

Appendix L

**Lab Certificates, Field Sampling Notes,
and Field Duplicate Quality Assessment**

Surface Water Monitoring Field Data January - Dry

Date: 11-Jan-21

Weather: Sun & Cloud - Calm - High of 5 degrees

SAMPLED BY: B. Mullin & D. Taylor

SAMPLE LOCATION	SAMPLE DATE	CONDUCTIVITY (uS)	pH	WATER TEMP °C	AIR TEMP °C	DISSOLVED OXYGEN (ppm)	COMMENTS	Lab Report #
T-1R	11-Jan-21	5260	7.95	8.8	-3	DO Meter error	POND HIGH - BLACKISH	C108099
T-3R	NO SAMPLE OBTAINED - NO DISCHARGE FROM SW POND = NO FLOW							C108099
T-3A	11-Jan-21	3130	7.75	4.6	-2	DO Meter error	POND HIGH - MURKY THIN ICE	C108099
T-15R	11-Jan-21	1411	8.06	10.6	-2	10.80	GOOD VISIBLE FLOW - CLEAR - GROWTH VEG. GROWTH	C108099
T-35	T-3A							C108099

Surface Water Monitoring Field Data
February - April Freshet

Date: 22-Mar-21

Weather: Sunny - Milder weather recently - above normal spring temperatures
 Low minus 3 to High 20 degrees

SAMPLED BY: B. Mullin & D. Taylor

SAMPLE LOCATION	SAMPLE DATE	CONDUCTIVITY (uS)	pH	WATER TEMP °C	AIR TEMP °C	DISSOLVED OXYGEN (ppm)	COMMENTS	Lab Report #
T-1R	22-Mar-21	3340	7.74	4.4	-2	2.27	POND LEVEL HIGH - DARK BLACK COLOUR - VISIBLE OIL SHEEN ON TOP OF WATER	C176697
T-3R	22-Mar-21	1471	12.17	7.8	16	6.52	CULVERT DRAIN WAS FULL OF WATER FROM ROAD RUNOFF AND SNOW MELT	C176697
T-3A	22-Mar-21	2520	7.84	11.1	15	7.54	MEDIUM LEVEL - SLIGHTLY MURKY	C176697
T-12	22-Mar-21	1267	8.96	11.6	13	19.32	CLEAR - MODERATE FLOW	C176697
T-13	22-Mar-21	1395	8.68	5.2	1	15.49	CLEAR - MODERATE FLOW	C176697
T-15R	22-Mar-21	1243	7.97	9.9	15	8.93	GOOD VISIBLE FLOW - VEGETATION - CLEAR	C176697
T-16	22-Mar-21	1375	8.29	3.8	0	13.22	CLEAR - MODERATE FLOW	C176697
T-21	22-Mar-21	1203	8.57	5.6	2	13.60	CLEAR - MODERATE FLOW	C176697
T-23	22-Mar-21	1069	8.60	6.6	3	12.30	CLEAR - MODERATE FLOW	C176697
T-28	22-Mar-21	1362	8.53	4.5	2	13.45	CLEAR - MODERATE FLOW	C176697
T-29	22-Mar-21	1261	8.93	11.3	13	20 + - over range	CLEAR - MODERATE FLOW	C176697
T-30	22-Mar-21	1301	8.96	12.2	13	20 + - over range	CLEAR - MODERATE FLOW	C176697
T-31	22-Mar-21	1202	8.88	9.6	9	20 + - over range	CLEAR - GOOD FLOW	C176697
T-32	22-Mar-21	1415	8.53	7.2	8	14.84	CLEAR - MODERATE FLOW	C176697
North Sump	22-Mar-21	1686	8.50	10.5	16	12.02	MEDIUM LEVEL - MURKY	C176697
SWM Pond 1 - (TS-1)	22-Mar-21	485	8.65	11.0	15	12.58	POND LEVEL HIGH - SLIGHTLY MURKY	C176697
T-35	NORTH SUMP							C176697

Surface Water Monitoring Field Data April Dry

Date:

Weather:

Dry sampling event not completed due to very wet conditions. Spring Rain was completed this month

SAMPLED BY:

SAMPLE LOCATION	SAMPLE DATE	CONDUCTIVITY (uS)	pH	WATER TEMP °C	AIR TEMP °C	DISSOLVED OXYGEN (ppm)	COMMENTS	Lab Report #
T-1R								
T-3R								
T-3A								
T-12								
T-15R								
T-35								

Surface Water Monitoring Field Data April - May Spring Rain

Date: **30-Apr-21**

Weather: **Exteme High Winds, Sun/Cloud - Heavy Rainfall the past couple of days**

SAMPLED BY:

SAMPLE LOCATION	SAMPLE DATE	CONDUCTIVITY (uS)	pH	WATER TEMP °C	AIR TEMP °C	DISSOLVED OXYGEN (ppm)	COMMENTS
T-1R	30-Apr-21	5060	8.79	15.5	10	1.65	POND LEVEL HIGH BLACKISH TINGE
T-3R	NO SAMPLE OBTAINED - NO DISCHARGE FROM SW POND = NO FLOW						
T-3A	30-Apr-21	3030	7.87	13.6	7	10.48	MODERATE LEVEL - BROWN IN COLOUR
T-12	30-Apr-21	1364	8.66	12.6	7	16.45	GOOD FLOW VEGETATION GROWTH
T-13	30-Apr-21	1396	8.54	10.9	7	12.71	MODERATE FLOW - VEGETATION AND AGLAE GROWTH
T-15R	30-Apr-21	1360	7.99	11.1	7	8.30	MODERATE FLOW GOOD VEGETATION GROWTH
T-16	30-Apr-21	1149	8.14	11.0	6	8.45	MODERATE FLOW - VEGETATION AND AGLAE GROWTH
T-29	30-Apr-21	1347	8.67	12.6	7	16.79	MODERATE FLOW - CLEAR
T-30	30-Apr-21	1435	8.65	12.4	7	15.10	MODERATE FLOW - MURKY BROWN IN COLOUR
T-31	30-Apr-21	1488	8.62	12.5	7	15.75	MODERATE FLOW GOOD VEGETATION GROWTH
T-32	30-Apr-21	1543	8.38	11.5	7	12.72	MODERATE FLOW GOOD VEGETATION GROWTH
SWM Pond 1 - (TS-1)	30-Apr-21	525	9.19	14.1	7	13.04	POND LEVEL LOW WITH ALAGE GROWTH
T-35	T-16						

Surface Water Monitoring Field Data
June - Sept Summer Rain

Date: 2-Jul-21

Weather: Sun Cloudy, Hot, Humid, high of 23
 Recent Heavy Rain Events

SAMPLED BY: C. Richardson, B. Mullin, D. Taylor

SAMPLE LOCATION	SAMPLE DATE	CONDUCTIVITY (uS)	pH	WATER TEMP °C	AIR TEMP °C	DISSOLVED OXYGEN (ppm)	COMMENTS	Lab Report #
T-1R	2-Jul-21	6060	9.33	21	20	1.36	POND LEVEL LOW - MURKY BLACK VEGETATION GROWTH	C114695
T-3R	NO SAMPLE OBTAINED - NO DISCHARGE FROM SW POND = NO FLOW							C114695
T-3A	2-Jul-21	2950	8.26	25	20	11.53	POND LEVEL MODERATE - MURKY BROWN	C114695
T-12	2-Jul-21	980	8.37	20	21	10.40	MODERATE FLOW - SOME ALGAE AND VEGETATION	C114695
T-13	2-Jul-21	1004	8.54	19.4	21	9.76	GOOD FLOW - LOTS OF ALGAE AND VEGETATION	C114695
T-15R	2-Jul-21	911	7.85	19.7	22	6.26	MODERATE FLOW - LOTS OF VEGETATION AND ALGAE	C114695
T-16	2-Jul-21	967	8.42	20.3	19	9.10	GOOD FLOW - LOTS OF VEGETATION AND ALGAE	C114695
T-29	2-Jul-21	971	8.39	20.4	21	10.22	GOOD FLOW - SOME VEGETATION AND ALGAE	C114695
T-30	2-Jul-21	1031	8.51	21.1	22	10.37	GOOD FLOW - MURKY WATER LOTS OF VEGETATION AND ALGAE	C114695
T-31	2-Jul-21	1054	8.55	20.4	20	11.26	GOOD FLOW - LOTS OF VEGETATION AND ALGAE	C114695
T-32	2-Jul-21	1069	8.43	19.1	19	8.65	GOOD FLOW - LOTS OF VEGETATION AND ALGAE	C114695
SWM Pond 1 - (TS-1)	2-Jul-21	408	9.83	26.0	20	8.12	POND LEVEL LOW - LOTS OF ALGAE GROWTH AND VEGETATION GROWTH	C114695
T-35	Duplicate TS-1							C114695

Surface Water Monitoring Field Data

June - August - Summer Dry

Date: 5-Aug-21

Weather: Sunny, Humid, Hot, High of 27

Fairly dry all week

Please note: June and July - lots of rain - July and August Dry combined to facilitate and meet all sampling requirements as per the ECA.

SAMPLED BY: C. Richardson, B. Mullin, D. Taylor

SAMPLE LOCATION	SAMPLE DATE	CONDUCTIVITY (uS)	pH	WATER TEMP °C	AIR TEMP °C	DISSOLVED OXYGEN (ppm)	COMMENTS	Lab Report #
T-1R	5-Aug-21	5580	8.54	28.7	27	1.4	POND LEVEL HIGH - MURKY BLACK AND GREY WITH VEGETATION GROWTH	C1M2489
T-3R	NO SAMPLE OBTAINED - NO DISCHARGE FROM SW POND = NO FLOW/DRY							C1M2489
T-3A	5-Aug-21	3280	8.12	29.1	27	12.95	POND LEVEL MEDIUM-LOW - LOTS OF ALGAE AND VEGETATION GROWTH	C1M2489
T-12	5-Aug-21	1226	8.47	17.9	27	12.42	LOW FLOW - LOTS OF ALGAE AND VEGETATION GROWTH	C1M2489
T-13	5-Aug-21	1224	8.39	20.4	24	9.7	SHALLOW LOW FLOW - SOME VEGETATION AND ALGAE GROWTH	C1M2489
T-15R	5-Aug-21	1280	7.73	16.6	27	6.2	LOW FLOW - LOTS OF ALGAE AND VEGETATION GROWTH	C1M2489
T-16	5-Aug-21	1296	8.44	20.2	23	11.11	VERY LOW FLOW - LOTS OF VEGETATION AND ALGAE GROWTH	C1M2489
T-21	5-Aug-21	1223	8.29	19.9	24	9.2	SHALLOW LOW FLOW - LOTS OF VEGETATION AND ALGAE GROWTH	C1M2489
T-23	5-Aug-21	1161	8.42	17.6	25	10.3	SHALLOW LOW FLOW - LOTS OF VEGETATION AND ALGAE GROWTH	C1M2489
T-28	5-Aug-21	1250	8.27	20.5	24	9.2	SHALLOW LOW FLOW - LOTS OF VEGETATION AND ALGAE GROWTH	C1M2489
T-29	5-Aug-21	1170	8.60	19.0	27	12.85	LOW FLOW - LOTS OF ALGAE AND VEGETATION GROWTH	C1M2489
T-30	5-Aug-21	1275	8.45	20.1	26	10.8	LOW FLOW - LOTS OF ALGAE AND VEGETATION GROWTH	C1M2489
T-31	5-Aug-21	1280	8.57	20.9	26	14.65	SHALLOW MODERATE FLOW - SOME VEGETATION AND ALGAE GROWTH	C1M2489
T-32	5-Aug-21	1346	7.94	18.6	26	9.1	LOW FLOW LOTS OF VEGETATION AND SOME ALGAE GROWTH	C1M2489
North Sump	5-Aug-21	3110	8.10	31.0	27	10.15	POND LEVEL LOW - LOTS OF VEGETATION AND SOME ALGAE GROWTH	C1M2489
SWM Pond 1 - (TS-1)	5-Aug-21	406	10.39	33.7	27	10.58	POND LEVEL LOW - ALGAE OVERGROWTH AND LOTS OF VEGETATION GRWOTH	C1M2489
T-35	DUPLICATE OF T-31							C1M2489

Surface Water Monitoring Field Data September Dry

Date: 20-Sep-21

Weather: Calm, Clear, Sunny - Wet summer but dry current conditions

SAMPLED BY: B. Mullin & C. Richardson

SAMPLE LOCATION	SAMPLE DATE	CONDUCTIVITY (uS)	pH	WATER TEMP °C	AIR TEMP °C	DISSOLVED OXYGEN (ppm)	COMMENTS	Lab Report #
T-1R	20-Sep-21	5970	9.43	18.0	14.0	1.02	POND LEVELHIGH - BLACK IN COLOUR	C1R2519
T-3R	20-Sep-21	964	7.94	21.5	17.0	6.33	ACTIVE FLOW - CLEAR WATER	C1R2519
T-3A	20-Sep-21	2830	7.81	22.3	17	6.15	POND LEVEL HIGH - LOTS OF VEGETATION AND ALGAE GROWTH	C1R2519
T-15R	20-Sep-21	1118	8.17	19.5	17	7.63	MODERATE FLOW - CLEAR, VEGETATION GROWTH, SOME GARBAGE LITTER & DEBRIS	C1R2519
T-35	Duplicate for T-3A							C1R2519

Form SW-01-H

Apr-07

Surface Water Monitoring Field Data October Dry

Date:

Weather:

Dry sampling event not completed due to very wet conditions.
Extensive Rainfall over the summer into fall this year.

SAMPLED BY:

SAMPLE LOCATION	SAMPLE DATE	CONDUCTIVITY (uS)	pH	WATER TEMP °C	AIR TEMP °C	DISSOLVED OXYGEN (ppm)	COMMENTS	Lab Report #
T-1R								
T-3R								
T-3A								
T-12								
T-13								
T-15R								
T-16								
T-29								
T-30								
T-31								
T-32								
North Sump								
T-35								

Surface Water Monitoring Field Data
October - December Fall Rain

Date: 5-Oct-21

Weather: Cloudy, misty rain, foggy, after long rain yesterday - 16 C

SAMPLED BY: B. Mullin, D. Taylor, & C. Richardson

SAMPLE LOCATION	SAMPLE DATE	CONDUCTIVITY (uS)	pH	WATER TEMP °C	AIR TEMP °C	DISSOLVED OXYGEN (ppm)	COMMENTS	Lab Report #
T-1R	5-Oct-21	4340	7.51	14	14	3.15	POND BLACK IN COLOUR - POND LEVEL HIGH	C1T0256
T-3R	5-Oct-21	823	7.77	14	14	6.13	GOOD VISIBLE FLOW IN CULVERT MANHOLE	C1T0256
T-3A	5-Oct-21	2470	7.69	17	14	5.62	POND LEVEL HIGH - BEIGE COLOUR, VEGETATION GROWTH	C1T0256
T-12	5-Oct-21	830.8	8.02	18	16	7.67	HIGH FLOW - LOTS OF VEGETATION AND SOME ALGAE	C1T0256
T-13	5-Oct-21	789.2	8.42	18.2	16	8.57	HIGH FLOW - SOME VEGETATIO AND ALGAE	C1T0256
T-15R	5-Oct-21	802	7.82	17	14	8.02	RAPID FLOW FROM SW DRAIN OUTLET, VEGETATION GROWTH	C1T0256
T-16	5-Oct-21	998.4	8.31	19.2	16	8.30	HIGH FLOW - LOTS OF VEGETATION AND ALGAE GROWTH	C1T0256
T-29	5-Oct-21	818.5	8.04	18	16	7.98	HIGH FLOW - LOTS OF VEGETATION AND ALGAE GROWTH	C1T0256
T-30	5-Oct-21	844.8	8.06	18.1	16	7.47	MODERATE FLOW - LOTS OF VEGETATION AND ALGAE GROWTH	C1T0256
T-31	5-Oct-21	894.3	8.06	18.4	16	7.91	HIGH FLOW - LOTS OF VEGETATION AND ALGAE GROWTH	C1T0256
T-32	5-Oct-21	912.9	8.13	18.4	16	8.13	HIGH FLOW - SOME VEGETATIO AND ALGAE GROWTH	C1T0256
SWM Pond 1 (TS-1)	5-Oct-21	923	7.75	17	14	3.90	POND LEVEL HIGH - LOTS OF VEGETATION GROWTH - D.O. READING IS LOW MOST LIKELY DUE TO THE POND CONTAINING MASSIVE AMOUNTS OF VISIBLE ALGAE GROWTH	C1T0256
T-35	Duplicate of T-1R							C1T0256

Surface Water Monitoring Field Data NOVEMBER DRY

Date: 8-Nov-21

Weather: Sunny Mild Windy - High 17

SAMPLED BY: Dan & Cooper

SAMPLE LOCATION	SAMPLE DATE	CONDUCTIVITY (uS)	pH	WATER TEMP °C	AIR TEMP °C	DISSOLVED OXYGEN (ppm)	COMMENTS	Lab Report #
T-1R	8-Nov-21	4990	9.97	13.4	14	2.28	Dark grey, pond is high	C1X1064
T-3R	8-Nov-21	1384	8.07	11.9	14	4.70	Good visible flow into manhole	C1X1064
T-3A	8-Nov-21	1802	8.10	12.6	14	7.95	Pond level is high, good vegetation and algae growth	C1X1064
T-15R	8-Nov-21	1141	8.24	13.8	14	7.91	Moderate flow, good vegetation	C1X1064
T-35	T-15R							

**GFL ENVIRONMENTAL
GROUNDWATER PRE-PURGE**

MONITOR	VOLUME	PURGE DATE	Time	FIELD CHEMISTRY			EMPTY	COMMENTS
				pH	COND.	TEMP.		
31-II	1	12-Jan	PM	10.25	360.2	3.2	Y	CLEAR
33-II	7	12-Jan	PM	7.70	3390	11.2	Y	DARK GREY
42-I	2	12-Jan	AM	7.16	3510	3.7	Y	CLEAR
42-II	8	12-Jan	AM	6.85	8100	4.5	Y	CLEAR
42-III	17	12-Jan	AM	7.22	6270	5.1	Y	CLEAR
46-IIR	14	12-Jan	AM	7.18	3170	5.2	Y	CLEAR
46-IIIR	5	12-Jan	AM	7.25	2390	3.8	Y	MURKY BROWN
57-II	8	12-Jan	PM	13.40	4590	4.9	Y	CLEAR
68-III	16	12-Jan	PM	10.08	11610	5.5	Y	CLEAR
68-IV	4	12-Jan	PM	8.08	1075	4.6	Y	CLEAR
72-I								NO ACCESS DUE TO CONSTRUCTION AND EXCAVATION

MONITOR	VOLUME	PURGE DATE	Time	FIELD CHEMISTRY			EMPTY	COMMENTS
				pH	COND.	TEMP.		
72-III								NO ACCESS DUE TO CONSTRUCTION AND EXCAVATION
76-I	11	14-Jan	AM	6.36	116000	11.0	N	CLOUDY LIGHT BROWN
77-I								NO ACCESS DUE TO CONSTRUCTION AND EXCAVATION
77-II								NO ACCESS DUE TO CONSTRUCTION AND EXCAVATION
P8-I	2	14-Jan	AM	6.24	19560	10.0		DARK GREY - JUST ENOUGH TO FILL TUBING
P9-I	13	14-Jan	AM	7.16	14500	11.1		CLOUDY WHITE
35-VII	9	14-Jan	AM	7.88	4180	11.4		CLEAR

Apr-09
Revision 02

GFL ENVIRONMENTAL
BLIND DUPLICATES LOG

Year: 2021

East Landfill Locations

Fictitious Sample No	January MONITOR	April MONITOR	July MONITOR	October MONITOR
3-I	47-IIR			
3-II	56-I			
11-I	48-I			
11-II	60-IV			
11-III	61-I			
12-I	29-I			
12-II	51-IV			
12-IV	40-III			

C127406
C123457
C127406
C127406
C125935
C124617
C127406
C124617

West Landfill Locations

Fictitious Sample No #	January MONITOR	April MONITOR	July MONITOR	October MONITOR
2-I	75-I			
2-II	P9-II			
2-III	62-II			
2-IV	68-I			
4-I	67-I			
4-II	47-IV			
4-III	P11-III			
4-IV	P4-II			

C124617
C123457
C125935
C122097
C124617
C131308
C123457
C122097

GFL ENVIRONMENTAL

Purging and Sampling Field Form - 1ST QUARTER

Month: January-21

Daily Weather: Jan 25 - Sun Clear Mild Calm - High 0

Feb 1 - Overcast Flurries Overcast - High minus 4

Jan 26 - Heavy Snowfall Wet Slippery High minus 2

Feb 2 - Sunny Cold N Wind - High 0

Jan 27 - Mostly Sunny Calm - High minus 2

Feb 3 - Sunny Windy Milder - High Plus 2

Jan 28 - Sunny Moderate Winds - High minus 7

Jan 29 - Overcast Strong Winds - High minus 5

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH		CALCULATION			PREPURGE				SAMPLE					COMMENTS	
				WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND		TEMP
9-I	8.37	12.20	1	3.03	\	4	21-Jan-21	PM	7.28	2050	2-Feb-21	PM	BAILER	7.45	2160	6.8	DARK BROWN MURKY
14-I	3.57	10.30	1	5.32	\	3X	27-Jan-21	AM	7.23	1700	27-Jan-21	AM	MANUAL PUMP	7.17	1640	8.5	CLEAR
29-I	8.85	11.38	1	5.06	15.2	3X DRY	27-Jan-21	AM	7.41	4970	27-Jan-21	AM	MANUAL PUMP	7.48	4840	12.7	DUPLICATE - 12-I - CLEAR
29-II	2.06	4.93	1	5.74	\	3X DRY	27-Jan-21	AM	7.74	2530	27-Jan-21	AM	MANUAL PUMP	7.84	2430	8.3	BEIGE TINGE - SEDIMENT
29-IV	10.46	15.45	2	9.98	29.9	3X	27-Jan-21	AM	7.34	4740	27-Jan-21	AM	MANUAL PUMP	7.37	4710	12.5	CLEAR
30-I	10.84	14.79	2	7.90	23.7								MANUAL PUMP				NO VOLUME? - REPLACED TUBING AND CHECK VALVE STILL ISSUES
30-II	9.58	11.10	1	3.04	9.1	3X DRY	28-Jan-21	AM	9.44	2420	28-Jan-21	AM	MANUAL PUMP	10.60	2220	9.8	SLIGHTLY MURKY

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE					SAMPLE					COMMENTS	
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP		
31-I	10.21	14.63	2	8.84	\	1X DRY	15-Jan-21	PM	9.68	18500	25-Jan-21	PM	MANUAL PUMP	9.95	12000	10.1	CLEAR
31-II	7.21	9.23	1	4.04	12.1	1	12-Jan-21	PM	10.25	360.2	25-Jan-21	PM	MANUAL PUMP	9.20	866	3.2	CLEAR
31-III	8.81	13.20	1	8.78	26.3	3X	15-Jan-21	PM	8.85	4830	25-Jan-21	PM	MANUAL PUMP	9.11	4520	10.3	CLEAR
32-I		14.95	2	29.90	\	DETACHED					MANUAL PUMP						
32-II	9.60	10.27	1	1.34	4.0	1X DRY	25-Jan-21	PM	6.67	2090	28-Jan-21	AM	MANUAL PUMP	9.00	4070	10.2	CLEAR
33-I	11.32	12.66	1	2.68	\	3X DRY	28-Jan-21	AM	8.29	3190	28-Jan-21	AM	MANUAL PUMP	7.89	3090	18.3	DARK BLACK GREY
33-II	11.51	12.74	1	2.46	7.4	7	12-Jan-21	PM	7.70	3390	28-Jan-21	AM	MANUAL PUMP	8.34	428	11.2	MURKY BROWN
35-III	18.74	23.05	3	8.62	25.9	3X	25-Jan-21	PM	7.58	6070	26-Jan-21	AM	MANUAL PUMP	7.62	7120	9.8	BLACK
35-IV	8.17	14.22	2	12.10	36.3	1X DRY	25-Jan-21	PM	8.97	17300	26-Jan-21	AM	MANUAL PUMP	9.33	17400	9.7	CLEAR
35-V	4.17	7.32	1	6.30	18.9	3X	25-Jan-21	PM	7.29	1330	25-Jan-21	PM	MANUAL PUMP	6.76	1700	9.6	CLEAR
35-VI	15.23	16.79	2	3.12	9.4	3X	25-Jan-21	PM	6.55	11200	25-Jan-21	PM	MANUAL PUMP	7.27	12300	9.1	CLEAR
35-VII	9.50	10.09	1	1.18	\	9	12-Jan-21	AM	7.88	4180	25-Jan-21	PM	MANUAL PUMP	7.32	1270	11.4	CLEAR

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION				PREPURGE				SAMPLE						
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
36-IR	18.24	21.86	2	7.24	21.7	3X	26-Jan-21	AM	6.80	9000	26-Jan-21	AM	MANUAL PUMP	6.98	7700	9.6	CLEAR
36-IIR	22.25	29.05		13.60	40.8	3X	26-Jan-21	AM	6.04	27600	26-Jan-21	AM	MANUAL PUMP	6.64	23100	8.5	CLEAR
36-IIIR	10.12	19.22	2	18.20	\	1X DRY	26-Jan-21	AM	6.72	5350	26-Jan-21	AM	MANUAL PUMP	7.33	5670	9.8	CLEAR
36-IVR	6.48	8.28	1	3.60	10.8	3X	26-Jan-21	AM	7.40	1790	26-Jan-21	AM	MANUAL PUMP	7.53	1680	10.0	GREY
36-VR	10.53	15.37	2	9.68	29.0	3X	26-Jan-21	AM	7.08	5570	26-Jan-21	AM	MANUAL PUMP	9.42	7360	9.7	CLEAR
40-I	9.34	12.66	1	6.64	\	1X DRY	26-Jan-21	PM	7.48	4080	27-Jan-21	AM	MANUAL PUMP	7.19	4020	11.5	CLEAR
40-II	1.50	7.80	1	12.60	\	1X DRY	26-Jan-21	PM	7.73	4110	27-Jan-21	AM	MANUAL PUMP	7.37	2620	11.8	CLOUDY
40-III	1.50	6.02	1	9.04	27.1	3X	27-Jan-21	AM	7.22	3270	27-Jan-21	AM	MANUAL PUMP	7.45	2590	11.2	DUPLICATE - 12-IV - CLEAR
41-I	10.75	13.10	1	4.70	14.1	3X	28-Jan-21	AM	7.19	4800	28-Jan-21	AM	MANUAL PUMP	7.03	5780	8.7	CLEAR
41-II	5.69	8.09	1	4.80	14.4	3X DRY	28-Jan-21	AM	7.71	1450	28-Jan-21	AM	MANUAL PUMP	6.99	1090	7.9	GREY
41-III	0.79	5.23	1	8.88	26.6	3X	28-Jan-21	AM	7.72	1720	28-Jan-21	AM	MANUAL PUMP	6.93	1260	7.4	CLEAR

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION				PREPURGE				SAMPLE						
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
42-I	19.65	21.59	2	3.88	11.6	2	12-Jan-21	AM	7.16	3510			MANUAL PUMP			3.7	CLEAR - NO SAMPLE DID NO RESPOND
42-II	12.06	16.22	2	8.32	\	8	12-Jan-21	AM	6.85	8100	26-Jan-21	AM	MANUAL PUMP	7.52	5610	4.5	CLEAR
42-III	9.96	14.63	2	9.34	\	17	12-Jan-21	AM	7.22	6270	26-Jan-21	AM	MANUAL PUMP	7.35	5420	5.1	CLEAR
43-I	10.30	14.40	2	8.20	24.6	3X	25-Jan-21	PM	7.31	5980	25-Jan-21	PM	MANUAL PUMP	7.40	5980	12.3	CLEAR
43-II	10.41	11.93	1	3.04	9.1	3X	25-Jan-21	PM	7.43	2340	25-Jan-21	PM	MANUAL PUMP	7.29	2630	11.7	CLEAR
44-I	6.40	9.99	1	7.18	21.5	3X	27-Jan-21	AM	7.04	2730	27-Jan-21	AM	MANUAL PUMP	6.82	2590	9.4	CLEAR
44-II	1.83	6.02	1	8.38	25.1	3X	27-Jan-21	AM	7.36	900	27-Jan-21	AM	MANUAL PUMP	7.10	983	9.5	RUSTY
45-I	5.90	10.60	1	9.40	28.2	3X	27-Jan-21	AM	7.14	930	27-Jan-21	AM	MANUAL PUMP	7.10	900	8.8	CLEAR
45-II	4.64	7.75	1	6.22	18.7	3X	27-Jan-21	AM	6.94	1440	27-Jan-21	AM	MANUAL PUMP	6.90	1450	9.5	CLEAR
46-IR	7.56	15.36	2	15.60	46.8	3X	27-Jan-21	PM	7.00	7280	27-Jan-21	PM	MANUAL PUMP	6.90	7440	9.6	CLEAR
46-IIR	4.46	7.06	1	5.20	15.6	3X	12-Jan-21	AM	7.18	2170	27-Jan-21	PM	MANUAL PUMP	7.65	2860	5.2	CLEAR
46-IIIR	1.22	4.19	2	5.94	17.8	1X DRY	12-Jan-21	AM	7.25	2390	27-Jan-21	PM	MANUAL PUMP	7.44	2290	3.8	MURKY BROWN

