L23E107-11 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
2-Methylnaphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
1-Methylnaphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Acenaphthylene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Acenaphthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Fluorene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Phenanthrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benz(a)anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Chrysene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(a)pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Surrogate: 2-FBP (SIM)	104%		52-115		06/02/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	98.0%		40-116		06/02/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		17	mg/kg dry	05/30/2023	PB
Surrogate: Toluene-d8	106%		41-142		05/30/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		62	mg/kg dry	05/31/2023	ES
Oil	ND		310	mg/kg dry	05/31/2023	ES
Surrogate: 2-FBP	108%		43.6-129		05/31/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.2	mg/kg dry	06/05/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	9.9		6.2	mg/kg dry	06/01/2023	KD
Lead	ND		6.2	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.62	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-11

Lab ID: L23E107-11 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	19		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-12

Lab ID: L23E107-12 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Acenaphthylene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Acenaphthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Fluorene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Phenanthrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benz(a)anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Chrysene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Surrogate: 2-FBP (SIM)	104%		52-115		06/02/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	98.0%		40-116		06/02/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		16	mg/kg dry	05/30/2023	PB
Surrogate: Toluene-d8	109%		41-142		05/30/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		61	mg/kg dry	05/31/2023	ES
Oil	ND		300	mg/kg dry	05/31/2023	ES
Surrogate: 2-FBP	70.7%		43.6-129		05/31/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.1	mg/kg dry	06/05/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	14		6.1	mg/kg dry	06/01/2023	KD
Lead	ND		6.1	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.61	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-12

Lab ID: L23E107-12 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	18		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-13

Lab ID: L23E107-13 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
2-Methylnaphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
1-Methylnaphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Acenaphthylene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Acenaphthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Fluorene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Phenanthrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benz(a)anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Chrysene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(a)pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Surrogate: 2-FBP (SIM)	102%		52-115		06/02/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	96.0%		40-116		06/02/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		18	mg/kg dry	05/30/2023	PB
Surrogate: Toluene-d8	105%		41-142		05/30/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		63	mg/kg dry	05/31/2023	ES
Oil	ND		310	mg/kg dry	05/31/2023	ES
Surrogate: 2-FBP	91.3%		43.6-129		05/31/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.3	mg/kg dry	06/05/2023	KD
Cadmium	ND		1.3	mg/kg dry	06/01/2023	KD
Chromium	11		6.3	mg/kg dry	06/01/2023	KD
Lead	ND		6.3	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.63	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-13

Lab ID: L23E107-13 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	20		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-14

Lab ID: L23E107-14 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Acenaphthylene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Acenaphthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Fluorene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Phenanthrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benz(a)anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Chrysene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Surrogate: 2-FBP (SIM)	106%		52-115		06/02/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	100%		40-116		06/02/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		17	mg/kg dry	05/30/2023	PB
Surrogate: Toluene-d8	110%		41-142		05/30/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		61	mg/kg dry	05/31/2023	ES
Oil	ND		310	mg/kg dry	05/31/2023	ES
Surrogate: 2-FBP	100%		43.6-129		05/31/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.1	mg/kg dry	06/05/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	11		6.1	mg/kg dry	06/01/2023	KD
Lead	ND		6.1	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.61	mg/kg dry	05/30/2023	KD



Libby Environmental, Inc.

Brumfield Construction
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Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
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Sample Results (Continued)

Client Sample ID: D-14

Lab ID: L23E107-14 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	18		0.50	%	05/30/2023	SG



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Project Manager: Josh Franzke

City/State: Aberdeen, WA
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Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-15

Lab ID: L23E107-15 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
2-Methylnaphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
1-Methylnaphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Acenaphthylene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Acenaphthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Fluorene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Phenanthrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benz(a)anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Chrysene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(a)pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Surrogate: 2-FBP (SIM)	108%		52-115		06/02/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	102%		40-116		06/02/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		17	mg/kg dry	05/30/2023	PB
Surrogate: Toluene-d8	108%		41-142		05/30/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		62	mg/kg dry	05/31/2023	ES
Oil	ND		310	mg/kg dry	05/31/2023	ES
Surrogate: 2-FBP	72.7%		43.6-129		05/31/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.2	mg/kg dry	06/05/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	12		6.2	mg/kg dry	06/01/2023	KD
Lead	ND		6.2	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.62	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-15

Lab ID: L23E107-15 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	20		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-16

Lab ID: L23E107-16 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
2-Methylnaphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
1-Methylnaphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Acenaphthylene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Acenaphthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Fluorene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Phenanthrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benz(a)anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Chrysene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(a)pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Surrogate: 2-FBP (SIM)	98.0%		52-115		06/02/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	94.0%		40-116		06/02/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		17	mg/kg dry	05/30/2023	PB
Surrogate: Toluene-d8	107%		41-142		05/30/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		62	mg/kg dry	05/31/2023	ES
Oil	ND		310	mg/kg dry	05/31/2023	ES
Surrogate: 2-FBP	96.5%		43.6-129		05/31/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.2	mg/kg dry	06/05/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	14		6.2	mg/kg dry	06/01/2023	KD
Lead	ND		6.2	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.62	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-16

Lab ID: L23E107-16 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	19		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-17

Lab ID: L23E107-17 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Acenaphthylene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Acenaphthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Fluorene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Phenanthrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benz(a)anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Chrysene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Surrogate: 2-FBP (SIM)	100%		52-115		06/02/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	94.0%		40-116		06/02/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		17	mg/kg dry	05/30/2023	PB
Surrogate: Toluene-d8	106%		41-142		05/30/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		61	mg/kg dry	05/31/2023	ES
Oil	ND		300	mg/kg dry	05/31/2023	ES
Surrogate: 2-FBP	103%		43.6-129		05/31/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.1	mg/kg dry	06/05/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	13		6.1	mg/kg dry	06/01/2023	KD
Lead	ND		6.1	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.61	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-17

Lab ID: L23E107-17 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	18		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-18

Lab ID: L23E107-18 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Acenaphthylene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Acenaphthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Fluorene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Phenanthrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benz(a)anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Chrysene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Surrogate: 2-FBP (SIM)	100%		52-115		06/02/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	94.0%		40-116		06/02/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		16	mg/kg dry	05/30/2023	PB
Surrogate: Toluene-d8	106%		41-142		05/30/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		61	mg/kg dry	05/31/2023	ES
Oil	ND		300	mg/kg dry	05/31/2023	ES
Surrogate: 2-FBP	68.0%		43.6-129		05/31/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.1	mg/kg dry	06/05/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	10		6.1	mg/kg dry	06/01/2023	KD
Lead	ND		6.1	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.61	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-18

Lab ID: L23E107-18 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	18		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-19

Lab ID: L23E107-19 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
2-Methylnaphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
1-Methylnaphthalene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Acenaphthylene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Acenaphthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Fluorene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Phenanthrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benz(a)anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Chrysene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(a)pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.025	mg/kg dry	06/02/2023	JA
Surrogate: 2-FBP (SIM)	102%		52-115		06/02/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	98.0%		40-116		06/02/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		17	mg/kg dry	05/30/2023	PB
Surrogate: Toluene-d8	98.2%		41-142		05/30/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		61	mg/kg dry	05/31/2023	ES
Oil	ND		310	mg/kg dry	05/31/2023	ES
Surrogate: 2-FBP	101%		43.6-129		05/31/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.1	mg/kg dry	06/05/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	11		6.1	mg/kg dry	06/01/2023	KD
Lead	ND		6.1	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.61	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-19

Lab ID: L23E107-19 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	19		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-20

Lab ID: L23E107-20 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Acenaphthylene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Acenaphthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Fluorene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Phenanthrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benz(a)anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Chrysene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Surrogate: 2-FBP (SIM)	100%		52-115		06/02/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	96.0%		40-116		06/02/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		16	mg/kg dry	05/31/2023	PB
Surrogate: Toluene-d8	104%		41-142		05/31/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		59	mg/kg dry	05/31/2023	ES
Oil	ND		300	mg/kg dry	05/31/2023	ES
Surrogate: 2-FBP	96.1%		43.6-129		05/31/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		5.9	mg/kg dry	06/05/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	9.6		5.9	mg/kg dry	06/01/2023	KD
Lead	ND		5.9	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.59	mg/kg dry	05/30/2023	KD



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Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
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Sample Results (Continued)

Client Sample ID: D-20

Lab ID: L23E107-20 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	16		0.50	%	05/30/2023	SG



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Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-21

Lab ID: L23E107-21 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Acenaphthylene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Acenaphthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Fluorene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Phenanthrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benz(a)anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Chrysene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Surrogate: 2-FBP (SIM)	90.0%		52-115		06/02/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	90.0%		40-116		06/02/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		16	mg/kg dry	05/31/2023	PB
Surrogate: Toluene-d8	98.9%		41-142		05/31/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		61	mg/kg dry	05/30/2023	ES
Oil	ND		300	mg/kg dry	05/30/2023	ES
Surrogate: 2-FBP	74.0%		43.6-129		05/30/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.1	mg/kg dry	06/06/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	16		6.1	mg/kg dry	06/01/2023	KD
Lead	ND		6.1	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.61	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-21

Lab ID: L23E107-21 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	18		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-22

Lab ID: L23E107-22 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Acenaphthylene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Acenaphthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Fluorene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Phenanthrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benz(a)anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Chrysene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry	06/02/2023	JA
Surrogate: 2-FBP (SIM)	90.0%		52-115		06/02/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	92.0%		40-116		06/02/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		17	mg/kg dry	05/31/2023	PB
Surrogate: Toluene-d8	109%		41-142		05/31/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		61	mg/kg dry	05/30/2023	ES
Oil	ND		310	mg/kg dry	05/30/2023	ES
Surrogate: 2-FBP	68.8%		43.6-129		05/30/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.1	mg/kg dry	06/06/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	12		6.1	mg/kg dry	06/01/2023	KD
Lead	ND		6.1	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.61	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-22

Lab ID: L23E107-22 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	18		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-23

Lab ID: L23E107-23 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Acenaphthylene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Acenaphthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Fluorene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Phenanthrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Anthracene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Fluoranthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Pyrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benz(a)anthracene (SIM)	ND		0.060	mg/kg dry	06/05/2023	JA
Chrysene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Surrogate: 2-FBP (SIM)	98.0%		52-115		06/05/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	98.0%		40-116		06/05/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		16	mg/kg dry	05/31/2023	PB
Surrogate: Toluene-d8	107%		41-142		05/31/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		60	mg/kg dry	05/30/2023	ES
Oil	ND		300	mg/kg dry	05/30/2023	ES
Surrogate: 2-FBP	69.6%		43.6-129		05/30/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.0	mg/kg dry	06/06/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	12		6.0	mg/kg dry	06/01/2023	KD
Lead	ND		6.0	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.60	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-23

Lab ID: L23E107-23 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	17		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-24

Lab ID: L23E107-24 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Acenaphthylene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Acenaphthene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Fluorene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Phenanthrene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Anthracene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Fluoranthene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Pyrene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Benz(a)anthracene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Chrysene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Surrogate: 2-FBP (SIM)	90.0%		52-115		06/03/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	92.0%		40-116		06/03/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		16	mg/kg dry	05/31/2023	PB
Surrogate: Toluene-d8	107%		41-142		05/31/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		60	mg/kg dry	05/30/2023	ES
Oil	ND		300	mg/kg dry	05/30/2023	ES
Surrogate: 2-FBP	72.0%		43.6-129		05/30/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.0	mg/kg dry	06/06/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	12		6.0	mg/kg dry	06/01/2023	KD
Lead	ND		6.0	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.60	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-24

Lab ID: L23E107-24 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	17		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-25

Lab ID: L23E107-25 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Acenaphthylene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Acenaphthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Fluorene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Phenanthrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Anthracene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Fluoranthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Pyrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benz(a)anthracene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Chrysene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Surrogate: 2-FBP (SIM)	94.0%		52-115		06/05/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	96.0%		40-116		06/05/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		16	mg/kg dry	05/31/2023	PB
Surrogate: Toluene-d8	108%		41-142		05/31/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		60	mg/kg dry	05/30/2023	ES
Oil	ND		300	mg/kg dry	05/30/2023	ES
Surrogate: 2-FBP	77.2%		43.6-129		05/30/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.0	mg/kg dry	06/06/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	11		6.0	mg/kg dry	06/01/2023	KD
Lead	ND		6.0	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.60	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-25

Lab ID: L23E107-25 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	17		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-26

Lab ID: L23E107-26 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Acenaphthylene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Acenaphthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Fluorene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Phenanthrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Anthracene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Fluoranthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Pyrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benz(a)anthracene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Chrysene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Surrogate: 2-FBP (SIM)	106%		52-115		06/05/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	106%		40-116		06/05/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		16	mg/kg dry	05/31/2023	PB
Surrogate: Toluene-d8	109%		41-142		05/31/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		60	mg/kg dry	05/30/2023	ES
Oil	ND		300	mg/kg dry	05/30/2023	ES
Surrogate: 2-FBP	98.2%		43.6-129		05/30/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.0	mg/kg dry	06/06/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	12		6.0	mg/kg dry	06/01/2023	KD
Lead	ND		6.0	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.60	mg/kg dry	05/30/2023	KD



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Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-26

Lab ID: L23E107-26 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	17		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-27

Lab ID: L23E107-27 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Acenaphthylene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Acenaphthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Fluorene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Phenanthrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Anthracene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Fluoranthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Pyrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benz(a)anthracene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Chrysene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Surrogate: 2-FBP (SIM)	112%		52-115		06/05/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	112%		40-116		06/05/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		17	mg/kg dry	05/31/2023	PB
Surrogate: Toluene-d8	105%		41-142		05/31/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		60	mg/kg dry	05/30/2023	ES
Oil	ND		300	mg/kg dry	05/30/2023	ES
Surrogate: 2-FBP	106%		43.6-129		05/30/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.0	mg/kg dry	06/06/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	10		6.0	mg/kg dry	06/01/2023	KD
Lead	ND		6.0	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.60	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-27

Lab ID: L23E107-27 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	17		0.50	%	05/30/2023	SG



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City/State: Aberdeen, WA

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Sample Results (Continued)

Client Sample ID: D-28

Lab ID: L23E107-28 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.025	mg/kg dry	06/03/2023	JA
2-Methylnaphthalene (SIM)	ND		0.025	mg/kg dry	06/03/2023	JA
1-Methylnaphthalene (SIM)	ND		0.025	mg/kg dry	06/03/2023	JA
Acenaphthylene (SIM)	ND		0.025	mg/kg dry	06/03/2023	JA
Acenaphthene (SIM)	ND		0.025	mg/kg dry	06/03/2023	JA
Fluorene (SIM)	ND		0.025	mg/kg dry	06/03/2023	JA
Phenanthrene (SIM)	ND		0.025	mg/kg dry	06/03/2023	JA
Anthracene (SIM)	ND		0.025	mg/kg dry	06/03/2023	JA
Fluoranthene (SIM)	ND		0.025	mg/kg dry	06/03/2023	JA
Pyrene (SIM)	ND		0.025	mg/kg dry	06/03/2023	JA
Benz(a)anthracene (SIM)	ND		0.025	mg/kg dry	06/03/2023	JA
Chrysene (SIM)	ND		0.025	mg/kg dry	06/03/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.025	mg/kg dry	06/03/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.025	mg/kg dry	06/03/2023	JA
Benzo(a)pyrene (SIM)	ND		0.025	mg/kg dry	06/03/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.025	mg/kg dry	06/03/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.025	mg/kg dry	06/03/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.025	mg/kg dry	06/03/2023	JA
Surrogate: 2-FBP (SIM)	92.0%		52-115		06/03/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	90.0%		40-116		06/03/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		17	mg/kg dry	05/31/2023	PB
Surrogate: Toluene-d8	107%		41-142		05/31/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		62	mg/kg dry	05/30/2023	ES
Oil	ND		310	mg/kg dry	05/30/2023	ES
Surrogate: 2-FBP	75.5%		43.6-129		05/30/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.2	mg/kg dry	06/06/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	14		6.2	mg/kg dry	06/01/2023	KD
Lead	ND		6.2	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.62	mg/kg dry	05/30/2023	KD



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City/State: Aberdeen, WA
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Sample Results (Continued)

Client Sample ID: D-28

Lab ID: L23E107-28 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	19		0.50	%	05/30/2023	SG



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Reported: 06/06/2023 14:55

Sample Results (Continued)

Client Sample ID: D-29

Lab ID: L23E107-29 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Acenaphthylene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Acenaphthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Fluorene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Phenanthrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Anthracene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Fluoranthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Pyrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benz(a)anthracene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Chrysene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Surrogate: 2-FBP (SIM)	96.0%		52-115		06/05/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	96.0%		40-116		06/05/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		16	mg/kg dry	05/31/2023	PB
Surrogate: Toluene-d8	105%		41-142		05/31/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		60	mg/kg dry	05/30/2023	ES
Oil	ND		300	mg/kg dry	05/30/2023	ES
Surrogate: 2-FBP	99.4%		43.6-129		05/30/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.0	mg/kg dry	06/06/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	9.6		6.0	mg/kg dry	06/01/2023	KD
Lead	ND		6.0	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.60	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-29

Lab ID: L23E107-29 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	16		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-30

Lab ID: L23E107-30 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Acenaphthylene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Acenaphthene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Fluorene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Phenanthrene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Anthracene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Fluoranthene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Pyrene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Benz(a)anthracene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Chrysene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Surrogate: 2-FBP (SIM)	94.0%		52-115		06/03/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	96.0%		40-116		06/03/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		16	mg/kg dry	05/31/2023	PB
Surrogate: Toluene-d8	110%		41-142		05/31/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		59	mg/kg dry	05/30/2023	ES
Oil	ND		300	mg/kg dry	05/30/2023	ES
Surrogate: 2-FBP	106%		43.6-129		05/30/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		5.9	mg/kg dry	06/06/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	7.4		5.9	mg/kg dry	06/01/2023	KD
Lead	ND		5.9	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.59	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-30

Lab ID: L23E107-30 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	15		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-31

Lab ID: L23E107-31 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
Naphthalene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Acenaphthylene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Acenaphthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Fluorene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Phenanthrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Anthracene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Fluoranthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Pyrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benz(a)anthracene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Chrysene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry	06/05/2023	JA
Surrogate: 2-FBP (SIM)	96.0%		52-115		06/05/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	96.0%		40-116		06/05/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		17	mg/kg dry	05/31/2023	PB
Surrogate: Toluene-d8	107%		41-142		05/31/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		61	mg/kg dry	05/30/2023	ES
Oil	ND		300	mg/kg dry	05/30/2023	ES
Surrogate: 2-FBP	71.1%		43.6-129		05/30/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.1	mg/kg dry	06/06/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	7.5		6.1	mg/kg dry	06/01/2023	KD
Lead	ND		6.1	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.61	mg/kg dry	05/30/2023	KD



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Sample Results (Continued)

Client Sample ID: D-31

Lab ID: L23E107-31 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Moisture by ASTM D2216-19</u>						
Moisture	18		0.50	%	05/30/2023	SG



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Sample Results (Continued)

Client Sample ID: D-32

Lab ID: L23E107-32 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
<u>Semivolatile Organic Compounds by EPA Method 8270E</u>						
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Acenaphthylene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Acenaphthene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Fluorene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Phenanthrene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Anthracene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Fluoranthene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Pyrene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Benz(a)anthracene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Chrysene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry	06/03/2023	JA
Surrogate: 2-FBP (SIM)	92.0%		52-115		06/03/2023	JA
Surrogate: p-Terphenyl-d14 (SIM)	92.0%		40-116		06/03/2023	JA
<u>Gasoline by Method NWTPH-Gx</u>						
Gasoline	ND		17	mg/kg dry	05/31/2023	PB
Surrogate: Toluene-d8	108%		41-142		05/31/2023	PB
<u>Diesel and Oil by NWTPH-Dx/Dx</u>						
Diesel	ND		61	mg/kg dry	05/30/2023	ES
Oil	ND		310	mg/kg dry	05/30/2023	ES
Surrogate: 2-FBP	100%		43.6-129		05/30/2023	ES
<u>Total Metals by EPA Method 7010</u>						
Arsenic	ND		6.1	mg/kg dry	06/06/2023	KD
Cadmium	ND		1.2	mg/kg dry	06/01/2023	KD
Chromium	9.2		6.1	mg/kg dry	06/01/2023	KD
Lead	ND		6.1	mg/kg dry	06/02/2023	KD
<u>Mercury by EPA 7471B</u>						
Mercury	ND		0.61	mg/kg dry	05/30/2023	KD
<u>Moisture by ASTM D2216-19</u>						



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Sample Results (Continued)

Client Sample ID: D-32

Lab ID: L23E107-32 (Soil)

Analyte	Result	Qual	RL	Units	Date Analyzed	Analyst Initials
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Moisture by ASTM D2216-19 (Continued)

Moisture	18		0.50	%	05/30/2023	SG
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Quality Control

Semivolatile Organic Compounds by EPA Method 8270E

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BXE0170 - Extraction

Blank (BXE0170-BLK1)

Prepared: 5/30/2023 Analyzed: 6/2/2023

Naphthalene (SIM)	ND		0.020	mg/kg wet						
2-Methylnaphthalene (SIM)	ND		0.020	mg/kg wet						
1-Methylnaphthalene (SIM)	ND		0.020	mg/kg wet						
Acenaphthylene (SIM)	ND		0.020	mg/kg wet						
Acenaphthene (SIM)	ND		0.020	mg/kg wet						
Fluorene (SIM)	ND		0.020	mg/kg wet						
Phenanthrene (SIM)	ND		0.020	mg/kg wet						
Anthracene (SIM)	ND		0.020	mg/kg wet						
Fluoranthene (SIM)	ND		0.020	mg/kg wet						
Pyrene (SIM)	ND		0.020	mg/kg wet						
Benz(a)anthracene (SIM)	ND		0.020	mg/kg wet						
Chrysene (SIM)	ND		0.020	mg/kg wet						
Benzo(b)fluoranthene (SIM)	ND		0.020	mg/kg wet						
Benzo(k)fluoranthene (SIM)	ND		0.020	mg/kg wet						
Benzo(a)pyrene (SIM)	ND		0.020	mg/kg wet						
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.020	mg/kg wet						
Dibenz(a,h)anthracene (SIM)	ND		0.020	mg/kg wet						
Benzo(g,h,i)perylene (SIM)	ND		0.020	mg/kg wet						
Surrogate: 2-FBP (SIM)			0.470	mg/kg	0.500		94.0	52-115		
Surrogate: p-Terphenyl-d14 (SIM)			0.490	mg/kg	0.500		98.0	40-116		

LCS (BXE0170-BS1)

