JACOBS WELL SAMPLING FIELD LOG

Date: 4/15/21

Project #: NWP21002.A.CS.EV.1

Well I.D.: MW-01

Field Team: L. TOCHKO + C TORGERSON

Total Depth (ft) 24.57 (-) DTW (ft) 12.29 (X 0.17 gal\ft) = Well Casing Volume (gal.) = 2.1

Field Conditions: 45°F, CLEAR, CALM

Decontamination: Alconox wash, DI wash

PURGE INFORMATION

X	Purge Method:	Transient peristaltic pump with | | new or X | dedicated polyethylene/teflon-lined tubing
	Purge Method :	Dedicated submersible pump with | | new or | | dedicated polyethylene tubing
	Purge Method:	Dedicated Hydrostar pump with | | new or | | dedicated polyethylene tubing

Pump Suction Depth (ft): ~4 FT TUBING OUT OF WELL Purge water disposal: IDW DRUM

Comments/Exceptions to SAP:

	Purge Volume (gallons)	Specific Conduct. (µS/cm)	Temp. (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Purge Rate (gpm)	DTW (ft)	* Clarity/ Color/Remarks
Target Stabilization Criteria	-	+/- 3%	-	+/- 0.1	+/- 10	+/- 0.3	+/- 10 if > 10 NTU	0.03 - 0.08	-	
Time										
07:26	PUMP	ON							12.29	
08:00	2.1	454.1	15.2	6.52	81.4	0.24	5.28	0.06	12.29	CLEAR COLORLESS ODORLESS
08:05	2.5	451.2	15.2	6.52	38.7	0.65	4.70	0.08	12.29	
08:10	2.7	450.9	15.3	6.53	20.9	0.28	5.80	0.04	12.29	
08:15	2.9	451.1	15.3	6.51	11.3	0.22	4.83	0.04	12.29	
08:20	3.25	450.7	15.4	6.53	1.2	0.20	3.14	0.07	12.30	
08:25	3.5	450.1	15.4	6.51	-4.0	0.20	4.78	0.05	12.30	
08:30	3.75	449.3	15.5	6.53	-8.6	0.16	4.20	0.05	12.30	
:										
:										
08:35	Start Sampling									
08:38	End Sampling									

* **VC** = Very cloudy **Cl** = Cloudy **SC** = Slightly Cloudy **VSC** = Very Slightly Cloudy **AC** = Almost Clear **C** = Clear **CC** = Crystal Clear

B2 = 0.0 PPM

Laboratory Analytical Program - Semiannual Sampling

Groundwater Sampling

Project #: NWP21002.A.CS.EV.1

DATE: 4/15/21 Time: 08:35 Well ID: MW-01

Sample I.D.	Number of Sample Containers (Circled) Equip-ment	Dupli-cate	Parent Sample	Volume	Type	Pres.	Shipping Date	Analytical Method
Organic Constituents								
TCE, cis 1,2-DCE, PCE, VC	3	3	(3)	40 mL	Glass	HCl		EPA 8260C, no headspace
Metals								
Dissolved Ferrous Iron	Field measurement Only 0.0mg/L							HACH DR890- Ferrous Iron
Natural Attenuation Monitoring Constituents								
Nitrate, Sulfate, Chloride	1	1	(1)	250 mL	Poly	None		Nitrate (300), Sulfate & Chloride (300.0_28D)
TOC	1	1	(1)	250 mL	Glass	H2S04		SM5310
Carbon Dioxide	Field measurement Only 90mg/L							HACH CO2 Test Kit
Methane	3	3	(3)	40 mL	Glass	HCl		RSK 175, no headspace
Duplicate ID	Time:							
Comments:	MW01-041521-0							

JACOBS WELL SAMPLING FIELD LOG

Date: 4/14/21

Project #: NWP21002.A.CS.EV.1 Well I.D.: MW-02

Field Team: L. TOCHKO + C. TORGERSON

Total Depth (ft) 21.0 (-) DTW (ft) 9.38 (X0.17 gal\ft) = Well Casing Volume (gal.) = 2

Field Conditions: 48°F, CLEAR, CALM

Decontamination: Alconox wash, DI wash

PURGE INFORMATION

X	Purge Method:	Transient peristaltic pump with | | new or |X| dedicated polyethylene/teflon-lined tubing
	Purge Method :	Dedicated submersible pump with | | new or | | dedicated polyethylene tubing
	Purge Method:	Dedicated Hydrostar pump with | | new or | | dedicated polyethylene tubing

Pump Suction Depth (ft): 2.5 - 3 FT TUBING OUT Purge water disposal: IN DRUM

Comments/Exceptions to SAP: ~~FOR~~ PROBE BROKEN

	Purge Volume (gallons)	Specific Conduct. (µS/cm)	Temp. (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Purge Rate (gpm)	DTW (ft)	* Clarity/ Color/Remarks
Target Stabilization Criteria	-	+/- 3%	-	+/- 0.1	+/- 10	+/- 0.3	+/- 10 if > 10 NTU	0.03 - 0.08	-	
Time										
08:13	PUMP	ON							9.38	
08:50	2.0	282.5	16.2		46.0	0.89	1.89	0.05	9.52	CLEAR, COLORLESS ODORLESS
08:55	2.25	270.2	15.6		-87.1	0.27	0.83	0.05	9.50	
09:00	2.5	269.8	15.7		-103.5	0.24	0.71	0.05	9.50	
09:05	2.75	271.3	15.7		-107.7	0.26	0.60	0.05	9.52	
09:10	3.0	276.9	15.6		-110.4	0.35	1.36	0.05	9.54	
09:15	3.25	285.9	15.7		-113.8	0.81	0.37	0.05	9.50	
09:20	3.5	282.5	15.7		-115.0	0.99	0.45	0.05	9.52	
09:25	3.75	290.7	15.8		-116.2	0.95	0.53	0.05	9.52	
:										
09:30	Start Sampling									
09:33	End Sampling									

* **VC** = Very cloudy **CI** = Cloudy **SC** = Slightly Cloudy **VSC** = Very Slightly Cloudy **AC** = Almost Clear **C** = Clear **CC** = Crystal Clear