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION				PREPURGE				SAMPLE						
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
47-I	15.37	18.41	2	6.08	18.2	3X	29-Jan-21	AM	6.79	2870	29-Jan-21	AM	MANUAL PUMP	6.70	4230	9.8	CLEAR
47-IIR	8.14	15.20	2	14.12	42.4	3X	29-Jan-21	AM	6.90	1390	29-Jan-21	AM	MANUAL PUMP	6.78	1910	10.1	DUPLICATE - 3-I
47-III	9.08	11.60	1	5.04	15.1	3X	29-Jan-21	AM	6.69	2270	29-Jan-21	AM	MANUAL PUMP	6.78	2580	10.2	CLEAR
47-IV	8.08	9.11	1	2.06	6.2	1X DRY	21-Jan-21	AM	7.18	1110	3-Feb-21	AM	PERI	7.32	1200	5.1	DUPLICATE - 4-II - BROWN SEDIMENT CLEAR UP - SLOW RESPONSE
48-I	20.55	28.91	3	16.72	50.2	3X	29-Jan-21	AM	6.57	16700	29-Jan-21	AM	MANUAL PUMP	6.55	8360	10.0	DUPLICATE - 11-I
48-II	17.04	20.88	2	7.68	23.0	3X	29-Jan-21	AM	6.65	4410	29-Jan-21	AM	MANUAL PUMP	6.72	4820	8.7	CLEAR
48-IV	8.64	10.60	1	3.92	11.8	2X DRY	29-Jan-21	AM	7.13	2510	29-Jan-21	AM	MANUAL PUMP	6.87	2150	9.3	CLEAR
48-V	11.10	14.20		6.20	18.6	3X	29-Jan-21	AM	6.79	6600	29-Jan-21	AM	MANUAL PUMP	6.71	5120	9.4	GREY
49-II	14.77	27.19	3	24.84	74.5	3X	27-Jan-21	AM	7.11	4020	27-Jan-21	AM	MANUAL PUMP	7.14	3570	12.0	DARK GREY
49-IV	10.59	14.46	2	7.74	23.2	1X DRY	27-Jan-21	AM	7.26	3560	27-Jan-21	AM	MANUAL PUMP	7.51	3540	12.2	CLEAR
49-V	14.70	20.06		10.72	32.2	3X	27-Jan-21	AM	7.71	3550	27-Jan-21	AM	MANUAL PUMP	7.27	3450	11.9	CLEAR
50-II	13.37	17.52	2	8.30	24.9		NO ACCESS DUE CONSTRUCTION EXAVATION										

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE					SAMPLE					COMMENTS	
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP		
51-IV	14.85	20.26	2	10.82	32.5	3X	29-Jan-21	PM	7.02	4900	29-Jan-21	PM	MANUAL PUMP	6.98	4640	8.1	DUPLICATE -12-II - CLEAR
51-V	12.22	15.94	2	7.44	\	1X DRY	29-Jan-21	PM	7.15	2900	2-Feb-21	PM	MANUAL PUMP	7.90	1904	8.8	CLEAR
52-II	12.11	15.30	2	6.38	19.1	LOW FLOW					SEE LOW FLOW SPREADSHEET REPORT						
52-III	10.12	10.71	1	1.18	\	<1	19-Jan-21	AM	7.52	972	3-Feb-21	AM	BAILER	NO FINAL			SLOW RESPONSE - SAMPLE WAS TAKEN - MUDDY BROWN
56-I	8.40	10.76	1	4.72	14.2	3X	26-Jan-21	AM	7.68	2540	26-Jan-21	AM	MANUAL PUMP	7.70	2520	12.9	DUPLICATE - 3-II - CLEAR
56-II	6.28	7.60	1	2.64	7.9								MANUAL PUMP				NO VOLUME
57-IR	11.52	16.71	2	10.38	31.1	3x	26-Jan-21	AM	9.92	11060	26-Jan-21	AM	MANUAL PUMP	10.45	11710	12.1	SLIGHT GREEN TINGE - MOSTLY CLEAR
57-II	6.49	11.30	1	9.62	\	8	12-Jan-21	PM	13.40	4590	26-Jan-21	AM	MANUAL PUMP	12.74	4920	4.9	CLEAR
58-I	9.87	13.36	2	6.98	20.9	3X	28-Jan-21	AM	11.93	7540	28-Jan-21	AM	MANUAL PUMP	12.10	7750	14.0	YELLOW - FOAMY - AMMONIA ODOUR
60-I	13.85	16.67	2	5.64	16.9	3X	29-Jan-21	AM	6.82	5800	29-Jan-21	AM	MANUAL PUMP	6.96	6400	9.0	CLEAR
60-II	8.46	13.63	2	10.34	31.0	3X	29-Jan-21	AM	7.65	3460	29-Jan-21	AM	MANUAL PUMP	7.02	3360	9.7	CLEAR
60-III	7.60	10.43	1	5.66	17.0	3X	29-Jan-21	AM	6.84	3820	29-Jan-21	AM	MANUAL PUMP	6.90	3190	9.7	CLEAR
60-IV	17.34	23.28	3	11.88	35.6	3X	29-Jan-21	AM	7.99	7260	29-Jan-21	AM	MANUAL PUMP	6.87	7150	9.4	DUPLICATE -11-II - GREY

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
61-I	15.00	19.03	2	8.06	24.2	3X	28-Jan-21	PM	7.15	4680	28-Jan-21	PM	MANUAL PUMP	7.32	4580	12.1	DUPLICATE - 11-III - CLEAR
61-II	11.66	16.11	2	8.90	\	1X DRY	28-Jan-21	PM	7.33	3900	28-Jan-21	PM	MANUAL PUMP	7.43	3750	11.1	CLOUDY
61-III	9.25	11.82	1	5.14	15.4	3X DRY	28-Jan-21	PM	7.18	3760	28-Jan-21	PM	MANUAL PUMP	7.14	4330	10.7	SLIGHTLY CLOUDY
62-I	9.10	14.61	2	11.02	33.1	3X	28-Jan-21	AM	6.96	8980	28-Jan-21	AM	MANUAL PUMP	6.93	8680	8.5	CLEAR
62-II	9.30	11.8	1	5.00	15.0	3X	28-Jan-21	AM	7.08	8060	28-Jan-21	AM	MANUAL PUMP	7.04	8280	7.8	DUPLICATE - 2-III - CLEAR
62-III	2.51	5.90	1	6.78	20.3	3X	28-Jan-21	AM	6.89	2610	28-Jan-21	AM	MANUAL PUMP	7.13	1920	7.3	RUSTY
62-IV	0.74	3.05	1	4.62	13.9	3X	28-Jan-21	AM	7.25	1300	28-Jan-21	AM	MANUAL PUMP	7.36	1280	5.3	CLEAR
67-I	10.90	15.00	2	8.20	24.6	3X	27-Jan-21	PM	7.25	6420	27-Jan-21	PM	MANUAL PUMP	7.12	7030	8.8	DUPLICATE - 4-I - CLEAR
67-II	8.40	9.73	1	2.66	8.0	1X DRY	27-Jan-21	PM	7.32	6900	28-Jan-21	PM	MANUAL PUMP	7.84	4780	8.9	CLEAR
67-III	5.73	7.35	1	3.24	9.7	1X DRY	27-Jan-21	PM	7.74	5050	28-Jan-21	PM	MANUAL PUMP	7.79	2660	8.8	CLEAR

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
68-I	17.50	21.00	2	7.00	21.0	3X	25-Jan-21	PM	7.02	8320	25-Jan-21	PM	MANUAL PUMP	7.84	8070	9.2	DUPLICATE - 2-IV - CLEAR
68-II	13.13	13.62	2	0.98	2.9	3X	25-Jan-21	PM	6.87	4310	25-Jan-21	PM	MANUAL PUMP	6.72	3740	9.7	CLEAR
68-III	6.78	10.92	1	8.28	\	16	12-Jan-21	PM	10.08	11610	25-Jan-21	PM	MANUAL PUMP	9.49	8490	5.5	CLEAR
68-IV	5.16	6.11	1	1.90	\	4	12-Jan-21	PM	8.08	1075	25-Jan-21	PM	MANUAL PUMP	7.42	2160	4.6	CLEAR
72-I							NO ACCESS DUE CONSTRUCTION EXAVATION										
72-II							NO ACCESS DUE CONSTRUCTION EXAVATION										
72-III							NO ACCESS DUE CONSTRUCTION EXAVATION										
75-I	7.56	14.94	2	14.76	44.3	3X	27-Jan-21	PM	6.93	7980	27-Jan-21	PM	MANUAL PUMP	6.88	8040	9.6	DUPLICATE - 2-I - CLEAR
75-II	7.52	11.88	1	8.72	26.2	3X	27-Jan-21	PM	7.27	6230	27-Jan-21	PM	MANUAL PUMP	7.24	6260	9.4	CLEAR
75-III	2.30	5.76	1	6.92	20.8	3X	27-Jan-21	PM	7.26	3850	27-Jan-21	PM	MANUAL PUMP	6.83	3550	9.2	CLEAR
75-IV	3.29	4.02	0	1.46	4.4	3X	27-Jan-21	PM	7.21	5230	27-Jan-21	PM	MANUAL PUMP	7.27	4760	7.0	CLEAR

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
76-I	12.74	17.92	2	10.36	31.1	11	12-Jan-21	AM	6.36	116000	27-Jan-21	AM	MANUAL PUMP	6.14	101600	11.0	CLOUDY LIGHT BROWN
76-II	5.24	9.16	1	7.84	23.5	3X	27-Jan-21	AM	8.14	3120	27-Jan-21	AM	MANUAL PUMP	7.68	2610	8.8	CLEAR
76-III	4.43	7.12	1	5.38	16.1	3X	27-Jan-21	AM	6.91	1820	27-Jan-21	AM	MANUAL PUMP	7.42	3140	9.2	CLEAR
77-I	19.73	32.20	4	24.94	74.8		NO ACCESS DUE CONSTRUCTION EXAVATION										
77-II	20.33	27.10	3	13.54	40.6		NO ACCESS DUE CONSTRUCTION EXAVATION										
77-III	8.91	\	\	\	\		NO ACCESS DUE CONSTRUCTION EXAVATION										
P1-I	13.04	20.34	2	14.60	43.8	3X	26-Jan-21	PM	7.14	7710	26-Jan-21	PM	MANUAL PUMP	7.06	7140	9.5	GREY
P1-II	13.02	15.95	2	5.86	17.6	3X	26-Jan-21	PM	7.10	6820	26-Jan-21	PM	MANUAL PUMP	7.15	7330	9.2	CLEAR
P1-III	2.07	9.17	1	14.20	42.6	1X DRY	26-Jan-21	PM	7.46	2470	26-Jan-21	PM	MANUAL PUMP	7.27	1980	9.0	GREY
P2-II	15.03	15.30	2	0.54	1.6	0	0-Jan-00	0	0.00	0	0-Jan-00	0	MANUAL PUMP	0.00	0	0.0	NO VOLUME
P2-II	15.03	15.30	2	0.54	1.6								MANUAL PUMP				NO VOLUME

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
P3-I	18.71	19.70	2	1.98	5.9												NO VOLUME
P3-II	9.12	12.65	1	7.06	21.2	1X DRY	26-Jan-21	PM	6.91	3370	28-Jan-21	AM	MANUAL PUMP	7.26	3770	6.5	
P3-III	14.81	15.44	2	1.26	3.8	1X DRY	26-Jan-21	PM	6.93	4070	28-Jan-21	AM	MANUAL PUMP	7.10	3840	8.4	
P4-I	17.93	21.19	2	6.52	19.6	3X	25-Jan-21	AM	7.04	10600	25-Jan-21	AM	MANUAL PUMP	7.47	12000	9.5	CLEAR
P4-II	10.09	13.07	1	5.96	\	1X DRY	25-Jan-21	AM	9.30	17100	25-Jan-21	AM	MANUAL PUMP	9.47	14500	9.6	DUPLICATE - 4-IV - GREY
P4-III	14	15.88	2	3.76	11.3	3X	25-Jan-21	AM	7.68	10500	25-Jan-21	AM	MANUAL PUMP	7.32	9760	9.4	CLEAR
P4-IV	4.52	5.57	1	2.10	6.3	2	19-Jan-21	AM	8.11	563	2-Feb-21	PM	PERI	7.96	772	14.1	MURKY BROWN
P5-IR	14.78	21.48	2	13.40	40.2	3X	28-Jan-21	PM	7.29	7990	28-Jan-21	PM	MANUAL PUMP	7.42	7690	7.8	CLEAR
P5-IIR	12.10	14.86	2	5.52	16.6	3X	28-Jan-21	PM	7.30	4340	28-Jan-21	PM	MANUAL PUMP	7.07	3960	9.2	CLEAR
P5-IIIR	6.60	10.88	1	8.56	25.7	1X DRY	28-Jan-21	PM	8.08	8230	28-Jan-21	PM	MANUAL PUMP	7.76	5450	9.4	CLEAR
P5-IV-R	3.91	6.97	1	6.12	18.4	1X DRY	28-Jan-21	PM	7.00	2380	28-Jan-21	PM	MANUAL PUMP	6.93	1810	8.2	GREY
P6-IR	9.78	15.52	2	11.48	34.4	3X	1-Feb-21	AM	10.17	12600	1-Feb-21	AM	MANUAL PUMP	10.50	12770	6.3	LIGHT GREY TINT

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
P7-IR	10.22	26.26	3	32.08	\	1X DRY	28-Jan-21	PM	9.71	1-Feb-21	PM	AM	MANUAL PUMP	10.71	2360	7.7	CLEAR
P7-II	17.28	19.41	2	4.26	12.8	3x	28-Jan-21	PM	8.27	28-Jan-21	PM	PM	MANUAL PUMP	9.29	4500	9.0	CLEAR
P7-III	9.90	15.92	2	12.04	36.1	1X DRY	28-Jan-21	PM	8.99	28-Jan-21	PM	PM	MANUAL PUMP	9.39	4500	8.8	BROWN - BLACK
P7-IV	9.33	12.64	1	6.62	19.9	3x	28-Jan-21	PM	8.34	28-Jan-21	PM	PM	MANUAL PUMP	9.98	2120	8.9	CLEAR
P8-I	17.67	18.54	2	1.74	\	2	12-Jan-21	AM	6.24	19560	8-Feb-21	PM	MANUAL PUMP	NO VOLUME FOR FINAL CHEM		10.0	DARK GREY TINT, EXTREMELY SLOW RESPONSE SILTY - SAMPLE WAS OBTAINED SLOWLY
P8-II	8.73	10.28	1	3.10	9.3	3X	26-Jan-21	AM	7.11	2280	26-Jan-21	AM	MANUAL PUMP	7.49	1690	10.5	GREY
P9-I	11.05	17.65	2	13.20	\	3X	12-Jan-21	AM	7.16	14500	26-Jan-21	AM	MANUAL PUMP	7.30	11000	11.1	CLOUDY WHITE
P9-II	7.23	9.98	1	5.50	\	1X DRY	26-Jan-21	AM	7.75	5090	26-Jan-21	AM	MANUAL PUMP	7.18	3040	7.9	DUPLICATE - 2-II
P9-IIIR	9.77	13.56	2	7.58	\	1X DRY	26-Jan-21	AM	7.98	3600	26-Jan-21	AM	MANUAL PUMP	7.15	3620	8.2	

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION				PREPURGE				SAMPLE					COMMENTS	
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP		
P10-I	17.76	23.97	3	12.42	37.3	3X	25-Jan-21	AM	6.98	15600	25-Jan-21	AM	MANUAL PUMP	7.18	13600	8.2	CLEAR
P10-II	13.75	16.17	2	4.84	14.5	3X	25-Jan-21	AM	6.41	15700	25-Jan-21	AM	MANUAL PUMP	7.16	17100	9.2	CLEAR
P10-III	7.39	13.69	2	12.60	\	1X DRY	25-Jan-21	AM	6.86	9300	25-Jan-21	AM	MANUAL PUMP	6.73	8170	9.1	DARK GREY
P10-IV	6.57	10.20	1	7.26	21.8	3X	25-Jan-21	AM	6.98	5780	25-Jan-21	AM	MANUAL PUMP	6.97	4400	9.3	CLEAR
P10-V	3.79	5.70	1	3.82	11.5	9	19-Jan-21	AM	7.53	796	2-Feb-21	AM	BAILER	7.59	1086	4.0	MURKY BEIGE
P11-I	18.55	22.34	3	7.58	22.7	3X	26-Jan-21	PM	8.16	9330	26-Jan-21	PM	MANUAL PUMP	8.14	8650	8.5	CLEAR
P11-II	15.74	17.50	2	3.52	10.6	1X DRY	26-Jan-21	PM	6.92	2170	28-Jan-21	PM	MANUAL PUMP	7.82	1770	9.2	CLEAR
P11-III	8.93	13.11	1	8.36	25.1	3X	26-Jan-21	PM	10.74	2970	26-Jan-21	PM	MANUAL PUMP	10.28	2240	9.4	DUPLICATE - 4-III - CLEAR
P12	12.76	14.44	2	3.36	10.1	3X DRY	25-Jan-21	AM	10.98	2610	25-Jan-21	AM	MANUAL PUMP	8.45	2340	12.2	CLOUDY GREY - CLEARED UP
P14	7.35	10.96	1	7.22	21.7	1X DRY	25-Jan-21	AM	9.14	4060	26-Jan-21	AM	MANUAL PUMP	9.35	2230	11.6	GREEN TINGE - BLACK PARTICLES - SLOW RESPONSE
P15	7.09	10.01	1	5.84	17.5	1X DRY	26-Jan-21	PM	10.64	14600	27-Jan-21	PM	MANUAL PUMP	10.21	13000	9.4	CLEAR
P16	4.61	9.45	1	9.68	29.0	30	25-Jan-21	AM	7.87	2760	25-Jan-21	AM	MANUAL PUMP	7.97	2730	11.5	CLEAR
P17	6.89	10.12	1	6.46	19.4	3X DRY	25-Jan-21	AM	10.30	11880	25-Jan-21	AM	MANUAL PUMP	10.25	10190	11.4	CLEAR - SLOW REPSONSE

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
G11	5.13	7.36	1	4.46	\	1X DRY	1-Feb-21	AM	7.81	5880	1-Feb-21	AM	MANUAL PUMP	7.68	4730	3.0	CLOUD BEIGE
G13	4.29	6.69	1	4.80	14.4	1X DRY	2-Feb-21	AM	7.19	25000	2-Feb-21	AM	MANUAL PUMP	7.28	2530	9.7	CLEAR
G24	3.70	8.88	1	10.36	31.1	3X	25-Jan-21	AM	7.32	1660	25-Jan-21	AM	MANUAL PUMP	6.83	1610	9.0	CLEAR
G27	8.82	13.15	1	8.66	26.0	3X	26-Jan-21	AM	7.54	1610	28-Jan-21	PM	MANUAL PUMP	7.76	1880	9.6	BROWN - VERY SILTY
ST1	6.92	10.60	1	7.36	22.1	1X DRY	25-Jan-21	AM	8.43	3050	26-Jan-21	AM	MANUAL PUMP	8.70	3300	11.4	GREEN TINGE - BLACK PARTICLES - FOAMY - SLOW RESPONSE
ST2	7.08	10.00	1	5.84	17.5	1X DRY	25-Jan-21	AM	9.63	6170	26-Jan-21	AM	MANUAL PUMP	9.63	5760	11.1	CLEAR - SLOW REPSONSE
M4	7.30	Pumping Well									29-Jan-21	AM	PUMP	7.72	4050	13.0	CLEAR
CW3	8.58	Pumping Well											PUMP				OFF
CW5R	8.22	Pumping Well									29-Jan-21	AM	PUMP	9.94	8550	12.4	CLEAR
CW16	3.29	Pumping Well									29-Jan-21	AM	PUMP	7.60	1767	12.0	CLEAR
L1	12.86	Pumping Well									29-Jan-21	AM	PUMP	7.14	5450	12.3	CLEAR
M5A	6.30	Pumping Well											PUMP				OFF
M5R	8.81	Pumping Well											PUMP				OFF
GW-PS	14.97	Pumping Well											PUMP				OFF

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE					COMMENTS	
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND		TEMP
PD			Pumping Well													OFF

**GFL ENVIRONMENTAL
GROUNDWATER PRE-PURGE**

MONITOR	VOLUME PURGED	PURGE DATE	Time	CHEMISTRY			EMPTY TUBING	COMMENTS
				pH	COND.	TEMP.		
31-II	0							NO VOLUME
33-I	60	7-Apr	AM	8.31	2530	19.9	N	BLACK - SILTY - CLEARED UP NO SILT
33-II	6	7-Apr	AM	8.20	565	19.0	N	MURKY
42-I	0							NO VOLUME
42-II	5	7-Apr	AM	7.73	4420	11.5	N	CLEAR
42-III	22	7-Apr	AM	8.02	1361	11.6	N	SLIGHTLY MURKY
46-IIR	30	8-Apr	AM	7.24	2620	11.6	N	CLEAR
46-IIIR	5	8-Apr	AM	7.50	2000	9.5	N	BROWN - SEDIMENT - CLEARED UP
57-II	4	8-Apr	AM	12.49	5180	13.9	N	SLIGHTLY CLOUDY
68-III	30	8-Apr	PM	9.61	12180	12.6	N	CLEAR
68-IV	3	8-Apr	PM	7.81	1304	11.7	N	CLEAR

MONITOR	VOLUME PURGED	PURGE DATE	Time	CHEMISTRY			EMPTY TUBING	COMMENTS
				pH	COND.	TEMP.		
72-I	22	6-Apr	AM	5.76	148700	13.3	N	WHITE SOFT PARTICLES - CLOUDY
72-III	14	6-Apr	AM	6.81	22800	13.1	N	DARK GREY - ALMOST BLACKISH
76-I	12	7-Apr	AM	6.18	108700	12.5	N	MURKY
77-I	56+5+8	3-May	PM	6.38	148200	13.4	N	CLOUDY GREY
77-II	16+11	3-May	PM	6.61	119700	12.9	N	CLOUDY GREY
P7-IR	20	7-Apr	AM	9.71	3370	11.9	N	LIGHT GREY
P8-I	0	8-Apr	AM	6.77	17850	13.9	N	DARK GREY - STRONG ODOUR
P9-I	12	7-Apr	AM	7.35	8770	11.9	N	MURKY
35-VII	8	8-Apr	AM	7.38	1824	11.8	N	CLOUDY - LIGHT BROWN

GFL ENVIRONMENTAL

BLIND DUPLICATES LOG

Year: 2021

East Landfill Locations

Fictitious Sample No	January MONITOR	April MONITOR	July MONITOR	October MONITOR	
3-I	47-IIR	40-II			C1A7341
3-II	56-I	49-IV			C1A7341
11-I	60-III	47-I			C1A7341
11-II	48-V	48-I			C1A7341
11-III	61-I	60-IV			C1A7341
12-I	29-I	72-III			C1A9006
12-II	51-IV	61-III			C1B2190
12-IV	40-III	29-IV			C1A7341

West Landfill Locations

Fictitious Sample No #	January MONITOR	April MONITOR	July MONITOR	October MONITOR	
2-I	68-I	44-I			C1A4424
2-II	57-I	35-III			C1A3176
2-III	45-I	P4-I			C1A6137
2-IV	75-I	43-I			C1A6137
4-I	P4-III	P7-IR			C1A7341
4-II	P7-II	P10-II			C1A1879
4-III	62-I	62-III			C1A6137
4-IV	P10-I	46-IR			C1A7341

Form QA-01
Apr-07
Revision 02

GFL ENVIRONMENTAL

Purging and Sampling Field Form - 2nd QUARTER

Month: April-21

Daily Weather: April 19 - SUN CLOUD MILD +16 _____

April 20 - SUN CLOUD WINDY COLDER +5 _____

April 21 - SNOW STORM LAST NIGHT +3 _____

April 22 - SUN CLOUD +4 _____

April 23 - SUNNY Milder +16 _____

April 26 - SUNNY COOL WINDS +8 _____

April 27 - SUNNY CALM +8 _____

CONVERSION FACTORS FOR PIPE SIZE:
(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
9-I	8.95	12.20	1	2.57	\	3	14-Apr-21	AM	7.65	1649	22-Apr-21	AM	BAILER	7.62	1646	13.2	MUDDY BROWN
14-I	3.77	10.30	1	5.16	\	5	19-Apr-21	PM	7.52	1800	19-Apr-21	PM	MANUAL PUMP	7.60	1080	11.8	GREY
29-I	9.11	11.38	1	4.54	13.6	3X DRY	21-Apr-21	PM	7.53	4750	21-Apr-21	PM	MANUAL PUMP	7.67	4580	13	CLEAR
29-II	2.12	4.93	1	5.62	\	3X DRY	21-Apr-21	PM	7.82	2460	21-Apr-21	PM	MANUAL PUMP	7.91	2420	11.7	MURKY
29-IV	10.99	15.45	2	8.92	26.8	27	21-Apr-21	PM	7.46	4630	21-Apr-21	PM	MANUAL PUMP	7.64	4680	14.6	DUPLICATE - 12-IV - CLEAR
30-I	10.34	14.79	2	8.90	26.7	3X DRY	19-Apr-21	PM	12.02	3540	19-Apr-21	PM	MANUAL PUMP	12.06	4300	16.3	CLOUDY
30-II	9.45	11.10	1	3.30	9.9	1X DRY	19-Apr-21	PM	8.62	2210	19-Apr-21	PM	MANUAL PUMP	10.79	1762	15.8	CLEAR VERY SLOW RESPONSE

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
31-I	10.22	14.63	2	8.82	\	3X DRY	19-Apr-21	AM	9.70	2970	19-Apr-21	AM	MANUAL PUMP	10.11	14270	16.3	CLEAR
31-II	7.62	8.43	1	1.62	4.9	1X DRY	19-Apr-21	AM	10.60	450	19-Apr-21	PM	MANUAL PUMP	9.29	591	16	BOD - MURKY
31-III	8.73	13.20	1	8.94	26.8	3X DRY	19-Apr-21	AM	8.51	1997	19-Apr-21	AM	MANUAL PUMP	8.21	2180	15.6	CLEAR
32-II	9.26	10.27	1	2.02	6.1								MANUAL PUMP				BOD - NO VOLUME
33-I	11.17	12.66	1	2.98	\	60	7-Apr-21	AM	8.31	2530	13-Apr-21	AM	MANUAL PUMP	7.82	7420	19.9	DARK BLACK - SILTY - CLEARED UP
33-II	11.35	12.74	1	2.78	8.3	6	7-Apr-21	AM	8.20	565	13-Apr-21	AM	MANUAL PUMP	8.32	445	19.0	BOD, ORGANICS - MURKY
35-III	19.16	23.05	3	7.78	23.3	23	16-Apr-21	AM	7.14	3120	16-Apr-21	AM	MANUAL PUMP	7.82	3400	12.4	ORGANICS - DUPLICATE - 2-II - DARK GREY ODOUR
35-IV	8.16	14.22	2	12.12	36.4	6	16-Apr-21	AM	9.26	13140	16-Apr-21	AM	MANUAL PUMP	9.50	13720	10.7	ORGANICS - CLEAR - FOAMY SLIGHTLY GREEN TINGE
35-V	5.20	7.32	1	4.24	12.7	23	16-Apr-21	AM	7.78	1175	16-Apr-21	AM	MANUAL PUMP	7.75	1185	12.3	ORGANICS - CLEAR
35-VI	15.10	16.79	2	3.38	10.1	3 x DRY	16-Apr-21	AM	7.76	9410	16-Apr-21	AM	MANUAL PUMP	7.70	9060	11.9	ORGANICS - BLACK GREY
35-VII	7.56	10.09	1	5.06	\	8	8-Apr-21	AM	7.38	1824	16-Apr-21	AM	MANUAL PUMP	7.41	1420	11.8	ORGANICS - CLOUDY - LIGHT BROWN - CLOUDY GREY

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH		CALCULATION			PREPURGE				SAMPLE						
				WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS
36-IR	18.14	21.86	2	7.44	22.3	23	20-Apr-21	PM	7.09	7690	20-Apr-21	PM	MANUAL PUMP	7.01	6560	10.9	CLEAR
36-IIR	22.60	29.05	3	12.90	38.7	39	20-Apr-21	PM	6.56	26400	20-Apr-21	PM	MANUAL PUMP	6.67	20900	12.2	GREY
36-IIIR	10.70	19.22	2	17.04	51.1	1X DRY	20-Apr-21	PM	6.78	6500	20-Apr-21	PM	MANUAL PUMP	6.93	6400	11.2	CLEAR
36-IVR	6.83	8.28	1	2.90	8.7	1X DRY	20-Apr-21	PM	7.27	2140	20-Apr-21	PM	MANUAL PUMP	7.19	2270	10.7	GREY
36-VR	11.05	15.37	2	8.64	25.9	26	20-Apr-21	PM	7.20	5020	20-Apr-21	PM	MANUAL PUMP	8.26	5170	10.9	GREY
40-I	9.53	12.66	1	6.26	\	3X DRY	21-Apr-21	PM	7.59	3510	21-Apr-21	PM	MANUAL PUMP	7.63	1339	12.6	SLIGHTLY CLOUDY
40-II	1.69	7.80	1	12.22	\	40	21-Apr-21	PM	7.52	3620	21-Apr-21	PM	MANUAL PUMP	7.51	3550	11.6	DUPLICATE - 3-I - CLEAR
40-III	1.70	6.02	1	8.64	25.9	27	21-Apr-21	PM	7.49	3670	21-Apr-21	PM	MANUAL PUMP	7.48	3360	11.0	MURKY
41-I	11.27	13.10	1	3.66	11.0	11	20-Apr-21	AM	6.81	4890	20-Apr-21	AM	MANUAL PUMP	6.66	4870	10.9	ORGANICS - CLEAR
41-II	5.26	8.09	1	5.66	17.0	17	20-Apr-21	AM	6.92	1430	20-Apr-21	AM	MANUAL PUMP	6.97	1450	10.1	ORGANICS - CLEAR
41-III	0.80	5.23	1	8.86	26.6	27	20-Apr-21	AM	6.98	1370	20-Apr-21	AM	MANUAL PUMP	6.79	1230	9.0	CLEAR
42-I	19.84	21.59	2	3.50	10.5								MANUAL PUMP				NO VOLUME
42-II	12.19	16.22	2	8.06	\	5	7-Apr-21	AM	7.73	4420	19-Apr-21	PM	MANUAL PUMP	7.71	4100	11.5	CLEAR
42-III	10.27	14.63	2	8.72	\	22	7-Apr-21	AM	8.02	1361	19-Apr-21	PM	MANUAL PUMP	7.56	3450	11.6	SLIGHTLY MURKY

