

Kyle Parker
Washington State Department of Ecology
Central Region Office
1250 West Alder Street
Union Gap, WA 98903

Arcadis U.S., Inc.
1420 5th Avenue
Suite 2400
Seattle, WA 98101
Phone: 206 325 5254
Fax: 206 325 8218
www.arcadis.com

Date: May 1, 2024
Our Ref: 30051484
Subject: Well Abandonment Report
Site: AIG Liberty Tank Lines Spill Site

Dear Mr. Parker,

Arcadis U.S., Inc. (Arcadis) submitted the *Closure Request* dated August 10, 2021, to the Washington State Department of Ecology (Ecology) for the site of the AIG Liberty Tank Lines Spill at Milepost 127 on State Highway 17 outside Bridgeport, WA (site) requesting a no further action (NFA) determination for the site. Ecology issued a NFA for the site on January 12, 2024. As part of site closure activities, Arcadis decommissioned site wells on April 2, 2024. Nine monitoring wells (AS-1 and MW-1 through MW-8) were decommissioned by a Washington licensed drilling subcontractor, Cascade Drilling, LP of Woodinville, Washington. Monitoring wells were decommissioned via chip in place using bentonite chips that included removal of well boxes using a skid-steer. Decommissioning related rubble was removed by Cascade Drilling as construction-related debris. No other environmental or remedial related infrastructure remains at the site; decommissioning logs are included as Attachment A.

Sincerely,
Arcadis U.S., Inc.



Ross LaGrandeur
Project Manager

Email: ross.lagrandeur@arcadis.com
Direct Line: 831-229-4548

Enclosures:
Attachment A. Well Decommissioning Logs

Attachment A

Well Decommissioning Logs

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction

☒ Decommission ⇒ Original NOI No. **R 53421**

Ecology Well ID Tag No. **AFS 826**

Site Well Name **AS-1**

Consulting Firm **Arcadis**

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for? _____

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) **James Goble**

Driller/Engineer/Trainee Signature _____

License No. **3131**

Company Name **Cascade Drilling - Seattle**

If trainee box is checked, sponsor's license number: _____

Sponsor's signature _____

Notice of Intent No. **AE82015**

Type of Well:

☒ Resource Protection Well

☐ Injection Point

☐ Remediation Well

☐ Grounding Well

☐ Geotechnical Soil Boring

☐ Ground Source Heat Pump

☐ Environmental Boring

☐ Other _____


☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner **Foster Creek Land & Cattle Company**

Well Street Address **SR-17, Mile Marker 127**

City **Bridgeport** County **Douglas**

Tax Parcel No. **28260210001**

Location (see instructions): WWM ☐ or EWM ☒

NW 1/4-1/4 **SW** 1/4, Section **2** Town **28N** Range **26E**

Latitude (Example: 47.12345) **47.95059**

Longitude (Example: -120.12345) **-119.53412**

(WGS 84 Coordinate System)

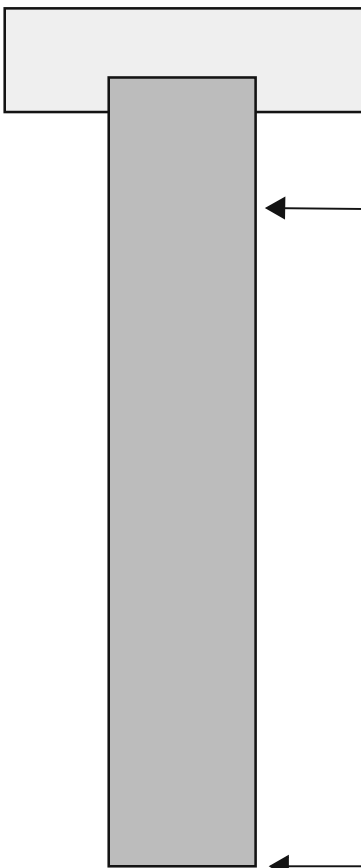
Borehole diameter _____ inches Casing diameter **2"** inches