B2 = 0.0 PPM

Laboratory Analytical Program - Semiannual Sampling

Groundwater Sampling

Project #: NWP21002.A.CS.EV.1

DATE: 4/14/21 Time: 09 : 30 Well ID: MW-02

Sample I.D.	Number of Sample Containers (Circled) Equip-ment	Dupli-cate	Parent Sample	Volume	Type	Pres.	Shipping Date	Analytical Method
Organic Constituents								
TCE, cis 1,2-DCE, PCE, VC	3	3	(3)	40 mL	Glass	HCl		EPA 8260C, no headspace
Metals								
Dissolved Ferrous Iron	Field measurement Only 6.0 mg/L							HACH DR890- Ferrous Iron
Natural Attenuation Monitoring Constituents								
Nitrate, Sulfate, Chloride	1	1	(1)	250 mL	Poly	None		Nitrate (300), Sulfate & Chloride (300.0_28D)
TOC	1	1	(1)	250 mL	Glass	H2S04		SM5310
Carbon Dioxide	Field measurement Only 50 mg/L							HACH CO2 Test Kit
Methane	3	3	(3)	40 mL	Glass	HCl		RSK 175, no headspace
Duplicate ID	Time:							

Comments: LAB pH
MW02 - 041421-0

JACOBS WELL SAMPLING FIELD LOG

Date: 4/15/21

Project #: NWP21002.A.CS.EV.1 **Well I.D.:** MW-03

Field Team: L. TOCHKO + C. TORGERSON

Total Depth (ft) 25.10 (-) DTW (ft) 10.98 (X 0.17 gal\ft) = Well Casing Volume (gal.) = 2.4

Field Conditions: 54°F CLEAR, CALM

Decontamination: Alconox wash, DI wash

PURGE INFORMATION

X	Purge Method:	Transient peristaltic pump with | | new or |X| dedicated polyethylene/teflon-lined tubing
	Purge Method :	Dedicated submersible pump with | | new or | | dedicated polyethylene tubing
	Purge Method:	Dedicated Hydrostar pump with | | new or | | dedicated polyethylene tubing

Pump Suction Depth (ft): ~4 FT TUBING OUT OF WELL Purge water disposal: IDW DRUM

Comments/Exceptions to SAP:

	Purge Volume (gallons)	Specific Conduct. (µS/cm)	Temp. (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Purge Rate (gpm)	DTW (ft)	* Clarity/ Color/Remarks
Target Stabilization Criteria	-	+/- 3%	-	+/- 0.1	+/- 10	+/- 0.3	+/- 10 if > 10 NTU	0.03 - 0.08	-	
Time										
0856	Pump	ON							10.98	
09:28	2.5	342.1	15.9	6.89	-5.2	0.29	33.0	0.078	11.11	Particulate in water, flakey, Cl
09:33	2.7	342.2	15.3	6.64	-17.8	0.17	21.4	0.04	11.04	
09:38	3.0	346.0	15.3	6.62	-19.0	0.15	17.7	0.06	11.04	
09:43	3.2	338.9	15.4	6.65	-18.9	0.23	16.5	0.04	11.02	
:										
:										
:										
:										
:										
09:45	Start Sampling 09:45									
:	End Sampling									

* **VC** = Very cloudy **Cl** = Cloudy **SC** = Slightly Cloudy **VSC** = Very Slightly Cloudy **AC** = Almost Clear **C** = Clear **CC** = Crystal Clear

BZ = 0.0 PPM

Laboratory Analytical Program - Semiannual Sampling

Groundwater Sampling

Project #: NWP21002.A.CS.EV.1

DATE: 4/15/21 Time: 09 :45 Well ID: MW-03

Sample I.D.	Number of Sample Containers (Circled) Equip-ment	Dupli-cate	Parent Sample	Volume	Type	Pres.	Shipping Date	Analytical Method
Organic Constituents								
TCE, cis 1,2-DCE, PCE, VC	3	3	(3)	40 mL	Glass	HCl		EPA 8260C, no headspace
Metals								
Dissolved Ferrous Iron	2.77 mg/L Field measurement Only							HACH DR890- Ferrous Iron
Natural Attenuation Monitoring Constituents								
Nitrate, Sulfate, Chloride	1	1	(1)	250 mL	Poly	None		Nitrate (300), Sulfate & Chloride (300.0_28D)
TOC	1	1	(1)	250 mL	Glass	H2S04		SM5310
Carbon Dioxide	55 mg/L Field measurement Only							HACH CO2 Test Kit
Methane	3	3	(3)	40 mL	Glass	HCl		RSK 175, no headspace
Duplicate ID	Time:							

Comments: MW03-041521-0

JACOBS WELL SAMPLING FIELD LOG

Date: 4/14/21

Project #: NWP21002.A.CS.EV.1 **Well I.D.:** MW-04

Field Team: L. TOMKO + C. TORGERSON

Total Depth (ft) 27.39 (-) DTW (ft) 11.75 (X 0.17 gal\ft) = Well Casing Volume (gal.) = 2.6

Field Conditions: SUNNY, ~70°F

Decontamination: Alconox wash, DI wash

PURGE INFORMATION

X	Purge Method:	Transient peristaltic pump with | | new or |X| dedicated polyethylene/teflon-lined tubing
	Purge Method :	Dedicated submersible pump with | | new or | | dedicated polyethylene tubing
	Purge Method:	Dedicated Hydrostar pump with | | new or | | dedicated polyethylene tubing

Pump Suction Depth (ft): 4 FT TUBING OUT OF WELL Purge water disposal: IDW DRUM

Comments/Exceptions to SAP: pH PROBE NOT WORKING

	Purge Volume (gallons)	Specific Conduct. (µS/cm)	Temp. (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Purge Rate (gpm)	DTW (ft)	* Clarity/ Color/Remarks
Target Stabilization Criteria	-	+/- 3%	-	+/- 0.1	+/- 10	+/- 0.3	+/- 10 if > 10 NTU	0.03 - 0.08	-	
Time										
10:00	PUMP	ON							11.75	
10:40	2.6	294.8	14.7	~~4.22~~ (CT)	44.4	10.04	1.36	0.065	11.76	
10:45	2.9	298.1	14.5	-	33.8	2.16	1.85	0.06	11.76	
10:50	3.2	297.6	14.5	-	33.5	1.09	0.46	0.06	11.76	
10:55	3.4	299.1	14.5	-	32.5	0.66	0.36	0.04	11.76	
11:00	3.6	298.8	14.5	-	32.4	0.51	0.35	0.04	11.76	
11:05	3.8	300.4	14.6	-	31.5	0.41	0.57	0.04	11.76	
:										
:										
:										
:	Start Sampling 11:10									
:	End Sampling 11:15									