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
43-I	10.56	14.40	2	7.68	23.0	23	20-Apr-21	AM	7.55	6180	20-Apr-21	AM	MANUAL PUMP	7.26	5710	11.5	DUPLICATE - 2-IV
43-II	10.73	11.93	1	2.40	7.2	3X DRY	20-Apr-21	AM	7.52	2110	20-Apr-21	AM	MANUAL PUMP	7.49	-----	11.1	CLEAR
44-I	6.75	9.99	1	6.48	19.4	20	19-Apr-21	PM	6.80	2340	19-Apr-21	PM	MANUAL PUMP	6.69	2250	10.6	ORGANICS - DUPLICATE - 2-I - CLEAR
44-II	2.02	6.02	1	8.00	24.0	24	19-Apr-21	PM	6.94	1140	19-Apr-21	PM	MANUAL PUMP	6.82	1070	10.1	ORGANICS - GREY
45-I	5.98	10.60	1	9.24	27.7	28	19-Apr-21	PM	7.28	960	19-Apr-21	PM	MANUAL PUMP	7.21	930	10.5	CLEAR
45-II	3.47	7.75	1	8.56	25.7	26	19-Apr-21	PM	7.26	1570	19-Apr-21	PM	MANUAL PUMP	7.23	853	10.7	BROWN
46-IR	8.15	15.36	2	14.42	43.3	44	21-Apr-21	AM	7.64	6660	21-Apr-21	AM	MANUAL PUMP	6.97	6500	12.1	DUPLICATE - 4-IV - CLEAR
46-IIR	4.17	7.06	1	5.78	17.3	30	8-Apr-21	AM	7.24	2620	21-Apr-21	AM	MANUAL PUMP	7.64	3530	11.6	CLEAR
46-IIIR	1.70	4.19	2	4.98	14.9	5	8-Apr-21	AM	7.50	2000	21-Apr-21	AM	MANUAL PUMP	7.53	2290	9.5	BROWN - SEDIMENT - CLEARED UP
47-I	15.83	18.41	2	5.16	15.5	16	21-Apr-21	PM	7.36	3710	21-Apr-21	PM	MANUAL PUMP	6.94	4140	11.0	ORGANICS - DUPLICATE 11-I - CLEAR
47-IIR	9.60	15.20	2	11.20	33.6	34	21-Apr-21	PM	7.68	1900	21-Apr-21	PM	MANUAL PUMP	7.23	2060	10.5	ORGANICS - CLEAR
47-III	9.47	11.60	1	4.26	12.8	13	21-Apr-21	PM	7.04	3750	21-Apr-21	PM	MANUAL PUMP	6.92	3010	11.1	ORGANICS - CLEAR
47-IV	8.50	9.11	1	1.22	3.7	5	15-Apr-21	AM	7.19	1697	22-Apr-21	AM	BAILER	7.83	1356	12.0	ORGANICS - CLEAR

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH		CALCULATION			PREPURGE					SAMPLE					COMMENTS
				WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	
48-I	21.04	28.91	3	15.74	47.2	48	21-Apr-21	PM	6.43	56600	21-Apr-21	PM	MANUAL PUMP	6.88	9050	10.8	DUPLICATE - 11-II - CLEAR
48-II	17.32	20.88	2	7.12	21.4	22	21-Apr-21	PM	7.22	7080	21-Apr-21	PM	MANUAL PUMP	7.05	5080	9.5	CLEAR
48-IV	8.82	10.60	1	3.56	10.7	11	21-Apr-21	PM	7.25	2090	21-Apr-21	PM	MANUAL PUMP	7.28	3910	10.9	CLEAR
48-V	11.38	14.20		5.64	16.9	17	21-Apr-21	PM	7.12	4420	21-Apr-21	PM	MANUAL PUMP	7.25	4610	11.1	CLEAR
49-II	15.19	27.19	3	24.00	72.0	75	21-Apr-21	AM	7.10	4080	21-Apr-21	AM	MANUAL PUMP	7.09	3670	13.1	DARK GREY
49-IV	10.48	14.46	2	7.96	23.9	25	21-Apr-21	AM	7.42	3750	21-Apr-21	AM	MANUAL PUMP	7.37	3600	13.0	DUPLICATE - 3-II - SLIGHTLY MURKY
49-V	15.23	20.06		9.66	29.0	32	21-Apr-21	AM	7.76	3300	21-Apr-21	AM	MANUAL PUMP	7.23	3350	12.4	BLACK/GREY & SILTY - CLEARED AFTER 17 LITRES
50-II	13.22	17.52	2	8.60	25.8								MANUAL PUMP				NO SAMPLE - AREA NOT ACCESSIBLE UNSAFE DUE TO HEAVY CONSTRUCTION EXCAVATION WORK
51-IV	15.50	20.26	2	9.52	28.6	29	22-Apr-21	AM	7.30	4990	22-Apr-21	AM	MANUAL PUMP	7.01	4570	10.7	ORGANICS - CLEAR
51-V	12.67	15.94	2	6.54	\	3X DRY	22-Apr-21	AM	7.47	4200	22-Apr-21	AM	MANUAL PUMP	6.97	2240	9.9	ORGANICS - BROWN
52-II	12.78												SEE LOW FLOW SPREADSHEET REPORT				
52-III	10.46	10.71	1	0.50	\	2	14-Apr-21	AM	7.34	1040	23-Apr-21	AM	BAILER	NO VOLUME FOR FIELD CHEM - SAMPLE WAS OBTAINED			MUDDY BROWN
56-I	8.94	10.76	1	3.64	10.9	12	14-Apr-21	PM	7.82	2330	14-Apr-21	PM	MANUAL PUMP	7.72	2440	13.4	CLEAR
56-II	6.55	7.60	1	2.10	6.3	3X DRY	14-Apr-21	PM	7.82	1921	14-Apr-21	PM	MANUAL PUMP	7.83	1773	13.8	MURKY - LOW VOLUME - SLOW RESPONSE

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH		CALCULATION			PREPURGE				SAMPLE						
				WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS
57-IR	11.55	16.46	2	9.82	29.5	30	20-Apr-21	AM	10.04	11260	20-Apr-21	AM	MANUAL PUMP	11.35	12350	12.9	CLEAR
57-II	9.03	11.30	1	4.54	\	4	8-Apr-21	AM	12.49	5180	20-Apr-21	AM	MANUAL PUMP	12.72	4670	13.9	BOD, ORGANICS - SLIGHTLY CLOUDY
58-I	9.77	13.36	2	7.18	21.5	22	19-Apr-21	PM	11.94	8110	19-Apr-21	PM	MANUAL PUMP	11.88	7550	19.2	BOD, ORGANICS - YELLOW - FOAMY - CLOUDY
60-I	14.36	16.67	2	4.62	13.9	17	21-Apr-21	PM	7.31	5570	21-Apr-21	PM	MANUAL PUMP	7.34	5450	12.2	CLEAR
60-II	8.52	13.63	2	10.22	30.7	34	21-Apr-21	PM	7.64	2110	21-Apr-21	PM	MANUAL PUMP	8.09	2780	12.4	CLEAR
60-III	7.84	10.43	1	5.18	15.5	3X DRY	21-Apr-21	PM	7.19	3510	21-Apr-21	PM	MANUAL PUMP	7.15	3250	11.7	CLEAR
60-IV	17.89	23.28	3	10.78	32.3	33	21-Apr-21	PM	7.40	6560	21-Apr-21	PM	MANUAL PUMP	7.36	6270	12.7	DUPLICATE - 11-III - CLEAR
61-I	15.28	19.03	2	7.50	22.5	23	21-Apr-21	PM	6.91	5210	21-Apr-21	PM	MANUAL PUMP	7.01	5350	11.1	CLEAR
61-II	12.05	16.11	2	8.12	\	1X DRY	21-Apr-21	PM	6.91	4910	22-Apr-21	AM	MANUAL PUMP	6.56	3860	9.9	CLEAR
61-III	9.54	11.82	1	4.56	13.7	14	21-Apr-21	PM	7.08	4610	21-Apr-21	PM	MANUAL PUMP	7.14	5010	11.0	DUPLICATE - 12-II - CLEAR
62-I	9.40	14.61	2	10.42	31.3	32	20-Apr-21	AM	6.74	8060	20-Apr-21	AM	MANUAL PUMP	6.77	7650	9.8	CLEAR
62-II	9.65	11.8	1	4.30	12.9	13	20-Apr-21	AM	6.86	8050	20-Apr-21	AM	MANUAL PUMP	6.99	7720	10.0	CLEAR
62-III	2.07	5.90	1	7.66	23.0	23	20-Apr-21	AM	7.21	2020	20-Apr-21	AM	MANUAL PUMP	7.03	1760	9.3	DUPLICATE - 4-III - YELLOW TINT
62-IV	0.93	3.05	1	4.24	12.7	13	20-Apr-21	AM	7.12	2230	20-Apr-21	AM	MANUAL PUMP	6.95	2020	8.7	CLEAR

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
67-I	11.29	15.00	2	7.42	22.3	23	20-Apr-21	AM	7.63	5840	20-Apr-21	AM	MANUAL PUMP	7.52	6020	11.9	ORGANICS - CLEAR
67-II	8.36	9.73	1	2.74	8.2	1X DRY	20-Apr-21	AM	7.49	3850	20-Apr-21	PM	MANUAL PUMP	7.59	3740	11.9	ORGANICS - BLACKISH TINGE LOW VOLUME
67-III	5.95	7.35	1	2.80	8.4	1X DRY	20-Apr-21	AM	7.20	1343	20-Apr-21	PM	MANUAL PUMP	7.90	2030	10.7	ORGANICS - CLEAR LOW VOLUME
68-I	17.90	21.00	2	6.20	18.6	19	19-Apr-21	AM	6.71	7380	19-Apr-21	AM	MANUAL PUMP	7.50	6970	9.7	ORGANICS - CLEAR
68-II	13.00	13.62	2	1.24	3.7	4	19-Apr-21	AM	6.67	4700	19-Apr-21	AM	MANUAL PUMP	6.57	4060	9.8	ORGANICS - CLEAR
68-III	6.64	10.92	1	8.56	\	30	8-Apr-21	AM	9.61	12180	19-Apr-21	AM	MANUAL PUMP	8.95	5120	12.6	ORGANICS - CLEAR
68-IV	5.30	6.11	1	1.62	\	3	8-Apr-21	AM	7.81	1304	20-Apr-21	AM	MANUAL PUMP	8.27	1200	11.7	ORGANICS - CLEAR
72-I	22.34	34.96	4	25.24	75.7	22	6-Apr-21	AM	5.76	148700	22-Apr-21	AM	MANUAL PUMP	5.96	150000	13.3	ORGANICS - WHITE SOFT PARTICLES - CLOUDY
72-II	22.27	28.35	3	12.16	36.5	14	22-Apr-21	AM	6.20	57500	22-Apr-21	AM	MANUAL PUMP	6.39	45100	11.6	ORGANICS
72-III	16.16	25.55	3	18.78	56.3	18	6-Apr-21	AM	6.81	22800	22-Apr-21	AM	MANUAL PUMP	6.63	20700	13.1	ORGANICS - 12-I
75-I	8.02	14.94	2	13.84	41.5	42	20-Apr-21	AM	6.66	8130	20-Apr-21	AM	MANUAL PUMP	6.84	7520	11.9	ORGANICS - CLEAR
75-II	7.97	11.88	1	7.82	23.5	24	20-Apr-21	AM	6.97	5790	20-Apr-21	AM	MANUAL PUMP	6.99	5150	10.9	ORGANICS - CLEAR
75-III	2.50	5.76	1	6.52	19.6	20	20-Apr-21	AM	7.01	1870	20-Apr-21	AM	MANUAL PUMP	6.91	3180	9.0	ORGANICS - BROWN TO CLEAR
75-IV	3.56	4.02	0	0.92	2.8	3	20-Apr-21	AM	6.96	4550	20-Apr-21	AM	MANUAL PUMP	7.36	3470	9.1	ORGANICS - BROWN

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE					SAMPLE					COMMENTS	
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP		
76-I	12.69	17.92	2	10.46	31.4	12	7-Apr-21	AM	6.18	108700	19-Apr-21	PM	MANUAL PUMP	6.09	84900	12.5	ORGANICS - MURKY
76-II	5.49	9.16	1	7.34	22.0	22	19-Apr-21	PM	7.00	1630	19-Apr-21	PM	MANUAL PUMP	7.03	1850	10.8	ORGANICS - CLEAR
76-III	4.66	7.12	1	4.92	14.8	15	19-Apr-21	PM	7.01	1660	19-Apr-21	PM	MANUAL PUMP	6.89	3590	10.7	ORGANICS - RUSTY TO CLEAR
77-I	19.28	32.20	4	25.84	77.5	56+5+8	3-May-21	PM	6.38	148200	7-May-21	PM	MANUAL PUMP	6.48	148100	13.4	CLOUDY GREY
77-II	20.09	27.10	3	14.02	42.1	16+11	3-May-21	PM	6.61	119700	7-May-21	PM	MANUAL PUMP	6.72	121300	12.9	CLOUDY GREY
77-III	9.42	14.81	3	10.78	32.3	35	3-May-21	PM	7.68	4820	7-May-21	PM	MANUAL PUMP	7.66	4390	12.5	CLOUDY GREY
P1-I	13.45	20.34	2	13.78	41.3	42	19-Apr-21	AM	6.88	6070	19-Apr-21	AM	MANUAL PUMP	6.94	6300	10.7	BLACK TO CLEAR
P1-II	13.44	15.95	2	5.02	15.1	15	19-Apr-21	AM	7.18	6980	19-Apr-21	AM	MANUAL PUMP	7.22	6500	10.3	CLEAR
P1-III	2.51	9.17	1	13.32	40.0	40	19-Apr-21	AM	7.07	1720	19-Apr-21	AM	MANUAL PUMP	7.24	1550	10.4	BLACK TO CLEAR
P2-I	19.70	20.60	2	1.80	5.4								MANUAL PUMP				NO VOLUME
P2-II	15.03	15.03	2	0.00	0.0								MANUAL PUMP				NO VOLUME
P3-I	19.08	19.70	2	1.24	3.7								MANUAL PUMP				NO VOLUME
P3-II	9.14	12.65	1	7.02	21.1	7	15-Apr-21	AM	7.39	1969	19-Apr-21	PM	MANUAL PUMP	8.09	2650	12.5	BLACK SEDIMENT TO LIGHT GREY
P3-III	14.60	15.44	2	1.68	5.0	2	15-Apr-21	AM	7.18	3460	19-Apr-21	PM	MANUAL PUMP	7.63	3400	12.1	CLEAR

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
P4-I	18.31	21.19	2	5.76	17.3	1	20-Apr-21	PM	7.63	10800	20-Apr-21	PM	MANUAL PUMP	7.35	11500	10.6	DUPLICATE - 2-III - GREY
P4-II	10.01	13.07	1	6.12	\	1X DRY	20-Apr-21	PM	8.69	9660	20-Apr-21	PM	MANUAL PUMP	9.01	8240	8.9	GREY - CLEAR
P4-III	13.89	15.88	2	3.98	11.9	12	20-Apr-21	PM	9.35	15400	20-Apr-21	PM	MANUAL PUMP	7.46	10100	8.9	CLEAR
P4-IV	4.88	5.57	1	1.38	4.1	1X DRY	14-Apr-21	AM	8.22	480	22-Apr-21	AM	BAILER	7.72	1143	11.4	MURKY BEIGE
P5-IR	15.27	21.48	2	12.42	37.3	38	21-Apr-21	AM	8.15	8370	21-Apr-21	AM	MANUAL PUMP	7.43	6410	10.2	CLEAR
P5-IIR	12.21	14.86	2	5.30	15.9	16	21-Apr-21	AM	7.47	4220	21-Apr-21	AM	MANUAL PUMP	7.34	3650	10.6	CLEAR
P5-IIIR	6.69	10.88	1	8.38	25.1	3X DRY	21-Apr-21	AM	7.56	5680	21-Apr-21	AM	MANUAL PUMP	8.26	6710	8.9	
P5-IVR	5.83	6.97	1	2.28	6.8	3X DRY	21-Apr-21	AM	7.22	1930	21-Apr-21	AM	BAILER	7.15	1760	9.1	BLACK
P6-IR	9.32	15.52	2	12.40	37.2	40	14-Apr-21	PM	10.31	11140	14-Apr-21	PM	MANUAL PUMP	10.30	11180	14.5	CLEAR
P7-1R	19.63	27.80	3	16.34	\	20	7-Apr-21	AM	9.71	3370	21-Apr-21	AM	MANUAL PUMP	8.99	1990	11.9	LIGHT GREY - DUPLICATE - 4-I
P7-II	17.31	19.41	2	4.20	12.6	13	21-Apr-21	AM	9.01	3260	21-Apr-21	AM	MANUAL PUMP	8.16	5040	9.6	CLEAR
P7-III	10.14	15.92	2	11.56	34.7	3X DRY	21-Apr-21	AM	8.03	5160	21-Apr-21	AM	MANUAL PUMP	9.69	5990	8.6	CLEAR
P7-IV	9.86	12.64	1	5.56	16.7	17	21-Apr-21	AM	9.51	2000	21-Apr-21	AM	MANUAL PUMP	9.36	2160	8.3	CLEAR

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
P8-I	17.81	18.54	2	1.46	\	1X DRY	8-Apr-21	AM	6.77	17850	21-Apr-21	AM	MANUAL PUMP	6.51	18400	13.9	DARK GREY - STRONG ODOUR
P8-II	8.72	10.28	1	3.12	9.4	10	21-Apr-21	AM	7.27	4500	21-Apr-21	AM	BAILER	7.14	8380	11.2	CLEAR
P9-I	10.99	17.65	2	13.32	\	12	7-Apr-21	AM	7.35	8770	14-Apr-21	PM	MANUAL PUMP	7.23	7410	11.9	MURKY
P9-II	7.95	9.98	1	4.06	\	3X DRY	14-Apr-21	PM	7.96	2320	14-Apr-21	PM	MANUAL PUMP	7.95	1070	13.1	CLEAR
P9-III	10.27	13.56	2	6.58	\	3X DRY	14-Apr-21	PM	7.75	3590	14-Apr-21	PM	MANUAL PUMP	7.70	3600	13.8	CLOUDY GREY WITH PARTICLES
P10-I	18.20	23.97	3	11.54	34.6	35	15-Apr-21	PM	7.07	9860	15-Apr-21	PM	MANUAL PUMP	7.40	9790	11.9	ORGANICS
P10-II	13.63	16.17	2	5.08	15.2	16	15-Apr-21	PM	7.47	12310	15-Apr-21	PM	MANUAL PUMP	7.82	12170	11.6	ORGANICS - DUPLICATE - 4-II
P10-III	7.37	13.69	2	12.64	\	3X DRY	15-Apr-21	PM	7.11	6580	15-Apr-21	PM	MANUAL PUMP	7.23	7170	12.4	ORGANICS
P10-IV	6.91	10.20	1	6.58	19.7	3X DRY	15-Apr-21	PM	7.64	3920	15-Apr-21	PM	MANUAL PUMP	7.73	4010	11.6	ORGANICS
P10-V	4.37	5.70	1	2.66	8.0	1X DRY	23-Apr-21	AM	6.86	9.02	26-Apr-21	AM	BAILER	7.60	834	11.6	ORGANICS - BROWN
P11-I	18.90	22.34	3	6.88	20.6	21	19-Apr-21	AM	7.12	8680	19-Apr-21	AM	MANUAL PUMP	7.53	8060	10.7	CLEAR
P11-II	15.53	17.50	2	3.94	11.8	3X DRY	19-Apr-21	AM	7.97	1960	19-Apr-21	AM	MANUAL PUMP	7.68	1920	10.7	CLEAR
P11-III	8.95	13.11	1	8.32	25.0	25	19-Apr-21	AM	9.00	2330	19-Apr-21	AM	MANUAL PUMP	9.44	2160	10.7	CLEAR
P12	12.98	14.44	2	2.92	8.8	3X DRY	14-Apr-21	AM	11.00	1752	14-Apr-21	AM	MANUAL PUMP	9.70	1828	11.9	SLIGHTLY CLOUDY

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
P14	7.38	10.96	1	7.16	21.5	1X DRY	13-Apr-21	AM	8.95	2090	14-Apr-21	AM	MANUAL PUMP	8.87	2050	13.2	CLEAR
P15	7.22	10.01	1	5.58	16.7	3X DRY	14-Apr-21	AM	10.15	10070	14-Apr-21	AM	MANUAL PUMP	10.25	10520	12.5	CLEAR
P16	4.69	9.45	1	9.52	28.6	30	14-Apr-21	AM	8.13	2220	14-Apr-21	AM	MANUAL PUMP	9.07	4000	12.3	CLEAR
P17	7.12	10.12	1	6.00	18.0	3X DRY	14-Apr-21	AM	10.23	10250	14-Apr-21	AM	MANUAL PUMP	10.14	8550	13.5	CLEAR
G11	5.45	7.36	1	3.82	\	3X DRY	20-Apr-21	AM	7.61	5140	20-Apr-21	AM	MANUAL PUMP	7.65	5230	11.2	MURKY WITH WHITE PARTICLES
G13	5.19	6.69	1	3.00	9.0	3X DRY	20-Apr-21	AM	7.67	2020	20-Apr-21	AM	MANUAL PUMP	7.75	1801	12.0	CLEAR
G24	5.22	8.88	1	7.32	22.0	22	14-Apr-21	AM	7.57	1012	14-Apr-21	AM	MANUAL PUMP	7.48	924	11.6	MURKY BEIGE
G27	8.77	13.15	1	8.76	26.3	27	21-Apr-21	AM	7.52	1980	22-Apr-21	AM	MANUAL PUMP	7.00	2100	11.0	BROWN
ST1	7.06	10.60	1	7.08	21.2	1X DRY	13-Apr-21	AM	8.14	1884	14-Apr-21	AM	MANUAL PUMP	8.28	1908	12.6	WHITE SOFT PARTICLES
ST2	7.19	10.00	1	5.62	16.9	1X DRY	13-Apr-21	AM	9.25	4870	14-Apr-21	AM	MANUAL PUMP	9.28	4850	12.5	CLEAR
LS1	22.38	22.38	3	0.00	0.0	LEACH - STRAIGHT SAMPLE							MANUAL PUMP				ORGANICS - NO VOLUME
LS2	12.28	13.35	2	2.14	6.4	LEACH - STRAIGHT SAMPLE							MANUAL PUMP				ORGANICS - NO VOLUME
LS3	15.19	15.38	2	0.38	1.1	LEACH - STRAIGHT SAMPLE							MANUAL PUMP				ORGANICS - NO VOLUME

CONVERSION FACTORS FOR PIPE SIZE:
 (1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE						
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS
M4	7.55									23-Apr-21	PM	PUMP	7.59	3690	16.3	CLEAR
CW3	7.97									23-Apr-21	PM	PUMP	9.73	1521	13.7	CLEAR
CW5R	8.88									23-Apr-21	PM	PUMP	9.87	8370	13.6	CLEAR
CW16	4.50									23-Apr-21	PM	PUMP	7.54	1562	12.7	CLEAR
L1	13.40									23-Apr-21	PM	PUMP	7.21	5170	13.4	CLEAR
M5R	9.13									23-Apr-21	PM	PUMP	7.81	3230	15.3	CLEAR
M5A	6.31											PUMP				PUMP IS NOT OPERATIONAL AT THIS TIME
GW-PS	15.51											PUMP				PUMP IS NOT OPERATIONAL AT THIS TIME
PD	12.51											PUMP				PUMP IS NOT OPERATIONAL AT THIS TIME

**GFL ENVIRONMENTAL
GROUNDWATER PRE-PURGE**

MONITOR	VOLUME PURGED	PURGE DATE	Time	CHEMISTRY			EMPTY TUBING	COMMENTS
				pH	COND.	TEMP.		
31-II	1	12-Jul	AM	10.92	675.5	20.7	N	Murky brown
33-I	5	12-Jul	AM	8.09	3230	21.9	N	Black, odourous
33-II	9	12-Jul	AM	8.88	1976	21.6	N	Cloudy grey
35-VII	8	12-Jul	AM	7.49	1837	15.2	N	Cloudy brown
42-I	4	12-Jul	PM	7.30	3060	17.1	N	Clear
42-II	5	12-Jul	PM	7.70	3940	18.3	N	Murky brown
42-III	4	12-Jul	PM	7.44	4560	18.5	N	Murkey grey
46-IIR	13	13-Jul	AM	7.61	2220	15.6	N	Clear
46-IIIR	4	13-Jul	AM	6.34	1749	16.6	N	Clear
57-II	3	13-Jul	AM	12.95	3130	18.6	N	Clear
68-III	11	12-Jul	PM	9.76	6660	14.6	N	Clear, Sulphur odour

MONITOR	VOLUME PURGED	PURGE DATE	Time	CHEMISTRY			EMPTY TUBING	COMMENTS
				pH	COND.	TEMP.		
68-IV	3	12-Jul	PM	7.85	1015	15.4	N	Clear, Sulphur odour
72-I	25	14-Jul	AM	6.13	138400	16.4	N	Clear
72-III	15	14-Jul	AM	6.73	17270	15.5	N	Sulphur odour
76-I	11	12-Jul	AM	6.21	116500	14.6	N	Grey tint
77-I	85	13-Jul	PM	6.60	154000	17.2	N	Cloudy grey to cloudy white
77-II	45	13-Jul	PM	6.44	118300	18.8	N	Silty grey
P7-IR	17	12-Jul	PM	9.45	1959	14.5	N	Cloudy grey
P8-I	2	12-Jul	PM	6.90	15230	20.3	N	Oily smell, Black Emptied tubing to purge
P9-I	13	12-Jul	AM	7.22	10890	15.1	N	Cloudy grey

Apr-09
Revision 02

GFL ENVIRONMENTAL

BLIND DUPLICATES LOG

Year: 2021

East Landfill Locations

Fictitious Sample No	January MONITOR	April MONITOR	July MONITOR	October MONITOR	
3-I	47-IIR	40-II	47-IIIR		C1L8915
3-II	56-I	49-IV	40-I		C1L4129
11-I	60-III	47-I	60-I		C1L7895
11-II	48-V	48-I	56-I		C1L0576
11-III	61-I	60-IV	72-II		C1M0725
12-I	29-I	72-III	77-III		C1M0725
12-II	51-IV	61-III	29-I		C1L0576
12-IV	40-III	29-IV	48-V		C1L8915

West Landfill Locations

Fictitious Sample No #	January MONITOR	April MONITOR	July MONITOR	October MONITOR	
2-I	68-I	44-I	75-III		C1L1918
2-II	57-I	35-III	P9-II		C1L1918
2-III	45-I	P4-I	P1-I		C1L5654
2-IV	75-I	43-I	68-II		C1L0576
4-I	P4-III	P7-I	41-III		C1L1918
4-II	P7-II	P10-II	67-I		C1L4129
4-III	62-I	62-III	P11-III		C1L0576
4-IV	P10-I	46-IR	P4-II		C1L0576

Form QA-01
Apr-07
Revision 02

GFL ENVIRONMENTAL

Purging and Sampling Field Form - 3RD QUARTER

Month: July-21

Daily Weather: July 14 - SUN CLOUD VERY HUMID 28 DEGREES

AUG 4 - SUNNY HOT CALM 27 DEGREESD

JULY 26 - SUNNY HOT HUMID 31 DEGREES

AUG 5 - SUNNY CALM 27 DEGREES

JULY 27 - SUN & T-STORM HEAVY RAIN 26 DEGREES

AUG 6 - SUNNY HOT 30 DEGREES

JULY 28 - SUNNY HOT CALM 25 DEGREES

JULY 29 - T-STORM HEAVY RAINFALL 28 DEGREES

JULY 30 - SUNNY COOLER WINDY 21 DEGREES

AUG 3 - SUNNY HOT BREEZY 26 DEGREES

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
9-I	9.09	12.20	1	2.46	\	3.5	14-Jul-21	PM	7.36	1370	3-Aug-21	PM	BAILER	7.50	1562	17.6	Silty brown/Cloudy
14-I	3.65	10.30	1	5.25	\	DRY X1	28-Jul-21	PM	7.34	1830	28-Jul-21	PM	MANUAL PUMP	7.70	1640	15.5	
29-I	8.39	11.38	1	5.98	17.9	DRY X3	26-Jul-21	PM	7.19	4400	26-Jul-21	PM	MANUAL PUMP	7.40	4360	17	DUPLICATE 12-II Murky
29-II	2.27	4.93	1	5.32	\	DRY X3	26-Jul-21	PM	7.30	2880	26-Jul-21	PM	MANUAL PUMP	7.55	2880	20	Murky
29-IV	11.12	15.45	2	8.66	26.0	35	26-Jul-21	PM	7.16	4610	26-Jul-21	PM	MANUAL PUMP	7.16	4650	15.0	Clear
30-I	11.27	14.79	2	7.04	21.1	DRY X3	30-Jul-21	PM	11.48	3040	30-Jul-21	PM	MANUAL PUMP	11.28	3520	18.0	Clear
30-II	9.67	11.10	1	2.86	8.6	DRY X3	30-Jul-21	PM	9.65	1562	30-Jul-21	PM	MANUAL PUMP	10.35	1357	16.8	Clear