Prepared: 5/30/2023 Analyzed: 6/1/2023

Naphthalene (SIM)	1.48		0.020	mg/kg wet	2.00		74.0	60-130		
2-Methylnaphthalene (SIM)	1.47		0.020	mg/kg wet	2.00		73.7	60-130		
1-Methylnaphthalene (SIM)	1.68		0.020	mg/kg wet	2.00		84.1	60-130		
Acenaphthylene (SIM)	1.44		0.020	mg/kg wet	2.00		71.8	60-130		
Acenaphthene (SIM)	1.55		0.020	mg/kg wet	2.00		77.5	60-130		
Fluorene (SIM)	1.75		0.020	mg/kg wet	2.00		87.6	60-130		
Phenanthrene (SIM)	1.78		0.020	mg/kg wet	2.00		88.9	60-130		
Anthracene (SIM)	1.40		0.020	mg/kg wet	2.00		70.2	60-130		
Fluoranthene (SIM)	1.69		0.020	mg/kg wet	2.00		84.6	60-130		
Pyrene (SIM)	1.79		0.020	mg/kg wet	2.00		89.4	60-130		
Benz(a)anthracene (SIM)	1.62		0.020	mg/kg wet	2.00		81.0	60-130		
Chrysene (SIM)	1.77	I	0.020	mg/kg wet	2.00		88.6	60-130		
Benzo(b)fluoranthene (SIM)	2.65	I, S3	0.020	mg/kg wet	2.00		132	60-130		
Benzo(k)fluoranthene (SIM)	2.63	I, S3	0.020	mg/kg wet	2.00		132	60-130		
Benzo(a)pyrene (SIM)	2.23	I	0.020	mg/kg wet	2.00		111	60-130		
Indeno(1,2,3-cd)pyrene (SIM)	2.26	I	0.020	mg/kg wet	2.00		113	60-130		
Dibenz(a,h)anthracene (SIM)	1.79	I	0.020	mg/kg wet	2.00		89.5	60-130		
Benzo(g,h,i)perylene (SIM)	2.26	I	0.020	mg/kg wet	2.00		113	60-130		
Surrogate: 2-FBP (SIM)			0.460	mg/kg	0.500		92.0	52-115		
Surrogate: p-Terphenyl-d14 (SIM)			0.440	mg/kg	0.500		88.0	40-116		



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil

Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Quality Control (Continued)

Semivolatile Organic Compounds by EPA Method 8270E (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Duplicate (BXE0170-DUP1)		Parent: L23E107-01		Prepared: 5/30/2023 Analyzed: 6/2/2023						
Naphthalene (SIM)	ND		0.024	mg/kg dry		ND				35
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry		ND				35
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry		ND				35
Acenaphthylene (SIM)	ND		0.024	mg/kg dry		ND				35
Acenaphthene (SIM)	ND		0.024	mg/kg dry		ND				35
Fluorene (SIM)	ND		0.024	mg/kg dry		ND				35
Phenanthrene (SIM)	ND		0.024	mg/kg dry		ND				35
Anthracene (SIM)	ND		0.024	mg/kg dry		ND				35
Fluoranthene (SIM)	ND		0.024	mg/kg dry		ND				35
Pyrene (SIM)	ND		0.024	mg/kg dry		ND				35
Benz(a)anthracene (SIM)	ND		0.024	mg/kg dry		ND				35
Chrysene (SIM)	ND		0.024	mg/kg dry		ND				35
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry		ND				35
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry		ND				35
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry		ND				35
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry		ND				35
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry		ND				35
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry		ND				35
Surrogate: 2-FBP (SIM)			0.480	mg/kg	0.500		96.0	52-115		
Surrogate: p-Terphenyl-d14 (SIM)			0.470	mg/kg	0.500		94.0	40-116		
Matrix Spike (BXE0170-MS1)		Parent: L23E107-01		Prepared: 5/30/2023 Analyzed: 6/2/2023						
Naphthalene (SIM)	1.75	S1	0.024	mg/kg dry	2.42	ND	72.3	75-104		
2-Methylnaphthalene (SIM)	1.71	S1	0.024	mg/kg dry	2.42	ND	70.6	73-102		
1-Methylnaphthalene (SIM)	1.96		0.024	mg/kg dry	2.42	ND	81.0	76-107		
Acenaphthylene (SIM)	1.66	S1	0.024	mg/kg dry	2.42	ND	68.8	72-96		
Acenaphthene (SIM)	1.82	S1	0.024	mg/kg dry	2.42	ND	75.2	82-105		
Fluorene (SIM)	2.04		0.024	mg/kg dry	2.42	ND	84.6	76-104		
Phenanthrene (SIM)	2.11		0.024	mg/kg dry	2.42	ND	87.2	82-112		
Anthracene (SIM)	1.65	S1	0.024	mg/kg dry	2.42	ND	68.2	75-105		
Fluoranthene (SIM)	2.03		0.024	mg/kg dry	2.42	ND	83.9	71-112		
Pyrene (SIM)	1.99		0.024	mg/kg dry	2.42	ND	82.3	71-100		
Benz(a)anthracene (SIM)	1.87		0.024	mg/kg dry	2.42	ND	77.3	60-100		
Chrysene (SIM)	2.04		0.024	mg/kg dry	2.42	ND	84.5	67-110		
Benzo(b)fluoranthene (SIM)	1.82		0.024	mg/kg dry	2.42	ND	75.5	17-130		
Benzo(k)fluoranthene (SIM)	1.91		0.024	mg/kg dry	2.42	ND	78.9	41-127		
Benzo(a)pyrene (SIM)	1.69		0.024	mg/kg dry	2.42	ND	69.8	30-105		
Indeno(1,2,3-cd)pyrene (SIM)	2.11		0.024	mg/kg dry	2.42	ND	87.2	10-120		
Dibenz(a,h)anthracene (SIM)	1.81		0.024	mg/kg dry	2.42	ND	74.9	10-124		
Benzo(g,h,i)perylene (SIM)	2.10		0.024	mg/kg dry	2.42	ND	86.7	26-108		
Surrogate: 2-FBP (SIM)			0.440	mg/kg	0.500		88.0	52-115		
Surrogate: p-Terphenyl-d14 (SIM)			0.420	mg/kg	0.500		84.0	40-116		



Libby Environmental, Inc.

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Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Quality Control (Continued)

Semivolatile Organic Compounds by EPA Method 8270E (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike Dup (BXE0170-MSD1)		Parent: L23E107-01			Prepared: 5/30/2023		Analyzed: 6/2/2023			
Naphthalene (SIM)	1.88		0.024	mg/kg dry	2.42	ND	78.0	75-104	7.58	35
2-Methylnaphthalene (SIM)	1.84		0.024	mg/kg dry	2.42	ND	76.1	73-102	7.50	35
1-Methylnaphthalene (SIM)	2.11		0.024	mg/kg dry	2.42	ND	87.3	76-107	7.49	35
Acenaphthylene (SIM)	1.78		0.024	mg/kg dry	2.42	ND	73.7	72-96	6.88	35
Acenaphthene (SIM)	1.93	S1	0.024	mg/kg dry	2.42	ND	79.8	82-105	5.94	35
Fluorene (SIM)	2.18		0.024	mg/kg dry	2.42	ND	90.3	76-104	6.52	35
Phenanthrene (SIM)	2.22		0.024	mg/kg dry	2.42	ND	92.0	82-112	5.36	35
Anthracene (SIM)	1.77	S1	0.024	mg/kg dry	2.42	ND	73.2	75-105	7.07	35
Fluoranthene (SIM)	2.16		0.024	mg/kg dry	2.42	ND	89.2	71-112	6.12	35
Pyrene (SIM)	2.14		0.024	mg/kg dry	2.42	ND	88.6	71-100	7.37	35
Benz(a)anthracene (SIM)	1.94		0.024	mg/kg dry	2.42	ND	80.4	60-100	3.93	35
Chrysene (SIM)	2.17		0.024	mg/kg dry	2.42	ND	89.9	67-110	6.19	35
Benzo(b)fluoranthene (SIM)	1.92		0.024	mg/kg dry	2.42	ND	79.5	17-130	5.16	35
Benzo(k)fluoranthene (SIM)	1.97		0.024	mg/kg dry	2.42	ND	81.5	41-127	3.24	35
Benzo(a)pyrene (SIM)	1.82		0.024	mg/kg dry	2.42	ND	75.4	30-105	7.71	35
Indeno(1,2,3-cd)pyrene (SIM)	2.18		0.024	mg/kg dry	2.42	ND	90.1	10-120	3.27	35
Dibenz(a,h)anthracene (SIM)	1.90		0.024	mg/kg dry	2.42	ND	78.5	10-124	4.69	35
Benzo(g,h,i)perylene (SIM)	2.18		0.024	mg/kg dry	2.42	ND	90.4	26-108	4.18	35
Surrogate: 2-FBP (SIM)			0.460	mg/kg	0.500		92.0	52-115		
Surrogate: p-Terphenyl-d14 (SIM)			0.430	mg/kg	0.500		86.0	40-116		
Blank (BXE0176-BLK1)					Prepared: 5/30/2023		Analyzed: 6/2/2023			
Naphthalene (SIM)	ND		0.020	mg/kg wet						
2-Methylnaphthalene (SIM)	ND		0.020	mg/kg wet						
1-Methylnaphthalene (SIM)	ND		0.020	mg/kg wet						
Acenaphthylene (SIM)	ND		0.020	mg/kg wet						
Acenaphthene (SIM)	ND		0.020	mg/kg wet						
Fluorene (SIM)	ND		0.020	mg/kg wet						
Phenanthrene (SIM)	ND		0.020	mg/kg wet						
Anthracene (SIM)	ND		0.020	mg/kg wet						
Fluoranthene (SIM)	ND		0.020	mg/kg wet						
Pyrene (SIM)	ND		0.020	mg/kg wet						
Benz(a)anthracene (SIM)	ND		0.020	mg/kg wet						
Chrysene (SIM)	ND		0.020	mg/kg wet						
Benzo(b)fluoranthene (SIM)	ND		0.020	mg/kg wet						
Benzo(k)fluoranthene (SIM)	ND		0.020	mg/kg wet						
Benzo(a)pyrene (SIM)	ND		0.020	mg/kg wet						
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.020	mg/kg wet						
Dibenz(a,h)anthracene (SIM)	ND		0.020	mg/kg wet						
Benzo(g,h,i)perylene (SIM)	ND		0.020	mg/kg wet						
Surrogate: 2-FBP (SIM)			0.490	mg/kg	0.500		98.0	52-115		
Surrogate: p-Terphenyl-d14 (SIM)			0.480	mg/kg	0.500		96.0	40-116		



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Project: Delphi Soil
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City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Quality Control (Continued)

Semivolatile Organic Compounds by EPA Method 8270E (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (BXE0176-BS1)					Prepared: 5/30/2023 Analyzed: 6/2/2023					
Naphthalene (SIM)	1.56		0.020	mg/kg wet	2.00		77.8	60-130		
2-Methylnaphthalene (SIM)	1.51		0.020	mg/kg wet	2.00		75.3	60-130		
1-Methylnaphthalene (SIM)	1.71		0.020	mg/kg wet	2.00		85.6	60-130		
Acenaphthylene (SIM)	1.63		0.020	mg/kg wet	2.00		81.3	60-130		
Acenaphthene (SIM)	1.57		0.020	mg/kg wet	2.00		78.3	60-130		
Fluorene (SIM)	1.76		0.020	mg/kg wet	2.00		88.2	60-130		
Phenanthrene (SIM)	1.74		0.020	mg/kg wet	2.00		87.1	60-130		
Anthracene (SIM)	1.51		0.020	mg/kg wet	2.00		75.3	60-130		
Fluoranthene (SIM)	1.77		0.020	mg/kg wet	2.00		88.5	60-130		
Pyrene (SIM)	1.75		0.020	mg/kg wet	2.00		87.5	60-130		
Benz(a)anthracene (SIM)	1.73		0.020	mg/kg wet	2.00		86.4	60-130		
Chrysene (SIM)	1.79		0.020	mg/kg wet	2.00		89.4	60-130		
Benzo(b)fluoranthene (SIM)	1.61		0.020	mg/kg wet	2.00		80.3	60-130		
Benzo(k)fluoranthene (SIM)	1.69		0.020	mg/kg wet	2.00		84.3	60-130		
Benzo(a)pyrene (SIM)	1.63		0.020	mg/kg wet	2.00		81.3	60-130		
Indeno(1,2,3-cd)pyrene (SIM)	1.85		0.020	mg/kg wet	2.00		92.3	60-130		
Dibenz(a,h)anthracene (SIM)	1.60		0.020	mg/kg wet	2.00		79.8	60-130		
Benzo(g,h,i)perylene (SIM)	1.78		0.020	mg/kg wet	2.00		88.8	60-130		
Surrogate: 2-FBP (SIM)			0.460	mg/kg	0.500		92.0	52-115		
Surrogate: p-Terphenyl-d14 (SIM)			0.440	mg/kg	0.500		88.0	40-116		
Duplicate (BXE0176-DUP1)					Parent: L23E107-21 Prepared: 5/30/2023 Analyzed: 6/2/2023					
Naphthalene (SIM)	ND		0.024	mg/kg dry		ND				35
2-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry		ND				35
1-Methylnaphthalene (SIM)	ND		0.024	mg/kg dry		ND				35
Acenaphthylene (SIM)	ND		0.024	mg/kg dry		ND				35
Acenaphthene (SIM)	ND		0.024	mg/kg dry		ND				35
Fluorene (SIM)	ND		0.024	mg/kg dry		ND				35
Phenanthrene (SIM)	ND		0.024	mg/kg dry		ND				35
Anthracene (SIM)	ND		0.024	mg/kg dry		ND				35
Fluoranthene (SIM)	ND		0.024	mg/kg dry		ND				35
Pyrene (SIM)	ND		0.024	mg/kg dry		ND				35
Benz(a)anthracene (SIM)	ND		0.024	mg/kg dry		ND				35
Chrysene (SIM)	ND		0.024	mg/kg dry		ND				35
Benzo(b)fluoranthene (SIM)	ND		0.024	mg/kg dry		ND				35
Benzo(k)fluoranthene (SIM)	ND		0.024	mg/kg dry		ND				35
Benzo(a)pyrene (SIM)	ND		0.024	mg/kg dry		ND				35
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.024	mg/kg dry		ND				35
Dibenz(a,h)anthracene (SIM)	ND		0.024	mg/kg dry		ND				35
Benzo(g,h,i)perylene (SIM)	ND		0.024	mg/kg dry		ND				35
Surrogate: 2-FBP (SIM)			0.460	mg/kg	0.500		92.0	52-115		
Surrogate: p-Terphenyl-d14 (SIM)			0.460	mg/kg	0.500		92.0	40-116		



Libby Environmental, Inc.

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Reported: 06/06/2023 14:55

Quality Control (Continued)

Semivolatile Organic Compounds by EPA Method 8270E (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (BXE0176-MS1)		Parent: L23E107-21		Prepared: 5/30/2023 Analyzed: 6/2/2023						
Naphthalene (SIM)	1.92		0.024	mg/kg dry	2.43	ND	78.9	75-104		
2-Methylnaphthalene (SIM)	1.88		0.024	mg/kg dry	2.43	ND	77.3	73-102		
1-Methylnaphthalene (SIM)	2.14		0.024	mg/kg dry	2.43	ND	88.1	76-107		
Acenaphthylene (SIM)	1.94		0.024	mg/kg dry	2.43	ND	79.9	72-96		
Acenaphthene (SIM)	1.92	S1	0.024	mg/kg dry	2.43	ND	78.9	82-105		
Fluorene (SIM)	2.16		0.024	mg/kg dry	2.43	ND	89.1	76-104		
Phenanthrene (SIM)	2.15		0.024	mg/kg dry	2.43	ND	88.6	82-112		
Anthracene (SIM)	1.84		0.024	mg/kg dry	2.43	ND	75.7	75-105		
Fluoranthene (SIM)	2.20		0.024	mg/kg dry	2.43	ND	90.5	71-112		
Pyrene (SIM)	2.17		0.024	mg/kg dry	2.43	ND	89.2	71-100		
Benz(a)anthracene (SIM)	2.07		0.024	mg/kg dry	2.43	ND	85.2	60-100		
Chrysene (SIM)	2.20		0.024	mg/kg dry	2.43	ND	90.4	67-110		
Benzo(b)fluoranthene (SIM)	2.00		0.024	mg/kg dry	2.43	ND	82.4	17-130		
Benzo(k)fluoranthene (SIM)	1.99		0.024	mg/kg dry	2.43	ND	81.9	41-127		
Benzo(a)pyrene (SIM)	1.69		0.024	mg/kg dry	2.43	ND	69.4	30-105		
Indeno(1,2,3-cd)pyrene (SIM)	2.12		0.024	mg/kg dry	2.43	ND	87.2	10-120		
Dibenz(a,h)anthracene (SIM)	1.93		0.024	mg/kg dry	2.43	ND	79.4	10-124		
Benzo(g,h,i)perylene (SIM)	2.14		0.024	mg/kg dry	2.43	ND	87.9	26-108		
Surrogate: 2-FBP (SIM)			0.460	mg/kg	0.500		92.0	52-115		
Surrogate: p-Terphenyl-d14 (SIM)			0.450	mg/kg	0.500		90.0	40-116		
Matrix Spike Dup (BXE0176-MSD1)		Parent: L23E107-21		Prepared: 5/30/2023 Analyzed: 6/2/2023						
Naphthalene (SIM)	1.88		0.024	mg/kg dry	2.43	ND	77.3	75-104	2.05	35
2-Methylnaphthalene (SIM)	1.85		0.024	mg/kg dry	2.43	ND	76.2	73-102	1.43	35
1-Methylnaphthalene (SIM)	2.12		0.024	mg/kg dry	2.43	ND	87.4	76-107	0.798	35
Acenaphthylene (SIM)	1.91		0.024	mg/kg dry	2.43	ND	78.6	72-96	1.64	35
Acenaphthene (SIM)	1.89	S1	0.024	mg/kg dry	2.43	ND	77.8	82-105	1.40	35
Fluorene (SIM)	2.13		0.024	mg/kg dry	2.43	ND	87.7	76-104	1.58	35
Phenanthrene (SIM)	2.12		0.024	mg/kg dry	2.43	ND	87.4	82-112	1.36	35
Anthracene (SIM)	1.81	S1	0.024	mg/kg dry	2.43	ND	74.6	75-105	1.46	35
Fluoranthene (SIM)	2.16		0.024	mg/kg dry	2.43	ND	89.0	71-112	1.67	35
Pyrene (SIM)	2.13		0.024	mg/kg dry	2.43	ND	87.7	71-100	1.70	35
Benz(a)anthracene (SIM)	2.03		0.024	mg/kg dry	2.43	ND	83.5	60-100	2.02	35
Chrysene (SIM)	2.17		0.024	mg/kg dry	2.43	ND	89.5	67-110	1.00	35
Benzo(b)fluoranthene (SIM)	1.84		0.024	mg/kg dry	2.43	ND	75.8	17-130	8.34	35
Benzo(k)fluoranthene (SIM)	1.96		0.024	mg/kg dry	2.43	ND	80.5	41-127	1.72	35
Benzo(a)pyrene (SIM)	1.75		0.024	mg/kg dry	2.43	ND	72.2	30-105	3.95	35
Indeno(1,2,3-cd)pyrene (SIM)	2.06		0.024	mg/kg dry	2.43	ND	85.0	10-120	2.56	35
Dibenz(a,h)anthracene (SIM)	1.84		0.024	mg/kg dry	2.43	ND	75.6	10-124	4.90	35
Benzo(g,h,i)perylene (SIM)	2.09		0.024	mg/kg dry	2.43	ND	86.0	26-108	2.19	35
Surrogate: 2-FBP (SIM)			0.420	mg/kg	0.500		84.0	52-115		
Surrogate: p-Terphenyl-d14 (SIM)			0.420	mg/kg	0.500		84.0	40-116		
Blank (BXF0028-BLK1)		Prepared: 5/30/2023 Analyzed: 6/5/2023								
Naphthalene (SIM)	ND		0.020	mg/kg wet						
2-Methylnaphthalene (SIM)	ND		0.020	mg/kg wet						
1-Methylnaphthalene (SIM)	ND		0.020	mg/kg wet						
Acenaphthylene (SIM)	ND		0.020	mg/kg wet						
Acenaphthene (SIM)	ND		0.020	mg/kg wet						
Fluorene (SIM)	ND		0.020	mg/kg wet						
Phenanthrene (SIM)	ND		0.020	mg/kg wet						
Anthracene (SIM)	ND		0.020	mg/kg wet						
Fluoranthene (SIM)	ND		0.020	mg/kg wet						



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
Aberdeen, WA 98520

Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Quality Control (Continued)

Semivolatile Organic Compounds by EPA Method 8270E (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (BXF0028-BLK1)					Prepared: 5/30/2023 Analyzed: 6/5/2023					
Pyrene (SIM)	ND		0.020	mg/kg wet						
Benz(a)anthracene (SIM)	ND		0.020	mg/kg wet						
Chrysene (SIM)	ND		0.020	mg/kg wet						
Benzo(b)fluoranthene (SIM)	ND		0.020	mg/kg wet						
Benzo(k)fluoranthene (SIM)	ND		0.020	mg/kg wet						
Benzo(a)pyrene (SIM)	ND		0.020	mg/kg wet						
Indeno(1,2,3-cd)pyrene (SIM)	ND		0.020	mg/kg wet						
Dibenz(a,h)anthracene (SIM)	ND		0.020	mg/kg wet						
Benzo(g,h,i)perylene (SIM)	ND		0.020	mg/kg wet						
Surrogate: 2-FBP (SIM)			0.480	mg/kg	0.500		96.0	52-115		
Surrogate: p-Terphenyl-d14 (SIM)			0.490	mg/kg	0.500		98.0	40-116		
LCS (BXF0028-BS1)					Prepared: 5/30/2023 Analyzed: 6/5/2023					
Naphthalene (SIM)	1.60		0.020	mg/kg wet	2.00		80.1	60-130		
2-Methylnaphthalene (SIM)	1.54		0.020	mg/kg wet	2.00		77.0	60-130		
1-Methylnaphthalene (SIM)	1.79		0.020	mg/kg wet	2.00		89.6	60-130		
Acenaphthylene (SIM)	1.56		0.020	mg/kg wet	2.00		77.8	60-130		
Acenaphthene (SIM)	1.63		0.020	mg/kg wet	2.00		81.7	60-130		
Fluorene (SIM)	1.81		0.020	mg/kg wet	2.00		90.6	60-130		
Phenanthrene (SIM)	1.87		0.020	mg/kg wet	2.00		93.4	60-130		
Anthracene (SIM)	1.52		0.020	mg/kg wet	2.00		76.1	60-130		
Fluoranthene (SIM)	1.74		0.020	mg/kg wet	2.00		86.9	60-130		
Pyrene (SIM)	2.00		0.020	mg/kg wet	2.00		100	60-130		
Benz(a)anthracene (SIM)	1.71		0.020	mg/kg wet	2.00		85.7	60-130		
Chrysene (SIM)	1.94		0.020	mg/kg wet	2.00		97.1	60-130		
Benzo(b)fluoranthene (SIM)	1.82		0.020	mg/kg wet	2.00		90.8	60-130		
Benzo(k)fluoranthene (SIM)	1.93		0.020	mg/kg wet	2.00		96.7	60-130		
Benzo(a)pyrene (SIM)	1.74		0.020	mg/kg wet	2.00		86.8	60-130		
Indeno(1,2,3-cd)pyrene (SIM)	1.80		0.020	mg/kg wet	2.00		90.2	60-130		
Dibenz(a,h)anthracene (SIM)	1.59		0.020	mg/kg wet	2.00		79.7	60-130		
Benzo(g,h,i)perylene (SIM)	1.89		0.020	mg/kg wet	2.00		94.3	60-130		
Surrogate: 2-FBP (SIM)			0.460	mg/kg	0.500		92.0	52-115		
Surrogate: p-Terphenyl-d14 (SIM)			0.470	mg/kg	0.500		94.0	40-116		



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
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Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Quality Control (Continued)