Static water level **n/a** ft below top of casing Date _____

☒ Above-ground completion with bollards ☐ Flush monument

Stick-up of top of well casing **3** ft above ground surface

Start Date **4/2/2024** Completed Date **4/2/2024**

Construction Design	Well Data	Driller's Log
	Concrete Surface Seal Depth 2 FT	0 - 32 FT Chip in place 2" well
	Backfill 30 FT Bentonite Chips	- FT
<div style="border: 1px solid black; padding: 5px; text-align: center;"> DEPT OF ECOLOGY WELL TAG AFS 826 CLIENT WELL ID AS-1 </div>		
	Total Hole Depth 32 FT	

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction

☒ Decommission ⇒ Original NOI No. **17982**

Ecology Well ID Tag No. **ABI 426**

Site Well Name **MW-1**

Consulting Firm **Arcadis**

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for? _____

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) **James Goble**

Driller/Engineer/Trainee Signature _____

License No. **3131**

Company Name **Cascade Drilling - Seattle**

If trainee box is checked, sponsor's license number: _____

Sponsor's signature _____

Notice of Intent No. **AE82015**

Type of Well:

☒ Resource Protection Well

☐ Injection Point

☐ Remediation Well

☐ Grounding Well

☐ Geotechnical Soil Boring

☐ Ground Source Heat Pump

☐ Environmental Boring

☐ Other _____


☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner **Foster Creek Land & Cattle Company**

Well Street Address **SR-17, Mile Marker 127**

City **Bridgeport** County **Douglas**

Tax Parcel No. **28260210001**

Location (see instructions): WWM ☐ or EWM ☒

NW 1/4-1/4 **SW** 1/4, Section **2** Town **28N** Range **26E**

Latitude (Example: 47.12345) **47.95009**

Longitude (Example: -120.12345) **-119.53460**

(WGS 84 Coordinate System)

Borehole diameter _____ inches Casing diameter **2"** inches

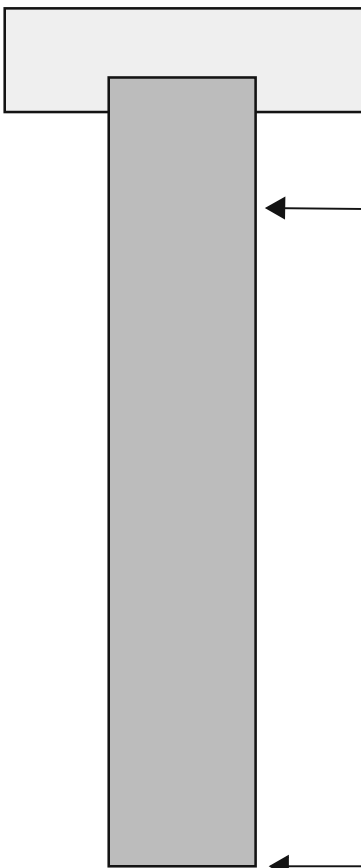
Static water level **n/a** ft below top of casing Date _____

☒ Above-ground completion with bollards ☐ Flush monument



Stick-up of top of well casing **3** ft above ground surface

Start Date **4/2/2024** Completed Date **4/2/2024**

Construction Design	Well Data	Driller's Log
	Concrete Surface Seal Depth 2 FT	0 - 15 FT
	Backfill 13 FT Bentonite Chips	Chip in place 2" well - FT
<div style="border: 1px solid black; padding: 5px;"> DEPT OF ECOLOGY WELL TAG ABI 426 CLIENT WELL ID MW-1 </div>		
	Total Hole Depth 15 FT	

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction

☒ Decommission ⇒ Original NOI No. **17982**

Ecology Well ID Tag No. **ABI 427**

Site Well Name **MW-2**

Consulting Firm **Arcadis**

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for? _____

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) **James Goble**

Driller/Engineer/Trainee Signature _____

License No. **3131**

Company Name **Cascade Drilling - Seattle**

If trainee box is checked, sponsor's license number: _____

Sponsor's signature _____

Notice of Intent No. **AE82015**

Type of Well:

☒ Resource Protection Well

☐ Injection Point

☐ Remediation Well

☐ Grounding Well

☐ Geotechnical Soil Boring

☐ Ground Source Heat Pump

☐ Environmental Boring

☐ Other _____


☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner **Foster Creek Land & Cattle Company**