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION				PREPURGE				SAMPLE					COMMENTS	
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP		
31-I	10.50	14.63	2	8.26	\	6/	26-Jul-21	PM	10.37	17700	26-Jul-21	PM	MANUAL PUMP	10.12	10400	17.6	Clear with sediment and debris
31-II	7.90	9.23	1	2.66	8.0	9	12-Jul-21	AM	10.92	675.5	28-Jul-21	PM	MANUAL PUMP	8.22	967	20.7	Murky brown
31-III	9.08	13.20	1	8.24	24.7	DRY X3	26-Jul-21	PM	9.80	5810	26-Jul-21	PM	MANUAL PUMP	9.37	3930.00	16.4	Clear
32-II	9.60	10.27	1	1.34	4.0								MANUAL PUMP				NO VOLUME
33-I	11.25	12.66	1	2.82	\	5	12-Jul-21	AM	8.09	3230	30-Jul-21	PM	MANUAL PUMP	8.14	3520	21.9	Black, odourous
33-II	11.43	12.74	1	2.62	7.9	9	12-Jul-21	AM	8.88	1976	30-Jul-21	PM	MANUAL PUMP	8.67	2900	21.6	Cloudy grey
35-III	19.04	23.05	3	8.02	24.1	DRY X3	26-Jul-21	PM	7.97	2340	26-Jul-21	PM	MANUAL PUMP	7.71	4980	15.7	Black
35-IV	8.54	14.22	2	11.36	34.1	DRY X1	26-Jul-21	PM	9.19	10800	28-Jul-21	AM	MANUAL PUMP	9.58	12000	14.4	Clear
35-V	5.48	7.32	1	3.68	11.0	DRY X3	26-Jul-21	PM	7.76	3200	26-Jul-21	PM	MANUAL PUMP	8.16	4580	16.1	Clear
35-VI	15.13	16.79	2	3.32	10.0	DRY X3	26-Jul-21	PM	7.55	7480	26-Jul-21	PM	MANUAL PUMP	7.96	9650	15.2	Clear
35-VII	7.88	10.09	1	4.42	\	8	12-Jul-21	AM	7.49	1837	26-Jul-21	PM	MANUAL PUMP	8.14	3310	15.2	Cloudy brown

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WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
36-IR	18.20	21.86	2	7.32	22.0	DRY X3	27-Jul-21	AM	7.90	9720	27-Jul-21	AM	MANUAL PUMP	7.81	7890	14.4	Clear
36-IIR	22.45	29.05	3	13.20	39.6	DRY X3	27-Jul-21	AM	7.65	21400	27-Jul-21	AM	MANUAL PUMP	7.53	17400	15.6	Clear
36-IIIR	10.80	19.22	2	16.84	50.5	DRY X1	27-Jul-21	AM	7.57	5070	27-Jul-21	AM	MANUAL PUMP	7.56	5480	14.4	Clear
36-IVR	6.95	8.28	1	2.66	8.0	DRY X3	27-Jul-21	AM	8.39	2940	27-Jul-21	AM	MANUAL PUMP	7.93	3310	14.8	Grey
36-VR	11.35	15.37	2	8.04	24.1	DRY X3	27-Jul-21	AM	7.82	4260	27-Jul-21	AM	MANUAL PUMP	9.99	6210	14.1	Grey
40-I	9.16	12.66	1	7.00	\	6	26-Jul-21	AM	7.13	3620	26-Jul-21	AM	MANUAL PUMP	7.06	1250	17.1	DUPLICATE 3-II Clear
40-II	1.96	7.80	1	11.68	\	35	26-Jul-21	AM	7.12	3740	26-Jul-21	AM	MANUAL PUMP	7.08	3690	18.0	Clear
40-III	1.97	6.02	1	8.10	24.3	24	26-Jul-21	AM	7.12	3930	26-Jul-21	AM	MANUAL PUMP	7.13	3560	18	Slightly Cloudy
41-I	10.55	13.10	1	5.10	15.3	Dry x3	27-Jul-21	PM	7.62	4530	27-Jul-21	PM	MANUAL PUMP	7.37	4520	14.2	Clear
41-II	5.46	8.09	1	5.26	15.8	Dry x3	27-Jul-21	PM	7.52	1880	27-Jul-21	PM	MANUAL PUMP	7.79	1170	13.4	Clear
41-III	2.78	5.23	1	4.90	14.7	Dry x3	27-Jul-21	PM	7.66	1730	27-Jul-21	PM	MANUAL PUMP	7.42	1210	13.2	DUPLICATE 4-I Black
42-I	19.85	21.59	2	3.48	10.4	4	12-Jul-21	PM	7.30	3060	6-Aug-21	PM	MANUAL PUMP			17.1	NO VOLUME - NO SAMPLE-
42-II	12.57	16.22	2	7.30	\	5	12-Jul-21	PM	7.70	3940	29-Jul-21	AM	MANUAL PUMP	6.84	3310	18.3	Murky brown
42-III	10.73	14.63	2	7.80	\	4	12-Jul-21	PM	7.44	4560	29-Jul-21	AM	MANUAL PUMP	7.27	3420	18.5	Murky grey

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WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
43-I	10.57	14.40	2	7.66	23.0	23	30-Jul-21	AM	7.05	6190	30-Jul-21	AM	MANUAL PUMP	7.07	6080	12	Clear
43-II	10.60	11.93	1	2.66	8.0	8	30-Jul-21	AM	7.08	2690	30-Jul-21	AM	MANUAL PUMP	7.13	2930	12.0	Clear
44-I	6.78	9.99	1	6.42	19.3	DRY X3	28-Jul-21	PM	7.37	2200	28-Jul-21	PM	MANUAL PUMP	7.41	1010	13	Clear
44-II	3.00	6.02	1	6.04	18.1	DRY X3	28-Jul-21	PM	7.42	1190	28-Jul-21	PM	MANUAL PUMP	7.42	2810	14.6	Clear
45-I	6.30	10.60	1	8.60	25.8	DRY X3	28-Jul-21	PM	7.74	780	28-Jul-21	PM	MANUAL PUMP	7.48	791	13.9	Clear
45-II	4.92	7.75	1	5.66	17.0	DRY X3	28-Jul-21	PM	7.72	789	28-Jul-21	PM	MANUAL PUMP	7.46	1030	14.2	Clear
46-IR	8.10	15.36	2	14.52	43.6	DRY X3	28-Jul-21	PM	8.67	7430	28-Jul-21	PM	MANUAL PUMP	7.86	6000	15	Clear
46-IIR	4.90	7.06	1	4.32	13.0	13	13-Jul-21	AM	7.61	2220	28-Jul-21	PM	MANUAL PUMP	7.87	2590	15.6	Clear
46-IIIR	2.92	4.19	2	2.54	7.6	4	13-Jul-21	AM	6.34	1749	28-Jul-21	PM	MANUAL PUMP	7.97	2590	16.6	Clear
47-I	15.80	18.41	2	5.22	15.7	16	3-Aug-21	AM	7.58	1139	3-Aug-21	AM	MANUAL PUMP	7.35	1028	12.7	Clear
47-IIR	9.98	15.20	2	10.44	31.3	32	3-Aug-21	AM	7.38	3800	3-Aug-21	AM	MANUAL PUMP	7.27	3820	12.4	Clear
47-III	9.74	11.60	1	3.72	11.2	11	3-Aug-21	AM	7.08	3280	3-Aug-21	AM	MANUAL PUMP	7.20	1988	12.7	DUPLICATE 3-I Clear
47-IV	8.60	9.11	1	1.02	3.1	4	15-Jul-21	PM	7.03	1490	3-Aug-21	AM	BAILER	7.40	1115	21.8	Clear

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WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION				PREPURGE					SAMPLE					COMMENTS
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP		
48-I	21.06	28.91	3	15.70	47.1	47	3-Aug-21	AM	7.01	6920	3-Aug-21	AM	MANUAL PUMP	6.99	9520	13.8	Clear
48-II	17.65	20.88	2	6.46	19.4	20	3-Aug-21	AM	7.06	4300	3-Aug-21	AM	MANUAL PUMP	7.08	4310	13.5	Clear
48-IV	9.17	10.60	1	2.86	8.6	DRY X3	3-Aug-21	AM	7.48	1196	3-Aug-21	AM	MANUAL PUMP	7.23	3390	15.2	Clear
48-V	11.75	14.20		4.90	14.7	15	3-Aug-21	AM	7.09	4380	3-Aug-21	AM	MANUAL PUMP	7.13	4430	16.2	DUPLICATE 12-IV Clear
49-II	15.53	27.19	3	23.32	70.0	70	30-Jul-21	AM	7.31	3600	30-Jul-21	AM	MANUAL PUMP	7.42	11640	14.6	Grey
49-IV	10.94	14.46	2	7.04	21.1	21	30-Jul-21	AM	7.66	3170	30-Jul-21	AM	MANUAL PUMP	7.69	3150	15	Clear with some Black
49-V	15.55	20.06		9.02	27.1	27	30-Jul-21	AM	8.01	3110	30-Jul-21	AM	MANUAL PUMP	7.43	3260	19.7	Grey
50-II	14.27	17.52	2	6.50	19.5	DRY X1	30-Aug-21	AM	7.23	4620	30-Aug-21	AM	MANUAL PUMP	7.28	4170	21.0	Clear to Murky Brown
51-IV	15.87	20.26	2	8.78	26.3	26	6-Aug-21	PM	7.11	4350	6-Aug-21	PM	MANUAL PUMP	7.14	4670	13.8	Dark Brwon sediment to clear
51-V	12.75	15.94	2	6.38	\	DRY X1	4-Aug-21	AM	7.68	3020	6-Aug-21	PM	MANUAL PUMP	7.42	1909	15.6	Clear
52-I	13.03	20.02	2	13.98	41.9								MANUAL PUMP				NO VOLUME
52-II	13.10																SEE LOW FLOW SPREADSHEET REPORT
52-III	10.77	11.31	1	1.08	\	2	15-Jul-21	PM	6.70	951.5	9-Aug-21	AM	BAILER	7.40	956.5	16.6	Silty brown

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WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE					SAMPLE					COMMENTS	
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP		
56-I	8.92	10.76	1	3.68	11.0	11	26-Jul-21	PM	6.86	2390	26-Jul-21	PM	MANUAL PUMP	7.05	2390	13.7	DUPLICATE 11-II Clear
56-II	6.63	7.60	1	1.94	5.8								MANUAL PUMP				NO VOLUME
57-IR	12.05	16.46	2	8.82	26.5	26	30-Jul-21	PM	9.96	10330	30-Jul-21	PM	MANUAL PUMP	10.68	11000	15.0	Foamy Green Tinge
57-II	10.15	11.30	1	2.30	\	3	13-Jul-21	AM	12.95	3130	6-Aug-21	AM	MANUAL PUMP	12.25	3540	18.6	Clear *as of July 30th no response
58-I	10.17	13.36	2	6.38	19.1	20	28-Jul-21	AM	10.90	7210	28-Jul-21	AM	MANUAL PUMP	12.13	6580	18.1	Yellow Surfactant odour
60-I	14.35	16.67	2	4.64	13.9	14	30-Jul-21	PM	7.32	6870	30-Jul-21	PM	MANUAL PUMP	7.34	6820	12.9	DUPLICATE 11-I Clear
60-II	8.82	13.63	2	9.62	28.9	30	30-Jul-21	PM	7.31	4150	30-Jul-21	PM	MANUAL PUMP	7.27	4130	14.4	Clear
60-III	8.25	10.43	1	4.36	13.1	DRY X3	30-Jul-21	PM	6.88	3990	30-Jul-21	PM	MANUAL PUMP	7.08	3310	12.1	Clear
60-IV	17.85	23.28	3	10.86	32.6	33	30-Jul-21	PM	7.17	7980	30-Jul-21	PM	MANUAL PUMP	7.21	7450	13.4	Clear
61-I	15.53	19.03	2	7.00	21.0	21	30-Jul-21	AM	7.25	4360	30-Jul-21	AM	MANUAL PUMP	7.37	4340	14.9	Clear -dead earwigs-
61-II	12.41	16.11	2	7.40	\	DRY X1	29-Jul-21	AM	7.52	3560	30-Jul-21	AM	MANUAL PUMP	7.61	3650	18.0	Clear
61-III	9.82	11.82	1	4.00	12.0	12	30-Jul-21	AM	7.33	3560	30-Jul-21	AM	MANUAL PUMP	7.36	3820	16.9	Clear

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WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
62-I	9.28	14.61	2	10.66	32.0	DRY X3	27-Jul-21	PM	7.76	6990	27-Jul-21	PM	MANUAL PUMP	7.57	6920	13.2	Clear
62-II	9.48	11.8	1	4.64	13.9	DRY X3	27-Jul-21	PM	7.60	4670	27-Jul-21	PM	MANUAL PUMP	7.50	5890	14.2	Clear
62-III	3.10	5.90	1	5.60	16.8	DRY X3	27-Jul-21	PM	7.76	1420	27-Jul-21	PM	MANUAL PUMP	7.67	1770	14.3	Grey
62-IV	2.20	3.05	1	1.70	5.1	DRY X1	27-Jul-21	PM	7.81	3120	27-Jul-21	PM	MANUAL PUMP	7.86	2910	15.9	Grey
67-I	11.10	15.00	2	7.80	23.4	DRY X3	28-Jul-21	PM	7.86	5050	28-Jul-21	PM	MANUAL PUMP	7.87	5710	13.6	DUPLICATE 4-II Clear
67-II	8.74	9.73	1	1.98	5.9	DRY X3	28-Jul-21	PM	7.80	4370	30-Jul-21	PM	MANUAL PUMP	7.41	4210	13.8	Clear
67-III	6.12	7.35	1	2.46	7.4	DRY X1	28-Jul-21	PM	7.70	3000	30-Jul-21	PM	MANUAL PUMP	7.37	3620	14	Clear
68-I	17.83	21.00	2	6.34	19.0	DRY X3	26-Jul-21	PM	7.74	7070	27-Jul-21	PM	MANUAL PUMP	8.00	4880	16.5	Clear
68-II	13.00	13.62	2	1.24	3.7	DRY X3	26-Jul-21	PM	7.56	4960	27-Jul-21	PM	MANUAL PUMP	7.52	4160	15.8	DUPLICATE 2-IV Clear
68-III	6.90	10.92	1	8.04	\	11	12-Jul-21	PM	9.76	6660	27-Jul-21	PM	MANUAL PUMP	8.72	5510	14.6	Clear, Sulphur odour
68-IV	5.40	6.11	1	1.42	\	3	12-Jul-21	PM	7.85	1015	27-Jul-21	PM	MANUAL PUMP	8.14	3650	15.4	Clear, Sulphur odour
72-I	22.07	34.96	4	25.78	77.3	25	14-Jul-21	AM	6.13	138400	4-Aug-21	AM	MANUAL PUMP	6.26	136200	16.4	Clear
72-II	22.20	28.35	3	12.30	36.9	37	4-Aug-21	am	3.46	53400	4-Aug-21	AM	MANUAL PUMP	6.65	60800	16.2	DUPLICATE 11-III Clear
72-III	17.28	25.55	3	16.54	49.6	15	14-Jul-21	AM	6.73	17270	4-Aug-21	AM	MANUAL PUMP	6.86	20100	15.5	Clear, Sulphur odour

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			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
75-I	7.82	14.94	2	14.24	42.7	DRY X3	27-Jul-21	PM	7.89	7360	27-Jul-21	PM	MANUAL PUMP	7.39	6600	15.2	Clear
75-II	7.78	11.88	1	8.20	24.6	DRY X3	27-Jul-21	PM	7.72	5140	27-Jul-21	PM	MANUAL PUMP	7.09	5070	14.5	Clear
75-III	2.75	5.76	1	6.02	18.1	DRY X3	27-Jul-21	PM	7.72	3140	27-Jul-21	PM	MANUAL PUMP	7.43	2990	14.5	DUPLICATE 2-I Clear
75-IV	3.67	4.02	0	0.70	2.1								MANUAL PUMP				NO VOLUME
76-I	12.70	17.92	2	10.44	31.3	11	12-Jul-21	AM	6.21	116500	28-Jul-21	PM	MANUAL PUMP	7.86	112800	14.6	Grey tint
76-II	5.68	9.16	1	6.96	20.9	DRY X3	28-Jul-21	PM	7.46	2900	28-Jul-21	PM	MANUAL PUMP	7.49	4710	14.9	Clear
76-III	4.95	7.12	1	4.34	13.0	DRY X3	28-Jul-21	PM	7.32	2130	28-Jul-21	PM	MANUAL PUMP	7.49	3070	14.3	Clear
77-I	16.55	32.20	4	31.30	93.9	85	13-Jul-21	PM	6.60	154000	4-Aug-21	AM	MANUAL PUMP	6.35	143400	17.2	Cloudy grey to cloudy white
77-II	20.05	27.10	3	14.10	42.3	45	13-Jul-21	PM	6.44	118300	4-Aug-21	AM	MANUAL PUMP	6.19	116800	18.8	Silty grey to cloudy
77-III	9.39	14.81	3	10.84	32.5	32	4-Aug-21	AM	7.19	3520	4-Aug-21	AM	MANUAL PUMP	7.37	7230	15.3	DUPLICATE 12-I Dark grey to clear
P1-I	13.28	20.34	2	14.12	42.4	45	29-Jul-21	PM	6.58	5430	29-Jul-21	PM	MANUAL PUMP	6.33	5340	15.7	DUPLICATE 2-III Clear
P1-II	13.26	15.95	2	5.38	16.1	16	29-Jul-21	PM	7.49	5440	29-Jul-21	PM	MANUAL PUMP	6.52	5330	15.7	Clear
P1-III	3.45	9.17	1	11.44	34.3	DRY X3	29-Jul-21	PM	6.69	1279	30-Jul-21	AM	MANUAL PUMP	7.56	2110	16.1	Clear to silty grey
P2-I	19.57	20.60	2	2.06	6.2								MANUAL PUMP				NO VOLUME

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			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
P2-II	15.03	15.30	2	0.54	1.6								MANUAL PUMP				NO VOLUME
P3-I	18.85	19.70	2	1.70	5.1								MANUAL PUMP				NO VOLUME
P3-II	9.62	12.65	1	6.06	18.2	DRY X3	29-Jul-21	PM	7.54	2680	30-Jul-21	AM	MANUAL PUMP	8.26	3280	17	Dark Grey
P3-III	14.63	15.44	2	1.62	4.9	5	29-Jul-21	PM	6.46	3210	30-Jul-21	AM	MANUAL PUMP	7.08	3620	15.7	Clear
P4-I	18.12	21.19	2	6.14	18.4	DRY X3	26-Jul-21	PM	8.98	10200	26-Jul-21	AM	MANUAL PUMP	8.12	10100	15.1	Clear
P4-II	10.07	13.07	1	6.00	\	DRY X1	26-Jul-21	AM	9.35	9370	26-Jul-21	AM	MANUAL PUMP	10.08	11800	16.1	DUPLICATE 4-IV Grey
P4-III	13.89	15.88	2	3.98	11.9	DRY X3	26-Jul-21	AM	8.74	9390	26-Jul-21	AM	MANUAL PUMP	7.96	9420	15.3	Clear
P4-IV	5.36	5.57	1	0.42	1.3								BAILER				NO VOLUME
P5-IR	15.07	21.48	2	12.82	38.5	40	29-Jul-21	AM	7.65	7010	29-Jul-21	AM	MANUAL PUMP	7.85	6200	14.5	Clear
P5-IIR	12.33	14.86	2	5.06	15.2	15	29-Jul-21	AM	7.19	3720	29-Jul-21	AM	MANUAL PUMP	7.25	3110	15.5	Clear
P5-IIIR	6.85	10.88	1	8.06	24.2	DRY X3	29-Jul-21	AM	8.75	6260	29-Jul-21	AM	MANUAL PUMP	8.75	5830	15.6	Clear
P5-IVR	6.00	6.97	1	1.94	5.8	DRY X3	29-Jul-21	AM	7.02	1329	29-Jul-21	PM	BAILER	6.45	1212	17.6	Dark grey sediment
P6-IR	10.30	15.52	2	10.44	31.3	31	3-Aug-21	PM	10.17	10120	3-Aug-21	PM	BAILER	10.21	10410	17.9	Clear

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
P7-1R	19.52	27.80	3	16.56	\	17	12-Jul-21	PM	9.45	1959	28-Jul-21	AM	BAILER	9.34	3330	14.5	Cloudy grey
P7-II	17.25	19.41	2	4.32	13.0	DRY X3	28-Jul-21	AM	9.06	3640	28-Jul-21	AM	MANUAL PUMP	8.99	5760	15.8	Cloudy
P7-III	10.52	15.92	2	10.80	32.4	DRY X1	28-Jul-21	AM	9.42	4590	28-Jul-21	AM	MANUAL PUMP	9.40	3790	14.1	Clear
P7-IV	10.25	12.64	1	4.78	14.3	DRY X1	28-Jul-21	AM	8.44	2280	28-Jul-21	AM	MANUAL PUMP	9.83	1870	14.8	Clear
P8-I	17.50	18.54	2	2.08	\	2	12-Jul-21	PM	6.90	15230	28-Jul-21	PM	MANUAL PUMP	7.40	15800	20.3	Oily smell, black Emptied tubing to purge
P8-II	9.12	10.28	1	2.32	7.0	DRY X3	28-Jul-21	AM	8.11	2770	12-Aug-21	PM	BAILER	7.60	1809	15.9	Cloudy
P9-I	11.23	17.65	2	12.84	\	13	12-Jul-21	AM	7.22	10890	27-Jul-21	AM	MANUAL PUMP	7.87	7620	15.1	Cloudy grey
P9-II	8.00	9.98	1	3.96	\	DRY X1	27-Jul-21	AM	8.02	5210	27-Jul-21	AM	MANUAL PUMP	8.25	3080	15.9	DUPLICATE 2-II Clear
P9-III	10.58	13.56	2	5.96	\	DRY X1	27-Jul-21	AM	8.28	4110	27-Jul-21	AM	MANUAL PUMP	8.61	3490	14.8	Clear
P10-I	18.12	23.97	3	11.70	35.1	DRY X3	26-Jul-21	AM	7.62	9730	26-Jul-21	AM	MANUAL PUMP	8.07	9920	16.3	Clear
P10-II	13.64	16.17	2	5.06	15.2	DRY X3	26-Jul-21	AM	7.94	11900	26-Jul-21	AM	MANUAL PUMP	8.17	10100	14.7	Clear
P10-III	7.40	13.69	2	12.58	\	DRY X1	26-Jul-21	AM	7.80	8680	26-Jul-21	AM	MANUAL PUMP	7.82	8040	15.7	Clear
P10-IV	7.10	10.20	1	6.20	18.6	DRY X3	26-Jul-21	AM	7.93	5090	26-Jul-21	AM	MANUAL PUMP	8.20	4300	14.8	Clear

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
P10-V	5.00	5.70	1	1.40	4.2	2	14-Jul-21	PM	7.14	2530	3-Aug-21	PM	BAILER	7.35	993	17.9	Clear with some sediment
P11-I	18.50	22.34	3	7.68	23.0	DRY X3	26-Jul-21	PM	8.81	6130	26-Jul-21	PM	MANUAL PUMP	8.04	7380	16	Clear
P11-II	15.60	17.50	2	3.80	11.4	DRY X1	26-Jul-21	PM	8.45	1870	26-Jul-21	PM	MANUAL PUMP	8.24	2330	15.7	Clear
P11-III	9.35	13.11	1	7.52	22.6	DRY X3	26-Jul-21	PM	9.74	3530	26-Jul-21	PM	MANUAL PUMP	9.75	3390	16.6	DUPLICATE 4-III Clear
P12	13.17	14.44	2	2.54	7.6	DRY X3	28-Jul-21	AM	9.23	1815	28-Jul-21	AM	MANUAL PUMP	10.88	1870	16.9	Clear
P14	7.50	10.96	1	6.92	20.8	DRY X1	3-Aug-21	PM	8.05	2140	6-Aug-21	PM	MANUAL PUMP	9.79	7240	14.6	Clear
P15	7.50	10.01	1	5.02	15.1	DRY X1	28-Jul-21	AM	10.05	9800	29-Jul-21	PM	MANUAL PUMP	9.03	9160	15.6	Clear
P16	5.05	9.45	1	8.80	26.4	26	28-Jul-21	AM	8.12	2210	28-Jul-21	AM	MANUAL PUMP	8.13	2130	14	Clear with black parts
P17	6.32	10.12	1	7.60	22.8	DRY X3	28-Jul-21	AM	9.92	7890	28-Jul-21	AM	MANUAL PUMP	9.87	8800	14.5	Green tinge, odour
G11	5.40	7.36	1	3.92	\	4	30-Jul-21	PM	7.23	5540	30-Jul-21	PM	MANUAL PUMP	7.21	4570	13.1	Clear
G13	5.20	6.69	1	2.98	8.9	5	30-Jul-21	PM	7.22	2440	30-Jul-21	PM	MANUAL PUMP	7.28	2160	12.8	Clear
G24	5.71	8.88	1	6.34	19.0	DRY X3	26-Jul-21	AM	8.03	2370	26-Jul-21	AM	MANUAL PUMP	7.76	1770	16.5	Black
G27	9.17	13.15	1	7.96	23.9	DRY X3	28-Jul-21	AM	8.07	1390	28-Jul-21	AM	MANUAL PUMP	8.18	1400	15.5	Brown
ST1	7.06	10.60	1	7.08	21.2	DRY X1	29-Jul-21	PM	7.79	8070	30-Jul-21	AM	MANUAL PUMP	8.01	8190	13	Blackish with black parts

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
ST2	7.27	10.00	1	5.46	16.4	DRY X1	29-Jul-21	PM	9.68	11630	30-Jul-21	AM	MANUAL PUMP	9.61	7710	12.1	Clear
LS1	22.40	22.48	3	LEACH - STRAIGHT SAMPLE									MANUAL PUMP				NO VOLUME FOR SAMPLE - QUARTERLY SAMPLE TAKEN AT MAIN PUMPING STATION
LS2	12.27	13.89	2	LEACH - STRAIGHT SAMPLE									MANUAL PUMP				NO VOLUME FOR SAMPLE - QUARTERLY SAMPLE TAKEN AT MAIN PUMPING STATION
LS3	---	15.38	2	LEACH - STRAIGHT SAMPLE									MANUAL PUMP				*NOT ACCESSIBLE DUE TO STRIPPING OF CAP ON PHASE - QUARTERLY SAMPLE TAKEN AT MAIN PUMPING STATION
M4	6.75	Pumping Well						12-Aug-21	AM			PUMP	7.35	4120	14.3	Clear	
CW3	8.27	Pumping Well						18-Aug-21	AM			PUMP	10.12	1230	12.4	Clear	
CW5R	8.77	Pumping Well						13-Aug-21	PM			PUMP	9.84	9420	18.9	Clear	
CW16	5.92	Pumping Well						12-Aug-21	AM			PUMP	7.51	1918	13.4	Oily sheen on top	
L1	14.71	Pumping Well						12-Aug-21	AM			PUMP	7.25	5450	15.2	Clear, Sulphur odour	
M5R	9.09	Pumping Well						12-Aug-21	AM			PUMP	8.45	4940	17.4	Clear	
M5A	7.16	Pumping Well										PUMP				PUMP IS NOT OPERATIONAL AT THIS TIME	
GW-PS	15.93	Pumping Well										PUMP				PUMP IS NOT OPERATIONAL AT THIS TIME	
PD	13.00	Pumping Well										PUMP				PUMP IS NOT OPERATIONAL AT THIS TIME	

GFL ENVIRONMENTAL

BLIND DUPLICATES LOG

Year: 2021

East Landfill Locations

Fictitious Sample No	January MONITOR	April MONITOR	July MONITOR	October MONITOR
3-I	47-IIR	40-II	47-IIIR	29-IV
3-II	56-I	49-IV	40-I	40-II
11-I	60-III	47-I	60-I	48-I
11-II	48-V	48-I	56-I	60-II
11-III	61-I	60-IV	72-II	61-II
12-I	29-I	72-III	77-III	72-I
12-II	51-IV	61-III	29-I	49-II
12-IV	40-III	29-IV	48-V	47-I

West Landfill Locations

Fictitious Sample No #	January MONITOR	April MONITOR	July MONITOR	October MONITOR
2-I	68-I	44-I	75-III	44-II
2-II	57-I	35-III	P9-II	35-IV
2-III	45-I	P4-I	P1-I	P7-IR
2-IV	75-I	43-I	68-II	P11-I
4-I	P4-III	P7-I	41-III	41-I
4-II	P7-II	P10-II	67-I	43-I
4-III	62-I	62-III	P11-III	P16
4-IV	P10-I	46-IR	P4-II	P4-I

Form QA-01
Apr-07
Revision 02

**GFL ENVIRONMENTAL
GROUNDWATER PRE-PURGE**

MONITOR	VOLUME PURGED	PURGE DATE	Time	CHEMISTRY			EMPTY TUBING	COMMENTS
				pH	COND.	TEMP.		
31-II	3	13-Oct	AM	9.41	343	16.5	N	CLEAR
33-I	9	13-Oct	PM	8.26	2610	20.7	N	DARK GREY
33-II	8	13-Oct	PM	8.25	900	20.1	N	GREY
42-I	3X DRY	15-Oct	PM	7.21	4530	12.3	N	CLEAR
42-II	7	15-Oct	PM	7.65	1281	13.0	N	CLEAR
42-III	37	15-Oct	PM	7.36	4750	11.4	N	CLEAR
46-IIR	17	15-Oct	PM	7.54	1926	13.3	N	CLEAR
46-IIIR	3X DRY	15-Oct	PM	6.92	2860	15.8	N	CLOUDY BEIGE THEN CLEARED UP
57-II	3X DRY	13-Oct	PM	12.91	6350	15.6	N	CLEAR
68-III	19	13-Oct	AM	9.27	7760	13	N	CLEAR
68-IV	2.5	13-Oct	AM	7.62	983	15.7	N	CLEAR
72-I	25	14-Oct	PM	6.33	139400	15.8	N	CLOUDY
72-III	20	14-Oct	PM	7.05	18860	14.7	N	CLEAR