Gasoline by Method NWTPH-Gx

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BXE0175 - VOA										
Blank (BXE0175-BLK1)										
Gasoline	ND		10	mg/kg wet	Prepared: 5/26/2023 Analyzed: 5/30/2023					
Surrogate: Toluene-d8			19.9	ug/L	20.0		99.4	41-142		
Blank (BXE0175-BLK2)										
Gasoline	ND		10	mg/kg wet	Prepared: 5/26/2023 Analyzed: 5/31/2023					
Surrogate: Toluene-d8			19.0	ug/L	20.0		94.9	41-142		
Duplicate (BXE0175-DUP1)										
Gasoline	ND		28	mg/kg dry	Prepared: 5/26/2023 Analyzed: 5/30/2023					
Surrogate: Toluene-d8			20.4	ug/L	20.0	ND	102	41-142		200
Duplicate (BXE0175-DUP2)										
Gasoline	ND		29	mg/kg dry	Prepared: 5/26/2023 Analyzed: 5/30/2023					
Surrogate: Toluene-d8			22.2	ug/L	20.0	ND	111	41-142		200
Duplicate (BXE0175-DUP3)										
Gasoline	ND		29	mg/kg dry	Prepared: 5/26/2023 Analyzed: 5/30/2023					
Surrogate: Toluene-d8			20.5	ug/L	20.0	ND	103	41-142		200
Duplicate (BXE0175-DUP4)										
Gasoline	ND		29	mg/kg dry	Prepared: 5/26/2023 Analyzed: 5/30/2023					
Surrogate: Toluene-d8			21.2	ug/L	20.0	ND	106	41-142		200



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Work Order: L23E107
Reported: 06/06/2023 14:55

Quality Control (Continued)

Diesel and Oil by NWTPH-Dx/Dx

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BXE0168 - Extraction										
Blank (BXE0168-BLK1)										
					Prepared: 5/30/2023 Analyzed: 5/31/2023					
Diesel	ND		50	mg/kg wet						
Oil	ND		250	mg/kg wet						
Surrogate: 2-FBP			20.4	ug/mL	20.0		102	43.6-129		
LCS (BXE0168-BS1)										
					Prepared: 5/30/2023 Analyzed: 5/31/2023					
Diesel	116		50	mg/kg wet	100		116	72.6-130		
Surrogate: 2-FBP			25.2	ug/mL	20.0		126	43.6-129		
Duplicate (BXE0168-DUP1)										
			Parent: L23E107-01		Prepared: 5/30/2023 Analyzed: 5/31/2023					
Diesel	ND		60	mg/kg dry		ND				35
Oil	ND		300	mg/kg dry		ND				35
Surrogate: 2-FBP			14.5	ug/mL	20.0		72.3	43.6-129		
Duplicate (BXE0168-DUP2)										
			Parent: L23E107-20		Prepared: 5/30/2023 Analyzed: 5/31/2023					
Diesel	ND		59	mg/kg dry		ND				35
Oil	ND		300	mg/kg dry		ND				35
Surrogate: 2-FBP			18.8	ug/mL	20.0		94.2	43.6-129		
Blank (BXE0169-BLK1)										
					Prepared & Analyzed: 5/30/2023					
Diesel	ND		50	mg/kg wet						
Oil	ND		250	mg/kg wet						
Surrogate: 2-FBP			20.8	ug/mL	20.0		104	43.6-129		
LCS (BXE0169-BS1)										
					Prepared & Analyzed: 5/30/2023					
Diesel	95.6		50	mg/kg wet	100		95.6	72.6-130		
Surrogate: 2-FBP			22.8	ug/mL	20.0		114	43.6-129		
Duplicate (BXE0169-DUP1)										
			Parent: L23E104-01		Prepared & Analyzed: 5/30/2023					
Diesel	24600		560	mg/kg dry		22500			9.21	35
Oil	ND		2800	mg/kg dry		ND				35
Surrogate: 2-FBP			F 182	ug/mL	20.0		908	43.6-129		
Duplicate (BXE0169-DUP2)										
			Parent: L23E107-32		Prepared & Analyzed: 5/30/2023					
Diesel	ND		61	mg/kg dry		ND				35
Oil	ND		310	mg/kg dry		ND				35
Surrogate: 2-FBP			19.5	ug/mL	20.0		97.4	43.6-129		



Libby Environmental, Inc.

Brumfield Construction
2007 Westport Rd
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Project: Delphi Soil
Project Manager: Josh Franzke

City/State: Aberdeen, WA
Work Order: L23E107
Reported: 06/06/2023 14:55

Quality Control (Continued)

Total Metals by EPA Method 7010

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BXF0003 - Metals Digest

Blank (BXF0003-BLK1)

Prepared: 6/1/2023 Analyzed: 6/5/2023

Arsenic	ND		5.0	mg/kg wet						
Cadmium	ND		1.0	mg/kg wet						
Chromium	ND		5.0	mg/kg wet						
Lead	ND		5.0	mg/kg wet						

LCS (BXF0003-BS1)

Prepared: 6/1/2023 Analyzed: 6/5/2023

Arsenic	1.03		5.0	mg/kg wet	1.00		103	80-120		
Cadmium	0.826		2.0	mg/kg wet	1.00		82.6	80-120		
Chromium	1.18		5.0	mg/kg wet	1.00		118	80-120		
Lead	1.04		5.0	mg/kg wet	1.00		104	80-120		

LCS Dup (BXF0003-BSD1)

Prepared: 6/1/2023 Analyzed: 6/5/2023

Arsenic	0.878		5.0	mg/kg wet	1.00		87.8	80-120	16.3	20
Cadmium	0.860		2.0	mg/kg wet	1.00		86.0	80-120	3.94	20
Chromium	1.15		5.0	mg/kg wet	1.00		115	80-120	2.28	20
Lead	0.901		5.0	mg/kg wet	1.00		90.1	80-120	14.3	20

Duplicate (BXF0003-DUP1)

Parent: L23E107-01

Prepared: 6/1/2023 Analyzed: 6/5/2023

Arsenic	ND		6.0	mg/kg dry		ND				20
Cadmium	0.0466		1.2	mg/kg dry		ND				20
Chromium	9.33		6.0	mg/kg dry		8.99			3.77	20
Lead	1.43		6.0	mg/kg dry		1.38			3.58	20

Duplicate (BXF0003-DUP2)

Parent: L23E107-11

Prepared: 6/1/2023 Analyzed: 6/5/2023

Arsenic	ND		6.2	mg/kg dry		ND				20
Cadmium	ND		1.2	mg/kg dry		0.0659				20
Chromium	10.6		6.2	mg/kg dry		9.89			7.04	20
Lead	1.50		6.2	mg/kg dry		1.32			12.6	20

Matrix Spike (BXF0003-MS1)

Parent: L23E107-01

Prepared: 6/1/2023 Analyzed: 6/5/2023

Arsenic	1.38		6.0	mg/kg dry	1.21	ND	114	75-125		
Cadmium	1.14		2.4	mg/kg dry	1.21	ND	94.4	75-125		
Chromium	13.7	A	6.0	mg/kg dry	1.21	8.99	394	75-125		
Lead	2.47		6.0	mg/kg dry	1.21	1.38	90.4	75-125		



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Reported: 06/06/2023 14:55

Quality Control (Continued)

Total Metals by EPA Method 7010 (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike Dup (BXF0003-MSD1)		Parent: L23E107-01		Prepared: 6/1/2023 Analyzed: 6/5/2023						
Arsenic	1.31		6.0	mg/kg dry	1.21	ND	108	75-125	5.13	20
Cadmium	1.09		2.4	mg/kg dry	1.21	ND	90.3	75-125	4.44	20
Chromium	12.7	A	6.0	mg/kg dry	1.21	8.99	311	75-125	7.54	20
Lead	2.54		6.0	mg/kg dry	1.21	1.38	96.3	75-125	2.82	20
Post Spike (BXF0003-PS1)		Parent: L23E107-01		Prepared & Analyzed: 6/1/2023						
Chromium	55.2		240	mg/kg dry	48.3	8.99	95.6	75-125		
Post Spike (BXF0003-PS2)		Parent: L23E107-01		Prepared & Analyzed: 6/1/2023						
Chromium	57.6		240	mg/kg dry	48.3	8.99	101	75-125		
Blank (BXF0004-BLK1)		Prepared: 6/1/2023 Analyzed: 6/6/2023								
Arsenic	ND		5.0	mg/kg wet						
Cadmium	ND		1.0	mg/kg wet						
Chromium	ND		5.0	mg/kg wet						
Lead	ND		5.0	mg/kg wet						
LCS (BXF0004-BS1)		Prepared: 6/1/2023 Analyzed: 6/6/2023								
Arsenic	1.17		5.0	mg/kg wet	1.00		117	80-120		
Cadmium	1.02		2.0	mg/kg wet	1.00		102	80-120		
Chromium	1.15		5.0	mg/kg wet	1.00		115	80-120		
Lead	0.870		5.0	mg/kg wet	1.00		87.0	80-120		
LCS Dup (BXF0004-BSD1)		Prepared: 6/1/2023 Analyzed: 6/6/2023								
Arsenic	1.08		5.0	mg/kg wet	1.00		108	80-120	8.41	20
Cadmium	0.935		2.0	mg/kg wet	1.00		93.5	80-120	8.39	20
Chromium	0.986		5.0	mg/kg wet	1.00		98.6	80-120	15.7	20
Lead	0.961		5.0	mg/kg wet	1.00		96.1	80-120	9.96	20
Duplicate (BXF0004-DUP1)		Parent: L23E107-21		Prepared: 6/1/2023 Analyzed: 6/6/2023						
Arsenic	ND		6.1	mg/kg dry		2.78				20
Cadmium	ND		1.2	mg/kg dry		ND				20
Chromium	17.8		6.1	mg/kg dry		15.9			11.2	20
Lead	1.24		6.1	mg/kg dry		1.12			9.98	20



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Quality Control (Continued)

Total Metals by EPA Method 7010 (Continued)

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Duplicate (BXF0004-DUP2)		Parent: L23E107-32		Prepared: 6/1/2023 Analyzed: 6/6/2023						
Arsenic	ND		6.1	mg/kg dry		1.30				20
Cadmium	ND		1.2	mg/kg dry		ND				20
Chromium	7.76		6.1	mg/kg dry		9.15			16.4	20
Lead	ND		6.1	mg/kg dry		0.936				20
Matrix Spike (BXF0004-MS1)		Parent: L23E107-21		Prepared: 6/1/2023 Analyzed: 6/6/2023						
Arsenic	4.11		6.1	mg/kg dry	1.21	2.78	110	75-125		
Cadmium	1.14		2.4	mg/kg dry	1.21	ND	93.9	75-125		
Chromium	15.9	A	6.1	mg/kg dry	1.21	15.9	2.01	75-125		
Lead	2.22		6.1	mg/kg dry	1.21	1.12	90.7	75-125		
Matrix Spike Dup (BXF0004-MSD1)		Parent: L23E107-21		Prepared: 6/1/2023 Analyzed: 6/6/2023						
Arsenic	4.29		6.1	mg/kg dry	1.21	2.78	125	75-125	4.29	20
Cadmium	1.10		2.4	mg/kg dry	1.21	ND	90.5	75-125	3.64	20
Chromium	16.4	A	6.1	mg/kg dry	1.21	15.9	39.5	75-125	2.82	20
Lead	2.28		6.1	mg/kg dry	1.21	1.12	95.7	75-125	2.73	20
Post Spike (BXF0004-PS1)		Parent: L23E107-21		Prepared & Analyzed: 6/1/2023						
Chromium	111		490	mg/kg dry	97.2	15.9	98.0	75-125		
Post Spike (BXF0004-PS2)		Parent: L23E107-21		Prepared & Analyzed: 6/1/2023						
Chromium	105		490	mg/kg dry	97.2	15.9	91.5	75-125		



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Quality Control (Continued)

Mercury by EPA 7471B

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BXE0171 - Metals Digest										
Blank (BXE0171-BLK1)					Prepared & Analyzed: 5/30/2023					
Mercury	ND		0.50	mg/kg wet						
LCS (BXE0171-BS1)					Prepared & Analyzed: 5/30/2023					
Mercury	1.98		0.50	mg/kg wet	2.00		99.0	80-120		
Duplicate (BXE0171-DUP1)					Parent: L23E107-01 Prepared & Analyzed: 5/30/2023					
Mercury	ND		0.60	mg/kg dry		ND				20
Duplicate (BXE0171-DUP2)					Parent: L23E107-11 Prepared & Analyzed: 5/30/2023					
Mercury	ND		0.62	mg/kg dry		ND				20
Matrix Spike (BXE0171-MS1)					Parent: L23E107-01 Prepared & Analyzed: 5/30/2023					
Mercury	2.56		0.60	mg/kg dry	2.42	ND	106	80-120		
Matrix Spike Dup (BXE0171-MSD1)					Parent: L23E107-01 Prepared & Analyzed: 5/30/2023					
Mercury	2.45		0.60	mg/kg dry	2.42	ND	101	80-120	4.49	20
Blank (BXE0173-BLK1)					Prepared & Analyzed: 5/30/2023					
Mercury	ND		0.50	mg/kg wet						
LCS (BXE0173-BS1)					Prepared & Analyzed: 5/30/2023					
Mercury	1.75		0.50	mg/kg wet	2.00		87.4	80-120		
Duplicate (BXE0173-DUP1)					Parent: L23E107-21 Prepared & Analyzed: 5/30/2023					
Mercury	ND		0.61	mg/kg dry		ND				20
Duplicate (BXE0173-DUP2)					Parent: L23E107-32 Prepared & Analyzed: 5/30/2023					
Mercury	ND		0.61	mg/kg dry		ND				20
Matrix Spike (BXE0173-MS1)					Parent: L23E107-21 Prepared & Analyzed: 5/30/2023					
Mercury	2.24		0.61	mg/kg dry	2.43	ND	92.0	80-120		
Matrix Spike Dup (BXE0173-MSD1)					Parent: L23E107-21 Prepared & Analyzed: 5/30/2023					
Mercury	2.12		0.61	mg/kg dry	2.43	ND	87.4	80-120	5.19	20



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Reported: 06/06/2023 14:55

Quality Control (Continued)

Moisture by ASTM D2216-19

Analyte	Result	Qual	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch: BXE0172 - Gen Chem

LCS (BXE0172-BS1)

Moisture	18			%	17.0		103	90-115		
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Prepared & Analyzed: 5/30/2023

LCS (BXE0174-BS1)

Moisture	18			%	17.0		105	90-115		
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Prepared & Analyzed: 5/30/2023

Libby Environmental, Inc.

3322 South Bay Road NE

Olympia, WA 98506

Phone: (360) 352-2110

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DELPHI SOIL PROJECT

Brumfield Construction

Libby Project # L23E107

Date Received 5/20/2023

Time Received 11:55 AM

Received By JC

Sample Receipt Checklist

Chain of Custody

- | | | | |
|---|--|------------------------------------|----------------------------------|
| 1. Is the Chain of Custody is complete? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 2. How was the sample delivered? | <input checked="" type="checkbox"/> Hand Delivered | <input type="checkbox"/> Picked Up | <input type="checkbox"/> Shipped |

Log In

- | | | | |
|---|---|--|------------------------------|
| 3. Cooler or Shipping Container is present. | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 4. Cooler or Shipping Container is in good condition. | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 5. Cooler or Shipping Container has Custody Seals present. | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> N/A |
| 6. Was an attempt made to cool the samples? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A |
| 7. Temperature of cooler (0°C to 8°C recommended) | <u>1.5 °C</u> | | |
| 8. Temperature of sample(s) (0°C to 8°C recommended) | <u>26.5 °C</u> | | |
| 9. Did all containers arrive in good condition (unbroken)? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 10. Is it clear what analyses were requested? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 11. Did container labels match Chain of Custody? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 12. Are matrices correctly identified on Chain of Custody? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 13. Are correct containers used for the analysis indicated? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 14. Is there sufficient sample volume for indicated analysis? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 15. Were all containers properly preserved per each analysis? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |
| 16. Were VOA vials collected correctly (no headspace)? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | <input type="checkbox"/> N/A |
| 17. Were all holding times able to be met? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | |

Discrepancies/ Notes

- | | | | |
|---|---|-----------------------------|---|
| 18. Was client notified of all discrepancies? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | <input checked="" type="checkbox"/> N/A |
|---|---|-----------------------------|---|

Person Notified: Gage

Date: 5/26/2023

By Whom: JC

Via: Voicemail

Regarding: Sample Volume

19. Comments. Sample D-9, received 4oz jar and empty 20mL VOAs. Transferred volume from jar to VOA upon arrival for Gx analysis.

APPENDIX E

Low Permeability Soil Laboratory Permeability and Proctor Tests



GEOSCIENCES INC.
DBE/MWBE

January 20, 2023
HWA Project No. 2022-212-23 Task 100

Brumfield Construction, Inc.

2007 Westport Road
PO Box 600
Aberdeen WA, 98520

Attention: Mr. Josh Franzke

Subject: **Materials Laboratory Report
C Street Landfill
Shelton, WA**

Dear Mr. Franzke:

In accordance with your request, HWA GeoSciences Inc. (HWA) performed laboratory testing for the above referenced project. Herein we present the results of our laboratory analyses, which are summarized on the attached Figures and following Tables. The laboratory testing program was performed in general accordance with your instructions and appropriate ASTM Standards as outlined below.

SAMPLE DESCRIPTION: Two samples were delivered to our laboratory on December 19, 2022 by Brumfield Construction personnel. The samples were contained in four 5-gallon buckets (two buckets per sample) designated as Delphi, S-1 and Green Diamond, S-1.

Based on manual-visual methods, the soil description for the samples were as follows:

Delphi, S-1 Dark reddish-brown, silty GRAVEL with sand (GM)

Green Diamond, S-1 Very dark brown, silty SAND with gravel (SM)

PARTICLE SIZE ANALYSIS OF SOILS: The samples were tested to determine the particle size distribution in general accordance with ASTM D6913, using sieve analysis only. The results are plotted on the attached Particle Size Distribution reports, Figures 1 through 2.

LABORATORY COMPACTION CHARACTERISTICS OF SOIL (PROCTOR TEST): The samples were tested using method ASTM D1557 (Modified Proctor) Method C. The test was performed on the portion of the sample passing $\frac{3}{4}$ ", as required by the test procedure. The maximum dry density and optimum moisture content result have been corrected for the amount of over-sized material using method ASTM D4718. The test results are summarized on the attached Laboratory Compaction Test reports, Figures 3 through 4.

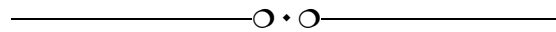
HYDRAULIC CONDUCTIVITY OF SOIL (FLEXI-WALL TRIAXIAL CHAMBER METHOD): The hydraulic conductivity (also commonly referred to as coefficient of permeability) of the samples was measured in general accordance with method ASTM D5084. The samples were screened over a $\frac{3}{4}$ " sieve in preparation for 4-inch molds and as such the uncorrected modified proctor values were used. Initially, the samples were laboratory compacted to a target density of at least 90% of Modified Proctor at approximately 2% over optimum moisture content. Actual densities achieved were 91.2% of maximum dry density (Delphi) and 90.3% of maximum dry density (Green Diamond). The results of these trials were above the required minimum permeability rate of 1.0×10^{-6} cm/sec. As directed by the client, two additional samples were compacted to a target density of 95% of maximum dry density at approximately 2% over optimum moisture content. Test samples were re-molded and weighed prior to placement within a flexible membrane within a triaxial pressure chamber. An effective confining pressure of 3 psi was applied. Testing was conducted until inflow was approximately equal to outflow and the hydraulic conductivity was essentially steady. A summary of the results is presented below in Tables 1 and 2. The test results are presented in detail on the attached Hydraulic Conductivity Test Report, Figures 5 through 8.

Table 1 - Hydraulic Conductivity Test Results of Delphi, S-1

Sample	% Relative Compaction Uncorrected (D1557)	Dry Unit Weight	Remolded Moisture Content	Hydraulic Conductivity
Delphi, S-1	91.2	112.7 pcf	13.9%	1.6×10^{-6} cm/sec
	95.0	117.4 pcf	15.3%	2.6×10^{-7} cm/sec

Table 2 - Hydraulic Conductivity Test Results of Green Diamond, S-1

Sample	% Relative Compaction Uncorrected (D1557)	Dry Unit Weight	Remolded Moisture Content	Hydraulic Conductivity
Green Diamond, S-1	90.3	99.2 pcf	19.8%	2.3×10^{-6} cm/sec
	95.0	103.4 pcf	19.8%	6.9×10^{-8} cm/sec



CLOSURE: Experience has shown that test values on soil and other natural materials vary with each representative sample. As such, HWA has no knowledge as to the extent and quantity of material the tested samples may represent. HWA also makes no warranty as to how representative either the samples tested, or the test results obtained, are to actual field conditions. It is a well-established fact that sampling methods present varying degrees of disturbance that affect sample representativeness.

No copy should be made of this report except in its entirety.

We appreciate the opportunity to provide laboratory testing services on this project. Should you have any questions or comments, or if we may be of further service, please call.

HWA GEOSCIENCES INC.