Well Street Address **SR-17, Mile Marker 127**

City **Bridgeport** County **Douglas**

Tax Parcel No. **28260210001**

Location (see instructions): WWM ☐ or EWM ☒

NW 1/4-1/4 **SW** 1/4, Section **2** Town **28N** Range **26E**

Latitude (Example: 47.12345) **47.95021**

Longitude (Example: -120.12345) **-119.53411**

(WGS 84 Coordinate System)

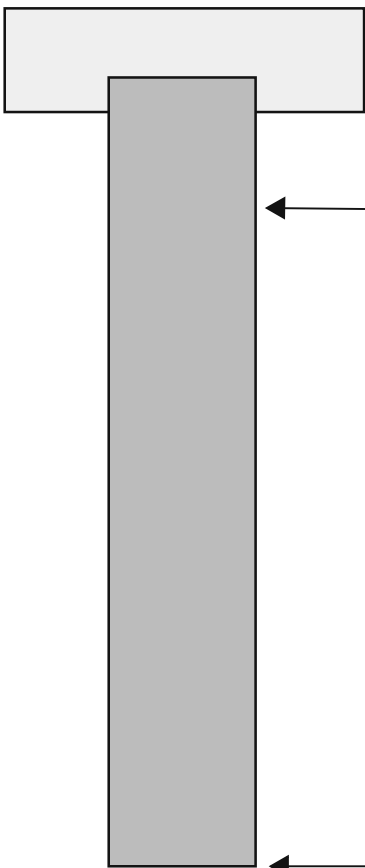
Borehole diameter _____ inches Casing diameter **2"** inches

Static water level **n/a** ft below top of casing Date _____

☒ Above-ground completion with bollards ☐ Flush monument

Stick-up of top of well casing **3** ft above ground surface

Start Date **4/2/2024** Completed Date **4/2/2024**

Construction Design	Well Data	Driller's Log
	<p>Concrete Surface Seal Depth 2 FT</p>	<p>0 - 12 FT</p> <p>Chip in place 2" well</p>
	<p>Backfill 10 FT</p> <p>Bentonite Chips</p>	<p>- FT</p>
<p>DEPT OF ECOLOGY WELL TAG ABI 427</p> <p>CLIENT WELL ID MW-2</p>		
	<p>Total Hole Depth 12 FT</p>	

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction

☒ Decommission ⇒ Original NOI No. **17982**

Ecology Well ID Tag No. **ABI 428**

Site Well Name **MW-3**

Consulting Firm **Arcadis**

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for? _____

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) **James Goble**

Driller/Engineer/Trainee Signature _____

License No. **3131**

Company Name **Cascade Drilling - Seattle**

If trainee box is checked, sponsor's license number: _____

Sponsor's signature _____

Notice of Intent No. **AE82015**

Type of Well:

☒ Resource Protection Well

☐ Injection Point

☐ Remediation Well

☐ Grounding Well

☐ Geotechnical Soil Boring

☐ Ground Source Heat Pump

☐ Environmental Boring

☐ Other _____

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner **Foster Creek Land & Cattle Company**

Well Street Address **SR-17, Mile Marker 127**

City **Bridgeport** County **Douglas**

Tax Parcel No. **28260210001**

Location (see instructions): WWM ☐ or EWM ☒

NW ¼-¼ **SW** ¼, Section **2** Town **28N** Range **26E**

Latitude (Example: 47.12345) **47.95056**

Longitude (Example: -120.12345) **-119.53420**

(WGS 84 Coordinate System)