**GFL ENVIRONMENTAL
GROUNDWATER PRE-PURGE**

MONITOR	VOLUME PURGED	PURGE DATE	Time	CHEMISTRY			EMPTY TUBING	COMMENTS
				pH	COND.	TEMP.		
76-I	3X DRY	13-Oct	PM	6.39	117800	12.3	N	CLEAR
77-I	35	14-Oct	PM	6.47	145300	15.9	N	SLIGHTLY CLOUDY LIGHT BROWN
77-II	21	14-Oct	PM	6.37	115600	15.3	N	SLIGHTLY CLOUDY LIGHT BROWN
P7-IR	43	14-Oct	AM	7.82	6340	15.0	N	SLIGHTLY CLOUDY GREY
P8-I	2	14-Oct	AM	6.88	15660	21.9	N	BLACK ODOUROUS
P9-I	3X DRY	13-Oct	PM	7.37	10200	13.5	N	SULFUR ODOUR CLEAR
35-VII	3X DRY	13-Oct	AM	7.32	841	12.6	N	CLOUDY GREY THEN CLEARED UP

Apr-09
Revision 02

GFL ENVIRONMENTAL

Purging and Sampling Field Form - 4TH QUARTER

Month: October-21

Daily Weather: OCT 25 - HEAVY RAINFALL WINDY - HIGH 9
OCT 26 - HEAVY RAINFALL - DAMP COOL - HIGH 7
OCT 27 - SUN/CLOUD - CALM - HIGH 15
OCT 28 - SUN/CLOUD - HIGH 13
OCT 29 - CLOUDY RAIN HIGH 12
NOV 1 - SUN/CLOUD VERY WINDY HIGH 9
NOV 2 - SUN/CLOUD VERY WINDY HIGH 7

NOV 3 - SUNNY THEN CLOUDY WITH FLURRIES - HIGH 6
NOV 4 - SUN/CLOUD HIGH 6
NOV 5 - SUN/CLOUD HIGH 9

CONVERSION FACTORS FOR PIPE SIZE:
(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
9-I	8.51	12.20	1	2.92	\	4	1-Nov-21	AM	7.63	1592	5-Nov-21	PM	BAILER	7.54	1881	14.1	CLOUDY
14-I	3.47	10.30	1	5.40	\	6	2-Nov-21	AM	7.53	1629	2-Nov-21	AM	MANUAL PUMP	7.95	1522	12.7	CLEAR TO GREY
29-I	8.98	11.38	1	4.80	14.4	DRY X3	5-Nov-21	AM	7.02	4430	5-Nov-21	AM	MANUAL PUMP	7.66	4280	15.3	CLEAR
29-II	2.32	4.93	1	5.22	\	DRY X3	5-Nov-21	AM	7.86	1803	5-Nov-21	AM	MANUAL PUMP	7.90	1762	16.5	CLEAR
29-IV	10.82	15.45	2	9.26	27.8	28	5-Nov-21	AM	7.60	4240	5-Nov-21	AM	MANUAL PUMP	7.73	4200	13.8	DUPLICATE 3-I CLEAR
30-I	10.89	14.79	2	7.80	23.4	DRY X3	11/1/201	AM	12.60	3110	1-Nov-21	AM	MANUAL PUMP	12.78	3320	14	CLEAR TO CLOUDY FOAMY
30-II	9.51	11.10	1	3.18	9.5	DRY X3	11/1/201	AM	10.80	1257	1-Nov-21	AM	MANUAL PUMP	10.70	1308	13.7	CLEAR

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
31-I	10.32	14.63	2	8.62	\	DRY X3	25-Oct-21	PM	9.30	682.3	25-Oct-21	PM	MANUAL PUMP	10.26	4970	13.5	MURKY
31-II	7.52	9.23	1	3.42	10.3	3	13-Oct-21	AM	9.41	343	25-Oct-21	PM	MANUAL PUMP	8.85	560	16.5	BOD - CLEAR
31-III	8.74	13.20	1	8.92	26.8	27	25-Oct-21	PM	8.28	1899	25-Oct-21	PM	MANUAL PUMP	8.40	2010	12.8	CLEAR
32-II	9.37	10.27	1	1.80	5.4	DRY X3	2-Nov-21	PM	2.46	3740	5-Nov-21	PM	MANUAL PUMP	3.53	3050	14	BOD SILTY BROWN
33-I	11.29	12.66	1	2.74	\	9	13-Oct-21	PM	8.26	2610	25-Oct-21	PM	MANUAL PUMP	8.64	467	20.7	DARK GREY
33-II	11.46	12.74	1	2.56	7.7	8	13-Oct-21	PM	8.25	900	25-Oct-21	PM	MANUAL PUMP	8.57	359	20.1	BOD, ORGANICS - GREY
35-III	18.78	23.05	3	8.54	25.6	DRY X3	25-Oct-21	PM	8.29	4160	25-Oct-21	PM	MANUAL PUMP	8.88	4580	11.5	ORGANICS CLEAR
35-IV	8.21	14.22	2	12.02	36.1	DRY X3	25-Oct-21	PM	9.35	13300	27-Oct-21	AM	MANUAL PUMP	8.65	12900	11.7	ORGANICS - DUPLICATE 2-II CLEAR
35-V	4.57	7.32	1	5.50	16.5	DRY X3	25-Oct-21	PM	8.57	3040	25-Oct-21	PM	MANUAL PUMP	8.56	1800	12.5	ORGANICS CLEAR
35-VI	15.10	16.79	2	3.38	10.1	DRY X3	25-Oct-21	PM	8.12	10700	25-Oct-21	PM	MANUAL PUMP	8.12	9840	11.3	ORGANICS CLEAR
35-VII	7.23	10.09	1	5.72	\	3X DRY	13-Oct-21	AM	7.32	841	25-Oct-21	PM	MANUAL PUMP	8.53	1560	12.6	ORGANICS - CLOUDY GREY THEN CLEARED UP

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
36-IR	18.09	21.86	2	7.54	22.6	DRY X3	27-Oct-21	AM	6.99	7540	27-Oct-21	AM	MANUAL PUMP	6.84	7700	12.7	CLEAR
36-IIR	22.24	29.05	3	13.62	40.9	DRY X3	27-Oct-21	AM	6.59	25900	27-Oct-21	AM	MANUAL PUMP	6.54	17800	12.5	CLEAR
36-IIIR	10.06	19.22	2	18.32	55.0	DRY X3	27-Oct-21	AM	6.79	5690	1-Nov-21	AM	MANUAL PUMP	7.86	5260	12.3	CLEAR
36-IVR	6.57	8.28	1	3.42	10.3	DRY X3	27-Oct-21	AM	7.35	2420	27-Oct-21	AM	MANUAL PUMP	7.41	1590	12.5	GREY
36-VR	10.59	15.37	2	9.56	28.7	DRY X3	27-Oct-21	AM	6.96	3650	27-Oct-21	AM	MANUAL PUMP	7.82	4130	12.1	GREY
40-I	9.39	12.66	1	6.54	\	DRY X3	29-Oct-21	AM	6.89	3700	5-Nov-21	AM	MANUAL PUMP	7.65	3520	14	CLEAR
40-II	1.51	7.80	1	12.58	\	DRY X3	29-Oct-21	AM	6.89	4160	29-Oct-21	AM	MANUAL PUMP	6.96	3550	14.5	DUPLICATE 3-II CLEAR
40-III	1.52	6.02	1	9.00	27.0	DRY X3	29-Oct-21	AM	6.94	4150	29-Oct-21	AM	MANUAL PUMP	6.95	3590	14.5	CLEAR
41-I	10.93	13.10	1	4.34	13.0	DRY X3	27-Oct-21	PM	6.94	4480	27-Oct-21	PM	MANUAL PUMP	6.64	3890	11.8	ORGANICS - DUPLICATE 4-I CLEAR
41-II	5.28	8.09	1	5.62	16.9	DRY X1	27-Oct-21	PM	6.67	1760	27-Oct-21	PM	MANUAL PUMP	6.62	1290	12	ORGANICS GREY
41-III	0.82	5.23	1	8.82	26.5	DRY X3	27-Oct-21	PM	6.60	1870	27-Oct-21	PM	MANUAL PUMP	6.75	1990	12.4	GREY
42-I	19.37	21.59	2	4.44	13.3	3X DRY	15-Oct-21	PM	7.21	4530	1-Nov-21	AM	MANUAL PUMP	7.34	4830	12.3	CLEAR
42-II	12.04	16.22	2	8.36	\	7	15-Oct-21	PM	7.65	1281	1-Nov-21	AM	MANUAL PUMP	7.77	2700	13	CLEAR
42-III	9.96	14.63	2	9.34	\	37	15-Oct-21	PM	7.36	4750	1-Nov-21	AM	MANUAL PUMP	7.66	3930	11.4	CLEAR

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
43-I	10.27	14.40	2	8.26	24.8	25	25-Oct-21	AM	8.27	5600	25-Oct-21	AM	MANUAL PUMP	7.26	4800	11.4	DUPLICATE 4-II CLEAR
43-II	10.36	11.93	1	3.14	9.4	DRY X3	25-Oct-21	AM	7.40	1972	25-Oct-21	AM	MANUAL PUMP	7.43	2460	11.1	CLEAR
44-I	6.41	9.99	1	7.16	21.5	22	2-Nov-21	AM	7.57	2110	3-Nov-21	AM	MANUAL PUMP	7.68	2360	13.4	ORGANICS CLEAR
44-II	1.89	6.02	1	8.26	24.8	25	2-Nov-21	AM	7.61	925.4	3-Nov-21	AM	MANUAL PUMP	7.58	855.4	13.7	ORGANICS - DUPLICATE 2-I CLEAR
45-I	5.79	10.60	1	9.62	28.9	30	2-Nov-21	AM	7.57	780.1	2-Nov-21	AM	MANUAL PUMP	7.54	785.4	12.6	CLEAR
45-II	4.34	7.75	1	6.82	20.5	21	2-Nov-21	AM	7.59	785.9	2-Nov-21	AM	MANUAL PUMP	7.51	1020	13.4	CLEAR
46-IR	7.75	15.36	2	15.22	45.7	17	15-Oct-21	PM	7.54	1926	3-Nov-21	PM	MANUAL PUMP	7.72	5410	13.3	CLEAR
46-IIR	4.39	7.06	1	5.34	16.0	3X DRY	15-Oct-21	PM	6.92	2860	3-Nov-21	PM	MANUAL PUMP	8.02	1787	15.8	CLOUDY BEIGE THEN CLEARED UP
46-IIIR	1.17	4.19	2	6.04	18.1	18	3-Nov-21	PM	7.42	1838	3-Nov-21	PM	MANUAL PUMP	7.52	1839	15	CLEAR TO SILTY BROWN
47-I	15.36	18.41	2	6.10	18.3	DRY X3	29-Oct-21	PM	6.91	3900	29-Oct-21	PM	MANUAL PUMP	6.79	4120	12.5	ORGANICS - DUPLICATE 12-IV CLEAR
47-IIR	9.19	15.20	2	12.02	36.1	DRY X3	29-Oct-21	PM	6.95	2200	29-Oct-21	PM	MANUAL PUMP	6.78	2090	12.8	ORGANICS CLEAR
47-IIIR	9.09	11.60	1	5.02	15.1	DRY X3	29-Oct-21	PM	6.67	3610	29-Oct-21	PM	MANUAL PUMP	6.92	2280	12.5	ORGANICS CLEAR
47-IV	8.08	9.11	1	2.06	6.2	6	1-Nov-21	PM	7.53	849	5-Nov-21	PM	BAILER	7.69	949.1	13.1	ORGANICS CLOUDY BEIGE

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION				PREPURGE					SAMPLE					COMMENTS
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP		
48-I	10.67	28.91	3	36.48	109.4	DRY X3	29-Oct-21	PM	6.25	5530	29-Oct-21	PM	MANUAL PUMP	6.62	7130	11.9	DUPLICATE 11-I CLEAR
48-II	16.88	20.88	2	8.00	24.0	DRY X3	29-Oct-21	PM	6.81	7450	29-Oct-21	PM	MANUAL PUMP	6.77	5350	12	CLEAR
48-IV	8.75	10.60	1	3.70	11.1	DRY X3	29-Oct-21	PM	6.91	1660	29-Oct-21	PM	MANUAL PUMP	6.88	2240	12.4	CLEAR
48-V	11.15	14.20		6.10	18.3	DRY X3	29-Oct-21	PM	6.69	6100	29-Oct-21	PM	MANUAL PUMP	6.70	6060	12.1	CLEAR
49-II	14.18	27.19	3	26.02	78.1	78	4-Nov-21	AM	7.66	3620	4-Nov-21	AM	MANUAL PUMP	7.44	3380	12.9	DUPLICATE 12-II CLEAR TO CLOUDY GREY
49-IV	10.36	14.46	2	8.20	24.6	25	4-Nov-21	AM	7.20	3180	4-Nov-21	AM	MANUAL PUMP	7.44	3230	13.3	CLEAR
49-V	14.82	20.06		10.48	31.4	31	4-Nov-21	AM	7.67	3490	4-Nov-21	AM	MANUAL PUMP	7.67	2400	13.8	CLEAR
50-II	14.63	17.52	2	5.78	17.3								MANUAL PUMP				CONSTRUCTION
51-IV	19.67	20.94	2	2.54	7.6	50	4-Nov-21	AM	7.35	3860	4-Nov-21	AM	MANUAL PUMP	7.30	3900	12.7	ORGANICS CLOUDY GREY
51-V	17.19	25.21	3	16.04	\	8	4-Nov-21	AM	7.99	2780	5-Nov-21	AM	MANUAL PUMP	7.97	1678	12.8	ORGANICS CLOUDY BROWN
52-II	13.10												SEE LOW FLOW SPREADSHEET REPORT				
52-III	10.31	10.71	1	0.80	\	3	1-Nov-21	PM	7.51	815.5	8-Nov-21	PM	BAILER	7.80	1028	12.1	MUDDY BROWN
56-I	8.51	10.76	1	4.50	13.5	13.5	5-Nov-21	AM	7.70	2280	5-Nov-21	AM	MANUAL PUMP	7.56	2670	13.4	CLEAR
56-II	6.40	7.60	1	2.40	7.2								MANUAL PUMP				NO VOLUME

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE					SAMPLE					COMMENTS	
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP		
57-IR	11.66	16.46	2	9.60	28.8	29	2-Nov-21	AM	10.86	9380	2-Nov-21	AM	MANUAL PUMP	12.09	11850	11.4	SLIGHTLY MURKY FOAMY
57-II	7.04	11.30	1	8.52	\	DRY X3	2-Nov-21	AM	13.50	5720	2-Nov-21	AM	MANUAL PUMP	13.53	5650	12.6	BOD, ORGANICS CLEAR
58-I	9.81	13.36	2	7.10	21.3	DRY X3	28-Oct-21	AM	11.81	8710	28-Oct-21	AM	MANUAL PUMP	11.62	7880	14.8	BOD, ORGANICS FOAM CLEAR
60-I	13.86	16.67	2	5.62	16.9	DRY X3	29-Oct-21	AM	6.97	6220	29-Oct-21	AM	MANUAL PUMP	6.93	6080	12.4	CLEAR
60-II	8.46	13.63	2	10.34	31.0	DRY X3	29-Oct-21	AM	6.78	3660	29-Oct-21	AM	MANUAL PUMP	6.99	3220	12.9	DUPLICATE 11-II CLEAR
60-III	7.30	10.43	1	6.26	18.8	DRY X3	29-Oct-21	AM	6.61	3750	29-Oct-21	AM	MANUAL PUMP	6.71	3090	12.4	CLEAR
60-IV	17.51	23.28	3	11.54	34.6	DRY X3	29-Oct-21	AM	6.92	6100	29-Oct-21	AM	MANUAL PUMP	6.76	6200	12.2	CLEAR
61-I	14.80	19.03	2	8.46	25.4	DRY X3	29-Oct-21	AM	6.72	5080	29-Oct-21	AM	MANUAL PUMP	6.66	5020	12.3	CLEAR
61-II	11.79	16.11	2	8.64	\	DRY X1	29-Oct-21	AM	6.76	4450	1-Nov-21	AM	MANUAL PUMP	7.01	3670	12.4	DUPLICATE 11-III CLEAR
61-III	9.23	11.82	1	5.18	15.5	DRY X3	29-Oct-21	AM	6.73	4720	29-Oct-21	AM	MANUAL PUMP	6.66	4460	12.5	CLEAR
62-I	9.07	14.61	2	11.08	33.2	DRY X3	27-Oct-21	PM	6.82	7580	27-Oct-21	PM	MANUAL PUMP	6.77	6740	12.7	CLEAR
62-II	9.26	11.8	1	5.08	15.2	DRY X3	27-Oct-21	PM	6.92	6750	27-Oct-21	PM	MANUAL PUMP	6.91	5920	12.7	CLEAR
62-III	2.32	5.90	1	7.16	21.5	DRY X3	27-Oct-21	PM	6.86	2250	27-Oct-21	PM	MANUAL PUMP	6.86	2080	14.3	CLEAR
62-IV	0.82	3.05	1	4.46	13.4	DRY X3	27-Oct-21	PM	6.83	1150	27-Oct-21	PM	MANUAL PUMP	6.91	1270	14.6	GREY

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION				PREPURGE				SAMPLE						
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
67-I	11.00	15.00	2	8.00	24.0	DRY X3	27-Oct-21	AM	8.31	5070	27-Oct-21	AM	MANUAL PUMP	8.37	5740	11.3	ORGANICS CLEAR
67-II	8.28	9.73	1	2.90	8.7	DRY X3	27-Oct-21	AM	7.99	3700	3-Nov-21	PM	MANUAL PUMP	7.37	3450	11.8	ORGANICS CLEAR TO BLACK
67-III	5.72	7.35	1	3.26	9.8	DRY X3	27-Oct-21	AM	8.25	1250	3-Nov-21	PM	MANUAL PUMP	7.75	1209	12	ORGANICS CLEAR
68-I	17.50	21.00	2	7.00	21.0	DRY X3	26-Oct-21	PM	8.37	6910	26-Oct-21	PM	MANUAL PUMP	8.10	5770	11.1	ORGANICS CLEAR
68-II	13.00	13.62	2	1.24	3.7	DRY X3	26-Oct-21	PM	8.01	4170	26-Oct-21	PM	MANUAL PUMP	7.96	3370	11.3	ORGANICS CLEAR
68-III	6.77	10.92	1	8.30	\	19	13-Oct-21	AM	9.27	7760	26-Oct-21	PM	MANUAL PUMP	9.93	4250	13	ORGANICS - CLEAR
68-IV	5.00	6.11	1	2.22	\	2.5	13-Oct-21	AM	7.62	983	26-Oct-21	PM	MANUAL PUMP	8.88	1340	15.7	ORGANICS - CLEAR
72-I	22.55	34.96	4	24.82	74.5	25	14-Oct-21	PM	6.33	139400	28-Oct-21	PM	MANUAL PUMP	6.27	128100	15.8	ORGANICS - DUPLICATE 12-I - CLOUDY
72-II	22.17	28.35	3	12.36	37.1	DRY X3	28-Oct-21	PM	4.90	63400	28-Oct-21	PM	MANUAL PUMP	6.64	50000	12.2	ORGANICS CLEAR
72-III	16.63	25.55	3	17.84	53.5	20	14-Oct-21	PM	7.05	18860	28-Oct-21	PM	MANUAL PUMP	7.01	22100	14.7	ORGANICS - CLEAR
75-I	7.71	14.94	2	14.46	43.4	DRY X3	26-Oct-21	AM	8.55	7340	26-Oct-21	AM	MANUAL PUMP	8.52	7390	11.5	ORGANICS CLEAR
75-II	7.67	11.88	1	8.42	25.3	DRY X3	26-Oct-21	AM	8.67	4730	26-Oct-21	AM	MANUAL PUMP	8.87	4770	11.9	ORGANICS CLEAR
75-III	2.43	5.76	1	6.66	20.0	DRY X3	26-Oct-21	AM	8.30	3650	26-Oct-21	AM	MANUAL PUMP	8.35	1150	11.9	ORGANICS BROWN
75-IV	3.38	4.02	0	1.28	3.8	DRY X3	26-Oct-21	AM	8.40	3890	3-Nov-21	PM	MANUAL PUMP	7.40	2650	12.8	ORGANICS BLACK

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
76-I	12.83	17.92	2	10.18	30.5	3X DRY	13-Oct-21	PM	6.39	117800	2-Nov-21	AM	MANUAL PUMP	6.46	109600	12.3	ORGANICS - CLEAR
76-II	5.27	9.16	1	7.78	23.3	23	2-Nov-21	AM	7.35	1240	2-Nov-21	AM	MANUAL PUMP	7.38	1187	14.6	ORGANICS CLEAR
76-III	4.50	7.12	1	5.24	15.7	16	2-Nov-21	AM	7.41	1032	2-Nov-21	AM	MANUAL PUMP	7.46	1018	13.9	ORGANICS CLEAR
77-I	19.48	32.20	4	25.44	76.3	35	14-Oct-21	PM	6.47	145300	28-Oct-21	PM	MANUAL PUMP	6.30	14700	15.9	SLIGHTLY CLOUDY LIGHT BROWN
77-II	20.23	27.10	3	13.74	41.2	21	14-Oct-21	PM	6.37	115600	28-Oct-21	PM	MANUAL PUMP	6.30	112100	15.3	SLIGHTLY CLOUDY LIGHT BROWN
77-III	9.13	14.81	3	11.36	34.1	DRY X3	28-Oct-21	PM	6.85	3680	28-Oct-21	PM	MANUAL PUMP	6.98	7130	12.1	BROWN
P1-I	13.14	20.34	2	14.40	43.2	DRY X3	27-Oct-21	PM	6.87	5900	27-Oct-21	PM	MANUAL PUMP	6.97	6020	12.9	CLEAR
P1-II	13.12	15.95	2	5.66	17.0	DRY X3	27-Oct-21	PM	7.04	4920	27-Oct-21	PM	MANUAL PUMP	6.98	5800	12.8	BLACK ODOUROUS
P1-III	2.14	9.17	1	14.06	42.2	DRY X3	27-Oct-21	PM	7.11	1750	27-Oct-21	PM	MANUAL PUMP	7.31	1540	14.7	CLEAR
P2-I	19.31	20.60	2	2.58	7.7	8	2-Nov-21	PM	7.47	5210	2-Nov-21	PM	MANUAL PUMP	7.47	5870	12.2	GREY TO CLEAR
P2-II	15.03	15.30	2	0.54	1.6								MANUAL PUMP				NO VOLUME
P3-I	18.68	19.70	2	2.04	6.1	4	5-Nov-21	AM	7.36	2220	8-Nov-21	AM	MANUAL PUMP	8.30	6210	10.5	DARK GREY WITH SEDIMENT
P3-II	9.20	12.65	1	6.90	20.7	21	2-Nov-21	PM	7.77	2010	2-Nov-21	PM	MANUAL PUMP	8.28	2290	12.6	DARK GREY
P3-III	14.60	15.44	2	1.68	5.0	3	2-Nov-21	PM	7.10	5570	2-Nov-21	PM	MANUAL PUMP	7.41	3230	12.5	CLEAR

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH		CALCULATION			PREPURGE				SAMPLE					COMMENTS	
				WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND		TEMP
P4-I	17.90	21.19	2	6.58	19.7	DRY X3	26-Oct-21	PM	8.24	9250	26-Oct-21	PM	MANUAL PUMP	9.17	10700	11.2	DUPLICATE 4-IV CLEAR
P4-II	10.08	13.07	1	5.98	\	DRY X3	26-Oct-21	PM	9.82	12700	26-Oct-21	PM	MANUAL PUMP	9.74	10800	12.3	CLEAR
P4-III	13.88	15.88	2	4.00	12.0	DRY X3	26-Oct-21	PM	8.99	10500	26-Oct-21	PM	MANUAL PUMP	9.01	11000	11.2	CLEAR
P4-IV	4.65	5.57	1	1.84	5.5	DRY X3	1-Nov-21	AM	8.12	474.9	5-Nov-21	PM	BAILER	8.32	460	14.9	CLOUDY SEDIMENT GREY
P5-IR	14.93	21.48	2	13.10	39.3	DRY X3	28-Oct-21	AM	7.17	7100	28-Oct-21	AM	MANUAL PUMP	7.90	7130	13.1	CLEAR
P5-IIR	11.98	14.86	2	5.76	17.3	DRY X3	28-Oct-21	AM	7.06	4150	28-Oct-21	AM	MANUAL PUMP	6.90	3300	12.5	CLEAR
P5-IIIR	6.61	10.88	1	8.54	25.6	DRY X3	28-Oct-21	AM	8.45	6780	28-Oct-21	AM	MANUAL PUMP	7.97	5670	12.8	CLEAR
P5-IVR	4.97	6.97	1	4.00	12.0	DRY X1	28-Oct-21	AM	6.76	1780	28-Oct-21	AM	BAILER	6.58	1620	13.7	RED/ORANGE
P6-IR	9.84	15.52	2	11.36	34.1	3 5	1-Nov-21	AM	10.82	9920	1-Nov-21	AM	MANUAL PUMP	10.76	10180	13.3	CLEAR
P7-1R	19.45	26.26	3	13.62	40.9	43	14-Oct-21	AM	7.82	6340	28-Oct-21	AM	MANUAL PUMP	7.49	9540	15.0	DUPLICATE 2-III - SLIGHTLY CLOUDY GREY
P7-II	17.17	19.41	2	4.48	13.4	DRY X3	28-Oct-21	AM	8.99	3610	28-Oct-21	AM	MANUAL PUMP	9.02	4320	12.5	CLEAR
P7-III	10.08	15.92	2	11.68	35.0	DRY X1	28-Oct-21	AM	9.02	4500	28-Oct-21	AM	MANUAL PUMP	8.53	2900	13.9	CLEAR
P7-IV	9.32	12.64	1	6.64	19.9	DRY X1	28-Oct-21	AM	8.73	1930	28-Oct-21	AM	MANUAL PUMP	9.41	2010	11.8	CLEAR

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
P8-I	17.71	18.54	2	1.66	\	2	14-Oct-21	AM	6.88	15660	5-Nov-21	PM	MANUAL PUMP	7.01	7500	21.9	BLACK ODOUROUS
P8-II	8.75	10.28	1	3.06	9.2	DRY X1	28-Oct-21	AM	7.07	2270	28-Oct-21	AM	MANUAL PUMP	7.06	2380	14.2	BROWN
P9-I	10.97	17.65	2	13.36	\	3X DRY	13-Oct-21	PM	7.37	10200	28-Oct-21	PM	MANUAL PUMP	8.62	6490	13.5	SULFUR ODOUR CLEAR
P9-II	7.75	9.98	1	4.46	\	3X DRY	28-Oct-21	PM	8.72	3730	28-Oct-21	PM	MANUAL PUMP	8.82	2340	12.3	CLEAR
P9-IIIR	9.83	13.56	2	7.46	\	3X DRY	28-Oct-21	PM	8.72	2260	28-Oct-21	PM	MANUAL PUMP	8.59	2360	11.6	CLEAR
P10-I	17.80	23.97	3	12.34	37.0	3X DRY	28-Oct-21	AM	8.20	11100	28-Oct-21	AM	MANUAL PUMP	8.26	10800	9.6	ORGANICS CLEAR
P10-II	13.61	16.17	2	5.12	15.4	3X DRY	28-Oct-21	AM	8.29	13500	28-Oct-21	AM	MANUAL PUMP	8.45	12900	10.6	ORGANICS CLEAR
P10-III	7.41	13.69	2	12.56	\	3X DRY	28-Oct-21	AM	8.88	8860	28-Oct-21	AM	MANUAL PUMP	8.09	7440	10.9	ORGANICS CLEAR
P10-IV	6.59	10.20	1	7.22	21.7	3X DRY	28-Oct-21	AM	8.66	5160	28-Oct-21	AM	MANUAL PUMP	8.79	4888	11.4	ORGANICS CLEAR
P10-V	4.15	5.70	1	3.10	9.3	9.5	1-Nov-21	AM	7.45	828.9	5-Nov-21	PM	BAILER	7.85	717.4	15.3	ORGANICS CLEAR
P11-I	18.48	22.34	3	7.72	23.2	3X DRY	27-Oct-21	AM	7.06	8440	27-Oct-21	AM	MANUAL PUMP	6.87	6610	12.3	DUPLICATE 2-IV CLEAR
P11-II	15.58	17.50	2	3.84	11.5	3X DRY	27-Oct-21	AM	6.94	2290	27-Oct-21	AM	MANUAL PUMP	6.94	2370	11.9	CLEAR
P11-III	9.05	13.11	1	8.12	24.4	3X DRY	27-Oct-21	AM	9.08	2170	27-Oct-21	AM	MANUAL PUMP	9.72	1600	12.1	CLEAR
P12	12.82	14.44	2	3.24	9.7	3X DRY	2-Nov-21	PM	10.04	1904	2-Nov-21	PM	MANUAL PUMP	9.32	1891	12.6	CLEAR