Alex Hodges
Materials Laboratory Supervisor

Steven E. Greene, L.G., L.E.G.
Engineering Geologist
Vice President

Attachments:

Figures 1-2	Particle Size Distribution Report
Figures 3-4	Compaction Test Report
Figures 5-8	Hydraulic Conductivity Test Report

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines
	Coarse	Fine	Coarse	Medium	Fine	
0	17	25	9	12	13	24

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
2"	100		
1-1/2"	96		
1-1/4"	94		
1"	89		
3/4"	83		
5/8"	79		
1/2"	74		
3/8"	70		
#4	58		
#10	49		
#20	42		
#40	37		
#60	32		
#100	28		
#200	24	12.1-35	

* WSDOT 9-03.14(3) Common Borrow - Option 2

<u>Soil Description</u>		
Dark reddish-brown, silty GRAVEL with sand		
<u>Atterberg Limits</u>		
PL=	LL=	PI=
<u>Coefficients</u>		
D ₉₀ = 26.7185	D ₈₅ = 21.0918	D ₆₀ = 5.4987
D ₅₀ = 2.1837	D ₃₀ = 0.1855	D ₁₅ =
D ₁₀ =	C _u =	C _c =
<u>Classification</u>		
USCS= GM	AASHTO=	
<u>Remarks</u>		
Natural Moisture: 18.0%		

Source of Sample: Delphi
Sample Number: S-1

Date: 12/19/2022



Client: Brumfield Construction, Inc.
Project: C Street Landfill
Shelton, WA
Project No: 2022-212

Figure 1

Tested By: NJ Checked By: SEG

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines
	Coarse	Fine	Coarse	Medium	Fine	
0	8	18	5	9	14	46

SIEVE SIZE OR DIAMETER	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
3"	100		
2"	96		
1-1/4"	94		
3/4"	92		
5/8"	90		
1/2"	87		
3/8"	83		
#4	74		
#10	69		
#20	65		
#40	60		
#60	55		
#100	51		
#200	46	35-100	

<u>Soil Description</u>		
Very dark brown, silty SAND with gravel		
<u>Atterberg Limits</u>		
PL=	LL=	PI=
<u>Coefficients</u>		
D ₉₀ = 15.3551	D ₈₅ = 11.1755	D ₆₀ = 0.4071
D ₅₀ = 0.1321	D ₃₀ =	D ₁₅ =
D ₁₀ =	C _u =	C _c =
<u>Classification</u>		
USCS= SM	AASHTO=	
<u>Remarks</u>		
Natural Moisture: 31.3%		

* WSDOT 9-03.14(3) Common Borrow - Option 3

Source of Sample: Green Diamond
Sample Number: S-1

Date: 12/19/2022



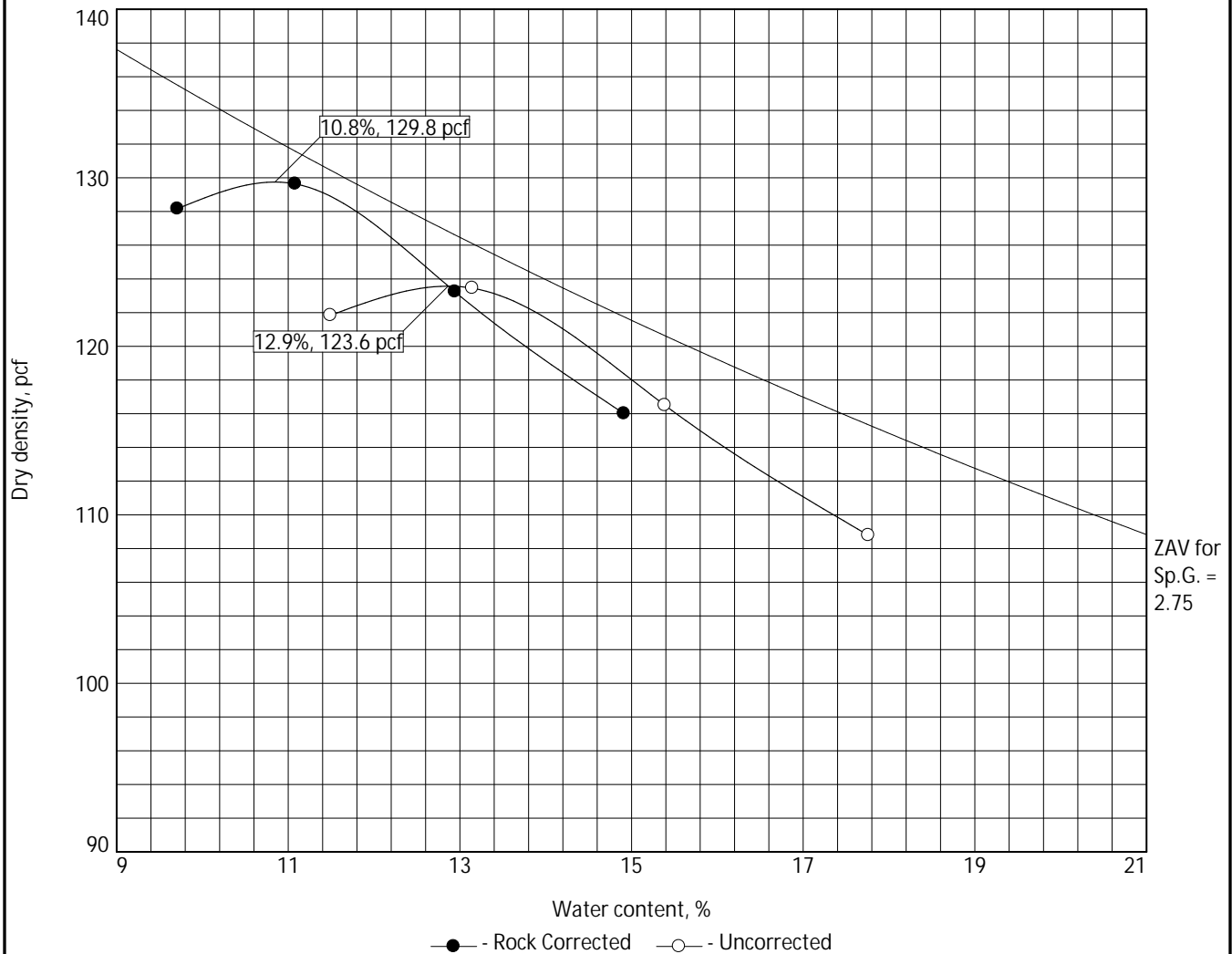
GEOSCIENCES INC.
DBE/MWBE

Client: Brumfield Construction, Inc.
Project: C Street Landfill
Shelton, WA
Project No: 2022-212

Figure 2

Tested By: NJ _____ Checked By: SEG _____

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method C Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
	GM		18.0	2.75			17	24

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 129.8 pcf	123.6 pcf	Dark reddish-brown, silty GRAVEL with sand
Optimum moisture = 10.8 %	12.9 %	

Project No. 2022-212 Client: Brumfield Construction, Inc.
Project: C Street Landfill
Shelton, WA Date: 1/5/2023
○ Source of Sample: Delphi Sample Number: S-1

Remarks:
Specific Gravity Assumed

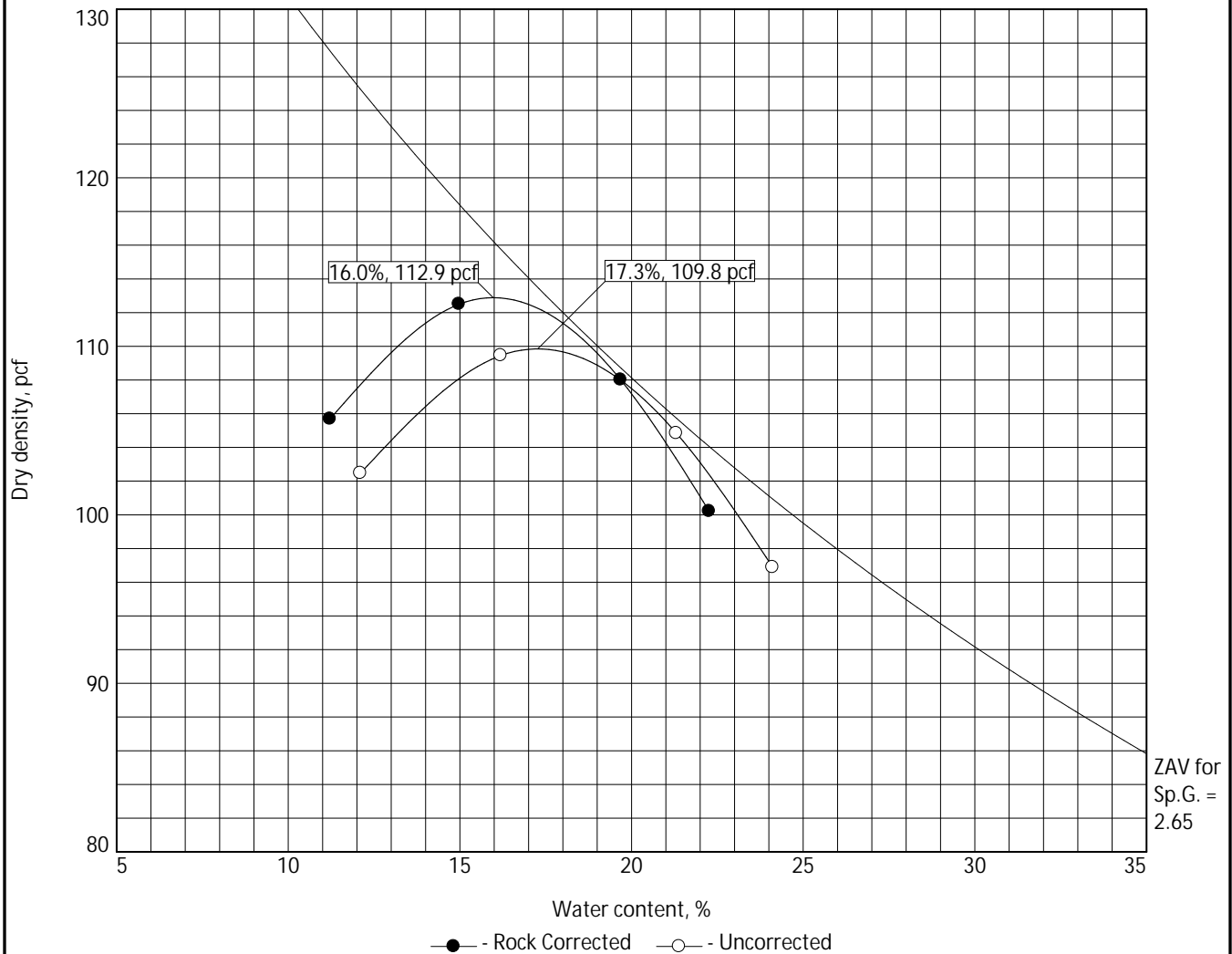


GEOSCIENCES INC.
DBE/MWBE

Figure 3

Tested By: NJ Checked By: SEG

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method C Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
	SM		31.3	2.65			8	46

ROCK CORRECTED TEST RESULTS	UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 112.9 pcf	109.8 pcf	Very dark brown, silty SAND with gravel
Optimum moisture = 16.0 %	17.3 %	

Project No. 2022-212 Client: Brumfield Construction, Inc.
Project: C Street Landfill
Shelton, WA Date: 1/5/2023
○ Source of Sample: Green Diamond Sample Number: S-1

Remarks:
Specific Gravity Assumed



GEOSCIENCES INC.
DBE/MWBE

Figure 4

Tested By: KN/NJ Checked By: SEG

Hydraulic Conductivity Test Report

Method ASTM D 5084



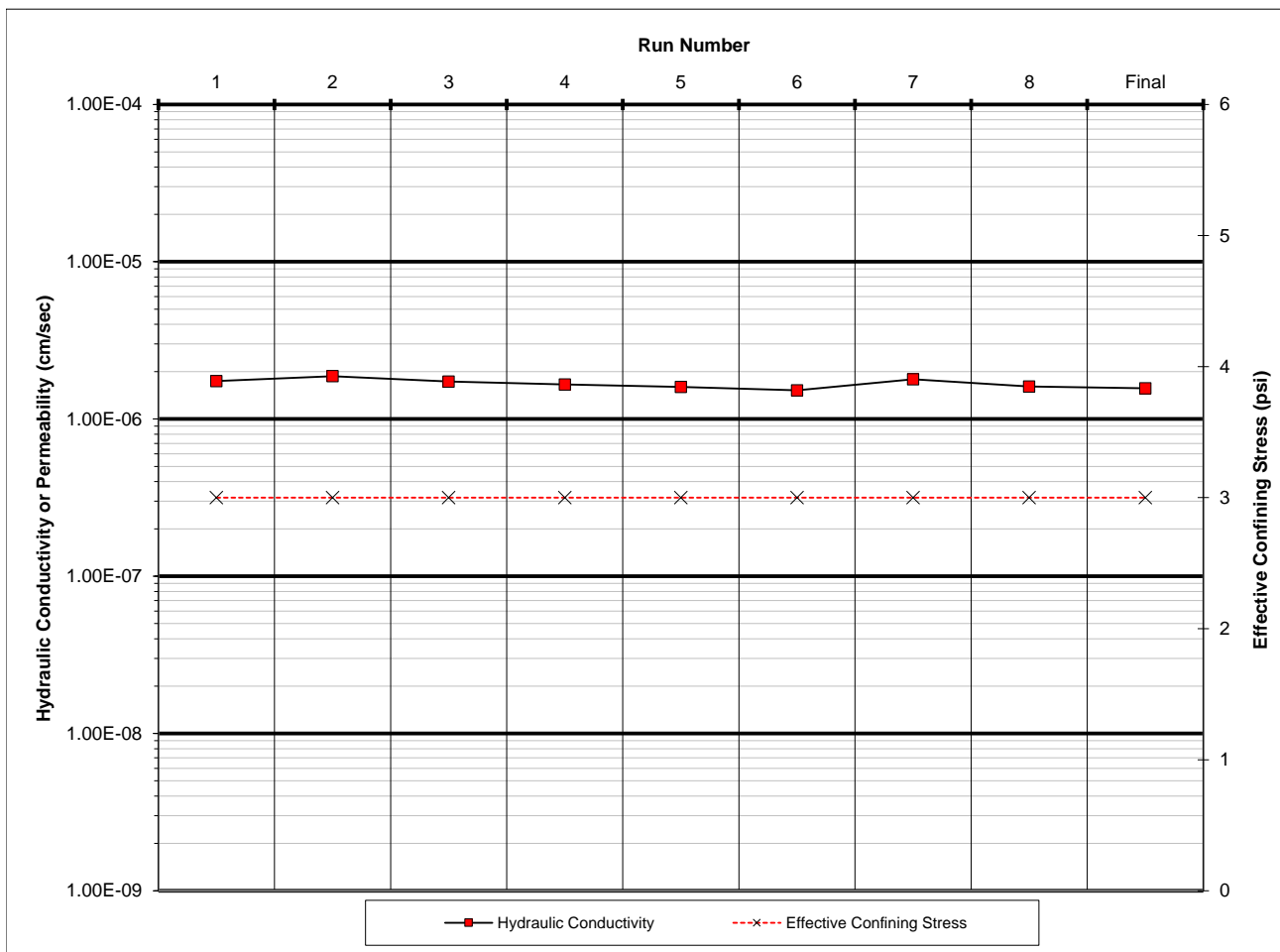
HWA GEOSCIENCES INC.

Project C Street Landfill
Client Brumfield Construction Inc.
Project number 2022-212
Date 1/12/2023
Technician AH
Sample point Delphi
Sample number S-1
Sample depth 0
Sample description Dark reddish-brown, silty GRAVEL with sand

Assumed Specific Gravity 2.65
Initial Sample Area (cm²) 80.87
Initial Sample Length (cm) 11.69
Initial Sample Volume (cc) 945.2
Initial moisture (%) 13.9
Initial wet unit wt. (pcf) 128.3
Initial dry unit wt. (pcf) 112.7
Initial void ratio 0.467
Initial porosity 0.319
Initial saturation (%) 78.7

Final Sample Area (cm²) 80.64
Final Sample Length (cm) 11.70
Final Sample Volume (cc) 943.2
Final moisture (%) 17.9
Final wet unit weight (pcf) 131.8
Final dry unit weight (pcf) 111.8
Final void ratio 0.479
Final porosity 0.324
Final saturation (%) 99.0

Run No.	Hydraulic Conductivity (cm/s)	Running Average of 4 Readings (cm/s)	Maximum % Deviation from Average (should be less than 25%)	Flow Ratio (0.75 to 1.25 required)	Effective Confining Stress (psi)	Other Information
1	1.7E-06	n.a.		0.94	3	Maximum Gradient 13.0
2	1.9E-06	n.a.		0.93	3	
3	1.7E-06	n.a.		0.97	3	Minimum Gradient 8.9
4	1.7E-06	1.8E-06	6.9%	0.92	3	Max. Back Pressure (psi) 16.0
5	1.6E-06	1.7E-06	9.1%	0.93	3	Min. Back Pressure (psi) 16.0
6	1.5E-06	1.6E-06	6.5%	0.96	3	
7	1.8E-06	1.6E-06	8.9%	1.03	3	
8	1.6E-06	1.6E-06	9.7%	0.97	3	
Final	1.6E-06	1.6E-06	10.2%	0.92	3	



Checked by: SEG

FIGURE: 5

Hydraulic Conductivity Test Report

Method ASTM D 5084



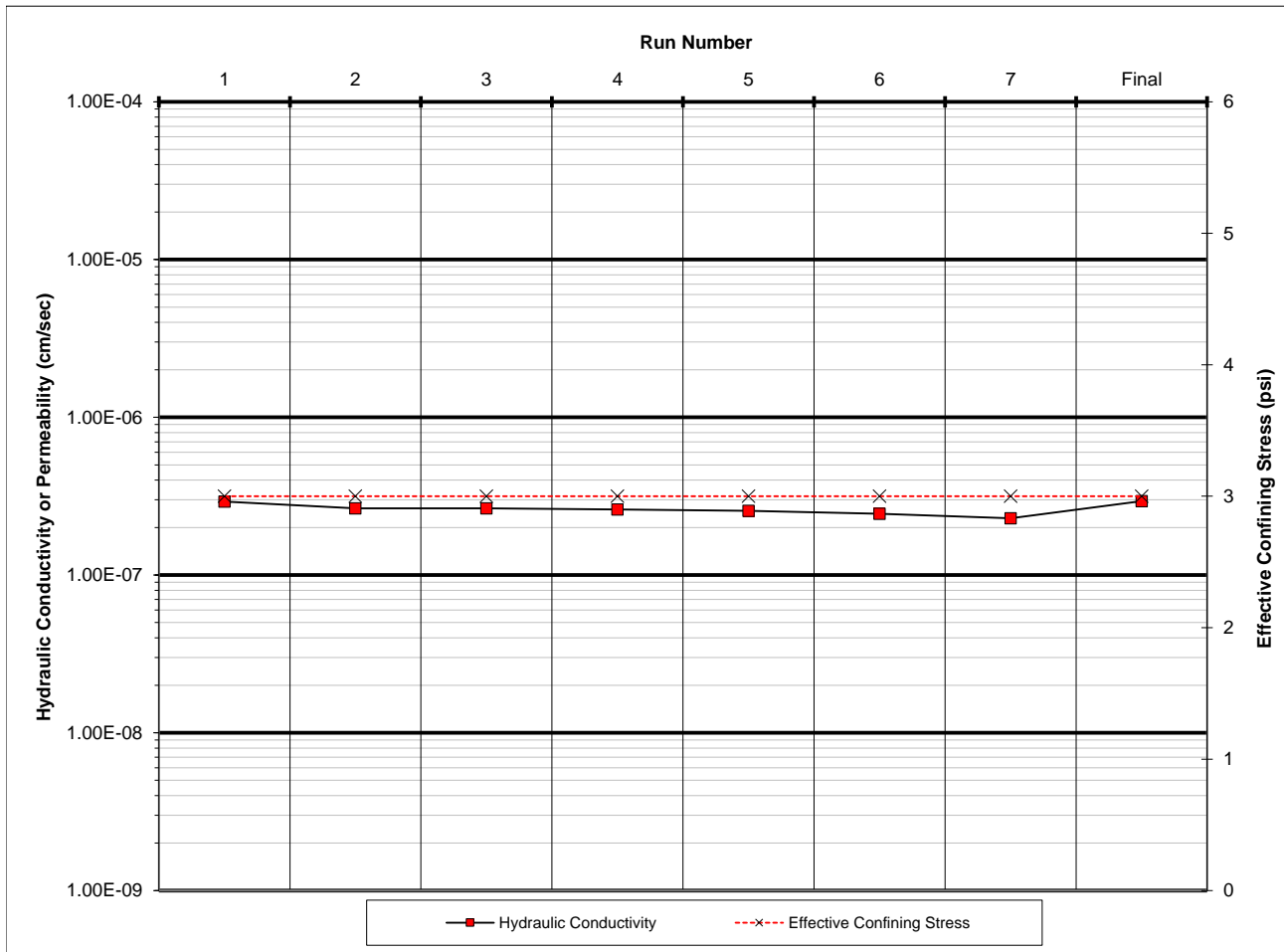
HWA GEOSCIENCES INC.

Project C Street Landfill
Client Brumfield Construction Inc.
Project number 2022-212
Date 1/18/2023
Technician AH
Sample point Delphi
Sample number S-1
Sample depth 0
Sample description Dark reddish-brown, silty GRAVEL with sand

Assumed Specific Gravity 2.65
Initial Sample Area (cm²) 80.86
Initial Sample Length (cm) 11.74
Initial Sample Volume (cc) 949.0
Initial moisture (%) 15.3
Initial wet unit wt. (pcf) 135.3
Initial dry unit wt. (pcf) 117.4
Initial void ratio 0.409
Initial porosity 0.290
Initial saturation (%) 99.1

Final Sample Area (cm²) 81.29
Final Sample Length (cm) 11.74
Final Sample Volume (cc) 954.2
Final moisture (%) 16.2
Final wet unit weight (pcf) 135.7
Final dry unit weight (pcf) 116.8
Final void ratio 0.416
Final porosity 0.294
Final saturation (%) 103.1

Run No.	Hydraulic Conductivity (cm/s)	Running Average of 4 Readings (cm/s)	Maximum % Deviation from Average (should be less than 25%)	Flow Ratio (0.75 to 1.25 required)	Effective Confining Stress (psi)	Other Information
1	2.9E-07	n.a.		1.00	3	Maximum Gradient 13.0
2	2.6E-07	n.a.		0.90	3	
3	2.7E-07	n.a.		0.95	3	Minimum Gradient 10.0
4	2.6E-07	2.7E-07	8.1%	0.93	3	
5	2.6E-07	2.6E-07	2.3%	0.89	3	Max. Back Pressure (psi) 16.0
6	2.5E-07	2.6E-07	4.5%	0.96	3	
7	2.3E-07	2.5E-07	7.4%	0.91	3	Min. Back Pressure (psi) 16.0
Final	2.9E-07	2.6E-07	15.0%	0.97	3	



Checked by: SEG

FIGURE: 6

Hydraulic Conductivity Test Report

Method ASTM D 5084



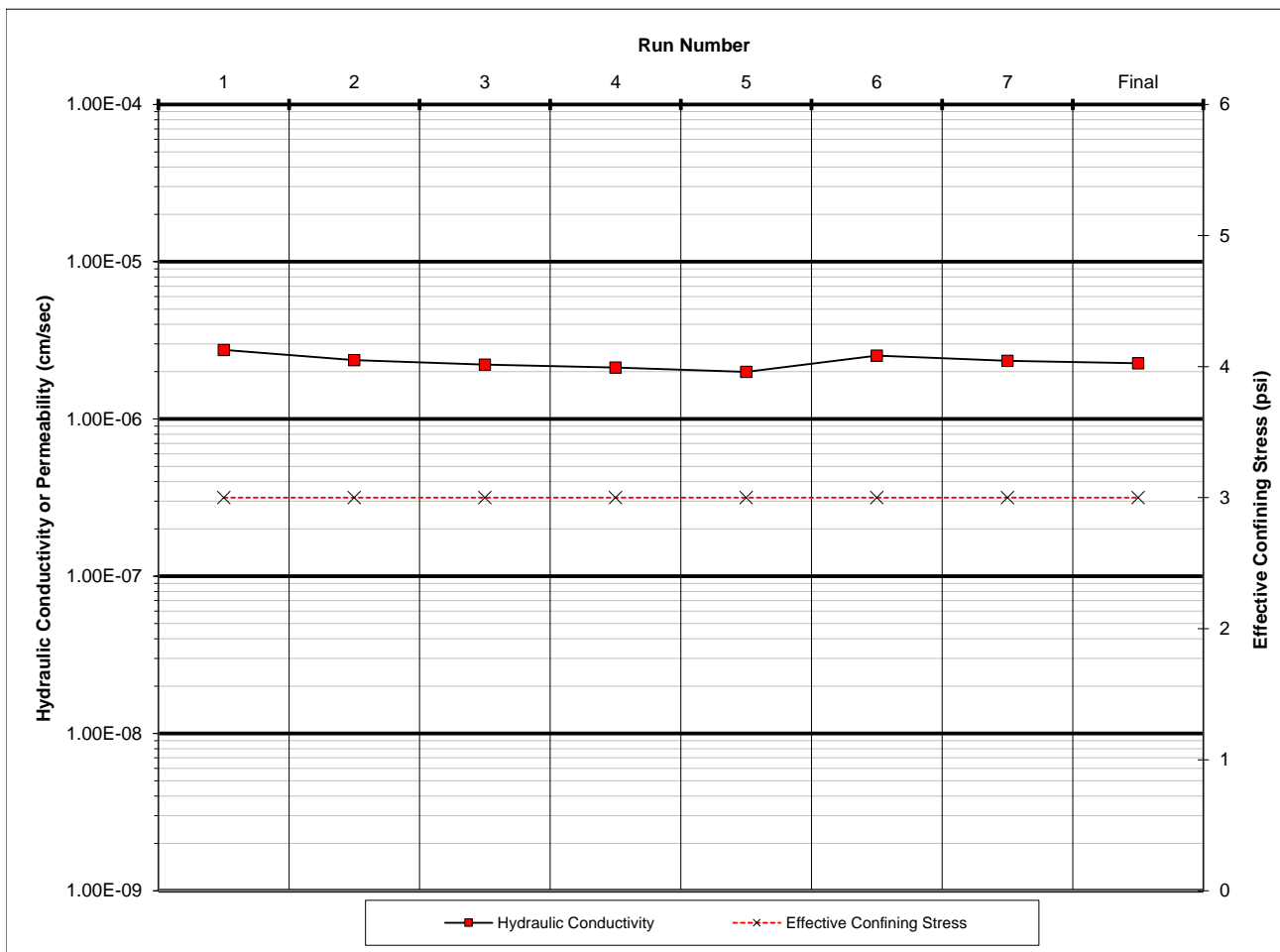
HWA GEOSCIENCES INC.