* **VC** = Very cloudy **Cl** = Cloudy **SC** = Slightly Cloudy **VSC** = Very Slightly Cloudy **AC** = Almost Clear **C** = Clear **CC** = Crystal Clear

Breathing Zone: 0ppm

Laboratory Analytical Program - Semiannual Sampling

Groundwater Sampling

Project #: NWP21002.A.CS.EV.1

DATE: 4/14/21 Time: 11 : 10 Well ID: MW-04

Sample I.D.	Number of Sample Containers (Circled) Equip-ment	Dupli-cate	Parent Sample	Volume	Type	Pres.	Shipping Date	Analytical Method
Organic Constituents								
TCE, cis 1,2-DCE, PCE, VC	3	3	(3)	40 mL	Glass	HCl		EPA 8260C, no headspace
Metals								
Dissolved Ferrous Iron	0.39mg/L Field measurement Only							HACH DR890- Ferrous Iron
Natural Attenuation Monitoring Constituents								
Nitrate, Sulfate, Chloride	1	1	(1)	250 mL	Poly	None		Nitrate (300), Sulfate & Chloride (300.0_28D)
TOC	1	1	(1)	250 mL	Glass	H2S04		SM5310
Carbon Dioxide	Field measurement Only 50 mg/L							HACH CO2 Test Kit
Methane	3	3	(3)	40 mL	Glass	HCl		RSK 175, no headspace
Duplicate ID	Time:							

Comments: LAB pH
MW04-041421-0

JACOBS WELL SAMPLING FIELD LOG

Date: 4/15/21

Project #: NWP21002.A.CS.EV.1 **Well I.D.:** MW-05

Field Team: L. TOCHKO + C. TORGERSON

Total Depth (ft) 27.84 (-) DTW (ft) 12.05 (X .17 gal\ft) = Well Casing Volume (gal.) = 2.7

Field Conditions: 66°F, CLEAR, CALM

Decontamination: Alconox wash, DI wash

PURGE INFORMATION

X	Purge Method:	Transient peristaltic pump with | | new or X | dedicated polyethylene/teflon-lined tubing
	Purge Method :	Dedicated submersible pump with | | new or | | dedicated polyethylene tubing
	Purge Method:	Dedicated Hydrostar pump with | | new or | | dedicated polyethylene tubing

Pump Suction Depth (ft): ~2 FT TUBING OUT OF WELL Purge water disposal: IDW DRUM

Comments/Exceptions to SAP:

	Purge Volume (gallons)	Specific Conduct. (µS/cm)	Temp. (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Purge Rate (gpm)	DTW (ft)	* Clarity/ Color/Remarks
Target Stabilization Criteria	-	+/- 3%	-	+/- 0.1	+/- 10	+/- 0.3	+/- 10 if > 10 NTU	0.03 - 0.08	-	
Time										
12:07	PUMP	ON							12.05	
12:55	2.8	405.3	16.6	6.29	2.3	0.26	0.65	0.06	12.06	CLEAR, COLORLESS ODORLESS
13:00	3.15	403.9	16.4	6.17	0.4	0.15	0.37	0.07	12.06	
13:05	3.5	404.2	16.5	6.23	-0.5	0.27	0.35	0.07	12.06	
13:10	3.75	403.8	16.6	6.25	-1.1	0.19	0.44	0.05	12.05	
:										
:										
:										
:										
:										
13:15	Start Sampling									
13:20	End Sampling									

* **VC** = Very cloudy **Cl** = Cloudy **SC** = Slightly Cloudy **VSC** = Very Slightly Cloudy **AC** = Almost Clear **C** = Clear **CC** = Crystal Clear

BZ = 0.0 PPM

Laboratory Analytical Program - Semiannual Sampling

Groundwater Sampling

Project #: NWP21002.A.CS.EV.1

DATE: 4/15/21 Time: 13:15 Well ID: MW-05

Sample I.D.	Number of Sample Containers (Circled) Equip-ment	Dupli-cate	Parent Sample	Volume	Type	Pres.	Shipping Date	Analytical Method
Organic Constituents								
TCE, cis 1,2-DCE, PCE, VC	3	3	(3)	40 mL	Glass	HCl		EPA 8260C, no headspace
Metals								
Dissolved Ferrous Iron	0.33 mg/L Field measurement Only							HACH DR890- Ferrous Iron
Natural Attenuation Monitoring Constituents								
Nitrate, Sulfate, Chloride	1	1	(1)	250 mL	Poly	None		Nitrate (300), Sulfate & Chloride (300.0_28D)
TOC	1	1	(1)	250 mL	Glass	H2S04		SM5310
Carbon Dioxide	Field measurement Only 85 mg/L							HACH CO2 Test Kit
Methane	3	3	(3)	40 mL	Glass	HCl		RSK 175, no headspace
Duplicate ID	Time:							
Comments:	MW05-041521-D							

JACOBS WELL SAMPLING FIELD LOG

Date: 4/15/21

Project #: NWP21002.A.CS.EV.1 **Well I.D.:** MW-06

Field Team: L. TOCHKO + C. TORGERSON

Total Depth (ft) 27.84 (-) DTW (ft) 11.50 (X 0.17 gal\ft) = Well Casing Volume (gal.) = 2.8

Field Conditions: 59°F, CLEAR, CALM

Decontamination: Alconox wash, DI wash

PURGE INFORMATION

X	Purge Method:	Transient peristaltic pump with | | new or | X | dedicated polyethylene/teflon-lined tubing
	Purge Method :	Dedicated submersible pump with | | new or | | dedicated polyethylene tubing
	Purge Method:	Dedicated Hydrostar pump with | | new or | | dedicated polyethylene tubing

Pump Suction Depth (ft): ~2 FT TUBING OUT OF THE WELL Purge water disposal: IDW DRUM

Comments/Exceptions to SAP:

	Purge Volume (gallons)	Specific Conduct. (µS/cm)	Temp. (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Purge Rate (gpm)	DTW (ft)	* Clarity/ Color/Remarks
Target Stabilization Criteria	-	+/- 3%	-	+/- 0.1	+/- 10	+/- 0.3	+/- 10 if > 10 NTU	0.03 - 0.08	-	
Time										
10:18									11.50	
11:03	2.9	357.7	16.0	6.49	-25.0	0.21	12.0	0.064	11.50	Small flecks, slightly cloudy
11:08	3.2	385.2	16.0	6.23	-21.1	0.13	9.54	0.06	11.50	Almost clear
11:13	3.5	387.3	16.1	6.21	-23.7	0.26	7.21	0.06	11.50	
11:18	3.75	385.7	16.3	6.23	-20.7	0.18	7.67	0.05	11.50	
:										
:										
:										
:										
:										
:	Start Sampling 11:20									
:	End Sampling									

* **VC** = Very cloudy **Cl** = Cloudy **SC** = Slightly Cloudy **VSC** = Very Slightly Cloudy **AC** = Almost Clear **C** = Clear **CC** = Crystal Clear

BZ = 0.0 PPM

Laboratory Analytical Program - Semiannual Sampling

Groundwater Sampling

Project #: NWP21002.A.CS.EV.1

DATE: 4/15/21 Time: 11 : 20 Well ID: MW06

Sample I.D.	Number of Sample Containers (Circled) Equip-ment	Dupli-cate	Parent Sample	Volume	Type	Pres.	Shipping Date	Analytical Method
Organic Constituents								
TCE, cis 1,2-DCE, PCE, VC	3	(3)	(3)	40 mL	Glass	HCl		EPA 8260C, no headspace
Metals								
Dissolved Ferrous Iron	1.71 mg/L Field measurement Only							HACH DR890- Ferrous Iron
Natural Attenuation Monitoring Constituents								
Nitrate, Sulfate, Chloride	1	(1)	(1)	250 mL	Poly	None		Nitrate (300), Sulfate & Chloride (300.0_28D)
TOC	1	(1)	(1)	250 mL	Glass	H2S04		SM5310
Carbon Dioxide	Field measurement Only 110 mg/L							HACH CO2 Test Kit
Methane	3	(3)	(3)	40 mL	Glass	HCl		RSK 175, no headspace
Duplicate ID MW100-041521-0 Time: 1200								
Comments: MW06-041521-0								

JACOBS WELL SAMPLING FIELD LOG

Date: 4/13/21

Project #: NWP21002.A.CS.EV.1 **Well I.D.:** T45IMW-03S

Field Team: L TOLENO + C. TORGERSON

Total Depth (ft) 30 (-) DTW (ft) 18.48 (X 0.17 gal\ft) = Well Casing Volume (gal.) = 1.96

Field Conditions: 64°F, CLEAR, BREEZY

Decontamination: Alconox wash, DI wash

PURGE INFORMATION

X	Purge Method:	Transient peristaltic pump with | | new or |X| dedicated polyethylene/teflon-lined tubing
	Purge Method :	Dedicated submersible pump with | | new or | | dedicated polyethylene tubing
	Purge Method:	Dedicated Hydrostar pump with | | new or | | dedicated polyethylene tubing

Pump Suction Depth (ft): ~25 FT, ~4 FT TUBING OUT OF WELL Purge water disposal: 1DW DRUM

Comments/Exceptions to SAP: * pH PROBE NOT READING CORRECTLY

	Purge Volume (gallons)	Specific Conduct. (µS/cm)	Temp. (°C)	* pH	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Purge Rate (gpm)	DTW (ft)	* Clarity/ Color/Remarks
Target Stabilization Criteria	-	+/- 3%	-	+/- 0.1	+/- 10	+/- 0.3	+/- 10 if > 10 NTU	0.03 - 0.08	-	
Time										
15:38	PUMP	ON							18.48	
16:10	2	148.2	15.1		69.4	7.16	0.80	0.06	18.56	CLEAR, COLORLESS
16:15	2.4	147.2	14.9		69.8	5.07	0.49	0.08	18.56	
16:20	2.6	148.6	15.0		70.0	5.04	0.31	0.04	18.56	
16:25	2.9	147.9	15.0		70.1	5.15	0.61	0.06	18.56	
:										
:										
:										
:										
:										
16:30	Start Sampling									
16:33	End Sampling									

* **VC** = Very cloudy **Cl** = Cloudy **SC** = Slightly Cloudy **VSC** = Very Slightly Cloudy **AC** = Almost Clear **C** = Clear **CC** = Crystal Clear

PID = 0.0 PPM IN BZ

Laboratory Analytical Program - Semiannual Sampling
Groundwater Sampling
Project #: NWP21002.A.CS.EV.1

DATE: 4/13/21 Time: 16:30 Well ID: T451MW-03S

Sample I.D.	Number of Sample Containers (Circled) Equip-ment	Dupli-cate	Parent Sample	Volume	Type	Pres.	Shipping Date	Analytical Method
Organic Constituents								
TCE, cis 1,2-DCE, PCE, VC	3	3	(3)	40 mL	Glass	HCl		EPA 8260C, no headspace
Metals								
Dissolved Ferrous Iron	Field measurement Only 0.00 mg/L							HACH DR890- Ferrous Iron
Natural Attenuation Monitoring Constituents								
Nitrate, Sulfate, Chloride	1	1	(1)	250 mL	Poly	None		Nitrate (300), Sulfate & Chloride (300.0_28D)
TOC	1	1	(1)	250 mL	Glass	H2S04		SM5310
Carbon Dioxide	Field measurement Only 24mg/L							HACH CO2 Test Kit
Methane	3	3	(3)	40 mL	Glass	HCl		RSK 175, no headspace
Duplicate ID	Time:							

Comments: pH LAB
T451MW03S-041321-0

JACOBS WELL SAMPLING FIELD LOG

Date: 4/13/21

Project #: NWP21002.A.CS.EV.1 **Well I.D.:** T45MW-09

Field Team: L TOLAKO + C TORGERSON

Total Depth (ft) 31.50 (-) DTW (ft) 18.68 (X 0.17 gal\ft) = Well Casing Volume (gal.) = 2.2