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE							
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS	
P14	7.30	10.96	1	7.32	\	3X DRY	3-Nov-21	AM	9.44	2250	3-Nov-21	PM	MANUAL PUMP	9.35	2240	12.3	CLEAR
P15	7.20	10.01	1	5.62	\	3X DRY	3-Nov-21	AM	10.89	8550	3-Nov-21	PM	MANUAL PUMP	10.82	7800	12	CLEAR
P16	4.67	9.45	1	9.56	28.7	30	3-Nov-21	AM	8.13	2280	3-Nov-21	PM	MANUAL PUMP	8.21	2200	12.2	DUPLICATE 4-III CLEAR WITH SEDIMENTS
P17	6.42	10.12	1	7.40	\	3X DRY	3-Nov-21	AM	10.71	7930	3-Nov-21	PM	MANUAL PUMP	10.76	7980	11.9	CLEAR
G11	5.26	7.36	1	4.20	\	3X DRY	5-Nov-21	AM	7.68	1776	5-Nov-21	AM	MANUAL PUMP	7.74	1791	14.1	CLEAR
G13	4.80	6.69	1	3.78	\	3X DRY	5-Nov-21	AM	7.70	1141	5-Nov-21	AM	MANUAL PUMP	7.68	1190	14.3	CLEAR
G24	4.38	8.88	1	9.00	27.0	3X DRY	28-Oct-21	AM	8.20	1950	28-Oct-21	AM	MANUAL PUMP	8.61	1210	11.8	CLEAR
G27	8.78	13.15	1	8.74	26.2	3X DRY	28-Oct-21	AM	6.97	2180	28-Oct-21	AM	MANUAL PUMP	7.02	1980	14.2	BROWN
ST1	6.81	10.60	1	7.58	22.7	3X DRY	26-Oct-21	AM	9.15	3280	1-Nov-21	AM	MANUAL PUMP	8.38	2900	11.4	CLEAR
ST2	6.99	10.00	1	6.02	18.1	3X DRY	26-Oct-21	AM	9.89	8490	1-Nov-21	AM	MANUAL PUMP	9.37	3400	11.8	CLEAR
LS1	22.40	22.48	3	LEACH - STRAIGHT SAMPLE									MANUAL PUMP				NO VOLUME FOR SAMPLE - QUARTERLY SAMPLE TAKEN AT MAIN PUMPING STATION
LS2	12.27	13.89	2	LEACH - STRAIGHT SAMPLE									MANUAL PUMP				NO VOLUME FOR SAMPLE - QUARTERLY SAMPLE TAKEN AT MAIN PUMPING STATION
LS3	---	15.38	2	LEACH - STRAIGHT SAMPLE									MANUAL PUMP				*NOT ACCESSIBLE DUE TO STRIPPING OF CAP ON PHASE - QUARTERLY SAMPLE TAKEN AT MAIN PUMPING STATION
M4	8.40	Pumping Well									5-Nov-21	AM	PUMP	7.52	3580	13.5	CLEAR

CONVERSION FACTORS FOR PIPE SIZE:

(1"=0.5) (1.25"=0.79) (1.5"=1.2) (2"=2)

WELL #	WATER LEVEL	TOTAL DEPTH	CALCULATION			PREPURGE				SAMPLE						
			WELL VOL	3X VOL	VOL PURGED	DATE	TIME	pH	COND	DATE	TIME	SAMPLE METHOD	pH	COND	TEMP	COMMENTS
CW3	8.33									5-Nov-21	AM	PUMP	10.06	1090	12.0	CLEAR
CW5	9.59									5-Nov-21	AM	PUMP	9.78	5700	12.1	CLEAR
CW16	3.42									5-Nov-21	AM	PUMP	7.53	1604	11.3	CLEAR
L1	13.11									5-Nov-21	AM	PUMP	7.29	4940	10.4	CLEAR
M5A	6.30											PUMP				PUMP IS NOT OPERATIONAL AT THIS TIME
M5R	9.00									5-Nov-21	AM	PUMP	8.21	3000	10.4	CLEAR
GW-PS	15.14											PUMP				PUMP IS NOT OPERATIONAL AT THIS TIME
PD	11.91											PUMP				PUMP IS NOT OPERATIONAL AT THIS TIME

Technical Memorandum

June 24, 2022

To	Meghan O'Brien	Tel	519-340-3926
Copy to		Email	Stephanie.berton@ghd.com
From	Stephanie Berton/an/01	Ref. No.	11103232
Subject	Field Duplicate Quality Assessment		

Laboratory:	Bureau Veritas Canada (2019) Inc. (BV)				
Date(s) Sampled:	January 11 to November 9, 2021				
Media Sampled:	Groundwater/Surface Water				
QA/QC	Criteria	Pass	Qualifiers	Fail	N/A
Holding Times	Analyte specific	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Temperature	<10°C at receipt	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample Preservation	Required container/preservatives	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Field Duplicate (blind)	Within 50% of original/<1xRL	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Field Blank (blind)	Non detect	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trip Blank	Non detect	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lab QA/QC	Within standard recoveries	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

The following results are qualified due to field duplicate variability:

Sample Date (mm/dd/yyyy)	Sample ID	Analyte	Result	Qualifier	Units
1/27/2021	29-I	Nitrite/Nitrate	0.1	UJ	mg/L
1/27/2021	12-I	Nitrite/Nitrate	0.21	J	mg/L
4/16/2021	35-III	Aluminum (dissolved)	0.0057	J	mg/L
4/16/2021	2-II	Aluminum (dissolved)	0.02	J	mg/L
4/16/2021	35-III	Nickel (dissolved)	0.0026	J	mg/L
4/16/2021	2-II	Nickel (dissolved)	0.001	UJ	mg/L
4/16/2021	35-III	Orthophosphate	0.03	J	mg/L
4/16/2021	2-II	Orthophosphate	0.044	J	mg/L
4/16/2021	35-III	Zinc (dissolved)	0.014	J	mg/L
4/16/2021	2-II	Zinc (dissolved)	0.005	UJ	mg/L
10/27/2021	35-IV	Orthophosphate	0.013	J	mg/L

Sample Date (mm/dd/yyyy)	Sample ID	Analyte	Result	Qualifier	Units
10/27/2021	2-II	Orthophosphate	0.026	J	mg/L
1/27/2021	40-III	Ammonia-N	2.7	J	mg/L
1/27/2021	12-IV	Ammonia-N	4.6	J	mg/L
10/25/2021	43-I	Iron (dissolved)	0.86	J	mg/L
10/25/2021	4-II	Iron (dissolved)	1.6	J	mg/L
4/21/2021	P7-IR	Calcium (dissolved)	190	J	mg/L
4/21/2021	4-I	Calcium (dissolved)	390	J	mg/L
4/21/2021	P7-IR	Hardness	520	J	mg/L
4/21/2021	4-I	Hardness	1000	J	mg/L
4/21/2021	P7-IR	Molybdenum (dissolved)	0.032	J	mg/L
4/21/2021	4-I	Molybdenum (dissolved)	0.0066	J	mg/L
4/21/2021	P7-IR	Sulfate (dissolved)	550	J	mg/L
4/21/2021	4-I	Sulfate (dissolved)	1200	J	mg/L
10/5/2021	T-1R	Iron	1.6	J	mg/L
10/5/2021	T-35	Iron	0.93	J	mg/L
10/5/2021	T-1R	Zinc	0.043	J	mg/L
10/5/2021	T-35	Zinc	0.1	J	mg/L
8/5/2021	T-3A	Boron	0.62	J	mg/L
8/5/2021	T-35	Boron	0.088	J	mg/L
8/5/2021	T-3A	Calcium	350	J	mg/L
8/5/2021	T-35	Calcium	120	J	mg/L
8/5/2021	T-3A	Chloride (dissolved)	600	J	mg/L
8/5/2021	T-35	Chloride (dissolved)	180	J	mg/L
8/5/2021	T-3A	Dissolved organic carbon (DOC) (dissolved)	5.1	J	mg/L
8/5/2021	T-35	Dissolved organic carbon (DOC) (dissolved)	2.8	J	mg/L
8/5/2021	T-3A	Hardness	1200	J	mg/L
8/5/2021	T-35	Hardness	520	J	mg/L

Sample Date (mm/dd/yyyy)	Sample ID	Analyte	Result	Qualifier	Units
8/5/2021	T-3A	Magnesium	90	J	mg/L
8/5/2021	T-35	Magnesium	51	J	mg/L
8/5/2021	T-3A	Manganese	0.039	J	mg/L
8/5/2021	T-35	Manganese	0.016	J	mg/L
8/5/2021	T-3A	Phosphorus	0.021	J	mg/L
8/5/2021	T-35	Phosphorus	0.048	J	mg/L
8/5/2021	T-3A	Sodium	360	J	mg/L
8/5/2021	T-35	Sodium	120	J	mg/L
8/5/2021	T-3A	Strontium	4.5	J	mg/L
8/5/2021	T-35	Strontium	2.5	J	mg/L
8/5/2021	T-3A	Sulfate (dissolved)	990	J	mg/L
8/5/2021	T-35	Sulfate (dissolved)	300	J	mg/L
9/20/2021	T-3A	Aluminum	0.13	J	mg/L
9/20/2021	T-35	Aluminum	0.036	J	mg/L
7/2/2021	TS-1	Aluminum	0.95	J	mg/L
7/2/2021	TS-35	Aluminum	0.38	J	mg/L
7/2/2021	TS-1	Iron	1.5	J	mg/L
7/2/2021	TS-35	Iron	0.56	J	mg/L

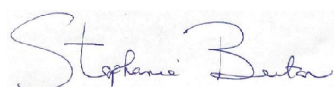
Conclusion:

Based on the field duplicate assessment alone, the data summarized are acceptable with the specific qualifications noted above.

Notes:

- UJ - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

Regards



Stephanie Berton
Data Management – Data Validator



Your Project #: SW
Your C.O.C. #: 800929-23-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/01/18
Report #: R6484835
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C108099

Received: 2021/01/12, 15:00

Sample Matrix: Water
Samples Received: 4

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Dissolved Aluminum (0.2 u, clay free)	4	N/A	2021/01/14	CAM SOP-00447	EPA 6020B m
Alkalinity	4	N/A	2021/01/13	CAM SOP-00448	SM 23 2320 B m
Biochemical Oxygen Demand (BOD)	4	2021/01/13	2021/01/18	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry	4	N/A	2021/01/14	CAM SOP-00463	SM 23 4500-Cl E m
Dissolved Organic Carbon (DOC) (1)	4	N/A	2021/01/14	CAM SOP-00446	SM 23 5310 B m
Hardness (calculated as CaCO3)	4	N/A	2021/01/15	CAM SOP 00102/00408/00447	SM 2340 B
Mercury in Water by CVAA	4	2021/01/13	2021/01/13	CAM SOP-00453	EPA 7470A m
Total Metals Analysis by ICPMS	4	N/A	2021/01/15	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	4	N/A	2021/01/14	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (2)	4	N/A	2021/01/14	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	4	2021/01/13	2021/01/13	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	3	N/A	2021/01/14	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	1	N/A	2021/01/15	CAM SOP-00444	OMOE E3179 m
Sulphate by Automated Colourimetry	4	N/A	2021/01/14	CAM SOP-00464	EPA 375.4 m
Total Phosphorus (Colourimetric)	4	2021/01/15	2021/01/15	CAM SOP-00407	SM 23 4500 P B H m
Total Suspended Solids	4	2021/01/13	2021/01/14	CAM SOP-00428	SM 23 2540D m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Dissolved Organic Carbon (DOC) present in the sample should be considered as non-purgeable DOC.

(2) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.



Your Project #: SW
Your C.O.C. #: 800929-23-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/01/18
Report #: R6484835
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C108099

Received: 2021/01/12, 15:00

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas Laboratories
18 Jan 2021 16:22:12

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

=====
This report has been generated and distributed using a secure automated process.
BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

BV Labs Job #: C108099
Report Date: 2021/01/18

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		OOY253		OOY254		OOY255		
Sampling Date		2021/01/11		2021/01/11		2021/01/11		
COC Number		800929-23-01		800929-23-01		800929-23-01		
	UNITS	T-15	RDL	T-35	QC Batch	T-3A	RDL	QC Batch
Calculated Parameters								
Hardness (CaCO ₃)	mg/L	510	1.0	1100	7146134	1100	1.0	7146134
Inorganics								
Total Ammonia-N	mg/L	<0.050	0.050	3.4	7148113	3.4	0.050	7148113
Total BOD	mg/L	<2	2	<2	7147833	<2	2	7147833
Dissolved Organic Carbon	mg/L	2.3	0.40	4.2	7148823	4.3	0.40	7148823
pH	pH	7.81		7.63	7147982	7.64		7147982
Phenols-4AAP	mg/L	<0.0010	0.0010	<0.0010	7149717	<0.0010	0.0010	7151977
Total Phosphorus	mg/L	0.009	0.004	0.040	7152443	0.042	0.004	7152443
Total Suspended Solids	mg/L	<10	10	23	7148132	15	10	7148132
Dissolved Sulphate (SO ₄)	mg/L	290	1.0	850	7148010	810	5.0	7148010
Alkalinity (Total as CaCO ₃)	mg/L	200	1.0	220	7147969	220	1.0	7147969
Dissolved Chloride (Cl ⁻)	mg/L	140	2.0	370	7147998	370	4.0	7147998
Nitrite (N)	mg/L	<0.010	0.010	0.054	7148131	0.055	0.010	7148131
Nitrate (N)	mg/L	1.54	0.10	0.90	7148131	0.88	0.10	7148131
Nitrate + Nitrite (N)	mg/L	1.54	0.10	0.96	7148131	0.93	0.10	7148131
RDL = Reportable Detection Limit QC Batch = Quality Control Batch								



RESULTS OF ANALYSES OF WATER

BV Labs ID		OOY255			OOY256			OOY256		
Sampling Date		2021/01/11			2021/01/11			2021/01/11		
COC Number		800929-23-01			800929-23-01			800929-23-01		
	UNITS	T-3A Lab-Dup	RDL	QC Batch	T-1R	RDL	QC Batch	T-1R Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				440	1.0	7146134			
Inorganics										
Total Ammonia-N	mg/L	3.4	0.050	7148113	3.0	0.050	7148113			
Total BOD	mg/L				<2	2	7147833			
Dissolved Organic Carbon	mg/L				7.3	0.40	7148823			
pH	pH				7.73		7147982			
Phenols-4AAP	mg/L				0.0062	0.0010	7149717			
Total Phosphorus	mg/L				0.033	0.004	7152443			
Total Suspended Solids	mg/L				<10	10	7148132			
Dissolved Sulphate (SO4)	mg/L				320	2.0	7148010			
Alkalinity (Total as CaCO3)	mg/L				160	1.0	7147969			
Dissolved Chloride (Cl-)	mg/L				310	4.0	7147998			
Nitrite (N)	mg/L				0.043	0.010	7148131	0.044	0.010	7148131
Nitrate (N)	mg/L				0.85	0.10	7148131	0.88	0.10	7148131
Nitrate + Nitrite (N)	mg/L				0.90	0.10	7148131	0.93	0.10	7148131
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C108099
Report Date: 2021/01/18

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OOY253	OOY254	OOY255	OOY256		
Sampling Date		2021/01/11	2021/01/11	2021/01/11	2021/01/11		
COC Number		800929-23-01	800929-23-01	800929-23-01	800929-23-01		
	UNITS	T-15	T-35	T-3A	T-1R	RDL	QC Batch
Metals							
Dissolved (0.2u) Aluminum (Al)	ug/L	<5	<5	<5	<5	5	7148735
Mercury (Hg)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	7148723
Total Aluminum (Al)	mg/L	0.028	0.38	0.32	0.096	0.0049	7150501
Total Arsenic (As)	mg/L	<0.0010	<0.0010	<0.0010	0.0011	0.0010	7150501
Total Beryllium (Be)	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	0.00040	7150501
Total Boron (B)	mg/L	0.068	0.45	0.48	0.19	0.010	7150501
Total Cadmium (Cd)	mg/L	0.00012	<0.000090	<0.000090	0.000093	0.000090	7150501
Total Calcium (Ca)	mg/L	140	330	320	120	0.20	7150501
Total Chromium (Cr)	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7150501
Total Cobalt (Co)	mg/L	<0.00050	0.0010	0.00097	0.00060	0.00050	7150501
Total Copper (Cu)	mg/L	0.0010	0.0019	0.0019	0.0036	0.00090	7150501
Total Iron (Fe)	mg/L	<0.10	0.65	0.53	0.24	0.10	7150501
Total Lead (Pb)	mg/L	<0.00050	0.0025	0.0028	0.0022	0.00050	7150501
Total Magnesium (Mg)	mg/L	37	76	75	29	0.050	7150501
Total Manganese (Mn)	mg/L	0.029	0.36	0.36	0.054	0.0020	7150501
Total Molybdenum (Mo)	mg/L	0.0017	0.0053	0.0052	0.024	0.00050	7150501
Total Nickel (Ni)	mg/L	0.0024	0.0063	0.0059	0.0071	0.0010	7150501
Total Selenium (Se)	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7150501
Total Silver (Ag)	mg/L	<0.000090	<0.000090	<0.000090	<0.000090	0.000090	7150501
Total Sodium (Na)	mg/L	89	240	240	99	0.10	7150501
Total Strontium (Sr)	mg/L	3.0	3.5	3.4	1.0	0.0010	7150501
Total Vanadium (V)	mg/L	<0.00050	0.0013	0.0012	0.00087	0.00050	7150501
Total Zinc (Zn)	mg/L	0.066	0.088	0.084	0.28	0.0050	7150501
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



BUREAU
VERITAS

BV Labs Job #: C108099
Report Date: 2021/01/18

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: O0Y253
Sample ID: T-15
Matrix: Water

Collected: 2021/01/11
Shipped:
Received: 2021/01/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7148735	N/A	2021/01/14	Arefa Dabhad
Alkalinity	AT	7147969	N/A	2021/01/13	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7147833	2021/01/13	2021/01/18	Prakash Piya
Chloride by Automated Colourimetry	KONE	7147998	N/A	2021/01/14	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7148823	N/A	2021/01/14	Nimarta Singh
Hardness (calculated as CaCO3)		7146134	N/A	2021/01/15	Automated Statchk
Mercury in Water by CVAA	CV/AA	7148723	2021/01/13	2021/01/13	Prempal Bhatti
Total Metals Analysis by ICPMS	ICP/MS	7150501	N/A	2021/01/15	Nan Raykha
Total Ammonia-N	LACH/NH4	7148113	N/A	2021/01/14	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7148131	N/A	2021/01/14	Chandra Nandlal
pH	AT	7147982	2021/01/13	2021/01/13	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7149717	N/A	2021/01/14	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7148010	N/A	2021/01/14	Deonarine Ramnarine
Total Phosphorus (Colourimetric)	LACH/P	7152443	2021/01/15	2021/01/15	Shivani Shivani
Total Suspended Solids	BAL	7148132	2021/01/13	2021/01/14	Surleen Kaur Romana

BV Labs ID: O0Y254
Sample ID: T-35
Matrix: Water

Collected: 2021/01/11
Shipped:
Received: 2021/01/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7148735	N/A	2021/01/14	Arefa Dabhad
Alkalinity	AT	7147969	N/A	2021/01/13	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7147833	2021/01/13	2021/01/18	Prakash Piya
Chloride by Automated Colourimetry	KONE	7147998	N/A	2021/01/14	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7148823	N/A	2021/01/14	Nimarta Singh
Hardness (calculated as CaCO3)		7146134	N/A	2021/01/15	Automated Statchk
Mercury in Water by CVAA	CV/AA	7148723	2021/01/13	2021/01/13	Prempal Bhatti
Total Metals Analysis by ICPMS	ICP/MS	7150501	N/A	2021/01/15	Nan Raykha
Total Ammonia-N	LACH/NH4	7148113	N/A	2021/01/14	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7148131	N/A	2021/01/14	Chandra Nandlal
pH	AT	7147982	2021/01/13	2021/01/13	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7149717	N/A	2021/01/14	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7148010	N/A	2021/01/14	Deonarine Ramnarine
Total Phosphorus (Colourimetric)	LACH/P	7152443	2021/01/15	2021/01/15	Shivani Shivani
Total Suspended Solids	BAL	7148132	2021/01/13	2021/01/14	Surleen Kaur Romana

BV Labs ID: O0Y255
Sample ID: T-3A
Matrix: Water

Collected: 2021/01/11
Shipped:
Received: 2021/01/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7148735	N/A	2021/01/14	Arefa Dabhad
Alkalinity	AT	7147969	N/A	2021/01/13	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7147833	2021/01/13	2021/01/18	Prakash Piya



BUREAU
VERITAS

BV Labs Job #: C108099
Report Date: 2021/01/18

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: O0Y255
Sample ID: T-3A
Matrix: Water

Collected: 2021/01/11
Shipped:
Received: 2021/01/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	7147998	N/A	2021/01/14	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7148823	N/A	2021/01/14	Nimarta Singh
Hardness (calculated as CaCO3)		7146134	N/A	2021/01/15	Automated Statchk
Mercury in Water by CVAA	CV/AA	7148723	2021/01/13	2021/01/13	Prempal Bhatti
Total Metals Analysis by ICPMS	ICP/MS	7150501	N/A	2021/01/15	Nan Raykha
Total Ammonia-N	LACH/NH4	7148113	N/A	2021/01/14	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7148131	N/A	2021/01/14	Chandra Nandlal
pH	AT	7147982	2021/01/13	2021/01/13	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7151977	N/A	2021/01/15	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7148010	N/A	2021/01/14	Deonarine Ramnarine
Total Phosphorus (Colourimetric)	LACH/P	7152443	2021/01/15	2021/01/15	Shivani Shivani
Total Suspended Solids	BAL	7148132	2021/01/13	2021/01/14	Surleen Kaur Romana

BV Labs ID: O0Y255 Dup
Sample ID: T-3A
Matrix: Water

Collected: 2021/01/11
Shipped:
Received: 2021/01/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7148113	N/A	2021/01/14	Alina Dobreanu

BV Labs ID: O0Y256
Sample ID: T-1R
Matrix: Water

Collected: 2021/01/11
Shipped:
Received: 2021/01/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7148735	N/A	2021/01/14	Arefa Dabhad
Alkalinity	AT	7147969	N/A	2021/01/13	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7147833	2021/01/13	2021/01/18	Prakash Piya
Chloride by Automated Colourimetry	KONE	7147998	N/A	2021/01/14	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7148823	N/A	2021/01/14	Nimarta Singh
Hardness (calculated as CaCO3)		7146134	N/A	2021/01/15	Automated Statchk
Mercury in Water by CVAA	CV/AA	7148723	2021/01/13	2021/01/13	Prempal Bhatti
Total Metals Analysis by ICPMS	ICP/MS	7150501	N/A	2021/01/15	Nan Raykha
Total Ammonia-N	LACH/NH4	7148113	N/A	2021/01/14	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7148131	N/A	2021/01/14	Chandra Nandlal
pH	AT	7147982	2021/01/13	2021/01/13	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7149717	N/A	2021/01/14	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7148010	N/A	2021/01/14	Deonarine Ramnarine
Total Phosphorus (Colourimetric)	LACH/P	7152443	2021/01/15	2021/01/15	Shivani Shivani
Total Suspended Solids	BAL	7148132	2021/01/13	2021/01/14	Surleen Kaur Romana



BUREAU
VERITAS

BV Labs Job #: C108099
Report Date: 2021/01/18

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: O0Y256 Dup
Sample ID: T-1R
Matrix: Water

Collected: 2021/01/11
Shipped:
Received: 2021/01/12

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7148131	N/A	2021/01/14	Chandra Nandlal



BUREAU
VERITAS

BV Labs Job #: C108099
Report Date: 2021/01/18

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.0°C
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Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C108099
Report Date: 2021/01/18

QUALITY ASSURANCE REPORT

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7147833	Total BOD	2021/01/18					<2	mg/L	NC	30	90	80 - 120
7147969	Alkalinity (Total as CaCO3)	2021/01/13			95	85 - 115	<1.0	mg/L	1.0	20		
7147982	pH	2021/01/13			101	98 - 103			0.90	N/A		
7147998	Dissolved Chloride (Cl-)	2021/01/14	110	80 - 120	103	80 - 120	<1.0	mg/L	6.0	20		
7148010	Dissolved Sulphate (SO4)	2021/01/14	103	75 - 125	104	80 - 120	<1.0	mg/L	6.0	20		
7148113	Total Ammonia-N	2021/01/14	90	75 - 125	99	80 - 120	<0.050	mg/L	0.71	20		
7148131	Nitrate (N)	2021/01/14	102	80 - 120	101	80 - 120	<0.10	mg/L	3.5	20		
7148131	Nitrite (N)	2021/01/14	105	80 - 120	107	80 - 120	<0.010	mg/L	3.0	20		
7148132	Total Suspended Solids	2021/01/14					<10	mg/L	12	25	95	85 - 115
7148723	Mercury (Hg)	2021/01/13	96	75 - 125	93	80 - 120	<0.00010	mg/L	NC	20		
7148735	Dissolved (0.2u) Aluminum (Al)	2021/01/14	108	80 - 120	101	80 - 120	<5	ug/L	16	20		
7148823	Dissolved Organic Carbon	2021/01/14	102	80 - 120	103	80 - 120	<0.40	mg/L	1.0	20		
7149717	Phenols-4AAP	2021/01/14	101	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		
7150501	Total Aluminum (Al)	2021/01/15	116	80 - 120	100	80 - 120	<0.0049	mg/L	0.78	20		
7150501	Total Arsenic (As)	2021/01/15	104	80 - 120	103	80 - 120	<0.0010	mg/L				
7150501	Total Beryllium (Be)	2021/01/15	103	80 - 120	102	80 - 120	<0.00040	mg/L				
7150501	Total Boron (B)	2021/01/15	93	80 - 120	98	80 - 120	<0.010	mg/L				
7150501	Total Cadmium (Cd)	2021/01/15	99	80 - 120	103	80 - 120	<0.000090	mg/L	8.8	20		
7150501	Total Calcium (Ca)	2021/01/15	NC	80 - 120	101	80 - 120	<0.20	mg/L				
7150501	Total Chromium (Cr)	2021/01/15	100	80 - 120	99	80 - 120	<0.0050	mg/L	NC	20		
7150501	Total Cobalt (Co)	2021/01/15	102	80 - 120	102	80 - 120	<0.00050	mg/L				
7150501	Total Copper (Cu)	2021/01/15	102	80 - 120	102	80 - 120	<0.00090	mg/L	1.7	20		
7150501	Total Iron (Fe)	2021/01/15	99	80 - 120	99	80 - 120	<0.10	mg/L	2.7	20		
7150501	Total Lead (Pb)	2021/01/15	99	80 - 120	103	80 - 120	<0.00050	mg/L	1.1	20		
7150501	Total Magnesium (Mg)	2021/01/15	98	80 - 120	102	80 - 120	<0.050	mg/L				
7150501	Total Manganese (Mn)	2021/01/15	100	80 - 120	98	80 - 120	<0.0020	mg/L				
7150501	Total Molybdenum (Mo)	2021/01/15	104	80 - 120	104	80 - 120	<0.00050	mg/L				
7150501	Total Nickel (Ni)	2021/01/15	98	80 - 120	98	80 - 120	<0.0010	mg/L	5.9	20		
7150501	Total Selenium (Se)	2021/01/15	104	80 - 120	109	80 - 120	<0.0020	mg/L				
7150501	Total Silver (Ag)	2021/01/15	97	80 - 120	102	80 - 120	<0.000090	mg/L				
7150501	Total Sodium (Na)	2021/01/15	NC	80 - 120	99	80 - 120	<0.10	mg/L				



BUREAU
VERITAS

BV Labs Job #: C108099

Report Date: 2021/01/18

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: SW

Sampler Initials: DT

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7150501	Total Strontium (Sr)	2021/01/15	NC	80 - 120	99	80 - 120	<0.0010	mg/L				
7150501	Total Vanadium (V)	2021/01/15	101	80 - 120	99	80 - 120	<0.00050	mg/L				
7150501	Total Zinc (Zn)	2021/01/15	104	80 - 120	106	80 - 120	<0.0050	mg/L	1.1	20		
7151977	Phenols-4AAP	2021/01/15	101	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		
7152443	Total Phosphorus	2021/01/15	99	80 - 120	98	80 - 120	<0.004	mg/L	7.3	20	95	80 - 120

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BUREAU
VERITAS

BV Labs Job #: C108099
Report Date: 2021/01/18

Terrapure Environmental
Client Project #: SW
Sampler Initials: DT

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

A handwritten signature in black ink, appearing to read 'A. Hamanov', written over a horizontal line.