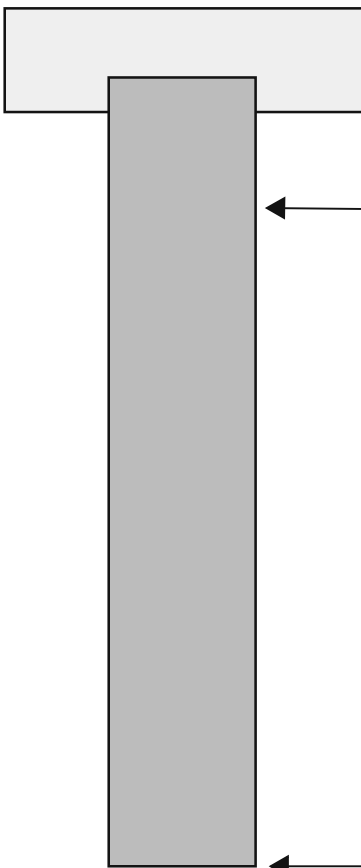
Borehole diameter _____ inches Casing diameter **4"** inches

Static water level **n/a** ft below top of casing Date _____

☒ Above-ground completion with bollards ☐ Flush monument

↳ Stick-up of top of well casing **3** ft above ground surface

Start Date **4/2/2024** Completed Date **4/2/2024**

Construction Design	Well Data	Driller's Log
	Concrete Surface Seal Depth 2 FT	0 - 20 FT
	Backfill 18 FT Bentonite Chips	Chip in place 4" well - FT
<div style="border: 1px solid black; padding: 5px;"> DEPT OF ECOLOGY WELL TAG ABI 428 CLIENT WELL ID MW-3 </div>		
	Total Hole Depth 20 FT	

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction

☒ Decommission ⇒ Original NOI No. **R 53421**

Ecology Well ID Tag No. **AFS 827**

Site Well Name **MW-4**

Consulting Firm **Arcadis**

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for? _____

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) **James Goble**

Driller/Engineer/Trainee Signature _____

License No. **3131**

Company Name **Cascade Drilling - Seattle**

If trainee box is checked, sponsor's license number: _____

Sponsor's signature _____

Notice of Intent No. **AE82015**

Type of Well:

☒ Resource Protection Well

☐ Injection Point

☐ Remediation Well

☐ Grounding Well

☐ Geotechnical Soil Boring

☐ Ground Source Heat Pump

☐ Environmental Boring

☐ Other _____


☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner **Foster Creek Land & Cattle Company**

Well Street Address **SR-17, Mile Marker 127**

City **Bridgeport** County **Douglas**

Tax Parcel No. **28260210001**

Location (see instructions): WWM ☐ or EWM ☒

NW 1/4-1/4 **SW** 1/4, Section **2** Town **28N** Range **26E**

Latitude (Example: 47.12345) **47.95039**

Longitude (Example: -120.12345) **-119.53387**

(WGS 84 Coordinate System)

Borehole diameter _____ inches Casing diameter **2"** inches

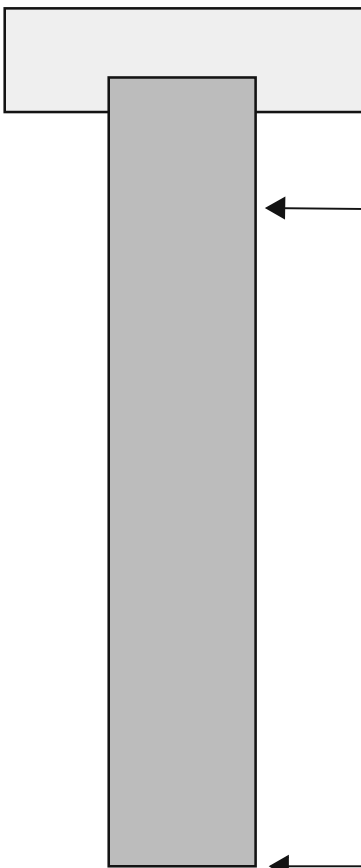
Static water level **n/a** ft below top of casing Date _____

☒ Above-ground completion with bollards ☐ Flush monument



Stick-up of top of well casing **3** ft above ground surface

Start Date **4/2/2024** Completed Date **4/2/2024**

Construction Design	Well Data	Driller's Log
	Concrete Surface Seal Depth 2 FT	0 - 25 FT Chip in place 2" well
	Backfill 23 FT Bentonite Chips	- FT
<div style="border: 1px solid black; padding: 5px;"> DEPT OF ECOLOGY WELL TAG AFS 827 CLIENT WELL ID MW-4 </div>		
	Total Hole Depth 25 FT	