Field Conditions: 64°F, CLEAR, WINDY

Decontamination: Alconox wash, DI wash

PURGE INFORMATION

X	Purge Method:	Transient peristaltic pump with | | new or X dedicated polyethylene/teflon-lined tubing
	Purge Method :	Dedicated submersible pump with | | new or | | dedicated polyethylene tubing
	Purge Method:	Dedicated Hydrostar pump with | | new or | | dedicated polyethylene tubing

Pump Suction Depth (ft): ~22 FT, -3 FT TUBING OUT OF WELL Purge water disposal: IDW DRUM

Comments/Exceptions to SAP: ~~*~~ pH PROBE BROKEN

	Purge Volume (gallons)	Specific Conduct. (µS/cm)	Temp. (°C)	* pH	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Purge Rate (gpm)	DTW (ft)	* Clarity/ Color/Remarks
Target Stabilization Criteria	-	+/- 3%	-	+/- 0.1	+/- 10	+/- 0.3	+/- 10 if > 10 NTU	0.03 - 0.08	-	
Time										
14:08	PUMP	ON							18.68	
14:45	2.2	187.4	16.6		54.3	3.27	2.41	0.06	18.70	CLEAR COLORLESS
14:50	2.45	186.7	16.5		53.3	3.24	0.51	0.05	18.70	
14:55	2.6	187.8	16.6		51.5	3.15	0.33	0.03 ~~0.33~~ (1)	18.70	
~~15:00~~ (1)										
:										
:										
:										
:										
:										
15:00	Start Sampling									
15:03	End Sampling									

* **VC** = Very cloudy **Cl** = Cloudy **SC** = Slightly Cloudy **VSC** = Very Slightly Cloudy **AC** = Almost Clear **C** = Clear **CC** = Crystal Clear

PID = 0.0 PPM IN B2

Laboratory Analytical Program - Semiannual Sampling
Groundwater Sampling
Project #: NWP21002.A.CS.EV.1

DATE: 4/13/21 Time: 15 : 00 Well ID: T4S1MW-09

Sample I.D.	Number of Sample Containers (Circled) Equip-ment	Dupli-cate	Parent Sample	Volume	Type	Pres.	Shipping Date	Analytical Method
Organic Constituents								
TCE, cis 1,2-DCE, PCE, VC	3	3	(3)	40 mL	Glass	HCl	4/13/21	EPA 8260C, no headspace
Metals								
Dissolved Ferrous Iron	Field measurement Only 0.11 mg/L							HACH DR890- Ferrous Iron
Natural Attenuation Monitoring Constituents								
Nitrate, Sulfate, Chloride	1	1	(1)	250 mL	Poly	None		Nitrate (300), Sulfate & Chloride (300.0_28D)
TOC	1	1	(1)	250 mL	Glass	H2S04		SM5310
Carbon Dioxide	Field measurement Only 36 mg/L							HACH CO2 Test Kit
Methane	3	3	(3)	40 mL	Glass	HCl		RSK 175, no headspace
Duplicate ID	Time:							

Comments: LAB pH

T4S1MW09 - 041320-0

JACOBS WELL SAMPLING FIELD LOG

Date: 04/14/21

Project #: NWP21002.A.CS.EV.1

Well I.D.: T451MW-22

Field Team: L. TOCHKO + C. TORGERSON

Total Depth (ft) 23 (-) DTW (ft) 14.65 (X 0.17 gal\ft) = Well Casing Volume (gal.) = 1.4

Field Conditions: 61°F, SLIGHTLY HAZY, CALM

Decontamination: Alconox wash, DI wash

PURGE INFORMATION

X	Purge Method:	Transient peristaltic pump with | | new or X | dedicated polyethylene/teflon-lined tubing
	Purge Method :	Dedicated submersible pump with | | new or | | dedicated polyethylene tubing
	Purge Method:	Dedicated Hydrostar pump with | | new or | | dedicated polyethylene tubing

Pump Suction Depth (ft): ~1 FT TUBING OUT OF WELL Purge water disposal: IDW DRUM

Comments/Exceptions to SAP:

	Purge Volume (gallons)	Specific Conduct. (µS/cm)	Temp. (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Purge Rate (gpm)	DTW (ft)	* Clarity/ Color/Remarks
Target Stabilization Criteria	-	+/- 3%	-	+/- 0.1	+/- 10	+/- 0.3	+/- 10 if > 10 NTU	0.03 - 0.08	-	
Time										
11:50	PUMP ON								14.65	
12:25	1.7	228.0	15.5	6.14	76.2	1.34	0.31	0.05	14.66	CLEAR COLORLESS ODORLESS
12:30	1.9	264.3	15.6	6.06	71.4	1.14	0.30	0.04	14.66	
12:35	2.1	264.3	15.5	6.03	66.6	1.46	0.22	0.04	14.66	
12:40	2.45	264.2	15.5	6.00	60.7	1.80	0.19	0.07	14.66	
12:45	2.7	263.5	15.5	6.08	57.0	1.20	0.22	0.05	14.66	
12:50	2.9	261.5	15.4	6.13	52.5	1.18	0.19	0.04	14.66	
12:55	3.1	261.0	15.7	6.14	49.5	1.13	0.21	0.04	14.66	
:										
:										
13:00	Start Sampling									
13:03	End Sampling									

* **VC** = Very cloudy **Cl** = Cloudy **SC** = Slightly Cloudy **VSC** = Very Slightly Cloudy **AC** = Almost Clear **C** = Clear **CC** = Crystal Clear

BZ = 0.0 PPM

Laboratory Analytical Program - Semiannual Sampling
Groundwater Sampling
Project #: NWP21002.A.CS.EV.1

DATE: 4/14/21 Time: 13 :00 Well ID: ~~MW~~ TW T451 MW22

Sample I.D.	Number of Sample Containers (Circled) Equip-ment	Dupli-cate	Parent Sample	Volume	Type	Pres.	Shipping Date	Analytical Method
Organic Constituents								
TCE, cis 1,2-DCE, PCE, VC	3	3	(3)	40 mL	Glass	HCl		EPA 8260C, no headspace
Metals								
Dissolved Ferrous Iron	Field measurement Only 0.02 mg/L							HACH DR890- Ferrous Iron
Natural Attenuation Monitoring Constituents								
Nitrate, Sulfate, Chloride	1	1	(1)	250 mL	Poly	None		Nitrate (300), Sulfate & Chloride (300.0_28D)
TOC	1	1	(1)	250 mL	Glass	H2S04		SM5310
Carbon Dioxide	Field measurement Only 80mg/L							HACH CO2 Test Kit
Methane	3	3	(3)	40 mL	Glass	HCl		RSK 175, no headspace
Duplicate ID	Time:							