Anastassia Hamanov, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BOD

Bureau Veritas Laboratories
3740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

12-Jan-21 15:00

Jolanta Goralczyk
C108099

INVOICE TO:

Company Name: #16786 Terrapure Environmental
 Attention: Accounting
 Address: 65 Green Mountain Rd West
 Stoney Creek ON L8J 1X5
 Tel: (905) 561-0305 Fax: (905) 561-1674
 Email: kbailey@terrapureenv.com

REPORT TO:

Company Name: Brad Mullin
 Attention: Brad Mullin
 Address: _____
 Tel: (905) 548-5882 Fax: (905) 578-7533
 Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com

PROJECT INFORMATION:

Quotation #: B60569
 P.O. #: _____
 Project: SW SW KSE FNV-1337
 Project Name: _____
 Site #: _____
 Sampled By: _____

Only:

Bottle Order #: _____
 Barcode: 800929
 Project Manager: Jolanta Goralczyk
 Barcode: C#800929-23-01

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)

Table 1 Res/Park Medium/Fine
 Table 2 Ind/Comm Coarse
 Table 3 Agri/Other For RSC
 Table _____

Other Regulations

CCME Sanitary Sewer Bylaw
 Reg 558 Storm Sewer Bylaw
 MISA Municipality _____
 PWQO Reg 406 Table _____
 Other _____

Special Instructions:

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Field Filtered (please circle)	Metals (Hg / Cr / VI)	Surface Water	List C																	
--------------------------------	-----------------------	---------------	--------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

Regular (Standard) TAT:
 (will be applied if Rush TAT is not specified)
 Standard TAT = 5-7 Working days for most tests.
 Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details

Job Specific Rush TAT (if applies to entire submission)
 Date Required: _____ Time Required: _____
 Rush Confirmation Number: _____ (call lab for #)

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle)	Metals (Hg / Cr / VI)	Surface Water	List C	# of Bottles	Comments
1	T-15	Jan 11 2021	AM	water	Y	Y	Y	Y	9	
2	T-35	↓	↓	↓	Y	Y	Y	Y	9	
3	T-3A	↓	↓	↓	Y	Y	Y	Y	9	
4	T-1R	↓	↓	↓	Y	Y	Y	Y	9	
5										
6										
7										
8										
9										
10										

RELINQUISHED BY: (Signature/Print) Don Taylor	Date: (YY/MM/DD) 21/01/21	Time: 9:00	RECEIVED BY: (Signature/Print) Pawel Pawel	Date: (YY/MM/DD) 2021/01/21	Time: 15:00	# jars used and not submitted	Laboratory Use Only	Custody Seal	Yes	No
							Time Sensitive	Temperature (°C) on Recd	Present	Intact
								3/2/11	<input checked="" type="checkbox"/>	<input type="checkbox"/>

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client



Your Project #: GW

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Your C.O.C. #: 808571-01-01, 808571-02-01, 808571-04-01

Report Date: 2021/02/05

Report #: R6507210

Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C122097

Received: 2021/01/26, 16:45

Sample Matrix: Water
Samples Received: 25

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	25	N/A	2021/02/02	CAM SOP-00448	SM 23 2320 B m
Anions	23	N/A	2021/02/02	CAM SOP-00435	SM 23 4110 B m
Anions	2	N/A	2021/02/03	CAM SOP-00435	SM 23 4110 B m
Conductivity	25	N/A	2021/02/02	CAM SOP-00414	SM 23 2510 m
Fluoride	25	2021/02/02	2021/02/02	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	25	N/A	2021/02/03	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	24	N/A	2021/02/02	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	1	N/A	2021/02/03	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	25	N/A	2021/02/02	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	25	N/A	2021/02/02	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	25	2021/02/02	2021/02/02	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	24	N/A	2021/02/02	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	1	N/A	2021/02/03	CAM SOP-00444	OMOE E3179 m
Orthophosphate	25	N/A	2021/02/02	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	25	2021/02/02	2021/02/03	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	22	2021/02/02	2021/02/02	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	3	2021/02/02	2021/02/03	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	25	N/A	2021/02/02	CAM SOP-00446	SM 23 5310B m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

(2) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



Your Project #: GW

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Your C.O.C. #: 808571-01-01, 808571-02-01, 808571-04-01

Report Date: 2021/02/05
Report #: R6507210
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C122097

Received: 2021/01/26, 16:45

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas Laboratories

05 Feb 2021 14:39:54

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

=====
This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		ORU167			ORU167			ORU168		
Sampling Date		2021/01/25			2021/01/25			2021/01/25		
COC Number		808571-01-01			808571-01-01			808571-01-01		
	UNITS	P10-I	RDL	QC Batch	P10-I Lab-Dup	RDL	QC Batch	P10-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2600	1.0	7169538				2800	1.0	7169538
Inorganics										
Total Ammonia-N	mg/L	28	0.050	7180322				24	0.050	7180322
Conductivity	umho/cm	11000	1.0	7180054				15000	1.0	7180054
Total Dissolved Solids	mg/L	7480	20	7180316				8910	20	7180316
Fluoride (F-)	mg/L	0.98	0.10	7180055				2.5	0.10	7180055
Total Kjeldahl Nitrogen (TKN)	mg/L	31	1.0	7180325	31	1.0	7180325	28	1.0	7180325
Total Organic Carbon (TOC)	mg/L	5.7	0.40	7180327	5.7	0.40	7180327	18	0.40	7180327
Orthophosphate (P)	mg/L	0.014	0.010	7180040	0.012	0.010	7180040	<0.50 (1)	0.50	7180039
pH	pH	7.83		7180053				8.31		7180053
Phenols-4AAP	mg/L	<0.0010	0.0010	7179892				0.016	0.0050	7179892
Alkalinity (Total as CaCO3)	mg/L	140	1.0	7180050				150	1.0	7180050
Nitrite (N)	mg/L	<0.010	0.010	7180045	<0.010	0.010	7180045	<0.050 (2)	0.050	7180042
Dissolved Chloride (Cl-)	mg/L	2800	50	7180032				3900	50	7180032
Nitrate (N)	mg/L	<0.10	0.10	7180045	<0.10	0.10	7180045	<0.50	0.50	7180042
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7180045	<0.10	0.10	7180045	<0.50	0.50	7180042
Dissolved Bromide (Br-)	mg/L	<50	50	7180032				<50	50	7180032
Dissolved Sulphate (SO4)	mg/L	1800	50	7180032				2000	50	7180032

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
 (2) Nitrite/Nitrate: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		ORU168			ORU169		ORU170		
Sampling Date		2021/01/25			2021/01/25		2021/01/25		
COC Number		808571-01-01			808571-01-01		808571-01-01		
	UNITS	P10-II Lab-Dup	RDL	QC Batch	P10-III	RDL	P10-IV	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO ₃)	mg/L				2300	1.0	1400	1.0	7169538
Inorganics									
Total Ammonia-N	mg/L	24	0.050	7180322	4.8	0.050	4.1	0.050	7180322
Conductivity	umho/cm				7700	1.0	4000	1.0	7180054
Total Dissolved Solids	mg/L				5870	20	3090	10	7180316
Fluoride (F-)	mg/L				0.95	0.10	1.5	0.10	7180055
Total Kjeldahl Nitrogen (TKN)	mg/L				6.5	1.0	4.7	1.0	7180325
Total Organic Carbon (TOC)	mg/L				1.0	0.40	6.6	0.40	7180327
Orthophosphate (P)	mg/L				0.50	0.50	<0.010	0.010	7180039
pH	pH				7.39		7.59		7180053
Phenols-4AAP	mg/L				<0.0010	0.0010	<0.0010	0.0010	7179892
Alkalinity (Total as CaCO ₃)	mg/L				490	1.0	160	1.0	7180050
Nitrite (N)	mg/L				<0.50 (1)	0.50	<0.010	0.010	7180042
Dissolved Chloride (Cl-)	mg/L				1100	50	320	10	7180032
Nitrate (N)	mg/L				<5.0	5.0	<0.10	0.10	7180042
Nitrate + Nitrite (N)	mg/L				<5.0	5.0	<0.10	0.10	7180042
Dissolved Bromide (Br-)	mg/L				<50	50	<10	10	7180032
Dissolved Sulphate (SO ₄)	mg/L				2200	50	1700	10	7180032
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) Nitrite/Nitrate: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.									



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		ORU171			ORU172			ORU172		
Sampling Date		2021/01/25			2021/01/25			2021/01/25		
COC Number		808571-01-01			808571-01-01			808571-01-01		
	UNITS	P4-I	RDL	QC Batch	P4-II	RDL	QC Batch	P4-II Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2600	1.0	7169538	430	1.0	7169538			
Inorganics										
Total Ammonia-N	mg/L	36 (1)	0.25	7180322	200	0.50	7180322			
Conductivity	umho/cm	10000	1.0	7180028	15000	1.0	7180054			
Total Dissolved Solids	mg/L	6930	20	7180316	7210	20	7180316			
Fluoride (F-)	mg/L	1.2	0.10	7180029	3.4	0.10	7180055			
Total Kjeldahl Nitrogen (TKN)	mg/L	34 (1)	1.0	7180325	200	5.0	7180325			
Total Organic Carbon (TOC)	mg/L	7.3	0.40	7180327	39	0.40	7180327			
Orthophosphate (P)	mg/L	0.011	0.010	7180040	<0.50 (2)	0.50	7180039			
pH	pH	8.16		7180027	9.40		7180053			
Phenols-4AAP	mg/L	<0.0010	0.0010	7179892	1.3	0.10	7179892	1.3	0.10	7179892
Alkalinity (Total as CaCO3)	mg/L	91	1.0	7180023	490	1.0	7180050			
Nitrite (N)	mg/L	<0.010	0.010	7180045	<0.010	0.010	7180042			
Dissolved Chloride (Cl-)	mg/L	2500	50	7180498	4300	50	7180032			
Nitrate (N)	mg/L	<0.10	0.10	7180045	<0.10	0.10	7180042			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7180045	<0.10	0.10	7180042			
Dissolved Bromide (Br-)	mg/L	<50	50	7180498	<50	50	7180032			
Dissolved Sulphate (SO4)	mg/L	1900	50	7180498	770	50	7180032			

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.
 (2) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		ORU173		ORU174		ORU175		ORU176		
Sampling Date		2021/01/25		2021/01/25		2021/01/25		2021/01/25		
COC Number		808571-01-01		808571-01-01		808571-01-01		808571-01-01		
	UNITS	P4-III	RDL	G24	RDL	43-I	RDL	43-II	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO ₃)	mg/L	2000	1.0	920	1.0	2100	1.0	1100	1.0	7169538
Inorganics										
Total Ammonia-N	mg/L	12	0.050	<0.050	0.050	14	0.050	2.8	0.050	7180322
Conductivity	umho/cm	8600	1.0	1500	1.0	5700	1.0	2800	1.0	7180054
Total Dissolved Solids	mg/L	5520	20	1180	10	3970	10	1900	10	7180316
Fluoride (F ⁻)	mg/L	0.97	0.10	1.2	0.10	0.73	0.10	0.60	0.10	7180055
Total Kjeldahl Nitrogen (TKN)	mg/L	14	1.0	0.31	0.10	14	1.0	3.2	0.10	7180325
Total Organic Carbon (TOC)	mg/L	13	0.40	6.9	0.40	2.8	0.40	1.5	0.40	7180327
Orthophosphate (P)	mg/L	<0.010	0.010	0.011	0.010	<0.010	0.010	<0.010	0.010	7180039
pH	pH	8.26		7.71		7.66		7.80		7180053
Phenols-4AAP	mg/L	0.0016	0.0010	<0.0010	0.0010	<0.0010	0.0010	<0.0010	0.0010	7179892
Alkalinity (Total as CaCO ₃)	mg/L	130	1.0	300	1.0	280	1.0	320	1.0	7180050
Nitrite (N)	mg/L	0.023	0.010	<0.010	0.010	<0.010	0.010	<0.010	0.010	7180042
Dissolved Chloride (Cl ⁻)	mg/L	2200	50	10	5.0	960	10	340	5.0	7180032
Nitrate (N)	mg/L	<0.10	0.10	0.27	0.10	<0.10	0.10	<0.10	0.10	7180042
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	0.27	0.10	<0.10	0.10	<0.10	0.10	7180042
Dissolved Bromide (Br ⁻)	mg/L	<50	50	<5.0	5.0	<10	10	<5.0	5.0	7180032
Dissolved Sulphate (SO ₄)	mg/L	1300	50	610	5.0	1600	10	680	5.0	7180032
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		ORU239			ORU239			ORU240		
Sampling Date		2021/01/25			2021/01/25			2021/01/25		
COC Number		808571-02-01			808571-02-01			808571-02-01		
	UNITS	P12	RDL	QC Batch	P12 Lab-Dup	RDL	QC Batch	P16	RDL	QC Batch

Calculated Parameters

Hardness (CaCO3)	mg/L	420	1.0	7169538				730	1.0	7169538
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Inorganics

Total Ammonia-N	mg/L	8.9	0.050	7180324				7.4	0.050	7180324
Conductivity	umho/cm	2100	1.0	7180054				2800	1.0	7180028
Total Dissolved Solids	mg/L	1310	10	7180316				1660	10	7180316
Fluoride (F-)	mg/L	1.1	0.10	7180055				1.4	0.10	7180029
Total Kjeldahl Nitrogen (TKN)	mg/L	9.4	1.0	7180326	9.8	1.0	7180326	7.7	1.0	7180326
Total Organic Carbon (TOC)	mg/L	15	0.40	7180337	16	0.40	7180337	14	0.40	7180337
Orthophosphate (P)	mg/L	<0.50 (1)	0.50	7180039				<0.010	0.010	7180039
pH	pH	8.06		7180053				7.61		7180027
Phenols-4AAP	mg/L	0.17	0.010	7179892				0.0077	0.0010	7179897
Alkalinity (Total as CaCO3)	mg/L	85	1.0	7180050				110	1.0	7180023
Nitrite (N)	mg/L	<0.010	0.010	7180042				<0.010	0.010	7180042
Dissolved Chloride (Cl-)	mg/L	250	5.0	7180032				660	5.0	7180498
Nitrate (N)	mg/L	<0.10	0.10	7180042				<0.10	0.10	7180042
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7180042				<0.10	0.10	7180042
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7180032				<5.0	5.0	7180498
Dissolved Sulphate (SO4)	mg/L	510	5.0	7180032				290	5.0	7180498

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

(1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		ORU240			ORU241			ORU242		
Sampling Date		2021/01/25			2021/01/25			2021/01/25		
COC Number		808571-02-01			808571-02-01			808571-02-01		
	UNITS	P16 Lab-Dup	RDL	QC Batch	P17	RDL	QC Batch	68-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				26	1.0	7169538	2100	1.0	7169538
Inorganics										
Total Ammonia-N	mg/L	7.5	0.050	7180324	100 (1)	0.50	7180324	17	0.050	7180324
Conductivity	umho/cm				7900	1.0	7180028	7300	1.0	7180028
Total Dissolved Solids	mg/L				3540	20	7180316	5080	20	7180316
Fluoride (F-)	mg/L				3.2	0.10	7180029	0.91	0.10	7180029
Total Kjeldahl Nitrogen (TKN)	mg/L				95 (1)	2.5	7180326	18	1.0	7180326
Total Organic Carbon (TOC)	mg/L				27	0.40	7180337	4.0	0.40	7180337
Orthophosphate (P)	mg/L				0.23	0.010	7180040	<0.50 (2)	0.50	7180040
pH	pH				9.64		7180027	7.77		7180027
Phenols-4AAP	mg/L	0.0082	0.0010	7179897	0.66	0.010	7179892	<0.0010	0.0010	7179897
Alkalinity (Total as CaCO3)	mg/L				430	1.0	7180023	200	1.0	7180023
Nitrite (N)	mg/L				0.015	0.010	7180045	<0.010	0.010	7180045
Dissolved Chloride (Cl-)	mg/L				2200	20	7180498	1500	10	7180498
Nitrate (N)	mg/L				<0.10	0.10	7180045	<0.10	0.10	7180045
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7180045	<0.10	0.10	7180045
Dissolved Bromide (Br-)	mg/L				<20	20	7180498	<10	10	7180498
Dissolved Sulphate (SO4)	mg/L				270	20	7180498	1700	10	7180498

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.
 (2) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



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VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		ORU243			ORU243			ORU244		
Sampling Date		2021/01/25			2021/01/25			2021/01/25		
COC Number		808571-02-01			808571-02-01			808571-02-01		
	UNITS	68-II	RDL	QC Batch	68-II Lab-Dup	RDL	QC Batch	68-III	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1700	1.0	7169538				900	1.0	7169538
Inorganics										
Total Ammonia-N	mg/L	0.85	0.050	7180324				130	0.50	7180324
Conductivity	umho/cm	3300	1.0	7180028	3300	1.0	7180028	12000	1.0	7180054
Total Dissolved Solids	mg/L	2400	10	7180316				6650	20	7180316
Fluoride (F-)	mg/L	0.37	0.10	7180029	0.33	0.10	7180029	2.1	0.10	7180055
Total Kjeldahl Nitrogen (TKN)	mg/L	1.1	0.10	7180326				130	5.0	7180326
Total Organic Carbon (TOC)	mg/L	3.0	0.40	7180337				55	0.40	7180337
Orthophosphate (P)	mg/L	<0.010	0.010	7180040				<0.50 (1)	0.50	7180039
pH	pH	7.59		7180027	7.62		7180027	9.18		7180053
Phenols-4AAP	mg/L	<0.0010	0.0010	7179897				0.94	0.050	7179892
Alkalinity (Total as CaCO3)	mg/L	280	1.0	7180023	290	1.0	7180023	250	1.0	7180050
Nitrite (N)	mg/L	<0.010	0.010	7180045				<0.010	0.010	7180042
Dissolved Chloride (Cl-)	mg/L	480	5.0	7180498				2800	50	7180032
Nitrate (N)	mg/L	<0.10	0.10	7180045				<0.10	0.10	7180042
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7180045				<0.10	0.10	7180042
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7180498				<50	50	7180032
Dissolved Sulphate (SO4)	mg/L	990	5.0	7180498				1400	50	7180032

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



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VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		ORU245		ORU246			ORU247		
Sampling Date		2021/01/25		2021/01/25			2021/01/25		
COC Number		808571-02-01		808571-02-01			808571-02-01		
	UNITS	68-IV	RDL	31-I	RDL	QC Batch	31-II	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO ₃)	mg/L	380	1.0	38	1.0	7169538	150	1.0	7169538
Inorganics									
Total Ammonia-N	mg/L	0.13	0.050	230 (1)	1.0	7180324	0.14	0.050	7180324
Conductivity	umho/cm	1100	1.0	15000	1.0	7180054	390	1.0	7180054
Total Dissolved Solids	mg/L	560	10	7390	20	7180316	210	10	7180316
Fluoride (F ⁻)	mg/L	0.59	0.10	3.5	0.10	7180055	0.40	0.10	7180055
Total Kjeldahl Nitrogen (TKN)	mg/L	0.24	0.10	230 (1)	10	7180326	0.45	0.10	7180326
Total Organic Carbon (TOC)	mg/L	4.2	0.40	47	0.40	7180337	5.6	0.40	7180337
Orthophosphate (P)	mg/L	<0.010	0.010	0.70	0.50	7180039	<0.010	0.010	7180039
pH	pH	8.04		9.77		7180053	10.6		7180053
Phenols-4AAP	mg/L	<0.0010	0.0010	1.3	0.050	7179892	<0.0010	0.0010	7179897
Alkalinity (Total as CaCO ₃)	mg/L	240	1.0	920	1.0	7180050	59	1.0	7180050
Nitrite (N)	mg/L	<0.010	0.010	0.063	0.010	7180042	0.246	0.010	7180042
Dissolved Chloride (Cl ⁻)	mg/L	140	1.0	4500	50	7180032	16	1.0	7180032
Nitrate (N)	mg/L	0.22	0.10	0.29	0.10	7180042	0.33	0.10	7180042
Nitrate + Nitrite (N)	mg/L	0.22	0.10	0.35	0.10	7180042	0.58	0.10	7180042
Dissolved Bromide (Br ⁻)	mg/L	<1.0	1.0	<50	50	7180032	<1.0	1.0	7180032
Dissolved Sulphate (SO ₄)	mg/L	74	1.0	<50	50	7180032	70	1.0	7180032
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) TKN < NH ₄ : Both values fall within acceptable RPD limits for duplicates and are likely equivalent.									



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		ORU248			ORU263		ORU264		
Sampling Date		2021/01/25			2021/01/25		2021/01/25		
COC Number		808571-02-01			808571-04-01		808571-04-01		
	UNITS	31-III	RDL	QC Batch	35-V	RDL	35-VI	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	260	1.0	7169538	570	1.0	2500	1.0	7169538
Inorganics									
Total Ammonia-N	mg/L	11	0.050	7180324	0.11	0.050	22	0.050	7180324
Conductivity	umho/cm	2900	1.0	7180054	1100	1.0	11000	1.0	7180054
Total Dissolved Solids	mg/L	1630	10	7180628	665	10	7180	20	7180628
Fluoride (F-)	mg/L	1.9	0.10	7180055	0.62	0.10	1.0	0.10	7180055
Total Kjeldahl Nitrogen (TKN)	mg/L	12	1.0	7180326	0.16	0.10	25	1.0	7180326
Total Organic Carbon (TOC)	mg/L	24	0.40	7180337	3.4	0.40	13	0.40	7180337
Orthophosphate (P)	mg/L	<0.50 (1)	0.50	7180039	0.013	0.010	0.011	0.010	7180039
pH	pH	7.70		7180053	7.69		7.89		7180053
Phenols-4AAP	mg/L	0.026	0.020	7179897	<0.0010	0.0010	0.0037	0.0020	7179892
Alkalinity (Total as CaCO3)	mg/L	150	1.0	7180050	390	1.0	90	1.0	7180050
Nitrite (N)	mg/L	<0.010	0.010	7180042	<0.010	0.010	0.012	0.010	7180042
Dissolved Chloride (Cl-)	mg/L	550	5.0	7180032	16	1.0	2700	50	7180032
Nitrate (N)	mg/L	<0.10	0.10	7180042	0.33	0.10	<0.10	0.10	7180042
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7180042	0.33	0.10	<0.10	0.10	7180042
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7180032	<1.0	1.0	<50	50	7180032
Dissolved Sulphate (SO4)	mg/L	380	5.0	7180032	180	1.0	1700	50	7180032
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.									



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		ORU264			ORU265		ORU266		
Sampling Date		2021/01/25			2021/01/25		2021/01/25		
COC Number		808571-04-01			808571-04-01		808571-04-01		
	UNITS	35-VI Lab-Dup	RDL	QC Batch	35-VII	RDL	4-IV	RDL	QC Batch

Calculated Parameters									
Hardness (CaCO3)	mg/L				760	1.0	420	1.0	7169538
Inorganics									
Total Ammonia-N	mg/L				0.069	0.050	220 (1)	1.0	7180324
Conductivity	umho/cm	11000	1.0	7180054	1600	1.0	15000	1.0	7180054
Total Dissolved Solids	mg/L				1000	10	7260	20	7180628
Fluoride (F-)	mg/L	1.0	0.10	7180055	0.50	0.10	3.5	0.10	7180055
Total Kjeldahl Nitrogen (TKN)	mg/L				0.29	0.10	220 (1)	10	7180326
Total Organic Carbon (TOC)	mg/L				4.1	0.40	41	0.40	7180337
Orthophosphate (P)	mg/L	<0.010	0.010	7180039	0.026	0.010	<0.50 (2)	0.50	7180039
pH	pH	8.04		7180053	7.78		9.46		7180053
Phenols-4AAP	mg/L				<0.0010	0.0010	1.3	0.10	7179892
Alkalinity (Total as CaCO3)	mg/L	92	1.0	7180050	330	1.0	540	1.0	7180050
Nitrite (N)	mg/L	0.013	0.010	7180042	<0.010	0.010	<0.010	0.010	7180042
Dissolved Chloride (Cl-)	mg/L	2700	50	7180032	33	5.0	4200	50	7180032
Nitrate (N)	mg/L	<0.10	0.10	7180042	<0.10	0.10	<0.10	0.10	7180042
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7180042	<0.10	0.10	<0.10	0.10	7180042
Dissolved Bromide (Br-)	mg/L	<50	50	7180032	<5.0	5.0	<50	50	7180032
Dissolved Sulphate (SO4)	mg/L	1700	50	7180032	530	5.0	710	50	7180032

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.
 (2) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



RESULTS OF ANALYSES OF WATER

BV Labs ID		ORU267		
Sampling Date		2021/01/25		
COC Number		808571-04-01		
	UNITS	2-IV	RDL	QC Batch
Calculated Parameters				
Hardness (CaCO3)	mg/L	2300	1.0	7171280
Inorganics				
Total Ammonia-N	mg/L	17	0.050	7180324
Conductivity	umho/cm	7200	1.0	7180054
Total Dissolved Solids	mg/L	4970	20	7180628
Fluoride (F-)	mg/L	0.90	0.10	7180055
Total Kjeldahl Nitrogen (TKN)	mg/L	17	1.0	7180326
Total Organic Carbon (TOC)	mg/L	4.0	0.40	7180337
Orthophosphate (P)	mg/L	<0.50 (1)	0.50	7180039
pH	pH	7.43		7180053
Phenols-4AAP	mg/L	<0.0010	0.0010	7179892
Alkalinity (Total as CaCO3)	mg/L	200	1.0	7180050
Nitrite (N)	mg/L	<0.010	0.010	7180042
Dissolved Chloride (Cl-)	mg/L	1400	20	7180032
Nitrate (N)	mg/L	<0.10	0.10	7180042
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7180042
Dissolved Bromide (Br-)	mg/L	<20	20	7180032
Dissolved Sulphate (SO4)	mg/L	1600	20	7180032
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.				



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		ORU167	ORU168			ORU169			ORU170		
Sampling Date		2021/01/25	2021/01/25			2021/01/25			2021/01/25		
COC Number		808571-01-01	808571-01-01			808571-01-01			808571-01-01		
	UNITS	P10-I	P10-II	RDL	QC Batch	P10-III	RDL	QC Batch	P10-IV	RDL	QC Batch
Metals											
Dissolved Aluminum (Al)	ug/L	<25	<25	25	7179821	<25	25	7179826	<25	25	7179821
Dissolved Antimony (Sb)	ug/L	<2.5	<2.5	2.5	7179821	<2.5	2.5	7179826	<2.5	2.5	7179821
Dissolved Arsenic (As)	ug/L	<5.0	<5.0	5.0	7179821	<5.0	5.0	7179826	<5.0	5.0	7179821
Dissolved Barium (Ba)	ug/L	25	21	10	7179821	<10	10	7179826	<10	10	7179821
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	2.0	7179821	<2.0	2.0	7179826	<2.0	2.0	7179821
Dissolved Bismuth (Bi)	ug/L	<5.0	<5.0	5.0	7179821	<5.0	5.0	7179826	<5.0	5.0	7179821
Dissolved Boron (B)	ug/L	1300	2000	50	7179821	13000	50	7179826	1800	50	7179821
Dissolved Cadmium (Cd)	ug/L	<0.45	<0.45	0.45	7179821	<0.45	0.45	7179826	<0.45	0.45	7179821
Dissolved Calcium (Ca)	ug/L	850000	910000	1000	7179821	620000	1000	7179826	410000	1000	7179821
Dissolved Chromium (Cr)	ug/L	<25	<25	25	7179821	<25	25	7179826	<25	25	7179821
Dissolved Cobalt (Co)	ug/L	<2.5	<2.5	2.5	7179821	<2.5	2.5	7179826	<2.5	2.5	7179821
Dissolved Copper (Cu)	ug/L	<4.5	<4.5	4.5	7179821	<4.5	4.5	7179826	<4.5	4.5	7179821
Dissolved Iron (Fe)	ug/L	<500	<500	500	7179821	<500	500	7179826	<500	500	7179821
Dissolved Lead (Pb)	ug/L	<2.5	<2.5	2.5	7179821	<2.5	2.5	7179826	<2.5	2.5	7179821
Dissolved Lithium (Li)	ug/L	660	820	25	7179821	2800	50	7179826	130	25	7179821
Dissolved Magnesium (Mg)	ug/L	130000	130000	250	7179821	180000	250	7179826	81000	250	7179821
Dissolved Manganese (Mn)	ug/L	97	120	10	7179821	120	10	7179826	51	10	7179821
Dissolved Molybdenum (Mo)	ug/L	<2.5	14	2.5	7179821	<2.5	2.5	7179826	<2.5	2.5	7179821
Dissolved Nickel (Ni)	ug/L	<5.0	5.6	5.0	7179821	<5.0	5.0	7179826	<5.0	5.0	7179821
Dissolved Phosphorus (P)	ug/L	570	680	500	7179821	600	500	7179826	650	500	7179821
Dissolved Potassium (K)	ug/L	71000	76000	1000	7179821	39000	1000	7179826	34000	1000	7179821
Dissolved Selenium (Se)	ug/L	16	29	10	7179821	<10	10	7179826	<10	10	7179821
Dissolved Silicon (Si)	ug/L	3400	3600	250	7179821	3500	250	7179826	2700	250	7179821
Dissolved Silver (Ag)	ug/L	<0.45	<0.45	0.45	7179821	<0.45	0.45	7179826	<0.45	0.45	7179821
Dissolved Sodium (Na)	ug/L	1400000	2300000	500	7179821	1000000	500	7179826	460000	500	7179821
Dissolved Strontium (Sr)	ug/L	12000	13000	5.0	7179821	11000	5.0	7179826	7400	5.0	7179821
Dissolved Tellurium (Te)	ug/L	<5.0	<5.0	5.0	7179821	<5.0	5.0	7179826	<5.0	5.0	7179821
Dissolved Thallium (Tl)	ug/L	<0.25	<0.25	0.25	7179821	<0.25	0.25	7179826	<0.25	0.25	7179821
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	5.0	7179821	<5.0	5.0	7179826	<5.0	5.0	7179821
Dissolved Titanium (Ti)	ug/L	<25	<25	25	7179821	<25	25	7179826	<25	25	7179821
Dissolved Tungsten (W)	ug/L	<5.0	<5.0	5.0	7179821	<5.0	5.0	7179826	<5.0	5.0	7179821
Dissolved Uranium (U)	ug/L	<0.50	<0.50	0.50	7179821	<0.50	0.50	7179826	<0.50	0.50	7179821
Dissolved Vanadium (V)	ug/L	<2.5	<2.5	2.5	7179821	<2.5	2.5	7179826	<2.5	2.5	7179821
Dissolved Zinc (Zn)	ug/L	<25	<25	25	7179821	<25	25	7179826	<25	25	7179821
Dissolved Zirconium (Zr)	ug/L	<5.0	<5.0	5.0	7179821	<5.0	5.0	7179826	<5.0	5.0	7179821