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction

☒ Decommission ⇒ Original NOI No. **R 53421**

Ecology Well ID Tag No. **AFS 828**

Site Well Name **MW-5**

Consulting Firm **Arcadis**

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for? _____

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) **James Goble**

Driller/Engineer/Trainee Signature _____

License No. **3131**

Company Name **Cascade Drilling - Seattle**

If trainee box is checked, sponsor's license number: _____

Sponsor's signature _____

Notice of Intent No. **AE82015**

Type of Well:

☒ Resource Protection Well

☐ Injection Point

☐ Remediation Well

☐ Grounding Well

☐ Geotechnical Soil Boring

☐ Ground Source Heat Pump

☐ Environmental Boring

☐ Other _____


☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner **Foster Creek Land & Cattle Company**

Well Street Address **SR-17, Mile Marker 127**

City **Bridgeport** County **Douglas**

Tax Parcel No. **28260210001**

Location (see instructions): WWM ☐ or EWM ☒

NW 1/4-1/4 **SW** 1/4, Section **2** Town **28N** Range **26E**

Latitude (Example: 47.12345) **47.95063**

Longitude (Example: -120.12345) **-119.53350**

(WGS 84 Coordinate System)

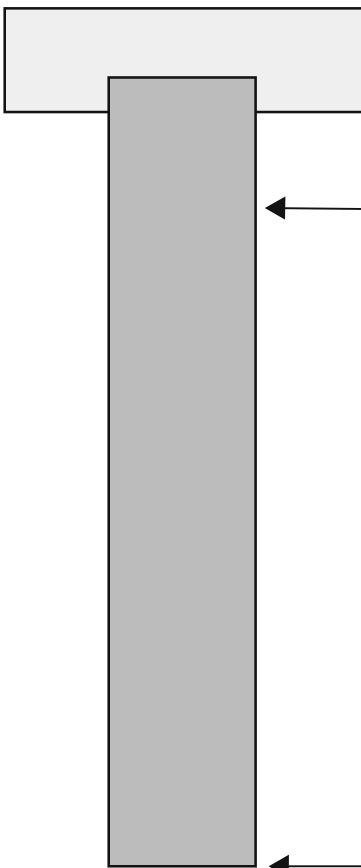
Borehole diameter _____ inches Casing diameter **2"** inches

Static water level **n/a** ft below top of casing Date _____

☒ Above-ground completion with bollards ☐ Flush monument

Stick-up of top of well casing **3** ft above ground surface

Start Date **4/2/2024** Completed Date **4/2/2024**

Construction Design	Well Data	Driller's Log
	Concrete Surface Seal Depth 2 FT	0 - 25 FT Chip in place 2" well
	Backfill 23 FT Bentonite Chips	- FT
<div style="border: 1px solid black; padding: 5px;"> DEPT OF ECOLOGY WELL TAG AFS 828 CLIENT WELL ID MW-5 </div>		
	Total Hole Depth 25 FT	

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction

☒ Decommission ⇒ Original NOI No. **R 53428**

Ecology Well ID Tag No. **AHR 160**

Site Well Name **MW-6**

Consulting Firm **Arcadis**

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for? _____

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) **James Goble**

Driller/Engineer/Trainee Signature _____

License No. **3131**

Company Name **Cascade Drilling - Seattle**

If trainee box is checked, sponsor's license number: _____

Sponsor's signature _____

Notice of Intent No. **AE82015**

Type of Well:

☒ Resource Protection Well

☐ Injection Point

☐ Remediation Well

☐ Grounding Well

☐ Geotechnical Soil Boring

☐ Ground Source Heat Pump

☐ Environmental Boring

☐ Other _____

☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner **Foster Creek Land & Cattle Company**

Well Street Address **SR-17, Mile Marker 127**

City **Bridgeport** County **Douglas**

Tax Parcel No. **28260210001**

Location (see instructions): WWM ☐ or EWM ☒

NW 1/4-1/4 **SW** 1/4, Section **2** Town **28N** Range **26E**

Latitude (Example: 47.12345) **47.95045**

Longitude (Example: -120.12345) **-119.53489**

(WGS 84 Coordinate System)