Comments: T451MW22-041421-0

JACOBS WELL SAMPLING FIELD LOG

Date: 4/14/21

Project #: NWP21002.A.CS.EV.1 **Well I.D.:** T451MW-23

Field Team: L. TOCHKO + C TORGERSON

Total Depth (ft) 25 (-) DTW (ft) 13.31 (X 0.17 gal\ft) = Well Casing Volume (gal.) = 2

Field Conditions: CLEAR, SLIGHTLY HAZY, BREEZY, 64°F

Decontamination: Alconox wash, DI wash

PURGE INFORMATION

X	Purge Method:	Transient peristaltic pump with | | new or |X| dedicated polyethylene/teflon-lined tubing
	Purge Method :	Dedicated submersible pump with | | new or | | dedicated polyethylene tubing
	Purge Method:	Dedicated Hydrostar pump with | | new or | | dedicated polyethylene tubing

Pump Suction Depth (ft): ~3.5 FT TUBING OUT OF WELL Purge water disposal: IDW DRUM

Comments/Exceptions to SAP:

	Purge Volume (gallons)	Specific Conduct. (µS/cm)	Temp. (°C)	pH	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Purge Rate (gpm)	DTW (ft)	* Clarity/ Color/Remarks
Target Stabilization Criteria	-	+/- 3%	-	+/- 0.1	+/- 10	+/- 0.3	+/- 10 if > 10 NTU	0.03 - 0.08	-	
Time										
13:20	PUMP	ON							13.31	
13:~~45~~ 50	2.2	232.4	~~23.0~~ 15.7	6.81	34.0	1.78	2.27	0.07	13.35	CLEAR COLORLESS ODORLESS
13:55	2.8	226.4	15.7	6.53	28.4	1.55	1.83	0.08	13.34	
14:00	3.16	225.5	15.7	6.50	29.9	1.40	1.07	0.06	13.33	
14:05	3.3	225.4	15.8	6.51	29.9	1.39	0.84	0.04	13.33	
:										
:										
:										
:										
:										
14:10	Start Sampling									
14:13	End Sampling									

* **VC** = Very cloudy **Cl** = Cloudy **SC** = Slightly Cloudy **VSC** = Very Slightly Cloudy **AC** = Almost Clear **C** = Clear **CC** = Crystal Clear

BZ = 0.0 PPM

Laboratory Analytical Program - Semiannual Sampling

Groundwater Sampling

Project #: NWP21002.A.CS.EV.1

DATE: 4/14/21 Time: 14 : 10 Well ID: TH5IMW-23

Sample I.D.	Number of Sample Containers (Circled) Equip-ment	Dupli-cate	Parent Sample	Volume	Type	Pres.	Shipping Date	Analytical Method
Organic Constituents								
TCE, cis 1,2-DCE, PCE, VC	3	3	(3)	40 mL	Glass	HCl		EPA 8260C, no headspace
Metals								
Dissolved Ferrous Iron	0.0 mg/L Field measurement Only							HACH DR890- Ferrous Iron
Natural Attenuation Monitoring Constituents								
Nitrate, Sulfate, Chloride	1	1	(1)	250 mL	Poly	None		Nitrate (300), Sulfate & Chloride (300.0_28D)
TOC	1	1	(1)	250 mL	Glass	H2S04		SM5310
Carbon Dioxide	40 mg/L Field measurement Only							HACH CO2 Test Kit
Methane	3	3	(3)	40 mL	Glass	HCl		RSK 175, no headspace
Duplicate ID	Time:							
Comments:	TH5IMW23-041421-D							

NWP APRIL 2021 GW SAMPLING 4/13/2021

TASK: COLLECT ~~GROUND~~ WATER LEVEL MEASUREMENTS AND BEGIN GROUNDWATER SAMPLING

PERSONNEL: L. TOCHKO + CALEB TORGERSON / JACOBS

WEATHER: 41°F / 64°F CLEAR/AM CLEAR + BREEZY/PM

0730 ON SITE. H+S TAILGATE, TOPIC OTHER VEHICLES DRIVING AROUND THE SITE. LARGE PIPES.

0820 CHECK IN @ PORT OF PDX, HAM GATE SLIP 408 OPENED BEGIN OPENING WELLS. OPEN ALL WELLS BEFORE TAKING WELL MEASUREMENTS.

1015 BEGIN TAKING WELL MEASUREMENTS

WELL ID	TIME	WATER LEVEL (FT BTOC)	NOTES
T4S1MW-10	10:16	7.61	1/2 BOLTS, PLUG LOOSE, RUSTY COVER
T4S1MW-09	10:18	18.68	1/2 BOLTS RUSTED OUT
T4S1MW-03S	10:24	18.48	NO BOLTS, RUSTY LOCK + COVER, WELL CAP GASKET MISSED UP
T4S1MW-25	10:40	14.00	NO BOLTS, RUSTY LOCK + COVER
T4S1MW-17	10:54	15.95	1/2 BOLTS, RUSTY LOCK + COVER
T4S1MW-23	11:05	13.30	0/2 BOLTS
T4S1MW-02S	11:10	17.22	3/3 BOLTS, COVER RUSTY ~~THREADING STRIPPED~~ (M)
T4S1MW-22	11:15	14.85	2/2 BOLTS, THREADING STRIPPED
MW-03	11:28	10.91	3/3 BOLTS, BOLTS DIGNT TIGHTEN LOCK NOT ATTACHED TO WELL CAP
MW-04	11:34	~~12~~ 11.76	3/3 BOLTS, ONE BOLT DOESN'T TIGHTEN
MW-01	11:40	12.28	2/3 BOLTS
MW-06	11:44	11.47	2/3 BOLTS, NO LOCK ON CAP, 1 BOLT WOULDN'T TIGHTEN (M)
MW-02	11:48	9.36	3/3 BOLTS
MW-05	11:52	12.05	3/3 BOLTS