Project C Street Landfill
Client Brumfield Construction Inc.
Project number 2022-212
Date 1/12/2023
Technician AH
Sample point Green Diamond
Sample number S-1
Sample depth 0
Sample description Very dark brown, silty SAND with gravel

Assumed Specific Gravity 2.65
 Initial Sample Area (cm²) 80.65
 Initial Sample Length (cm) 11.63
 Initial Sample Volume (cc) 938.3
 Initial moisture (%) 19.8
 Initial wet unit wt. (pcf) 118.8
 Initial dry unit wt. (pcf) 99.2
 Initial void ratio 0.667
 Initial porosity 0.400
 Initial saturation (%) 78.6

Final Sample Area (cm²) 82.42
 Final Sample Length (cm) 11.71
 Final Sample Volume (cc) 965.4
 Final moisture (%) 25.3
 Final wet unit weight (pcf) 121.6
 Final dry unit weight (pcf) 97.1
 Final void ratio 0.703
 Final porosity 0.413
 Final saturation (%) 95.3

Run No.	Hydraulic Conductivity (cm/s)	Running Average of 4 Readings (cm/s)	Maximum % Deviation from Average (should be less than 25%)	Flow Ratio (0.75 to 1.25 required)	Effective Confining Stress (psi)	Other Information
1	2.8E-06	n.a.		0.86	3	Maximum Gradient 13.0
2	2.4E-06	n.a.		0.92	3	
3	2.2E-06	n.a.		0.90	3	Minimum Gradient 9.1
4	2.1E-06	2.4E-06	16.3%	0.89	3	
5	2.0E-06	2.2E-06	8.9%	0.86	3	Max. Back Pressure (psi) 16.0
6	2.5E-06	2.2E-06	14.2%	0.92	3	
7	2.3E-06	2.2E-06	12.6%	0.90	3	Min. Back Pressure (psi) 16.0
Final	2.3E-06	2.3E-06	12.7%	0.89	3	



Checked by: SEG

FIGURE: 7

Hydraulic Conductivity Test Report

Method ASTM D 5084



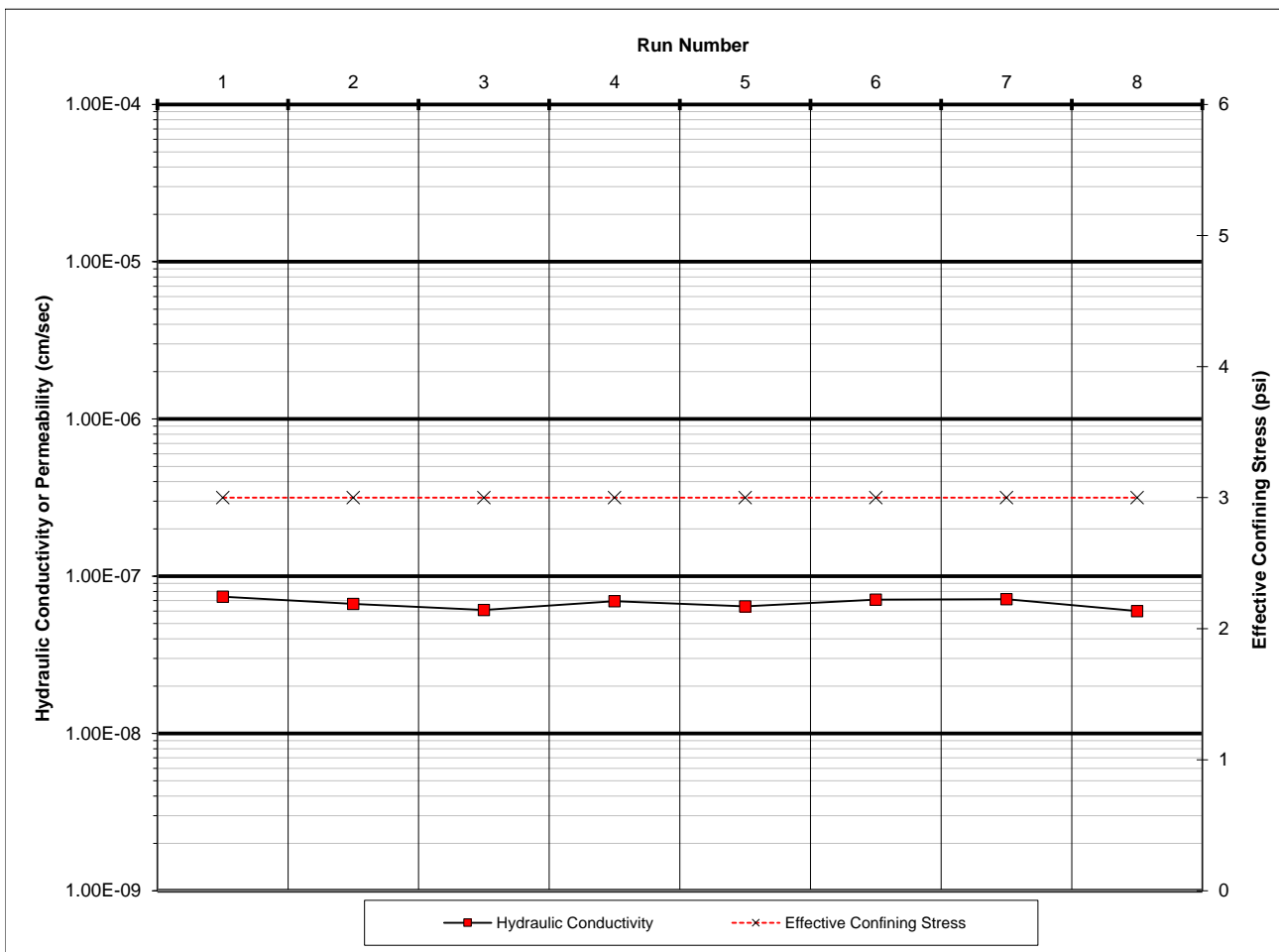
HWA GEOSCIENCES INC.

Project C Street Landfill
Client Brumfield Construction Inc.
Project number 2022-212
Date 1/18/2023
Technician AH
Sample point Green Diamond
Sample number S-1
Sample depth 0
Sample description Very dark brown, silty SAND with gravel

Assumed Specific Gravity 2.65
Initial Sample Area (cm²) 81.11
Initial Sample Length (cm) 11.73
Initial Sample Volume (cc) 951.5
Initial moisture (%) 19.8
Initial wet unit wt. (pcf) 123.9
Initial dry unit wt. (pcf) 103.4
Initial void ratio 0.599
Initial porosity 0.374
Initial saturation (%) 87.5

Final Sample Area (cm²) 82.23
Final Sample Length (cm) 11.79
Final Sample Volume (cc) 969.6
Final moisture (%) 23.5
Final wet unit weight (pcf) 124.7
Final dry unit weight (pcf) 100.9
Final void ratio 0.638
Final porosity 0.390
Final saturation (%) 97.6

Run No.	Hydraulic Conductivity (cm/s)	Running Average of 4 Readings (cm/s)	Maximum % Deviation from Average (should be less than 25%)	Flow Ratio (0.75 to 1.25 required)	Effective Confining Stress (psi)	Other Information
1	7.4E-08	n.a.		1.00	3	Maximum Gradient 12.9
2	6.7E-08	n.a.		0.87	3	Minimum Gradient 12.2
3	6.1E-08	n.a.		0.80	3	Max. Back Pressure (psi) 16.0
4	6.9E-08	6.8E-08	10.1%	1.00	3	Min. Back Pressure (psi) 16.0
5	6.4E-08	6.5E-08	6.7%	0.87	3	
6	7.1E-08	6.6E-08	8.2%	0.78	3	
7	7.2E-08	6.9E-08	7.0%	1.00	3	
8	6.0E-08	6.7E-08	10.0%	1.00	3	
Final	7.2E-08	6.9E-08	12.5%	1.00	3	



Checked by: SEG

FIGURE: 8



May 22, 2023
HWA Project No. 2022-212-23 Task 100

Brumfield Construction, Inc.

2007 Westport Road
PO Box 600
Aberdeen WA, 98520

Attention: Mr. Josh Franzke

Subject: **Materials Laboratory Report
C Street Landfill
Shelton, WA**

Dear Mr. Franzke:

In accordance with your request, HWA GeoSciences Inc. (HWA) performed laboratory testing for the above referenced project. Herein we present the results of our laboratory analyses, which are summarized on the attached Figure and following table. The laboratory testing program was performed in general accordance with your instructions and appropriate ASTM Standards as outlined below.

SAMPLE DESCRIPTION: Nine samples were delivered to our laboratory on May 8 and May 11, 2023 by Brumfield Construction personnel. The samples were contained in nine 5-gallon buckets (one bucket per sample). The sample identifications were designated by lab personnel. The natural moisture content was obtained for each sample and oversize material was scalped off to classify oversize particles. The samples were identified using visual-manual classification and are listed in the table below:

Sample ID	Classification	Moisture Content %	% Retained on 3/4"
S-1	Dark yellowish-brown, silty SAND with gravel	23.8	12
S-2	Dark brown, silty SAND with gravel	21.9	16
S-3	Dark brown, silty SAND with gravel	18.8	26
S-4	Dark brown, silty SAND with gravel	19.0	13

Sample ID	Classification	Moisture Content	% Retained on 3/4"
S-5	Dark brown, silty SAND with gravel	15.2	19
S-6	Dark brown, silty SAND with gravel	21.9	15
S-7	Dark brown, silty GRAVEL with sand and cobbles	16.1	39
S-8	Dark brown, silty GRAVEL with sand and cobbles	14.5	53
S-9	Dark brown, silty GRAVEL with sand and cobbles	17.0	47

LABORATORY COMPACTION CHARACTERISTICS OF SOIL (PROCTOR TEST): The samples were tested using method ASTM D1557 (Modified Proctor) Method C. All of the samples delivered were split down to representative portions that were then recombined to produce a composite test sample. The test was performed on the portion of the sample passing $\frac{3}{4}$ ", as required by the test procedure. The maximum dry density and optimum moisture content result have been corrected for the average amount of over-sized material on all samples using method ASTM D4718. The test results are summarized on the attached Compaction Test report, Figure 1.



CLOSURE: Experience has shown that test values on soil and other natural materials vary with each representative sample. As such, HWA has no knowledge as to the extent and quantity of material the tested samples may represent. HWA also makes no warranty as to how representative either the samples tested, or the test results obtained, are to actual field conditions. It is a well-established fact that sampling methods present varying degrees of disturbance that affect sample representativeness.

No copy should be made of this report except in its entirety.

We appreciate the opportunity to provide laboratory testing services on this project. Should you have any questions or comments, or if we may be of further service, please call.

HWA GEOSCIENCES INC.

A handwritten signature in blue ink that reads "Alex Hodges".

Alex Hodges
Materials Laboratory Supervisor

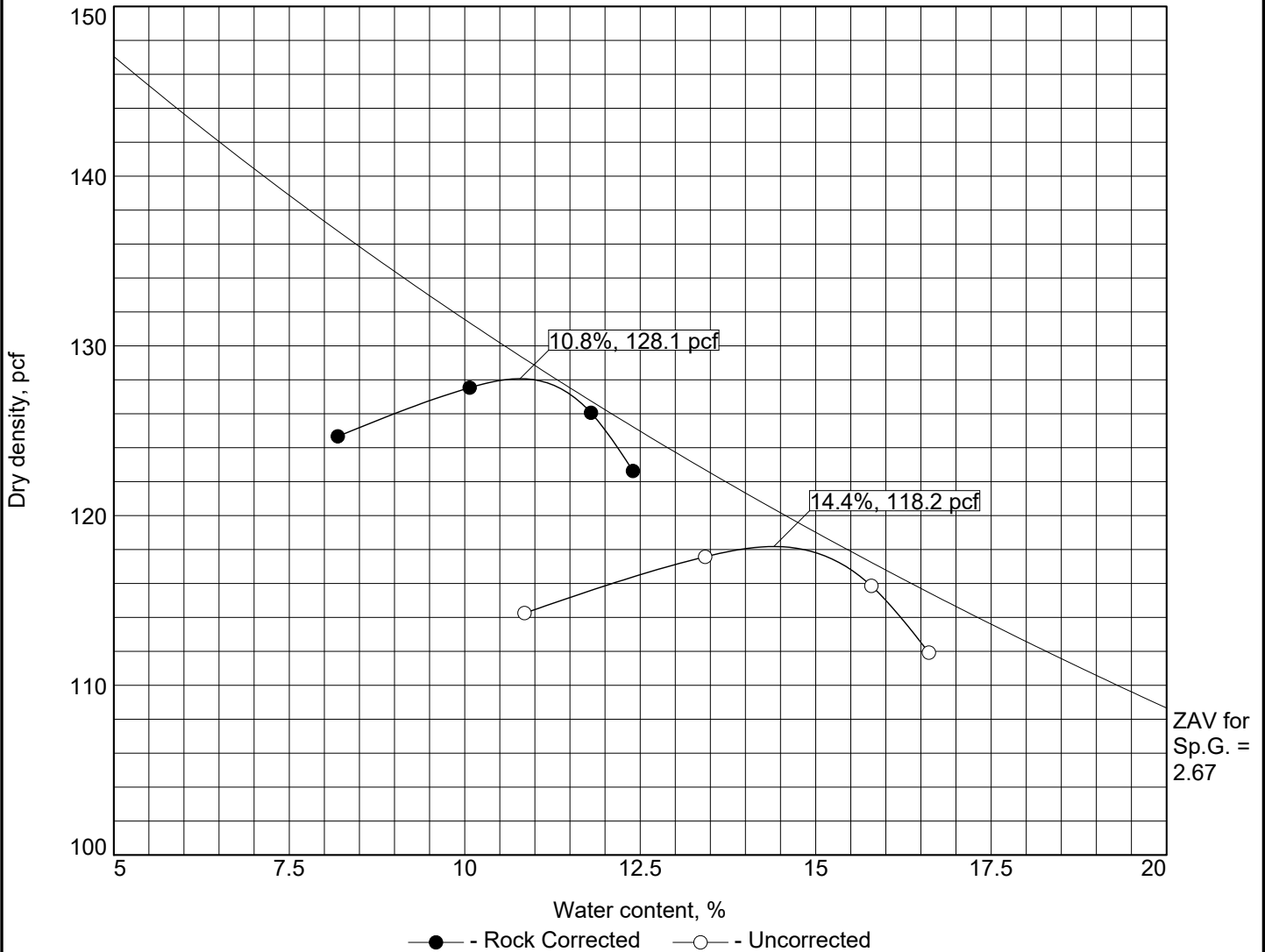
A handwritten signature in blue ink that reads "Steven E. Greene".

Steven E. Greene, L.G., L.E.G.
Engineering Geologist
Vice President

Attachments:

Figure 1 Compaction Test Report

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method C Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
	SM		18.7	2.67			27	



ROCK CORRECTED TEST RESULTS		UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 128.1 pcf		118.2 pcf	Dark brown, silty SAND with gravel and cobbles
Optimum moisture = 10.8 %		14.4 %	
Project No. 2022-212 Client: Brumfield Construction, Inc. Project: C Street Landfill Shelton, WA Date: 5/15/2023 ○ Source of Sample: Delphi Sample Number: Composite			Remarks: Specific Gravity Assumed
 			

Figure 1

Figure 1

Tested By: NJ Checked By: SEG



May 26, 2023
HWA Project No. 2022-212-23 Task 100

Brumfield Construction, Inc.

2007 Westport Road
PO Box 600
Aberdeen WA, 98520

Attention: Mr. Josh Franzke

Subject: **Materials Laboratory Report
C Street Landfill
Shelton, WA**

Dear Mr. Franzke:

In accordance with your request, HWA GeoSciences Inc. (HWA) performed laboratory testing for the above referenced project. Herein we present the results of our laboratory analyses, which are summarized on the attached Figures and following Tables. The laboratory testing program was performed in general accordance with your instructions and appropriate ASTM Standards as outlined below.

SAMPLE DESCRIPTION: Nine samples were delivered to our laboratory on May 8 and May 11, 2023 by Brumfield Construction personnel. The samples were contained in nine 5-gallon buckets (one bucket per sample). The sample identifications were designated by lab personnel. The natural moisture content was obtained for each sample and oversize material (+3/4") was scalped off to classify oversize particles. The samples were identified using visual-manual classification and are listed in Table 1 below:

Table 1 – Sample Characteristics

Sample	Classification	Moisture Content %	% Retained on 3/4"
S-1	Dark yellowish-brown, silty SAND with gravel	23.8	12
S-2	Dark brown, silty SAND with gravel	21.9	16
S-3	Dark brown, silty SAND with gravel	18.8	26

Sample	Classification	Moisture Content %	% Retained on $\frac{3}{4}$ "
S-4	Dark brown, silty SAND with gravel	19.0	13
S-5	Dark brown, silty SAND with gravel	15.2	19
S-6	Dark brown, silty SAND with gravel	21.9	15
S-7	Dark brown, silty GRAVEL with sand and cobbles	16.1	39
S-8	Dark brown, silty GRAVEL with sand and cobbles	14.5	53
S-9	Dark brown, silty GRAVEL with sand and cobbles	17.0	47

LABORATORY COMPACTION CHARACTERISTICS OF SOIL (PROCTOR TEST): The samples were tested using method ASTM D1557 (Modified Proctor) Method C. All of the samples delivered were split down to representative portions that were then recombined to produce a composite test sample. The test was performed on the portion of the sample passing $\frac{3}{4}$ ", as required by the test procedure. The maximum dry density and optimum moisture content result have been corrected for the average amount of over-sized material on all samples using method ASTM D4718. The test results are summarized on the attached Compaction Test report, Figure 1.

HYDRAULIC CONDUCTIVITY OF SOIL (FLEXI-WALL TRIAXIAL CHAMBER METHOD): The hydraulic conductivity (also commonly referred to as coefficient of permeability) of the samples was measured in general accordance with method ASTM D5084. Testing was conducted on the minus $\frac{3}{4}$ -inch fraction of each sample remolded to a target density of 95% of the uncorrected maximum dry density determined for the composite sample at approximately optimum moisture content. Test samples were de-molded and weighed prior to placement within a flexible membrane within a triaxial pressure chamber. An effective confining pressure of 3 psi was applied. Testing was conducted until inflow was approximately equal to outflow and the hydraulic conductivity was essentially steady. A summary of the results is presented below in Table 2. The test results are presented in detail on the attached Hydraulic Conductivity Test Report, Figures 2 through 10.

Table 2 - Hydraulic Conductivity Test Results

Sample	% Relative Compaction Uncorrected (D1557)	Dry Unit Weight (pcf)	Remolded Moisture Content	Hydraulic Conductivity
S-1	95.4	112.8	17.3 %	3.7 x 10⁻⁸ cm/s
S-2	95.3	112.6	16.7 %	5.2 x 10⁻⁸ cm/s
S-3	95.1	112.4	15.7 %	6.4 x 10⁻⁸ cm/s
S-4	95.2	112.5	15.5 %	5.6 x 10⁻⁸ cm/s
S-5	95.8	113.2	14.0 %	2.6 x 10⁻⁷ cm/s
S-6	95.1	112.4	14.7 %	4.4 x 10⁻⁸ cm/s
S-7	95.3	112.6	16.3 %	1.1 x 10⁻⁷ cm/s
S-8	95.6	113.0	16.0 %	4.3 x 10⁻⁷ cm/s
S-9	95.2	112.5	16.4 %	2.3 x 10⁻⁷ cm/s



CLOSURE: Experience has shown that test values on soil and other natural materials vary with each representative sample. As such, HWA has no knowledge as to the extent and quantity of material the tested samples may represent. HWA also makes no warranty as to how representative either the samples tested, or the test results obtained, are to actual field conditions. It is a well-established fact that sampling methods present varying degrees of disturbance that affect sample representativeness.

No copy should be made of this report except in its entirety.

We appreciate the opportunity to provide laboratory testing services on this project. Should you have any questions or comments, or if we may be of further service, please call.

HWA GEOSCIENCES INC.

A handwritten signature in cursive script that reads "Alexander Hodges".

Alex Hodges
Materials Laboratory Supervisor

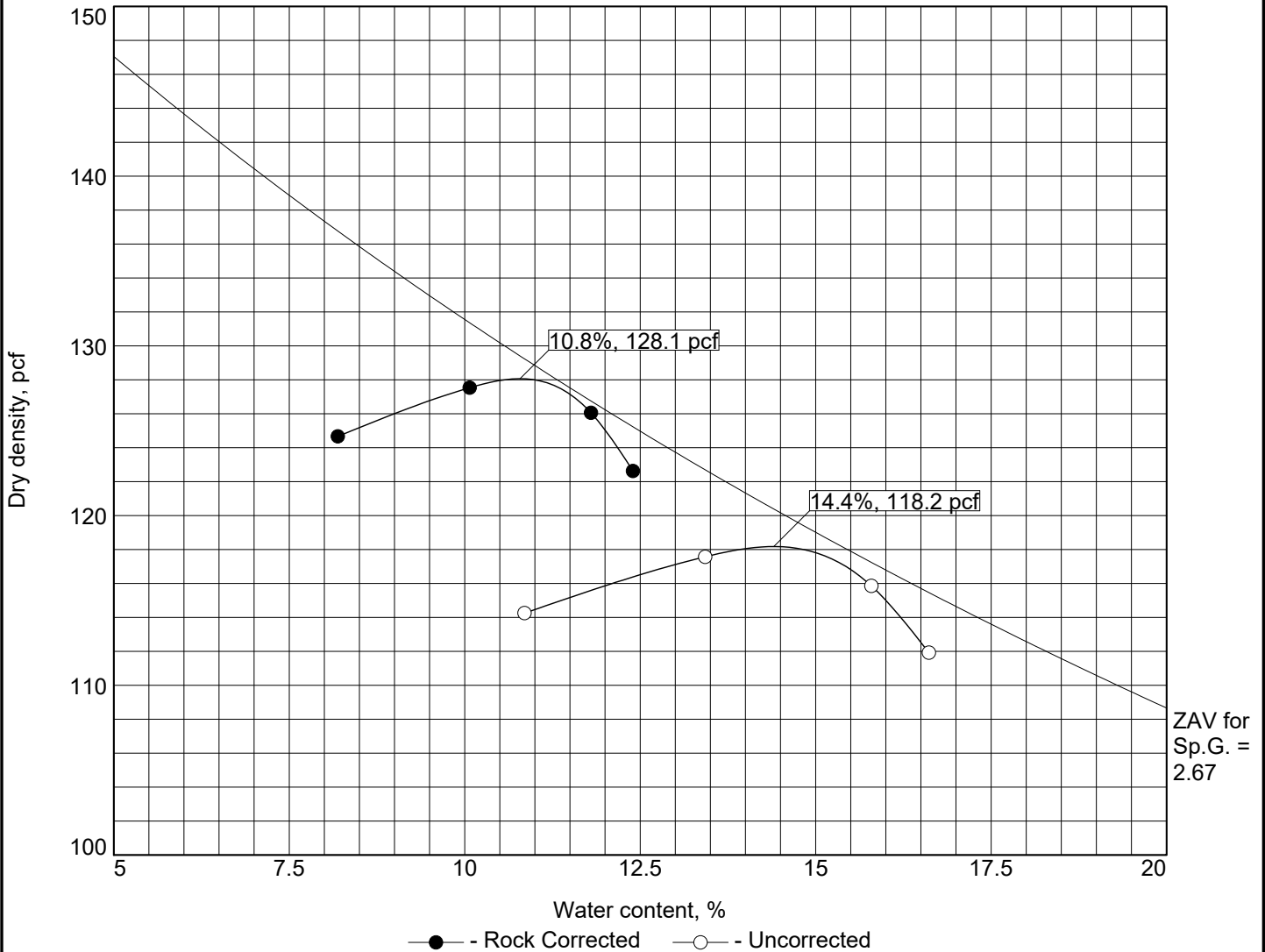
A handwritten signature in cursive script that reads "S.E. Greene".