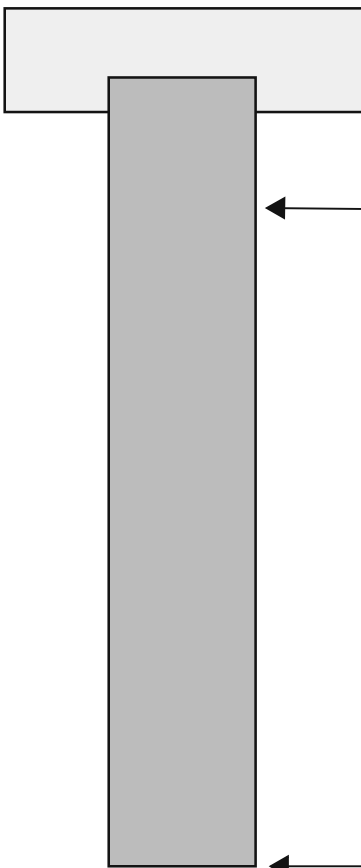
Borehole diameter _____ inches Casing diameter **2"** inches

Static water level **n/a** ft below top of casing Date _____

☐ Above-ground completion with bollards ☒ Flush monument

Stick-up of top of well casing _____ ft above ground surface

Start Date **4/2/2024** Completed Date **4/2/2024**

Construction Design	Well Data	Driller's Log
	<p>Concrete Surface Seal Depth 2 FT</p>	<p>0 - 32 FT</p>
	<p>Backfill 30 FT</p> <p>Bentonite Chips</p>	<p>Chip in place 2" well</p> <p>- FT</p>
<p>DEPT OF ECOLOGY WELL TAG AHR 160</p> <p>CLIENT WELL ID MW-6</p>		
	<p>Total Hole Depth 32 FT</p>	

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction

☒ Decommission ⇒ Original NOI No. **RE06234**

Ecology Well ID Tag No. **BHC 900**

Site Well Name **MW-7**

Consulting Firm **Arcadis**

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for? _____

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) **James Goble**

Driller/Engineer/Trainee Signature _____

License No. **3131**

Company Name **Cascade Drilling - Seattle**

If trainee box is checked, sponsor's license number: _____

Sponsor's signature _____

Notice of Intent No. **AE82015**

Type of Well:

☒ Resource Protection Well

☐ Remediation Well

☐ Geotechnical Soil Boring

☐ Environmental Boring

☐ Injection Point

☐ Grounding Well

☐ Ground Source Heat Pump

☐ Other _____

↳ ☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner **Foster Creek Land & Cattle Company**

Well Street Address **SR-17, Mile Marker 127**

City **Bridgeport** County **Douglas**

Tax Parcel No. **28260210001**

Location (see instructions): WWM ☐ or EWM ☒

NW ¼-¼ **SW** ¼, Section **2** Town **28N** Range **26E**

Latitude (Example: 47.12345) **47.95091**

Longitude (Example: -120.12345) **-119.53409**

(WGS 84 Coordinate System)

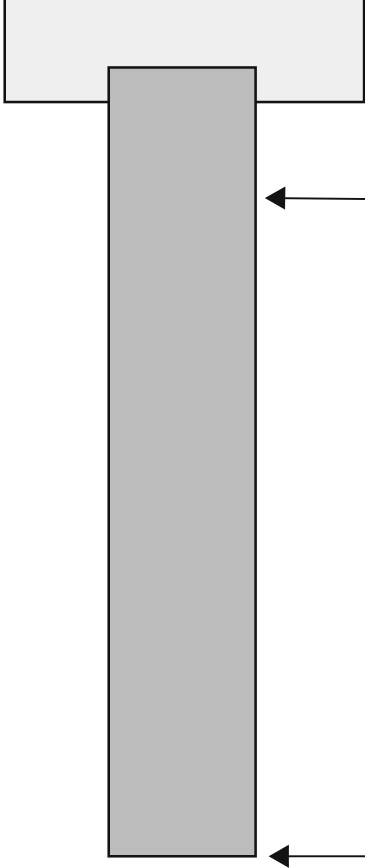
Borehole diameter _____ inches Casing diameter **2"** inches