1230 CALIBRATE EQUIPMENT

YSI QUATTRO C102938

				1413 µS/cm		744.3 mmHg
STANDARD	pH=4.0	pH=7.0	pH=10.0	SP. COND	ORP (234 mV	DO 100%
READING	*	*	*	1415	234.0	99.5% = 9.54 mg/L
TEMP °C	*				17°C	

HACH 2100Q C103189

STANDARD (NTU)	5.6	53.6	527
READING (NTU)	5.60	53.5	530

MINI RAE 3000 C102557

STANDARD	FRESH AIR (0.0 ppm)	100 PPM ISOBU
READING	0.0 PPM	100 PPM

ISOBUTYLENE 100.0 PPM LN = 066003 EXPIRES OCT 2021

* pH PROBE NOT CALIBRATING, READING pH BUFFER VALUES ALL AS AROUND 7. CALLED KEVIN MAYER / DWH COULD NOT SOLVE PROBLEM BY TROUBLESHOOTING, WILL SEND REPLACEMENT

4/13/21

NWP APRIL 2021 GW SAMPLING 4/13/2021

1345 CALL KRIS IVARSON / PM TO VERIFY TO HAVE LAB TEST FOR PH AND CONTINUE SAMPLING. PH NOT FIELD RECORDED

1350 SET UP @ T451MW-09 DTW = 18.68 FT BTOC

1500 COLLECT SAMPLE T451MW09-041321-0

Fe(II) = 0.11 mg/L CO_2 = 36 mg/L

1530 SET UP @ T451MW-03S DTW = 18.48 FT BTOC

1630 COLLECT SAMPLE T451MW03S-041321-0

Fe(II) = 0 mg/L CO_2 = 24 mg/L

1705 CHECK OUT WITH PORT SECURITY + OFFSITE

1735 DROP OFF COOLER @ FED-EX

Jana Peck 4/13/2021

NWP APRIL 2021 GW SAMPLING

4/14/21

TASK: CONTINUE GW SAMPLING

PERSONNEL: LAURA TOLITKO + CALEB TORGERSON

WEATHER: 72°F/43°F AM - CLEAR + CALM PM CLEAR, SLIGHT BREEZE

0730 ON SITE H+S TAILGATE FIRE HAZARD + FIRE EXTINGUISHERS

0750 DROP OF ~10 GALS IDW INTO MW01-MW04, PORT WELLS IDW DRUM. ~~20~~ 15 GAL TOTAL.

0810 SET UP @ MW-02 DTW = 9.38 FT BTOC

CALIBRATE EQUIPMENT

YSI QUATTRO C102938 240mV 774.3mmHg NO pH

STANDARD	SP COND 1413 µS/cm	ORP 13.1°C	DO 100% SAT
READING	1413	239.7mV	97.3%

HACH 2100Q C103189

STANDARD	5.6	53.6	527
READING	5.55	53.4	529

MINI RAE 3000 C102557

STANDARD	FRESH AIR 0 PPM	100 PPM
READING	0.0 ppm	

SAME LOT AS YESTERDAY

0930 COLLECT SAMPLE MW02-041421-0

Fe(II) = 6.0 mg/L 3.0 mg/L @ 1:1 DILUTION WITH DIW CO_2 = 50 mg/L

0955 SET UP @ MW-04 DTW = 11.75 FT BTOC

1110 COLLECT SAMPLE MW04-041421-0

Fe(II) = 0.39 mg/L CO_2 = 70 mg/L

1140 CHECK OUT @ NWP

1145 CHECK IN W/ PDX SECURITY AND SET UP @ T4S1MW-22

DTW = 14.65 FT BTOC

CALIBRATE YSI QUATTRO C103144 794.3mmHg

STANDARD	pH=4.0	pH=7.0	pH=10.0	SP COND 1413 µS/cm	ORP @ 17°C 240mV	DO 100%
READING	3.99	7.01	10.03	1413	233.9mV	104.3% 8.93 mg/L

1300 COLLECT SAMPLE T4S1MW22-041421-0

Fe(II) = 0.02 mg/L CO = 80 mg/L

1315 SET UP @ T4S1MW23 DTW = 13.31 FT BTOC

1410 COLLECT SAMPLE T4S1MW23-041421-0

Fe(II) = 0.0 mg/L CO = 40 mg/L

1450 CHECK OUT OF PORT SECURITY + OFFSITE

1515 DROP OFF COOLER @ FEDEX

Laura Tolitko 4/14/21

NWP APRIL 2021 GW SAMPLING 4/15/21

TASK: CONTINUE GW SAMPLING
PERSONNEL: LAURA TOCITKO + CALEB TORGERSON
WEATHER: 75°F / 46°F, AM CLEAR PM CLEAR

0700 ON SITE. HTS TAIL GATE. LIFT PROPERLY, SUN EXPOSURE
0715 DROP OFF ~15 GALLONS IDW. WATER UP TO 1ST RING.
MW01-MW04 + PORT WELL IDW DRUM ~25 GAL
0720 SET UP @ MW-01 DTW = 12.29 FT BTOC
CALIBRATE EQUIPMENT
YSI QUATTRO C103144

STANDARD	pH=4.0	pH=7.0	pH=10.0	1413 µS/cm SP Cond	13.7°C ORP 240.0mV	793.7mmHg DO 100%
READING	4.12	7.02	10.06	1413	240.1mV	103.1

HACH 2100Q C103189

	STANDARD	5.6	53.6	527	
	READING	5.77	53.2	527	

MINIRAE 3000 C102557

STANDARD	FRESHAIR 0.0PPM	100 PPM ISOBUTYLENE	SAME INFO AS 4/13/21
READING	0.0PPM	100.4	

0835 COLLECT SAMPLE MW01-041521-0
Fe(II) = 0.0 mg/L CO_2 = 90 mg/L
0855 SET UP @ MW-03 DTW = 10.98 FT BTOC
0945 COLLECT SAMPLE MW03-041521-0
Fe(II) = 2.77 mg/L CO_2 = 55 mg/L
1015 SET UP @ MW-06 DTW = 11.50 FT BTOC
1120 COLLECT SAMPLE MW06-041521-0
Fe(II) = 1.71 mg/L CO_2 = 110 mg/L 1:1 DILUTION DIW:SAMPLE 55mg/L
COLLECT FIELD DUPE MW100-041521-0 @ 12:00
1205 SETUP @ MW-05 DTW = 12.05 FT BTOC
1315 COLLECT SAMPLE MW05-041521-0
Fe(II) = 0.33 mg/L CO_2 = 85mg/L
1342 DROP OFF IDW
~8 gal FROM MW-05 + MW-06. ~1/3 FULL ~16 GAL
~7 GAL FROM MW-01 + MW-03 ~2/3 FULL ~34 GAL MW01-MW04 + PORT PDX WELLS. + ONE MW01-04, PORT PDX ON SITE FROM LAST EVENT
3 DRUMS TOTAL. HAD ISSUES GETTING DRUM RINGS BACK ON
1450 CHECK OUT @ NWP. OFF SITE
1515 DROP OFF COOLER @ FEDEX