Steven E. Greene, L.G., L.E.G.
Engineering Geologist
Vice President

Attachments:

Figure 1	Compaction Test Report
Figures 2-10	Hydraulic Conductivity Test Report

COMPACTION TEST REPORT



Test specification: ASTM D 1557-12 Method C Modified
ASTM D4718-15 Oversize Corr. Applied to Each Test Point

Elev/ Depth	Classification		Nat. Moist.	Sp.G.	LL	PI	% > 3/4 in.	% < No.200
	USCS	AASHTO						
	SM		18.7	2.67			27	



ROCK CORRECTED TEST RESULTS		UNCORRECTED	MATERIAL DESCRIPTION
Maximum dry density = 128.1 pcf		118.2 pcf	Dark brown, silty SAND with gravel and cobbles
Optimum moisture = 10.8 %		14.4 %	
Project No. 2022-212 Client: Brumfield Construction, Inc. Project: C Street Landfill Shelton, WA Date: 5/15/2023 ○ Source of Sample: Delphi Sample Number: Composite			Remarks: Specific Gravity Assumed
<div> </div>			

Figure 1

Figure 1

Tested By: NJ _____ Checked By: SEG _____

Hydraulic Conductivity Test Report

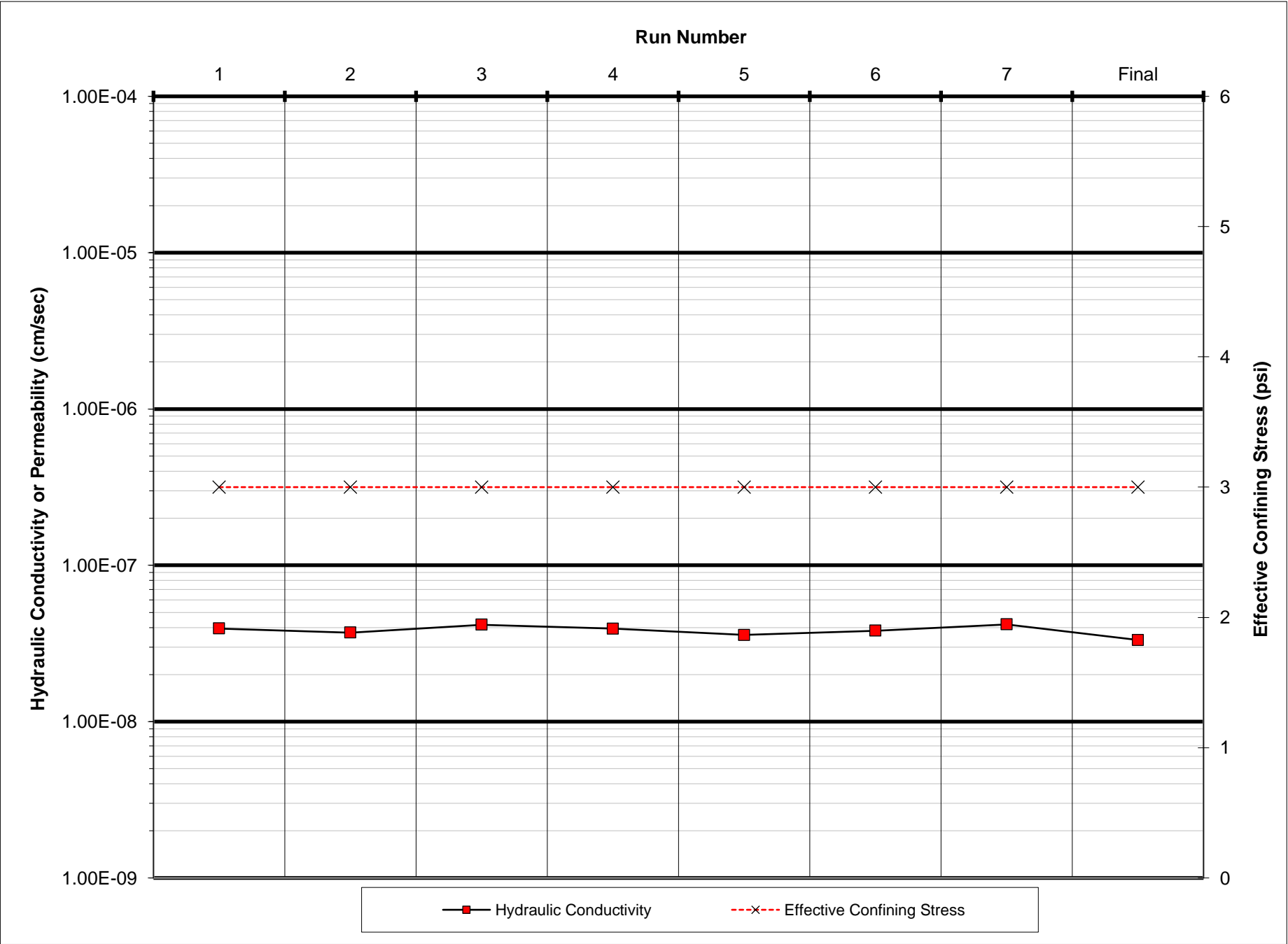
Method ASTM D 5084



HWA GEOSCIENCES INC.

Project	C Street Landfill	Assumed Specific Gravity	2.67		
Client	Brumfield Construction Inc.	Initial Sample Area (cm2)	81.17	Final Sample Area (cm2)	81.68
Project number	2022-212	Initial Sample Length (cm)	11.66	Final Sample Length (cm)	11.73
Date	5/23/2023	Initial Sample Volume (cc)	946.7	Final Sample Volume (cc)	958.5
Technician	AH	Initial moisture (%)	17.3	Final moisture (%)	20.9
Sample point	Delphi	Initial wet unit wt. (pcf)	132.3	Final wet unit weight (pcf)	131.5
Sample number	S-1	Initial dry unit wt. (pcf)	112.8	Final dry unit weight (pcf)	108.8
Sample depth	0	Initial void ratio	0.477	Final void ratio	0.532
Sample description	Dark yellowish-brown, silty SAND with gravel	Initial porosity	0.323	Final porosity	0.347
		Initial saturation (%)	96.6	Final saturation (%)	105.0

Run No.	Hydraulic Conductivity (cm/s)	Running Average of 4 Readings (cm/s)	Maximum % Deviation from Average (should be less than 25%)	Flow Ratio (0.75 to 1.25 required)	Effective Confining Stress (psi)	Other Information
1	3.9E-08	n.a.		0.80	3	Maximum Gradient 13.0
2	3.7E-08	n.a.		0.87	3	Minimum Gradient 12.2
3	4.2E-08	n.a.		1.00	3	Max. Back Pressure (psi) 16.0
4	3.9E-08	3.9E-08	5.9%	1.00	3	Min. Back Pressure (psi) 16.0
5	3.6E-08	3.8E-08	8.4%	1.00	3	
6	3.8E-08	3.9E-08	7.6%	0.86	3	
7	4.2E-08	3.9E-08	7.9%	1.00	3	
Final	3.3E-08	3.7E-08	12.2%	1.09	3	



Checked by: SEG

Hydraulic Conductivity Test Report

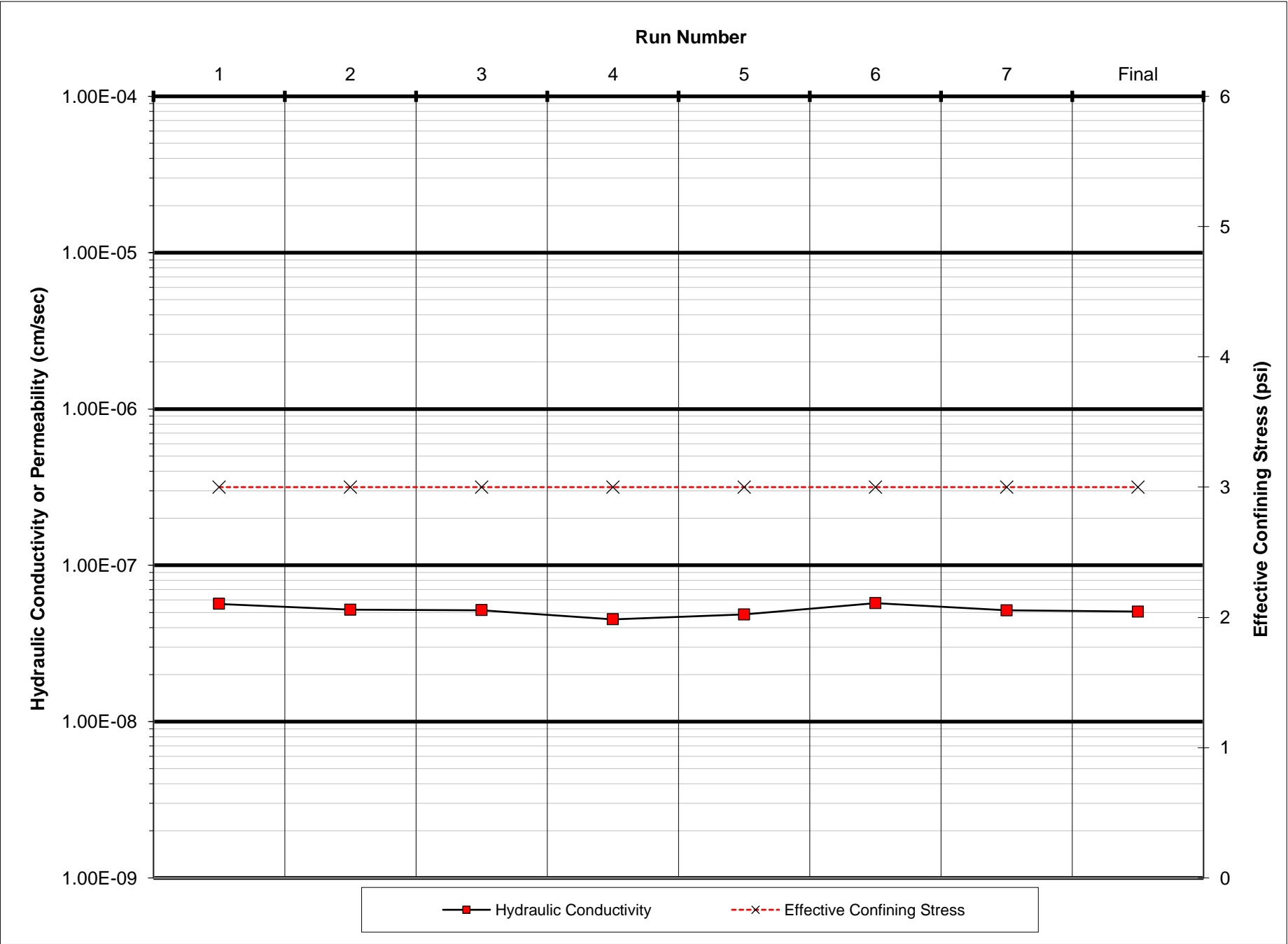
Method ASTM D 5084



HWA GEOSCIENCES INC.

Project	C Street Landfill	Assumed Specific Gravity	2.67		
Client	Brumfield Construction, Inc.	Initial Sample Area (cm2)	80.94	Final Sample Area (cm2)	81.19
Project number	2022-212	Initial Sample Length (cm)	11.68	Final Sample Length (cm)	11.79
Date	5/25/2023	Initial Sample Volume (cc)	945.3	Final Sample Volume (cc)	957.3
Technician	AH	Initial moisture (%)	16.7	Final moisture (%)	21.8
Sample point	Delphi	Initial wet unit wt. (pcf)	131.4	Final wet unit weight (pcf)	130.4
Sample number	S-2	Initial dry unit wt. (pcf)	112.6	Final dry unit weight (pcf)	107.0
Sample depth	0	Initial void ratio	0.479	Final void ratio	0.557
Sample description	Dark brown, silty SAND with gravel	Initial porosity	0.324	Final porosity	0.358
		Initial saturation (%)	92.9	Final saturation (%)	104.7

Run No.	Hydraulic Conductivity (cm/s)	Running Average of 4 Readings (cm/s)	Maximum % Deviation from Average (should be less than 25%)	Flow Ratio (0.75 to 1.25 required)	Effective Confining Stress (psi)	Other Information
1	5.7E-08	n.a.		0.75	3	Maximum Gradient 12.9
2	5.2E-08	n.a.		0.77	3	Minimum Gradient 11.9
3	5.2E-08	n.a.		0.83	3	Max. Back Pressure (psi) 16.0
4	4.5E-08	5.1E-08	12.2%	1.00	3	Min. Back Pressure (psi) 16.0
5	4.8E-08	4.9E-08	8.6%	0.91	3	
6	5.7E-08	5.1E-08	13.1%	1.00	3	
7	5.1E-08	5.1E-08	13.2%	1.00	3	
Final	5.1E-08	5.2E-08	10.2%	0.75	3	



Checked by: SEG

Hydraulic Conductivity Test Report

Method ASTM D 5084



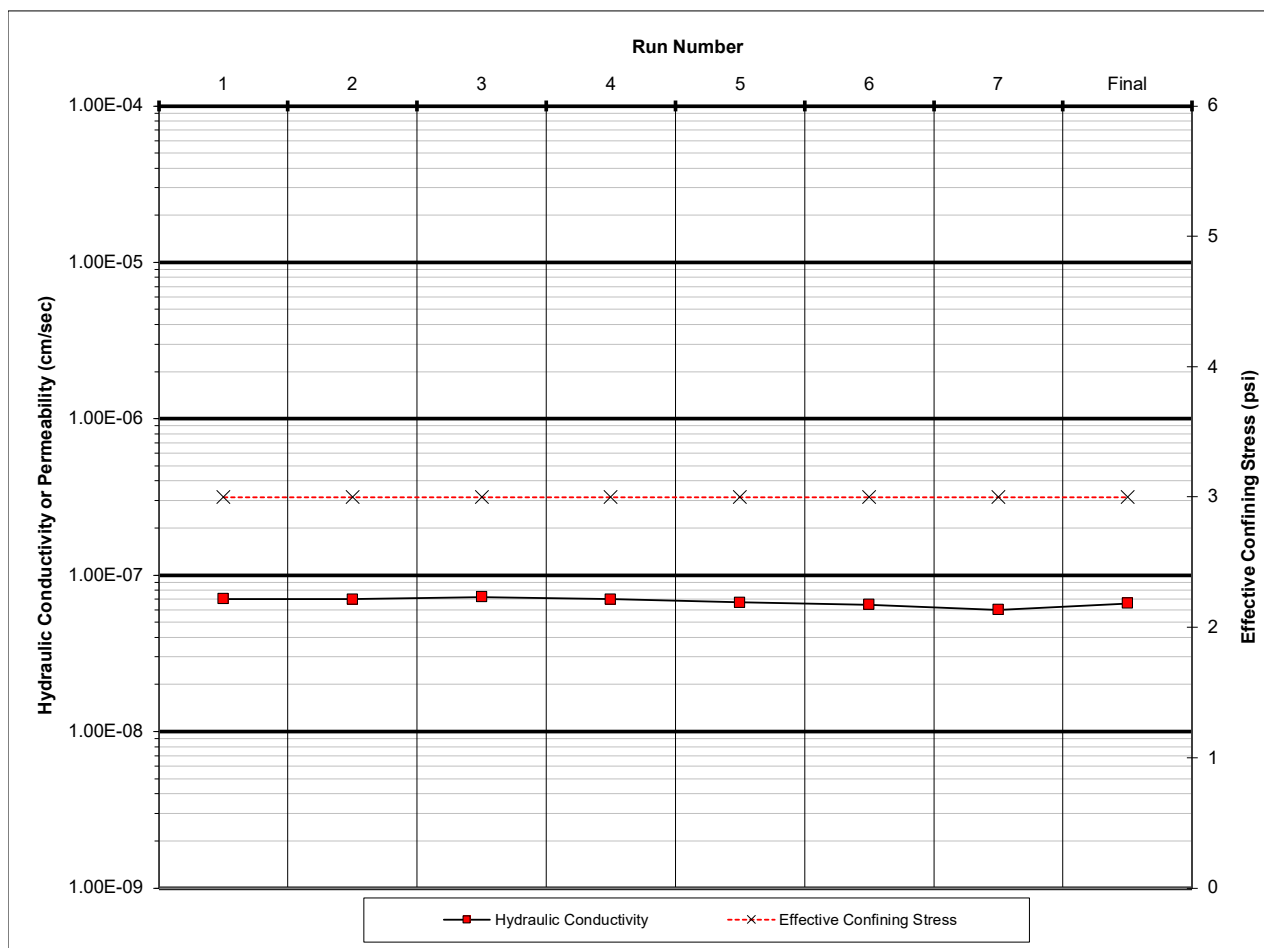
HWA GEOSCIENCES INC.

Project C Street Landfill
Client Brumfield Construction, Inc.
Project number 2022-212
Date 5/25/2023
Technician AH
Sample point Delphi
Sample number S-3
Sample depth 0
Sample description Dark brown, silty SAND with gravel

Assumed Specific Gravity 2.65
 Initial Sample Area (cm²) 81.06
 Initial Sample Length (cm) 11.77
 Initial Sample Volume (cc) 954.0
 Initial moisture (%) 15.7
 Initial wet unit wt. (pcf) 130.1
 Initial dry unit wt. (pcf) 112.4
 Initial void ratio 0.471
 Initial porosity 0.320
 Initial saturation (%) 88.4

Final Sample Area (cm²) 81.56
 Final Sample Length (cm) 11.78
 Final Sample Volume (cc) 960.4
 Final moisture (%) 18.3
 Final wet unit weight (pcf) 131.7
 Final dry unit weight (pcf) 111.3
 Final void ratio 0.485
 Final porosity 0.327
 Final saturation (%) 99.9

Run No.	Hydraulic Conductivity (cm/s)	Running Average of 4 Readings (cm/s)	Maximum % Deviation from Average (should be less than 25%)	Flow Ratio (0.75 to 1.25 required)	Effective Confining Stress (psi)	Other Information
1	7.0E-08	n.a.		0.80	3	Maximum Gradient 12.9
2	7.0E-08	n.a.		0.80	3	Minimum Gradient 11.6
3	7.2E-08	n.a.		1.00	3	Max. Back Pressure (psi) 16.0
4	7.0E-08	7.1E-08	2.3%	0.80	3	Min. Back Pressure (psi) 16.0
5	6.7E-08	7.0E-08	4.2%	0.97	3	
6	6.5E-08	6.9E-08	5.5%	0.87	3	
7	6.0E-08	6.6E-08	7.9%	0.79	3	
Final	6.6E-08	6.4E-08	6.5%	0.86	3	



Checked by: SEG

FIGURE: 4

Hydraulic Conductivity Test Report

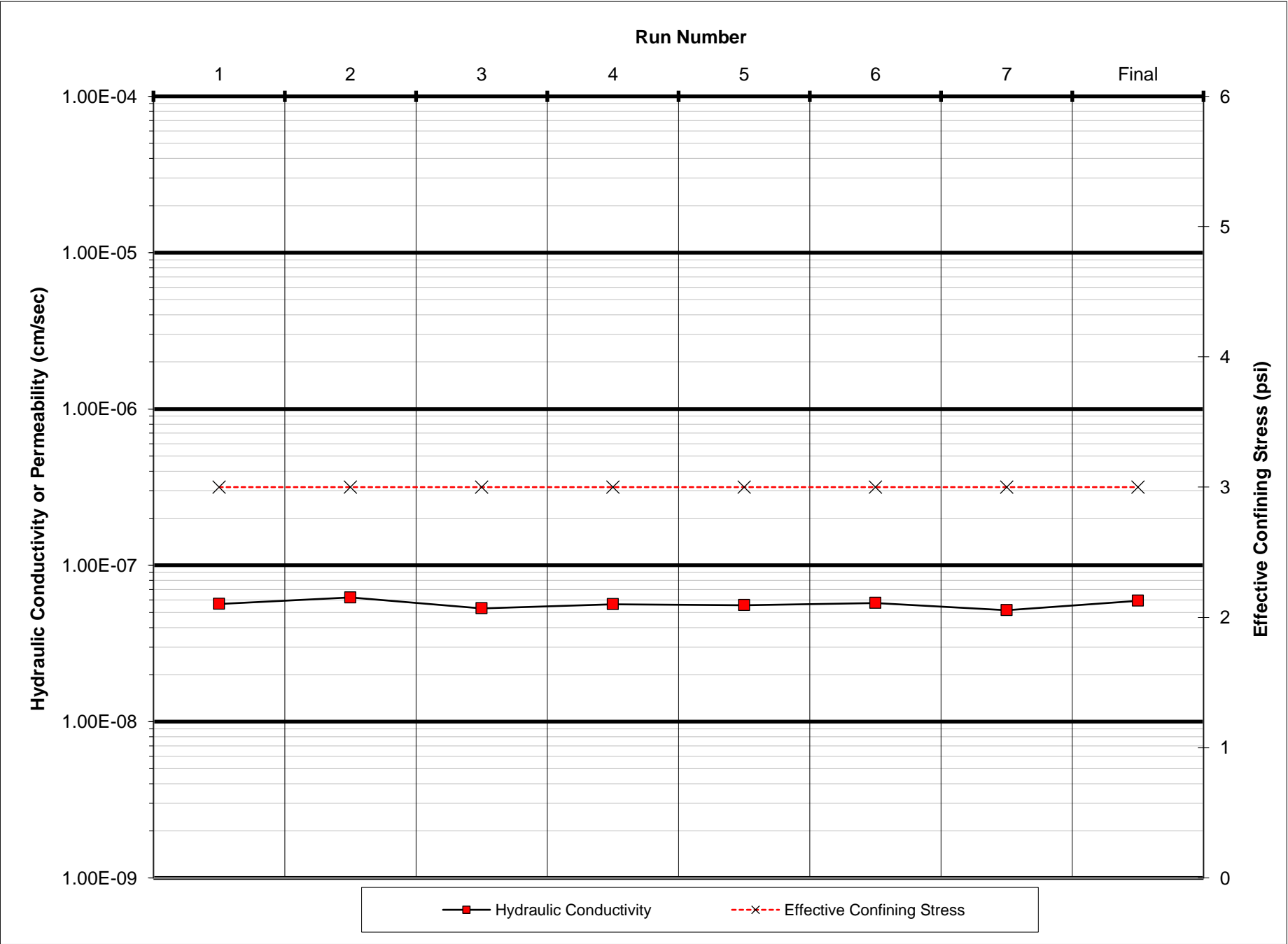
Method ASTM D 5084



HWA GEOSCIENCES INC.