Static water level **n/a** ft below top of casing Date _____

☐ Above-ground completion with bollards ☒ Flush monument

↳ Stick-up of top of well casing _____ ft above ground surface

Start Date **4/2/2024** Completed Date **4/2/2024**

Construction Design	Well Data	Driller's Log
	Concrete Surface Seal Depth 2 FT	0 - 34 FT Chip in place 2" well
	Backfill 32 FT Bentonite Chips	- FT
<div style="border: 1px solid black; padding: 5px; text-align: center;"> DEPT OF ECOLOGY WELL TAG BHC 900 CLIENT WELL ID MW-7 </div>		
	Total Hole Depth 34 FT	

Resource Protection Well Report

Submit one well report per well installed. See page two for instructions.

Type of Work:

☐ Construction

☒ Decommission ⇒ Original NOI No. **RE06234**

Ecology Well ID Tag No. **BHC 899**

Site Well Name **MW-8**

Consulting Firm **Arcadis**

Was a variance approved for this well/boring? ☐ Yes ☒ No

If yes, what was the variance for? _____

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported are true to my best knowledge and belief.

☒ Driller ☐ Trainee ☐ Engineer

Name (Print Last, First Name) **James Goble**

Driller/Engineer/Trainee Signature _____

License No. **3131**

Company Name **Cascade Drilling - Seattle**

If trainee box is checked, sponsor's license number: _____

Sponsor's signature _____

Notice of Intent No. **AE82015**

Type of Well:

☒ Resource Protection Well

☐ Injection Point

☐ Remediation Well

☐ Grounding Well

☐ Geotechnical Soil Boring

☐ Ground Source Heat Pump

☐ Environmental Boring

☐ Other _____


☐ Soil- ☐ Vapor- ☐ Water-sampling

Property Owner **Foster Creek Land & Cattle Company**

Well Street Address **SR-17, Mile Marker 127**

City **Bridgeport** County **Douglas**

Tax Parcel No. **28260210001**

Location (see instructions): WWM ☐ or EWM ☒

NW 1/4-1/4 **SW** 1/4, Section **2** Town **28N** Range **26E**

Latitude (Example: 47.12345) **47.95074**

Longitude (Example: -120.12345) **-119.53464**

(WGS 84 Coordinate System)

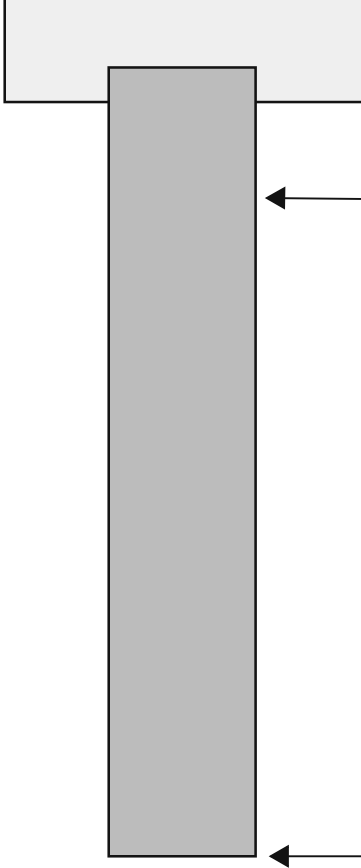
Borehole diameter _____ inches Casing diameter **2"** inches

Static water level **n/a** ft below top of casing Date _____

☐ Above-ground completion with bollards ☒ Flush monument

Stick-up of top of well casing _____ ft above ground surface

Start Date **4/2/2024** Completed Date **4/2/2024**

Construction Design	Well Data	Driller's Log
	Concrete Surface Seal Depth 2 FT	0 - 35 FT Chip in place 2" well
	Backfill 33 FT Bentonite Chips	- FT
<div style="border: 1px solid black; padding: 5px;"> DEPT OF ECOLOGY WELL TAG BHC 899 CLIENT WELL ID MW-8 </div>		
	Total Hole Depth 35 FT	