Laura Tocitko
4/15/21

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: LAURA TOLIKO	Lab PM: Matlock, Pauline M	Carrier Tracking No(s):	COC No: 580-42614-13620.3
Client Contact: ~~Shannon Fitzsimmons~~ BERNICE KIDD	Phone: 425-891-2855	E-Mail: pauline.matlock@eurofinset.com	State of Origin:	Page: ~~Page 3 of 3~~ 1 OF 1
Company: Jacobs Engineering Group, Inc.	PWSID:			Job #:
Address: 2020 SW Fourth Ave, 3rd Floor	Due Date Requested:			
City: Portland	TAT Requested (days): STD			
State, Zip: OR, 97201	Compliance Project: Δ Yes Δ No			
Phone: 503-872-4666(Tel)	PO #: 3600021519			
Email: ~~Shannon.Fitzsimmons@jacobs.com~~ BERNICE.KIDD@JACOBS.COM	WO #:			
Project Name: Northwest Pipe Company GW 2021	Project #: 58016285			
Site: NWP	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	5310C - TOC	RSK_175 - Methane	300.0_28D - Chloride, Sulfate	300_48HR - Nitrate, NO3 as N	SUBCONTRACT (EMAX)- TCE, cis 1,2-DCE, PCE, Vinyl Chloride (8260B_SIM)	pH							Total Number of containers	Special Instructions/Note:
			Preservation Code:					A	N	S	A										
T451MW09-041321-0	04/13/21	1500	G	Water	N	N	1	3	1	1	3	X								8	
T451MW03S-041321-0	04/13/21	1630	G	Water	N	N	1	3	1	1	3	X								8	
TB-041321-0	04/13/21	0800	G	Water	N	N					3									6	
				Water																	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
LAURA TOLIKO	4/13/21 17:30	JACOBS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: LAURA TOCHKO	Lab PM: Matlock, Pauline M	Carrier Tracking No(s):	COC No: 580-42614-13620.3
Client Contact: ~~Shannon Fitzsimmons~~ BERNICE KIDD	Phone: 425-891-2855	E-Mail: pauline.matlock@eurofinset.com	State of Origin:	Page: ~~Page 3 of 3~~ 1 OF 1
Company: Jacobs Engineering Group, Inc.	PWSID:			Job #:
Address: 2020 SW Fourth Ave, 3rd Floor	Due Date Requested:			
City: Portland	TAT Requested (days): STD			
State, Zip: OR, 97201	Compliance Project: Δ Yes Δ No			
Phone: 503-872-4666(Tel)	PO #: 3600021519			
Email: BERNICE.KIDD@JACOBS.com Shannon.Fitzsimmons@jacobs.com	WO #:			
Project Name: Northwest Pipe Company GW 2021	Project #: 58016285			
Site: NWP	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	5310C - TOC	RSK_175 - Methane	300.0_28D - Chloride, Sulfate	300_48HR - Nitrate, NO3 as N	SUBCONTRACT (EMAX)- TCE, cis 1,2-DCE, PCE, Vinyl Chloride (8260B_SIM)	H	Total Number of containers	Special Instructions/Note:
			Preservation Code:					A	N	S	A			
MW02 - 041421-0	04/14/21	0930	G	Water			1	3	1	1	3	1	8	
MW04 - 041421-0		1110		Water			1	3	1	1	3	1	8	
T4S1MW22 - 041421-0		1300		Water			1	3	1	1	3		8	
T4S1MW23 - 041421-0		1410		Water			1	3	1	1	3		8	
TB - 041421-0	↓	0800	↓	WATER							3		3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
LAURA TOCHKO	4/14/21 1530	JACOBS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: LAURA TOCHKO	Lab PM: Matlock, Pauline M	Carrier Tracking No(s):	COC No: 580-42614-13620.3
Client Contact: ~~Shannon Fitzsimmons~~ BERNICE KIDD	Phone: 425-891-2855	E-Mail: pauline.matlock@eurofinset.com	State of Origin:	Page: ~~Page 3 of 3~~ 1 OF 1
Company: Jacobs Engineering Group, Inc.	PWSID:			Job #:
Address: 2020 SW Fourth Ave, 3rd Floor	Due Date Requested:			
City: Portland	TAT Requested (days): STD			
State, Zip: OR, 97201	Compliance Project: Δ Yes Δ No			
Phone: 503-872-4666(Tel)	PO #: 3600021519			
Email: BERNICE.KIDD@JACOBS.com ~~Shannon.Fitzsimmons@jacobs.com~~	WO #:			
Project Name: Northwest Pipe Company GW 2021	Project #: 58016285			
Site: NWP	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	5310C - TOC	RSK_175 - Methane	300.0_28D - Chloride, Sulfate	300_48HR - Nitrate, NO3 as N	SUBCONTRACT (EMAX)- TCE, cis 1,2-DCE, PCE, Vinyl Chloride (8260B_SIM)	Total Number of containers	Special Instructions/Note:
			Preservation Code:					A	N	S	A		
MW01-041521-0	04/15/21	0835	GRAB	Water	N	N	1	3	1	1	3	8	
MW03-041521-0		0945		Water			1	3	1	1	3	8	
MW06-041521-0		1120		Water			1	3	1	1	3	8	
MW05-041521-0		1315		Water			1	3	1	1	3	8	
TB-041521-0	↓	0800	↓	WATER							6	6	
MW100-041521-0	4/15/21	1200	G	WATER			1	3	1	1	3	8	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: LAURA TOCHKO	4/15/21 1530	JACOBS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019