Project	C Street Landfill	Assumed Specific Gravity	2.67		
Client	Brumfield Construction, Inc.	Initial Sample Area (cm2)	81.13	Final Sample Area (cm2)	81.80
Project number	2022-212	Initial Sample Length (cm)	11.80	Final Sample Length (cm)	11.82
Date	5/23/2023	Initial Sample Volume (cc)	957.4	Final Sample Volume (cc)	967.2
Technician	AH	Initial moisture (%)	15.5	Final moisture (%)	19.1
Sample point	Delphi	Initial wet unit wt. (pcf)	129.9	Final wet unit weight (pcf)	130.8
Sample number	S-4	Initial dry unit wt. (pcf)	112.5	Final dry unit weight (pcf)	109.9
Sample depth	0	Initial void ratio	0.481	Final void ratio	0.517
Sample description	Dark brown, silty SAND with gravel	Initial porosity	0.325	Final porosity	0.341
		Initial saturation (%)	85.8	Final saturation (%)	98.6

Run No.	Hydraulic Conductivity (cm/s)	Running Average of 4 Readings (cm/s)	Maximum % Deviation from Average (should be less than 25%)	Flow Ratio (0.75 to 1.25 required)	Effective Confining Stress (psi)	Other Information
1	5.7E-08	n.a.		0.80	3	Maximum Gradient 12.9
2	6.2E-08	n.a.		1.00	3	Minimum Gradient 11.0
3	5.3E-08	n.a.		1.00	3	Max. Back Pressure (psi) 16.0
4	5.6E-08	5.7E-08	9.1%	1.00	3	Min. Back Pressure (psi) 16.0
5	5.6E-08	5.7E-08	9.6%	0.92	3	
6	5.7E-08	5.6E-08	4.6%	0.86	3	
7	5.2E-08	5.5E-08	6.6%	0.79	3	
Final	5.9E-08	5.6E-08	7.8%	0.83	3	



Checked by: SEG

Hydraulic Conductivity Test Report

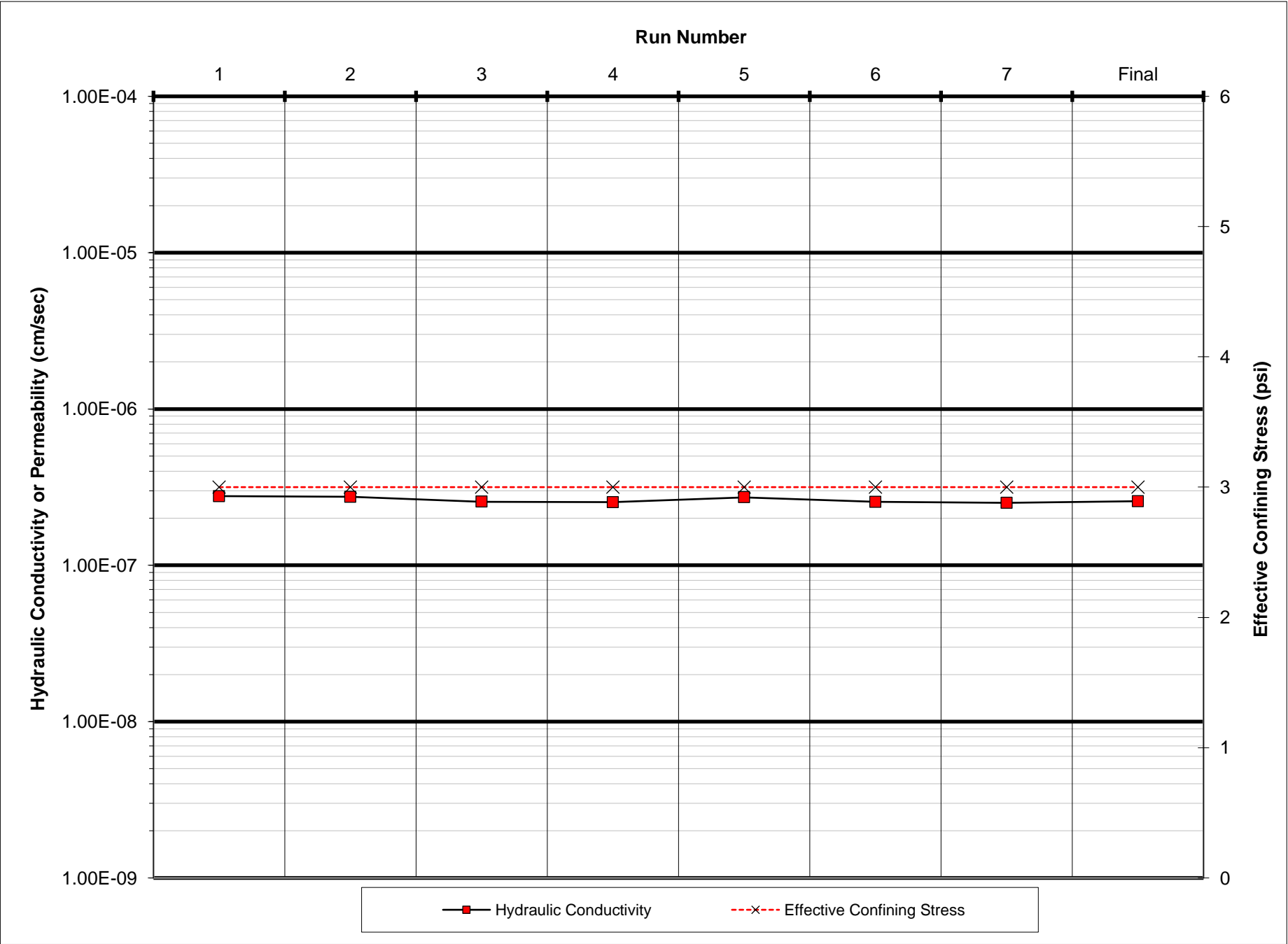
Method ASTM D 5084



HWA GEOSCIENCES INC.

Project	C Street Landfill	Assumed Specific Gravity	2.67		
Client	Brumfield Construction, Inc.	Initial Sample Area (cm2)	81.01	Final Sample Area (cm2)	82.38
Project number	2022-212	Initial Sample Length (cm)	11.70	Final Sample Length (cm)	11.74
Date	5/18/2023	Initial Sample Volume (cc)	947.8	Final Sample Volume (cc)	967.2
Technician	AH	Initial moisture (%)	14.0	Final moisture (%)	18.5
Sample point	Delphi	Initial wet unit wt. (pcf)	129.0	Final wet unit weight (pcf)	132.2
Sample number	S-5	Initial dry unit wt. (pcf)	113.2	Final dry unit weight (pcf)	111.6
Sample depth	0	Initial void ratio	0.472	Final void ratio	0.494
Sample description	Dark brown, silty SAND with gravel	Initial porosity	0.321	Final porosity	0.330
		Initial saturation (%)	79.0	Final saturation (%)	100.0

Run No.	Hydraulic Conductivity (cm/s)	Running Average of 4 Readings (cm/s)	Maximum % Deviation from Average (should be less than 25%)	Flow Ratio (0.75 to 1.25 required)	Effective Confining Stress (psi)	Other Information
1	2.8E-07	n.a.		1.00	3	Maximum Gradient
2	2.7E-07	n.a.		0.95	3	13.0
3	2.6E-07	n.a.		0.91	3	Minimum Gradient
4	2.5E-07	2.6E-07	4.6%	0.91	3	10.7
5	2.7E-07	2.6E-07	4.0%	1.00	3	Max. Back Pressure (psi)
6	2.5E-07	2.6E-07	5.2%	0.93	3	16.0
7	2.5E-07	2.6E-07	5.6%	1.00	3	Min. Back Pressure (psi)
Final	2.6E-07	2.6E-07	5.2%	1.00	3	16.0



Checked by: SEG

Hydraulic Conductivity Test Report

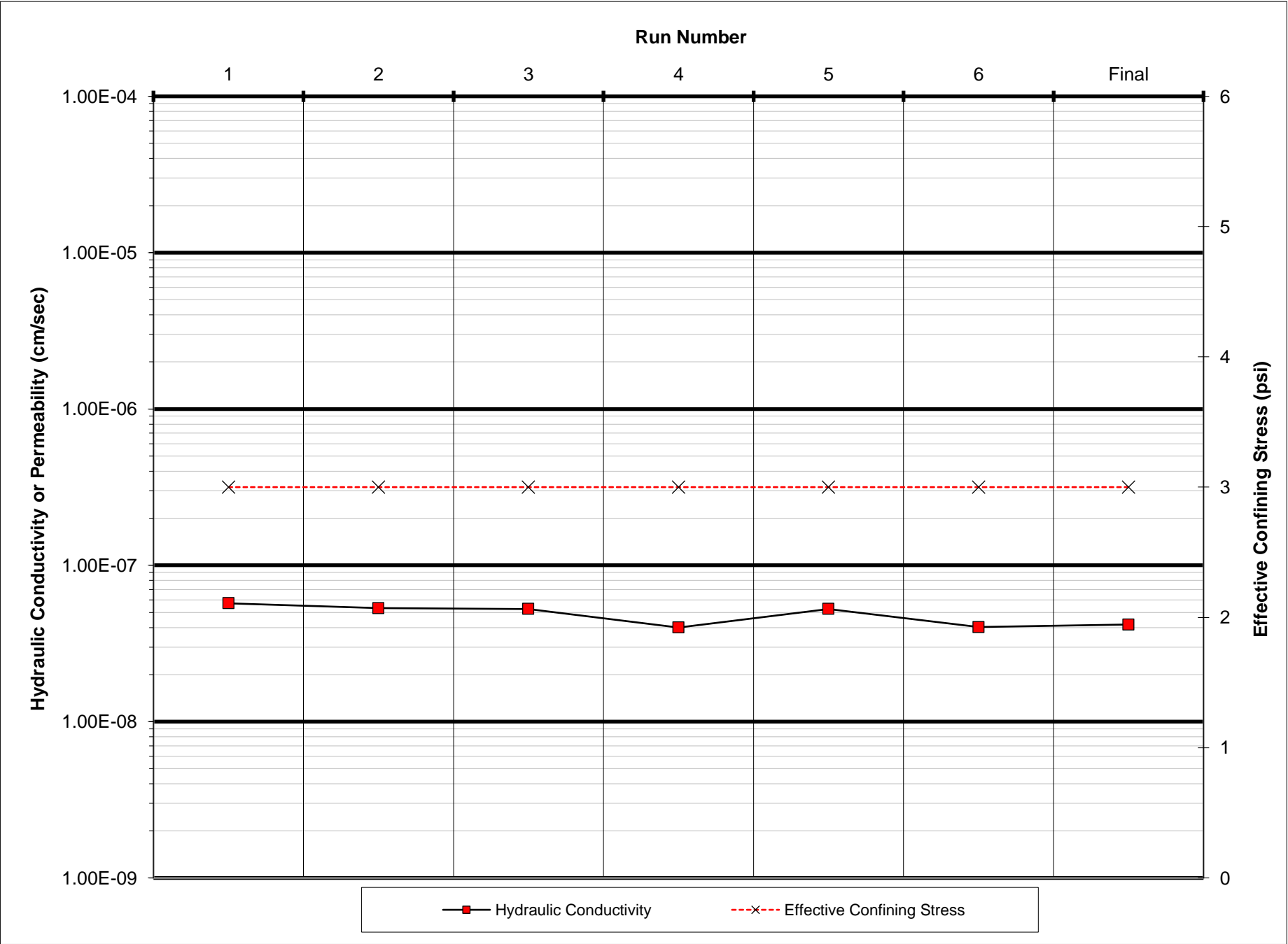
Method ASTM D 5084



HWA GEOSCIENCES INC.

Project	C Street Landfill	Assumed Specific Gravity	2.67		
Client	Brumfield Construction, Inc.	Initial Sample Area (cm2)	81.41	Final Sample Area (cm2)	82.70
Project number	2022-212	Initial Sample Length (cm)	11.69	Final Sample Length (cm)	11.85
Date	5/25/2023	Initial Sample Volume (cc)	951.7	Final Sample Volume (cc)	979.7
Technician	AH	Initial moisture (%)	14.7	Final moisture (%)	21.2
Sample point	Delphi	Initial wet unit wt. (pcf)	129.0	Final wet unit weight (pcf)	130.1
Sample number	S-6	Initial dry unit wt. (pcf)	112.4	Final dry unit weight (pcf)	107.3
Sample depth	0	Initial void ratio	0.482	Final void ratio	0.552
Sample description	Dark brown, silty SAND with gravel	Initial porosity	0.325	Final porosity	0.356
		Initial saturation (%)	81.7	Final saturation (%)	102.4

Run No.	Hydraulic Conductivity (cm/s)	Running Average of 4 Readings (cm/s)	Maximum % Deviation from Average (should be less than 25%)	Flow Ratio (0.75 to 1.25 required)	Effective Confining Stress (psi)	Other Information
1	5.7E-08	n.a.		0.80	3	Maximum Gradient 12.9
2	5.3E-08	n.a.		0.80	3	Minimum Gradient 11.9
3	5.3E-08	n.a.		1.03	3	Max. Back Pressure (psi) 16.0
4	4.0E-08	5.1E-08	21.2%	1.00	3	Min. Back Pressure (psi) 16.0
5	5.3E-08	5.0E-08	19.4%	1.00	3	
6	4.0E-08	4.6E-08	13.7%	1.00	3	
Final	4.2E-08	4.4E-08	20.5%	1.00	3	



Checked by: SEG

Hydraulic Conductivity Test Report

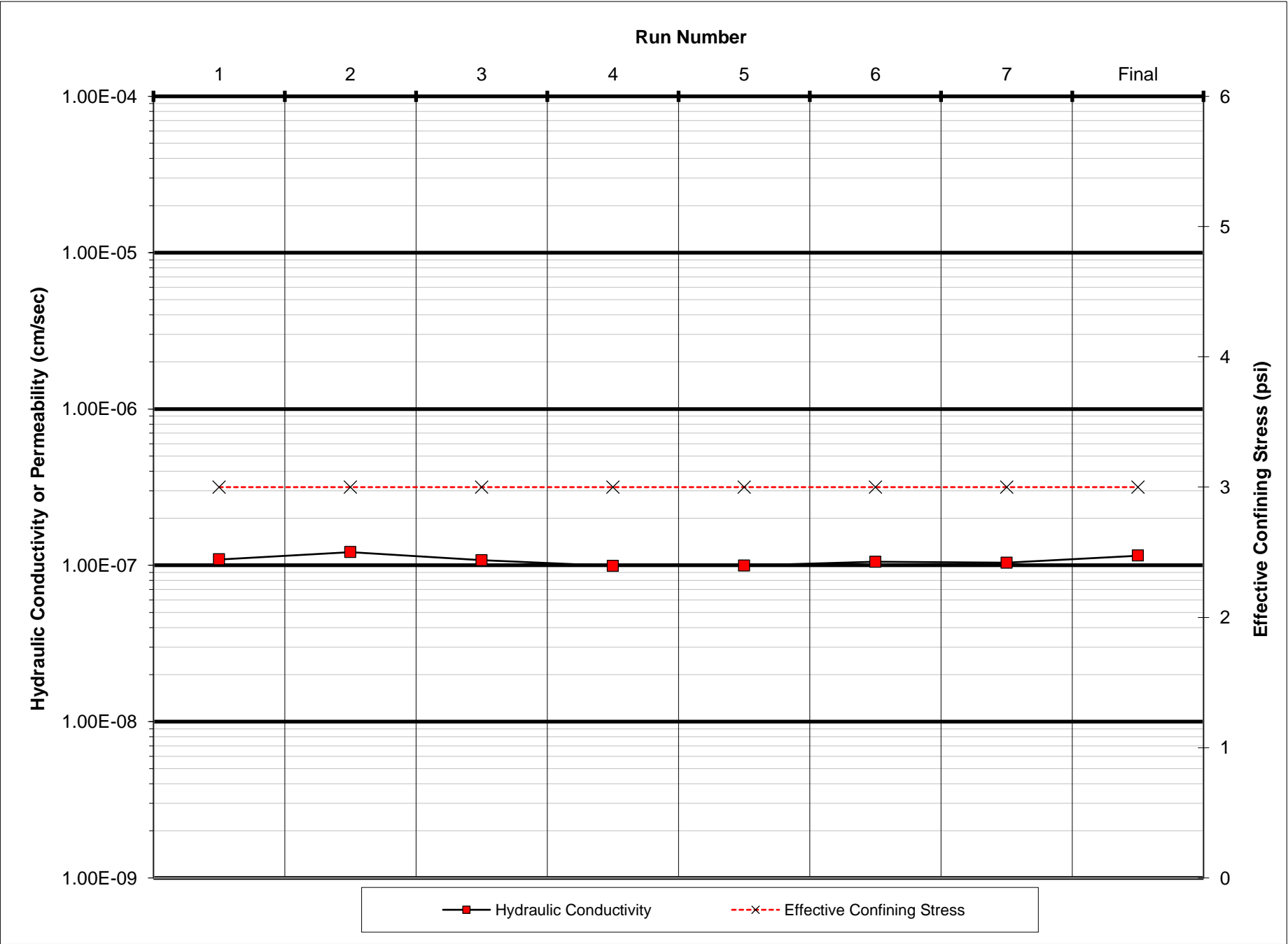
Method ASTM D 5084



HWA GEOSCIENCES INC.

Project	C Street Landfill	Assumed Specific Gravity	2.67		
Client	Brumfield Construction, Inc.	Initial Sample Area (cm2)	81.18	Final Sample Area (cm2)	81.11
Project number	2022-212	Initial Sample Length (cm)	11.69	Final Sample Length (cm)	11.70
Date	5/23/2023	Initial Sample Volume (cc)	949.2	Final Sample Volume (cc)	948.6
Technician	AH	Initial moisture (%)	16.3	Final moisture (%)	16.6
Sample point	Delphi	Initial wet unit wt. (pcf)	130.9	Final wet unit weight (pcf)	133.0
Sample number	S-7	Initial dry unit wt. (pcf)	112.6	Final dry unit weight (pcf)	114.1
Sample depth	0	Initial void ratio	0.480	Final void ratio	0.461
Sample description	Dark brown, silty GRAVEL with sand and cobbles	Initial porosity	0.324	Final porosity	0.315
		Initial saturation (%)	90.5	Final saturation (%)	96.4

Run No.	Hydraulic Conductivity (cm/s)	Running Average of 4 Readings (cm/s)	Maximum % Deviation from Average (should be less than 25%)	Flow Ratio (0.75 to 1.25 required)	Effective Confining Stress (psi)	Other Information
1	1.1E-07	n.a.		0.92	3	Maximum Gradient 13.0
2	1.2E-07	n.a.		1.00	3	Minimum Gradient 12.2
3	1.1E-07	n.a.		1.00	3	Max. Back Pressure (psi) 16.0
4	9.9E-08	1.1E-07	11.0%	0.75	3	Min. Back Pressure (psi) 16.0
5	1.0E-07	1.1E-07	13.5%	1.00	3	
6	1.1E-07	1.0E-07	4.6%	1.00	3	
7	1.0E-07	1.0E-07	3.3%	1.00	3	
Final	1.2E-07	1.1E-07	8.8%	1.00	3	



Checked by: SEG

Hydraulic Conductivity Test Report

Method ASTM D 5084



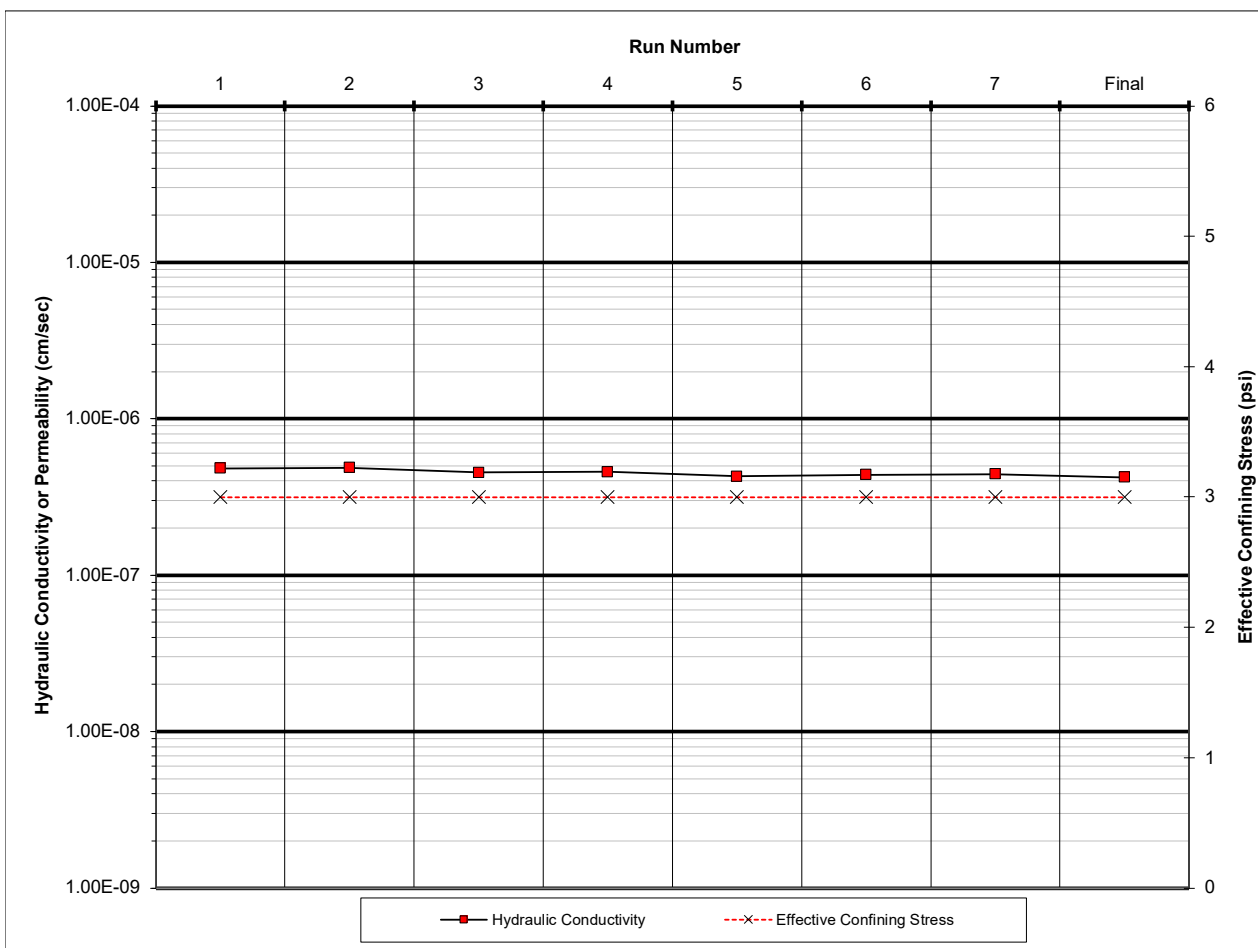
HWA GEOSCIENCES INC.

Project C Street Landfill
Client Brumfield Construction, Inc.
Project number 2022-212
Date 5/19/2023
Technician AH
Sample point Delphi
Sample number S-8
Sample depth 0
Sample description Dark brown, silty GRAVEL with sand and cobbles

Assumed Specific Gravity 2.67
Initial Sample Area (cm²) 80.64
Initial Sample Length (cm) 11.73
Initial Sample Volume (cc) 945.8
Initial moisture (%) 16.0
Initial wet unit wt. (pcf) 131.1
Initial dry unit wt. (pcf) 113.0
Initial void ratio 0.475
Initial porosity 0.322
Initial saturation (%) 90.1

Final Sample Area (cm²) 81.45
Final Sample Length (cm) 11.72
Final Sample Volume (cc) 954.9
Final moisture (%) 18.8
Final wet unit weight (pcf) 133.1
Final dry unit weight (pcf) 112.0
Final void ratio 0.487
Final porosity 0.328
Final saturation (%) 102.8

Run No.	Hydraulic Conductivity (cm/s)	Running Average of 4 Readings (cm/s)	Maximum % Deviation from Average (should be less than 25%)	Flow Ratio (0.75 to 1.25 required)	Effective Confining Stress (psi)	Other Information
1	4.8E-07	n.a.		0.87	3	Maximum Gradient 13.0
2	4.9E-07	n.a.		1.00	3	Minimum Gradient 10.3
3	4.5E-07	n.a.		1.00	3	Max. Back Pressure (psi) 16.0
4	4.6E-07	4.7E-07	3.5%	0.99	3	Min. Back Pressure (psi) 16.0
5	4.3E-07	4.6E-07	6.5%	1.00	3	
6	4.4E-07	4.4E-07	3.5%	1.00	3	
7	4.4E-07	4.4E-07	3.5%	1.00	3	
Final	4.2E-07	4.3E-07	2.6%	1.00	3	



Checked by: SEG

FIGURE: 9

Hydraulic Conductivity Test Report

Method ASTM D 5084



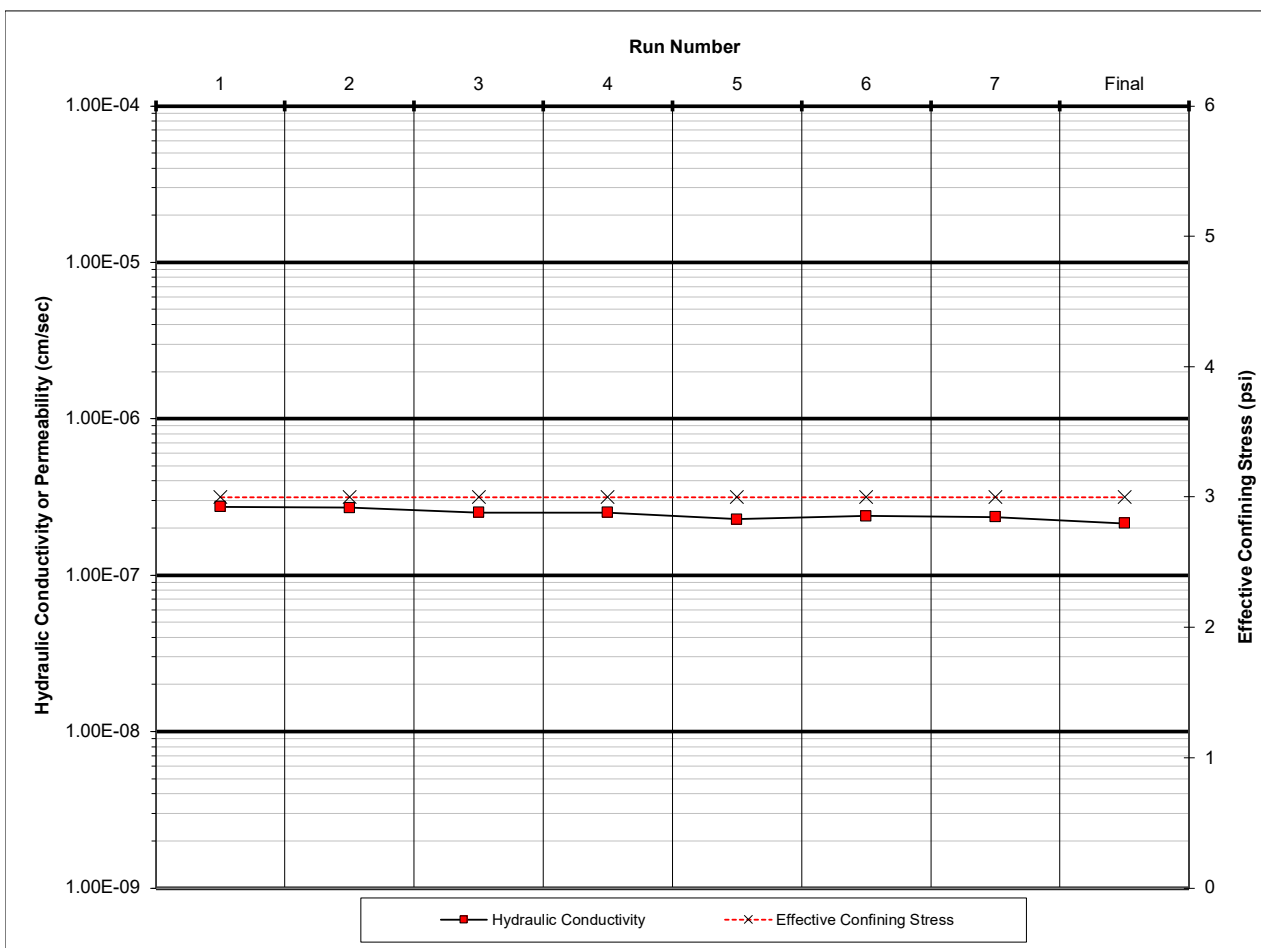
HWA GEOSCIENCES INC.

Project C Street Landfill
Client Brumfield Inc.
Project number 2022-212
Date 5/22/2023
Technician AH
Sample point Delphi
Sample number S-9
Sample depth 0
Sample description Dark brown, silty GRAVEL with sand and cobbles

Assumed Specific Gravity 2.67
Initial Sample Area (cm²) 81.18
Initial Sample Length (cm) 11.69
Initial Sample Volume (cc) 948.7
Initial moisture (%) 16.4
Initial wet unit wt. (pcf) 131.0
Initial dry unit wt. (pcf) 112.5
Initial void ratio 0.481
Initial porosity 0.325
Initial saturation (%) 91.2

Final Sample Area (cm²) 81.02
Final Sample Length (cm) 11.71
Final Sample Volume (cc) 949.0
Final moisture (%) 18.9
Final wet unit weight (pcf) 133.3
Final dry unit weight (pcf) 112.2
Final void ratio 0.485
Final porosity 0.327
Final saturation (%) 103.8

Run No.	Hydraulic Conductivity (cm/s)	Running Average of 4 Readings (cm/s)	Maximum % Deviation from Average (should be less than 25%)	Flow Ratio (0.75 to 1.25 required)	Effective Confining Stress (psi)	Other Information
1	2.7E-07	n.a.		0.96	3	Maximum Gradient
2	2.7E-07	n.a.		1.00	3	13.0
3	2.5E-07	n.a.		0.94	3	Minimum Gradient
4	2.5E-07	2.6E-07	4.4%	0.89	3	10.8
5	2.3E-07	2.5E-07	9.1%	1.00	3	Max. Back Pressure (psi)
6	2.4E-07	2.4E-07	6.1%	1.00	3	16.0
7	2.4E-07	2.4E-07	5.5%	0.93	3	Min. Back Pressure (psi)
Final	2.1E-07	2.3E-07	6.6%	1.00	3	16.0



Checked by: SEG

FIGURE: 10

APPENDIX F

Low Permeability Soil Density Test Reports



C Street Landfill - 23S011-02 - IPD-Soil Compaction: Report #D309477

CLIENT Brumfield Construction **DATE** 05/15/2023
PROJECT LOCATION 669 West C Street Shelton WA 98584 **PERMIT #**

Inspection Information:

Inspection Date: 05/15/2023 **Time Onsite:** 1030 **Weather Conditions:** 90s, sunny
Inspection Performed: IPD-Soil Compaction

Field Data:

Work / Location: SOUTH EAST CORNER **Gauge Standard MS:** 708
Equipment ID & Serial #: Troxler 3440A, Ser. #22152 **Gauge Standard DS:** 1973

Test Samples:

Sample #: Description: **Proctor Value(pcf):** **Optimum Moisture and Oversize Rock Correction:**
1. Others GP, POORLY GRADED GRAVEL WITH SAND 128.9 10.8

TEST METHOD ☒ ASTM D-1557 /AASHTO T-180

In Place Density Test Results (ASTM D-6938):

Test #	Mode / Depth	Location of Test	Elev.	Wet Dens.	Dry Dens.	Moist %	Sample #	% Comp.	% Reqd.
1	6"	SEE TEST 1 ON MAP	FSG	143	123	16.3	1	95.4	95

☐ Native Soils Soils consistent with Proctor ☒ Yes ☐ No
☒ Imported Fills Soils found to be firm and stable; and to the best of our knowledge, meet compaction ☒ Yes ☐ No
Contractor notified of results ☒ Yes ☐ No

Remarks:

MTC inspector was met on site by the contractor's geo representative and was instructed to test the imported material used as backfill near the SE corner as shown below.

Area tested were firm and unyielding at the time of inspection. But was over optimum moisture and will need reviewed by engineering firm of record.

Inspector was given a proctor available from another geo laboratory at the time of inspection.

The contractor was notified of the results verbally at that time.

To the best of MTC inspector's knowledge, the above-described work was performed in general accordance with project specifications and approved plans.

Images:

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UPLOADED: 05/15/2023 11:52:48



UPLOADED: 05/15/2023 11:53:47

REPORTED BY: Wes Parnell

REVIEWED BY: Michael Houser, Project Manager

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C Street Landfill - 23S011-02 - IPD-Soil Compaction: Report #D309789

CLIENT Brumfield Construction **DATE** 05/16/2023
PROJECT LOCATION 669 West C Street Shelton WA 98584 **PERMIT #**

Inspection Information:

Inspection Date: 05/16/2023 **Time Onsite:** 11:00 am **Weather Conditions:** sunny 80 degrees F.
Inspection Performed: IPD-Soil Compaction

Field Data:

Work / Location: Landfill backfill **Gauge Standard MS:** 1055
Equipment ID & Serial #: CPN MC-1 Elite, Ser. #MD30831 **Gauge Standard DS:** 3866

Test Samples:

Sample #: Description: **Proctor Value(pcf): Optimum Moisture and Oversize Rock Correction:**
1. others Poorly graded gravel with sand 128.9 10.8

TEST METHOD ☒ ASTM D-1557 /AASHTO T-180

In Place Density Test Results (ASTM D-6938):

Test #	Mode / Depth	Location of Test	Elev.	Wet Dens.	Dry Dens.	Moist %	Sample #	% Comp.	% Reqd.
1	6	See Photo		139	122.7	13.3	1	95.2	95
2	6	See Photo		138.3	123	12.4	1	95.4	95

☐ Native Soils Soils consistent with Proctor ☒ Yes ☐ No
☒ Imported Fills Soils found to be firm and stable; and to the best of our knowledge, meet compaction ☒ Yes ☐ No
Contractor notified of results ☒ Yes ☐ No

Remarks:

MTC Inspector arrived onsite as requested to perform in-place density testing of imported material being used as backfill around the Landfill.

Contractor was placing 10" loose lifts of material on top of geo fabric and compacting it using a sheep's foot.

Areas tested DID meet relative compaction at the time of inspection. Materials were firm and unyielding at the time of inspection. See results below for more details.

Contractor was notified of the results verbally at that time.

To the best of MTC inspector's knowledge, the above-described work was performed in general accordance with project specifications and approved plans.

Images:

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UPLOADED: 05/18/2023 10:51:53



UPLOADED: 05/18/2023 10:52:15



UPLOADED: 05/18/2023 10:54:44

REPORTED BY: David Peek

REVIEWED BY: Michael Houser, Project Manager

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C Street Landfill - 23S011-02 - IPD-Soil Compaction: Report #D309780

CLIENT Brumfield Construction **DATE** 05/17/2023
PROJECT LOCATION 669 West C Street Shelton WA 98584 **PERMIT #**

Inspection Information:

Inspection Date: 05/17/2023 **Time Onsite:** 1230 **Weather Conditions:** sunny 80 degrees F.
Inspection Performed: IPD-Soil Compaction

Field Data:

Work / Location: **Gauge Standard MS:** 0
Equipment ID & Serial #: Troxler 3430, Ser. #28205 **Gauge Standard DS:** 0

Test Samples:

Sample #: Description: Proctor Value(pcf): Optimum Moisture and Oversize Rock Correction:
1. others Poorly graded gravel with sand 128.9 10.8

TEST METHOD ☒ ASTM D-1557 /AASHTO T-180

In Place Density Test Results (ASTM D-6938):

Test #	Mode / Depth	Location of Test	Elev.	Wet Dens.	Dry Dens.	Moist %	Sample #	% Comp.	% Reqd.
1	6"	seew media	BFG	141	126.5	11.5	1	98.1	95
2		see media	BFG	142.2	125.2	13.6	1	97.1	95

☐ Native Soils Soils consistent with Proctor ☒ Yes ☐ No
☒ Imported Fills Soils found to be firm and stable; and to the best of our knowledge, meet compaction ☒ Yes ☐ No
Contractor notified of results ☒ Yes ☐ No

Remarks:

MTC inspector was on-site to perform in-place density testing on backfill at a landfill. The contractor placed the material and compacted it using a sheeps foot roller. In place density testing was conducted and the results of those tests are contained in this report. All areas tested DID meet or exceed the minimum compaction requirements of the project.

To the best of MTC inspector's knowledge, the above-described work was performed in general accordance with project specifications and approved plans.

Images:

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UPLOADED: 05/18/2023 10:22:40

REPORTED BY: John Magerstaedt



UPLOADED: 05/18/2023 10:26:36

REVIEWED BY: Michael Houser, Project Manager

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C Street Landfill - 23S011-02 - IPD-Soil Compaction: Report #D310038

CLIENT Brumfield Construction **DATE** 05/22/2023
PROJECT LOCATION 669 West C Street Shelton WA 98584 **PERMIT #**

Inspection Information:

Inspection Date: 05/22/2023 **Time Onsite:** 1400 **Weather Conditions:** sunny 60 degrees F.
Inspection Performed: IPD-Soil Compaction

Field Data:

Work / Location: Landfill backfill **Gauge Standard MS:** 636
Equipment ID & Serial #: Troxler 3430, Ser. #28205 **Gauge Standard DS:** 1608

Test Samples:

Sample #: Description: Proctor Value(pcf): Optimum Moisture and Oversize Rock Correction:
1. others Poorly graded gravel with sand 128.1 10.8

TEST METHOD ☒ ASTM D-1557 /AASHTO T-180

In Place Density Test Results (ASTM D-6938):

Test #	Mode / Depth	Location of Test	Elev.	Wet Dens.	Dry Dens.	Moist %	Sample #	% Comp.	% Reqd.
1	8"	SEE TEST 1 ON MAP	-1'BFSG	140.3	123	14.1	1	96	95
2	8"	SEE TEST 2 ON MAP	-1'BFSG	145.2	124.5	16.6	1	97.2	95
3	8"	SEE TEST 3 ON MAP	-1'BFSG	141.3	123.6	14.3	1	96.5	95
4	8"	SEE TEST 4 ON MAP	-1'BFSG	138.8	122	13.8	1	95.2	95
5	6"	SEE TEST 5 ON MAP	-1'BFSG	140.5	121.1	16	1	94.5	95

☐ Native Soils Soils consistent with Proctor ☒ Yes ☐ No
☒ Imported Fills Soils found to be firm and stable; and to the best of our knowledge, meet compaction ☒ Yes ☐ No
Contractor notified of results ☒ Yes ☐ No

Remarks:

MTC Inspector arrived onsite as requested and met with Aspect representative onsite to perform in-place density testing of imported material being used as backfill into landfill area.

The contractor was placing material in 10" loose lifts on top of geo fabric and compacting it using a sheep's foot.

In-place Density Tests showed the material placed today DID Meet 95% compaction on tests 1-4 BUT TEST 5 DID NOT meet relative compaction and all tests showed high moisture content. See the results below for more details.

The contractor was notified of the results verbally at that time.

Work in progress. Additional inspection needed.

Images:

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UPLOADED: 05/22/2023 22:28:49

REPORTED BY: Wes Parnell

REVIEWED BY: Michael Houser, Project Manager

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C Street Landfill - 23S011-02 - IPD-Soil Compaction: Report #D310311

CLIENT Brumfield Construction **DATE** 05/25/2023
PROJECT LOCATION 669 West C Street Shelton WA 98584 **PERMIT #**

Inspection Information:

Inspection Date: 05/25/2023 **Time Onsite:** 0700 **Weather Conditions:** 50's, Sunny
Inspection Performed: IPD-Soil Compaction

Field Data:

Work / Location: Landfill backfill **Gauge Standard MS:** 749
Equipment ID & Serial #: Instrotek 3500, Ser. #4547 **Gauge Standard DS:** 2681

Test Samples:

Sample #: Description: Proctor Value(pcf): Optimum Moisture and Oversize Rock Correction:
1. S23-0525 Poorly graded gravel with sand 133.1 7.2%

TEST METHOD ☒ ASTM D-1557 /AASHTO T-180

In Place Density Test Results (ASTM D-6938):

Test #	Mode / Depth	Location of Test	Elev.	Wet Dens.	Dry Dens.	Moist %	Sample #	% Comp.	% Req'd.
1	6"	See picture below	FSG	141.5	123.8	14.3	1	93	95
2	6"	See picture below	FSG	136.5	119.1	14.6	1	89.5	95
3	6"	See picture below	FSG	131.4	113.7	15.6	1	85.4	95
4	6"	See picture below	FSG	135.3	117.1	15.5	1	88	95
5	6"	See picture below	FSG	140.5	122.4	14.8	1	92	95

☐ Native Soils Soils consistent with Proctor ☒ Yes ☐ No
☒ Imported Fills Soils found to be firm and stable; and to the best of our knowledge, meet compaction ☒ Yes ☐ No
Contractor notified of results ☒ Yes ☐ No

Remarks:

MTC Inspector arrived onsite as requested and met with Aspect representative onsite to perform in-place density testing of imported material being used as backfill into landfill area.

In-place Density Tests showed the material placed today DID NOT meet relative compaction and showed high moisture content. See results below for more details.

The contractor was notified of the results verbally at that time.

Work in progress. Additional inspection needed.

Images:

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REPORTED BY: Nicholas Dier

REVIEWED BY: Michael Houser, Project Manager

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C Street Landfill - 23S011-02 - IPD-Soil Compaction: Report #D310534

CLIENT Brumfield Construction **DATE** 05/30/2023
PROJECT LOCATION 669 West C Street Shelton WA 98584 **PERMIT #**

Inspection Information:

Inspection Date: 05/30/2023 **Time Onsite:** 1315 **Weather Conditions:** sunny 70 degrees F.
Inspection Performed: IPD-Soil Compaction

Field Data:

Work / Location: Landfill as shown below **Gauge Standard MS:** 706
Equipment ID & Serial #: Troxler 3440A, Ser. #22152 **Gauge Standard DS:** 1972

Test Samples:

Sample #:	Description:	Proctor Value(pcf):	Optimum Moisture and Oversize Rock Correction:
1. others	Poorly graded gravel with sand	128.1	10.8
2. S23-0525	POORLY GRADED GRAVEL WITH SAND	133.1	7.2%

TEST METHOD ☒ ASTM D-1557 /AASHTO T-180

In Place Density Test Results (ASTM D-6938):

Test #	Mode / Depth	Location of Test	Elev.	Wet Dens.	Dry Dens.	Moist %	Sample #	% Comp.	% Req'd.
1	6"	SEE TEST 1 ON MAP	FSG	143.6	127.8	12.4	2	96	95
2	6"	SEE TEST 2 ON MAP	FSG	142.9	126	13.4	1	98.4	95
3	6"	SEE TEST 3 ON MAP	FSG	139.3	122.7	13.5	1	95.8	95
4	6"	SEE TEST 4 ON MAP	FSG	140.4	123.8	13.4	1	96.6	95
5	6"	SEE TEST 5 ON MAP	FSG	140.3	122.3	14.7	1	95.5	95
6	6"	SEE TEST 6 ON MAP	FSG	139.7	125.3	11.5	1	97.8	95
7	6"	SEE TEST 7 ON MAP	FSG	145.7	127.6	14.2	2	95.9	95
8	6"	SEE TEST 8 ON MAP	FSG	144.6	126.8	14	2	95.3	95
9	6"	SEE TEST 9 ON MAP	FSG	138.3	122.4	13	1	95.6	95
10	6"	SEE TEST 10 ON MAP	FSG	139.2	123.2	13	1	96.2	95
11	6"	SEE TEST 11 ON MAP	FSG	139.2	122.2	13.9	1	95.4	95

☐ Native Soils Soils consistent with Proctor ☒ Yes ☐ No
☒ Imported Fills Soils found to be firm and stable; and to the best of our knowledge, meet compaction ☒ Yes ☐ No
Contractor notified of results ☒ Yes ☐ No

Remarks:

MTC Inspector arrived onsite as requested and met with Aspect representative onsite to perform in-place density testing of imported material being used as backfill into landfill area.

The contractor finished placing material in compacted lifts on top of geo fabric, compaction was achieved using a sheep's foot steel drum vibratory roller.

In-place Density Tests showed the material placed prior to inspection DID Meet 95% compaction on tests. All tests showed high moisture content. See the results below for more details.

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Moisture will need reviewed by the engineering of record.

The contractor was notified of the results verbally at that time.

Work in progress. Additional inspection needed.

Images:



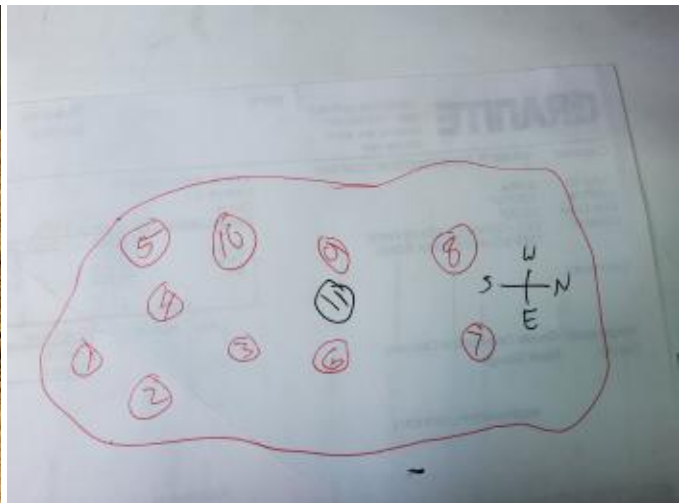
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REPORTED BY: Wes Parnell

REVIEWED BY: Michael Houser, Project Manager

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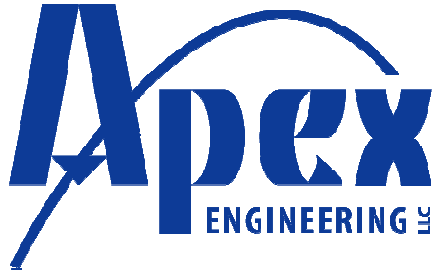
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APPENDIX G

Initial Settlement Survey Report



Apex Job No.	36650
Project Name:	Shelton Landfill - Vertical Settlement Monitoring
Note 1:	Vertical settlement points are rebar with control cap and 4' lath
Note 2:	Subsequent re-measurements will be compared against the baseline elevations indicated below to determine the extent of settlement, if any.

SETTLEMENT POINT NUMBER	LOCATION	INITIAL BASELINE ELEVATIONS 6/26/2023	FIRST READING	SECOND READING	THIRD READING
1	SEE EXHIBIT MAP	169.99	169.988	169.989	169.991
2		165.42	165.416	165.417	165.422
3		164.36	164.360	164.360	164.364
4		163.27	163.269	163.268	163.271
5		163.48	163.479	163.479	163.482
6		164.33	164.328	164.328	164.331
7		164.74	164.738	164.743	164.744
8		165.61	165.609	165.610	165.611

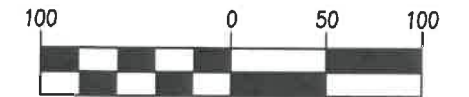
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SHELTON LANDFILL SETTLEMENT MONITORING EXHIBIT



GRAPHIC SCALE



(IN FEET)
1 inch = 100ft.

VERTICAL DATUM

NAVD 88 BASED ON RTK GPS MEASUREMENTS
CONSTRAINED TO THE WASHINGTON STATE
REFERENCE NETWORK.



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