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



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BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		ORU171	ORU172		ORU173		ORU174		
Sampling Date		2021/01/25	2021/01/25		2021/01/25		2021/01/25		
COC Number		808571-01-01	808571-01-01		808571-01-01		808571-01-01		
	UNITS	P4-I	P4-II	QC Batch	P4-III	RDL	G24	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<25	26	7179821	<25	25	<4.9	4.9	7179826
Dissolved Antimony (Sb)	ug/L	<2.5	<2.5	7179821	<2.5	2.5	<0.50	0.50	7179826
Dissolved Arsenic (As)	ug/L	<5.0	<5.0	7179821	<5.0	5.0	<1.0	1.0	7179826
Dissolved Barium (Ba)	ug/L	24	15	7179821	34	10	50	2.0	7179826
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	7179821	<2.0	2.0	<0.40	0.40	7179826
Dissolved Bismuth (Bi)	ug/L	<5.0	<5.0	7179821	<5.0	5.0	<1.0	1.0	7179826
Dissolved Boron (B)	ug/L	1100	2100	7179821	370	50	230	10	7179826
Dissolved Cadmium (Cd)	ug/L	<0.45	<0.45	7179821	<0.45	0.45	0.70	0.090	7179826
Dissolved Calcium (Ca)	ug/L	840000	140000	7179821	700000	1000	220000	200	7179826
Dissolved Chromium (Cr)	ug/L	<25	<25	7179821	<25	25	<5.0	5.0	7179826
Dissolved Cobalt (Co)	ug/L	<2.5	<2.5	7179821	<2.5	2.5	<0.50	0.50	7179826
Dissolved Copper (Cu)	ug/L	<4.5	<4.5	7179821	<4.5	4.5	3.9	0.90	7179826
Dissolved Iron (Fe)	ug/L	<500	<500	7179821	<500	500	<100	100	7179826
Dissolved Lead (Pb)	ug/L	<2.5	<2.5	7179821	<2.5	2.5	<0.50	0.50	7179826
Dissolved Lithium (Li)	ug/L	400	240	7179821	53	25	13	5.0	7179826
Dissolved Magnesium (Mg)	ug/L	120000	21000	7179821	72000	250	89000	50	7179826
Dissolved Manganese (Mn)	ug/L	76	<10	7179821	77	10	20	2.0	7179826
Dissolved Molybdenum (Mo)	ug/L	<2.5	58	7179821	<2.5	2.5	4.2	0.50	7179826
Dissolved Nickel (Ni)	ug/L	<5.0	21	7179821	<5.0	5.0	15	1.0	7179826
Dissolved Phosphorus (P)	ug/L	640	670	7179821	580	500	<100	100	7179826
Dissolved Potassium (K)	ug/L	77000	140000	7179821	42000	1000	3800	200	7179826
Dissolved Selenium (Se)	ug/L	<10	10	7179821	<10	10	<2.0	2.0	7179826
Dissolved Silicon (Si)	ug/L	4600	7600	7179821	4300	250	6200	50	7179826
Dissolved Silver (Ag)	ug/L	<0.45	<0.45	7179821	<0.45	0.45	<0.090	0.090	7179826
Dissolved Sodium (Na)	ug/L	1300000	2600000	7179821	1100000	500	23000	100	7179826
Dissolved Strontium (Sr)	ug/L	10000	2300	7179821	7500	5.0	1700	1.0	7179826
Dissolved Tellurium (Te)	ug/L	<5.0	<5.0	7179821	<5.0	5.0	<1.0	1.0	7179826
Dissolved Thallium (Tl)	ug/L	<0.25	<0.25	7179821	<0.25	0.25	0.41	0.050	7179826
Dissolved Tin (Sn)	ug/L	<5.0	20	7179821	<5.0	5.0	<1.0	1.0	7179826
Dissolved Titanium (Ti)	ug/L	<25	<25	7179821	<25	25	<5.0	5.0	7179826
Dissolved Tungsten (W)	ug/L	<5.0	15	7179821	<5.0	5.0	<1.0	1.0	7179826
Dissolved Uranium (U)	ug/L	<0.50	<0.50	7179821	<0.50	0.50	7.6	0.10	7179826
Dissolved Vanadium (V)	ug/L	<2.5	6.0	7179821	<2.5	2.5	<0.50	0.50	7179826
Dissolved Zinc (Zn)	ug/L	<25	<25	7179821	<25	25	1800	5.0	7179826
Dissolved Zirconium (Zr)	ug/L	<5.0	<5.0	7179821	<5.0	5.0	<1.0	1.0	7179826
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



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BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		ORU175		ORU176			ORU239		ORU240		
Sampling Date		2021/01/25		2021/01/25			2021/01/25		2021/01/25		
COC Number		808571-01-01		808571-01-01			808571-02-01		808571-02-01		
	UNITS	43-I	RDL	43-II	RDL	QC Batch	P12	QC Batch	P16	RDL	QC Batch
Metals											
Dissolved Aluminum (Al)	ug/L	<25	25	<4.9	4.9	7179821	<4.9	7179826	<4.9	4.9	7179821
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	<0.50	0.50	7179821	<0.50	7179826	<0.50	0.50	7179821
Dissolved Arsenic (As)	ug/L	<5.0	5.0	<1.0	1.0	7179821	1.2	7179826	<1.0	1.0	7179821
Dissolved Barium (Ba)	ug/L	12	10	16	2.0	7179821	33	7179826	12	2.0	7179821
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	<0.40	0.40	7179821	<0.40	7179826	<0.40	0.40	7179821
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	<1.0	1.0	7179821	<1.0	7179826	<1.0	1.0	7179821
Dissolved Boron (B)	ug/L	810	50	710	10	7179821	580	7179826	450	10	7179821
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	<0.090	0.090	7179821	<0.090	7179826	<0.090	0.090	7179821
Dissolved Calcium (Ca)	ug/L	710000	1000	320000	1000	7179821	130000	7179826	170000	200	7179821
Dissolved Chromium (Cr)	ug/L	<25	25	<5.0	5.0	7179821	<5.0	7179826	<5.0	5.0	7179821
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	<0.50	0.50	7179821	<0.50	7179826	<0.50	0.50	7179821
Dissolved Copper (Cu)	ug/L	<4.5	4.5	<0.90	0.90	7179821	<0.90	7179826	<0.90	0.90	7179821
Dissolved Iron (Fe)	ug/L	<500	500	<100	100	7179821	<100	7179826	<100	100	7179821
Dissolved Lead (Pb)	ug/L	<2.5	2.5	<0.50	0.50	7179821	<0.50	7179826	<0.50	0.50	7179821
Dissolved Lithium (Li)	ug/L	170	25	100	5.0	7179821	33	7179826	34	5.0	7179821
Dissolved Magnesium (Mg)	ug/L	88000	250	77000	50	7179821	21000	7179826	73000	50	7179821
Dissolved Manganese (Mn)	ug/L	69	10	56	2.0	7179821	4.8	7179826	47	2.0	7179821
Dissolved Molybdenum (Mo)	ug/L	<2.5	2.5	<0.50	0.50	7179821	10	7179826	<0.50	0.50	7179821
Dissolved Nickel (Ni)	ug/L	<5.0	5.0	<1.0	1.0	7179821	3.0	7179826	2.6	1.0	7179821
Dissolved Phosphorus (P)	ug/L	520	500	<100	100	7179821	<100	7179826	140	100	7179821
Dissolved Potassium (K)	ug/L	34000	1000	16000	200	7179821	55000	7179826	39000	200	7179821
Dissolved Selenium (Se)	ug/L	<10	10	<2.0	2.0	7179821	<2.0	7179826	<2.0	2.0	7179821
Dissolved Silicon (Si)	ug/L	5000	250	4000	50	7179821	9700	7179826	5300	50	7179821
Dissolved Silver (Ag)	ug/L	<0.45	0.45	<0.090	0.090	7179821	<0.090	7179826	<0.090	0.090	7179821
Dissolved Sodium (Na)	ug/L	500000	500	200000	100	7179821	250000	7179826	280000	100	7179821
Dissolved Strontium (Sr)	ug/L	12000	5.0	11000	1.0	7179821	4100	7179826	2300	1.0	7179821
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	<1.0	1.0	7179821	<1.0	7179826	<1.0	1.0	7179821
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	<0.050	0.050	7179821	<0.050	7179826	<0.050	0.050	7179821
Dissolved Tin (Sn)	ug/L	<5.0	5.0	<1.0	1.0	7179821	<1.0	7179826	<1.0	1.0	7179821
Dissolved Titanium (Ti)	ug/L	<25	25	<5.0	5.0	7179821	<5.0	7179826	<5.0	5.0	7179821
Dissolved Tungsten (W)	ug/L	<5.0	5.0	<1.0	1.0	7179821	4.9	7179826	1.8	1.0	7179821
Dissolved Uranium (U)	ug/L	<0.50	0.50	<0.10	0.10	7179821	<0.10	7179826	<0.10	0.10	7179821
Dissolved Vanadium (V)	ug/L	<2.5	2.5	<0.50	0.50	7179821	<0.50	7179826	<0.50	0.50	7179821
Dissolved Zinc (Zn)	ug/L	<25	25	<5.0	5.0	7179821	<5.0	7179826	<5.0	5.0	7179821
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	<1.0	1.0	7179821	<1.0	7179826	<1.0	1.0	7179821
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											



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VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		ORU241	ORU242	ORU242		ORU243		ORU244		
Sampling Date		2021/01/25	2021/01/25	2021/01/25		2021/01/25		2021/01/25		
COC Number		808571-02-01	808571-02-01	808571-02-01		808571-02-01		808571-02-01		
	UNITS	P17	68-I	68-I Lab-Dup	RDL	68-II	RDL	68-III	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	170	<25	<25	25	<4.9	4.9	<25	25	7179821
Dissolved Antimony (Sb)	ug/L	<2.5	<2.5	<2.5	2.5	<0.50	0.50	<2.5	2.5	7179821
Dissolved Arsenic (As)	ug/L	<5.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7179821
Dissolved Barium (Ba)	ug/L	<10	21	20	10	24	2.0	18	10	7179821
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	<2.0	2.0	<0.40	0.40	<2.0	2.0	7179821
Dissolved Bismuth (Bi)	ug/L	<5.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7179821
Dissolved Boron (B)	ug/L	480	920	930	50	660	10	630	50	7179821
Dissolved Cadmium (Cd)	ug/L	<0.45	<0.45	<0.45	0.45	<0.090	0.090	<0.45	0.45	7179821
Dissolved Calcium (Ca)	ug/L	8500	700000	720000	1000	470000	1000	350000	1000	7179821
Dissolved Chromium (Cr)	ug/L	<25	<25	<25	25	<5.0	5.0	<25	25	7179821
Dissolved Cobalt (Co)	ug/L	<2.5	<2.5	<2.5	2.5	<0.50	0.50	<2.5	2.5	7179821
Dissolved Copper (Cu)	ug/L	<4.5	<4.5	<4.5	4.5	<0.90	0.90	<4.5	4.5	7179821
Dissolved Iron (Fe)	ug/L	<500	<500	<500	500	520	100	<500	500	7179821
Dissolved Lead (Pb)	ug/L	<2.5	<2.5	<2.5	2.5	<0.50	0.50	<2.5	2.5	7179821
Dissolved Lithium (Li)	ug/L	<25	200	200	25	87	5.0	46	25	7179821
Dissolved Magnesium (Mg)	ug/L	1100	94000	94000	250	140000	50	6600	250	7179821
Dissolved Manganese (Mn)	ug/L	<10	73	73	10	270	2.0	<10	10	7179821
Dissolved Molybdenum (Mo)	ug/L	23	<2.5	<2.5	2.5	<0.50	0.50	49	2.5	7179821
Dissolved Nickel (Ni)	ug/L	11	<5.0	<5.0	5.0	2.5	1.0	16	5.0	7179821
Dissolved Phosphorus (P)	ug/L	1000	510	510	500	100	100	720	500	7179821
Dissolved Potassium (K)	ug/L	77000	42000	42000	1000	13000	200	100000	1000	7179821
Dissolved Selenium (Se)	ug/L	<10	11	<10	10	<2.0	2.0	12	10	7179821
Dissolved Silicon (Si)	ug/L	8100	3800	4000	250	4100	50	7000	250	7179821
Dissolved Silver (Ag)	ug/L	<0.45	<0.45	<0.45	0.45	<0.090	0.090	<0.45	0.45	7179821
Dissolved Sodium (Na)	ug/L	1300000	720000	740000	500	87000	100	1900000	500	7179821
Dissolved Strontium (Sr)	ug/L	450	9500	9400	5.0	6900	1.0	2600	5.0	7179821
Dissolved Tellurium (Te)	ug/L	<5.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7179821
Dissolved Thallium (Tl)	ug/L	<0.25	<0.25	<0.25	0.25	<0.050	0.050	<0.25	0.25	7179821
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7179821
Dissolved Titanium (Ti)	ug/L	<25	<25	<25	25	<5.0	5.0	<25	25	7179821
Dissolved Tungsten (W)	ug/L	11	<5.0	<5.0	5.0	<1.0	1.0	11	5.0	7179821
Dissolved Uranium (U)	ug/L	<0.50	<0.50	<0.50	0.50	0.33	0.10	<0.50	0.50	7179821
Dissolved Vanadium (V)	ug/L	<2.5	<2.5	<2.5	2.5	<0.50	0.50	<2.5	2.5	7179821
Dissolved Zinc (Zn)	ug/L	<25	<25	<25	25	<5.0	5.0	<25	25	7179821
Dissolved Zirconium (Zr)	ug/L	<5.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7179821
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



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VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		ORU245		ORU246		ORU247	ORU248	ORU263		
Sampling Date		2021/01/25		2021/01/25		2021/01/25	2021/01/25	2021/01/25		
COC Number		808571-02-01		808571-02-01		808571-02-01	808571-02-01	808571-04-01		
	UNITS	68-IV	RDL	31-I	RDL	31-II	31-III	35-V	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	<25	25	7.3	5.8	<4.9	4.9	7179821
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	<0.50	<0.50	0.50	7179821
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	<1.0	<1.0	1.0	7179821
Dissolved Barium (Ba)	ug/L	69	2.0	14	10	36	13	34	2.0	7179821
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<2.0	2.0	<0.40	<0.40	<0.40	0.40	7179821
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	<1.0	<1.0	1.0	7179821
Dissolved Boron (B)	ug/L	240	10	450	50	27	650	64	10	7179821
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.45	0.45	<0.090	<0.090	0.21	0.090	7179821
Dissolved Calcium (Ca)	ug/L	86000	200	11000	1000	53000	68000	170000	200	7179821
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<25	25	<5.0	<5.0	<5.0	5.0	7179821
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	<0.50	<0.50	0.50	7179821
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<4.5	4.5	15	<0.90	3.6	0.90	7179821
Dissolved Iron (Fe)	ug/L	<100	100	<500	500	<100	<100	<100	100	7179821
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	<0.50	<0.50	0.50	7179821
Dissolved Lithium (Li)	ug/L	16	5.0	<25	25	16	44	6.0	5.0	7179821
Dissolved Magnesium (Mg)	ug/L	41000	50	2700	250	4600	23000	37000	50	7179821
Dissolved Manganese (Mn)	ug/L	5.1	2.0	<10	10	<2.0	9.2	<2.0	2.0	7179821
Dissolved Molybdenum (Mo)	ug/L	0.77	0.50	99	2.5	4.2	2.1	2.6	0.50	7179821
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	28	5.0	2.0	1.3	16	1.0	7179821
Dissolved Phosphorus (P)	ug/L	110	100	950	500	130	140	110	100	7179821
Dissolved Potassium (K)	ug/L	7000	200	160000	1000	7000	61000	2200	200	7179821
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<10	10	<2.0	9.5	<2.0	2.0	7179821
Dissolved Silicon (Si)	ug/L	2800	50	9900	250	1500	12000	5100	50	7179821
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.45	0.45	<0.090	<0.090	<0.090	0.090	7179821
Dissolved Sodium (Na)	ug/L	66000	100	2700000	500	10000	470000	30000	100	7179821
Dissolved Strontium (Sr)	ug/L	4400	1.0	480	5.0	330	3000	760	1.0	7179821
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	<1.0	<1.0	1.0	7179821
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.25	0.25	<0.050	<0.050	0.33	0.050	7179821
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	<1.0	<1.0	1.0	7179821
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<25	25	<5.0	<5.0	<5.0	5.0	7179821
Dissolved Tungsten (W)	ug/L	<1.0	1.0	17	5.0	<1.0	1.2	<1.0	1.0	7179821
Dissolved Uranium (U)	ug/L	0.30	0.10	<0.50	0.50	0.11	<0.10	5.4	0.10	7179821
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<2.5	2.5	1.0	<0.50	<0.50	0.50	7179821
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<25	25	<5.0	<5.0	630	5.0	7179821
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	<1.0	<1.0	1.0	7179821
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		ORU264		ORU265		ORU266		ORU267		
Sampling Date		2021/01/25		2021/01/25		2021/01/25		2021/01/25		
COC Number		808571-04-01		808571-04-01		808571-04-01		808571-04-01		
	UNITS	35-VI	RDL	35-VII	RDL	4-IV	QC Batch	2-IV	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<25	25	5.3	4.9	<25	7179821	<25	25	7179826
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	<0.50	0.50	<2.5	7179821	<2.5	2.5	7179826
Dissolved Arsenic (As)	ug/L	7.9	5.0	<1.0	1.0	<5.0	7179821	<5.0	5.0	7179826
Dissolved Barium (Ba)	ug/L	35	10	38	2.0	14	7179821	19	10	7179826
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	<0.40	0.40	<2.0	7179821	<2.0	2.0	7179826
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	<1.0	1.0	<5.0	7179821	<5.0	5.0	7179826
Dissolved Boron (B)	ug/L	530	50	170	10	2100	7179821	1000	50	7179826
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	<0.090	0.090	<0.45	7179821	<0.45	0.45	7179826
Dissolved Calcium (Ca)	ug/L	860000	1000	250000	200	130000	7179821	760000	1000	7179826
Dissolved Chromium (Cr)	ug/L	<25	25	<5.0	5.0	<25	7179821	<25	25	7179826
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	0.50	0.50	<2.5	7179821	<2.5	2.5	7179826
Dissolved Copper (Cu)	ug/L	<4.5	4.5	<0.90	0.90	<4.5	7179821	<4.5	4.5	7179826
Dissolved Iron (Fe)	ug/L	<500	500	<100	100	<500	7179821	<500	500	7179826
Dissolved Lead (Pb)	ug/L	<2.5	2.5	<0.50	0.50	<2.5	7179821	<2.5	2.5	7179826
Dissolved Lithium (Li)	ug/L	110	25	17	5.0	240	7179821	190	25	7179826
Dissolved Magnesium (Mg)	ug/L	83000	250	31000	50	21000	7179821	99000	250	7179826
Dissolved Manganese (Mn)	ug/L	64	10	49	2.0	<10	7179821	78	10	7179826
Dissolved Molybdenum (Mo)	ug/L	<2.5	2.5	1.6	0.50	65	7179821	<2.5	2.5	7179826
Dissolved Nickel (Ni)	ug/L	<5.0	5.0	2.6	1.0	21	7179821	<5.0	5.0	7179826
Dissolved Phosphorus (P)	ug/L	590	500	130	100	<500	7179821	500	500	7179826
Dissolved Potassium (K)	ug/L	67000	1000	4600	200	140000	7179821	42000	1000	7179826
Dissolved Selenium (Se)	ug/L	18	10	<2.0	2.0	30	7179821	<10	10	7179826
Dissolved Silicon (Si)	ug/L	7100	250	4700	50	7500	7179821	4100	250	7179826
Dissolved Silver (Ag)	ug/L	<0.45	0.45	<0.090	0.090	<0.45	7179821	<0.45	0.45	7179826
Dissolved Sodium (Na)	ug/L	1500000	500	39000	100	2500000	7179821	760000	500	7179826
Dissolved Strontium (Sr)	ug/L	9000	5.0	1300	1.0	2400	7179821	10000	5.0	7179826
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	<1.0	1.0	<5.0	7179821	<5.0	5.0	7179826
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	<0.050	0.050	<0.25	7179821	<0.25	0.25	7179826
Dissolved Tin (Sn)	ug/L	<5.0	5.0	<1.0	1.0	20	7179821	<5.0	5.0	7179826
Dissolved Titanium (Ti)	ug/L	<25	25	<5.0	5.0	<25	7179821	<25	25	7179826
Dissolved Tungsten (W)	ug/L	<5.0	5.0	<1.0	1.0	15	7179821	<5.0	5.0	7179826
Dissolved Uranium (U)	ug/L	<0.50	0.50	3.4	0.10	<0.50	7179821	<0.50	0.50	7179826
Dissolved Vanadium (V)	ug/L	<2.5	2.5	<0.50	0.50	5.9	7179821	<2.5	2.5	7179826
Dissolved Zinc (Zn)	ug/L	<25	25	42	5.0	<25	7179821	<25	25	7179826
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	<1.0	1.0	<5.0	7179821	<5.0	5.0	7179826
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: ORU167
Sample ID: P10-I
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180050	N/A	2021/02/02	Surinder Rai
Anions	IC	7180032	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180054	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180055	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179821	N/A	2021/02/02	Nan Raykha
Total Ammonia-N	LACH/NH4	7180322	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180045	N/A	2021/02/02	Nimarta Singh
pH	AT	7180053	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179892	N/A	2021/02/02	Bramdeo Motiram
Orthophosphate	KONE	7180040	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180316	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180325	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180327	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU167 Dup
Sample ID: P10-I
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180045	N/A	2021/02/02	Nimarta Singh
Orthophosphate	KONE	7180040	N/A	2021/02/02	Avneet Kour Sudan
Total Kjeldahl Nitrogen in Water	SKAL	7180325	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180327	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU168
Sample ID: P10-II
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180050	N/A	2021/02/02	Surinder Rai
Anions	IC	7180032	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180054	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180055	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179821	N/A	2021/02/02	Nan Raykha
Total Ammonia-N	LACH/NH4	7180322	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180042	N/A	2021/02/02	Nimarta Singh
pH	AT	7180053	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179892	N/A	2021/02/02	Bramdeo Motiram
Orthophosphate	KONE	7180039	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180316	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180325	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180327	N/A	2021/02/02	Anna-Kay Gooden



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: ORU168 Dup
Sample ID: P10-II
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7180322	N/A	2021/02/02	Alina Dobreanu

BV Labs ID: ORU169
Sample ID: P10-III
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180050	N/A	2021/02/02	Surinder Rai
Anions	IC	7180032	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180054	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180055	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179826	N/A	2021/02/02	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7180322	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180042	N/A	2021/02/02	Nimarta Singh
pH	AT	7180053	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179892	N/A	2021/02/02	Bramdeo Motiram
Orthophosphate	KONE	7180039	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180316	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180325	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180327	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU170
Sample ID: P10-IV
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180050	N/A	2021/02/02	Surinder Rai
Anions	IC	7180032	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180054	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180055	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179821	N/A	2021/02/02	Nan Raykha
Total Ammonia-N	LACH/NH4	7180322	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180042	N/A	2021/02/02	Nimarta Singh
pH	AT	7180053	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179892	N/A	2021/02/02	Bramdeo Motiram
Orthophosphate	KONE	7180039	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180316	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180325	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180327	N/A	2021/02/02	Anna-Kay Gooden



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: ORU171
Sample ID: P4-I
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180023	N/A	2021/02/02	Surinder Rai
Anions	IC	7180498	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180028	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180029	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179821	N/A	2021/02/02	Nan Raykha
Total Ammonia-N	LACH/NH4	7180322	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180045	N/A	2021/02/02	Nimarta Singh
pH	AT	7180027	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179892	N/A	2021/02/02	Bramdeo Motiram
Orthophosphate	KONE	7180040	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180316	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180325	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180327	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU172
Sample ID: P4-II
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180050	N/A	2021/02/02	Surinder Rai
Anions	IC	7180032	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180054	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180055	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179821	N/A	2021/02/02	Nan Raykha
Total Ammonia-N	LACH/NH4	7180322	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180042	N/A	2021/02/02	Nimarta Singh
pH	AT	7180053	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179892	N/A	2021/02/02	Bramdeo Motiram
Orthophosphate	KONE	7180039	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180316	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180325	2021/02/02	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180327	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU172 Dup
Sample ID: P4-II
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7179892	N/A	2021/02/02	Bramdeo Motiram



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: ORU173
Sample ID: P4-III
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180050	N/A	2021/02/02	Surinder Rai
Anions	IC	7180032	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180054	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180055	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179826	N/A	2021/02/02	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7180322	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180042	N/A	2021/02/02	Nimarta Singh
pH	AT	7180053	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179892	N/A	2021/02/02	Bramdeo Motiram
Orthophosphate	KONE	7180039	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180316	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180325	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180327	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU174
Sample ID: G24
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180050	N/A	2021/02/02	Surinder Rai
Anions	IC	7180032	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180054	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180055	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179826	N/A	2021/02/03	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7180322	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180042	N/A	2021/02/02	Nimarta Singh
pH	AT	7180053	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179892	N/A	2021/02/02	Bramdeo Motiram
Orthophosphate	KONE	7180039	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180316	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180325	2021/02/02	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180327	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU175
Sample ID: 43-I
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180050	N/A	2021/02/02	Surinder Rai
Anions	IC	7180032	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180054	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180055	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: ORU175
Sample ID: 43-I
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7179821	N/A	2021/02/02	Nan Raykha
Total Ammonia-N	LACH/NH4	7180322	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180042	N/A	2021/02/02	Nimarta Singh
pH	AT	7180053	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179892	N/A	2021/02/02	Bramdeo Motiram
Orthophosphate	KONE	7180039	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180316	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180325	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180327	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU176
Sample ID: 43-II
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180050	N/A	2021/02/02	Surinder Rai
Anions	IC	7180032	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180054	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180055	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179821	N/A	2021/02/02	Nan Raykha
Total Ammonia-N	LACH/NH4	7180322	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180042	N/A	2021/02/02	Nimarta Singh
pH	AT	7180053	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179892	N/A	2021/02/02	Bramdeo Motiram
Orthophosphate	KONE	7180039	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180316	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180325	2021/02/02	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180327	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU239
Sample ID: P12
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180050	N/A	2021/02/02	Surinder Rai
Anions	IC	7180032	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180054	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180055	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179826	N/A	2021/02/02	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7180324	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180042	N/A	2021/02/02	Nimarta Singh
pH	AT	7180053	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179892	N/A	2021/02/02	Bramdeo Motiram



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: ORU239
Sample ID: P12
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7180039	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180316	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180326	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180337	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU239 Dup
Sample ID: P12
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7180326	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180337	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU240
Sample ID: P16
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180023	N/A	2021/02/02	Surinder Rai
Anions	IC	7180498	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180028	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180029	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179821	N/A	2021/02/02	Nan Raykha
Total Ammonia-N	LACH/NH4	7180324	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180042	N/A	2021/02/02	Nimarta Singh
pH	AT	7180027	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179897	N/A	2021/02/02	Bramdeo Motiram
Orthophosphate	KONE	7180039	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180316	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180326	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180337	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU240 Dup
Sample ID: P16
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7180324	N/A	2021/02/02	Alina Dobreanu
Phenols (4AAP)	TECH/PHEN	7179897	N/A	2021/02/02	Bramdeo Motiram



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: ORU241
Sample ID: P17
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180023	N/A	2021/02/02	Surinder Rai
Anions	IC	7180498	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180028	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180029	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179821	N/A	2021/02/02	Nan Raykha
Total Ammonia-N	LACH/NH4	7180324	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180045	N/A	2021/02/02	Nimarta Singh
pH	AT	7180027	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179892	N/A	2021/02/02	Bramdeo Motiram
Orthophosphate	KONE	7180040	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180316	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180326	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180337	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU242
Sample ID: 68-I
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180023	N/A	2021/02/02	Surinder Rai
Anions	IC	7180498	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7180028	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180029	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179821	N/A	2021/02/02	Nan Raykha
Total Ammonia-N	LACH/NH4	7180324	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180045	N/A	2021/02/02	Nimarta Singh
pH	AT	7180027	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179897	N/A	2021/02/02	Bramdeo Motiram
Orthophosphate	KONE	7180040	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180316	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180326	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180337	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU242 Dup
Sample ID: 68-I
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7179821	N/A	2021/02/02	Nan Raykha



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: ORU243
Sample ID: 68-II
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180023	N/A	2021/02/02	Surinder Rai
Anions	IC	7180498	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7180028	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180029	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179821	N/A	2021/02/02	Nan Raykha
Total Ammonia-N	LACH/NH4	7180324	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180045	N/A	2021/02/02	Nimarta Singh
pH	AT	7180027	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179897	N/A	2021/02/02	Bramdeo Motiram
Orthophosphate	KONE	7180040	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180316	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180326	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180337	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU243 Dup
Sample ID: 68-II
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180023	N/A	2021/02/02	Surinder Rai
Conductivity	AT	7180028	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180029	2021/02/02	2021/02/02	Surinder Rai
pH	AT	7180027	2021/02/02	2021/02/02	Surinder Rai

BV Labs ID: ORU244
Sample ID: 68-III
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180050	N/A	2021/02/02	Surinder Rai
Anions	IC	7180032	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180054	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180055	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179821	N/A	2021/02/02	Nan Raykha
Total Ammonia-N	LACH/NH4	7180324	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180042	N/A	2021/02/02	Nimarta Singh
pH	AT	7180053	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179892	N/A	2021/02/02	Bramdeo Motiram
Orthophosphate	KONE	7180039	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180316	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180326	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180337	N/A	2021/02/02	Anna-Kay Gooden



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: ORU245
Sample ID: 68-IV
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180050	N/A	2021/02/02	Surinder Rai
Anions	IC	7180032	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180054	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180055	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179821	N/A	2021/02/02	Nan Raykha
Total Ammonia-N	LACH/NH4	7180324	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180042	N/A	2021/02/02	Nimarta Singh
pH	AT	7180053	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179892	N/A	2021/02/02	Bramdeo Motiram
Orthophosphate	KONE	7180039	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180316	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180326	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180337	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU246
Sample ID: 31-I
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180050	N/A	2021/02/02	Surinder Rai
Anions	IC	7180032	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180054	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180055	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179821	N/A	2021/02/02	Nan Raykha
Total Ammonia-N	LACH/NH4	7180324	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180042	N/A	2021/02/02	Nimarta Singh
pH	AT	7180053	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179892	N/A	2021/02/02	Bramdeo Motiram
Orthophosphate	KONE	7180039	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180316	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180326	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180337	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU247
Sample ID: 31-II
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180050	N/A	2021/02/02	Surinder Rai
Anions	IC	7180032	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180054	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180055	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: ORU247
Sample ID: 31-II
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7179821	N/A	2021/02/02	Nan Raykha
Total Ammonia-N	LACH/NH4	7180324	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180042	N/A	2021/02/02	Nimarta Singh
pH	AT	7180053	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179897	N/A	2021/02/02	Bramdeo Motiram
Orthophosphate	KONE	7180039	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180316	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180326	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180337	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU248
Sample ID: 31-III
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180050	N/A	2021/02/02	Surinder Rai
Anions	IC	7180032	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180054	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180055	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179821	N/A	2021/02/02	Nan Raykha
Total Ammonia-N	LACH/NH4	7180324	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180042	N/A	2021/02/02	Nimarta Singh
pH	AT	7180053	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179897	N/A	2021/02/02	Bramdeo Motiram
Orthophosphate	KONE	7180039	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180628	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180326	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180337	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU263
Sample ID: 35-V
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180050	N/A	2021/02/02	Surinder Rai
Anions	IC	7180032	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180054	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180055	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179821	N/A	2021/02/02	Nan Raykha
Total Ammonia-N	LACH/NH4	7180324	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180042	N/A	2021/02/02	Nimarta Singh
pH	AT	7180053	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179892	N/A	2021/02/02	Bramdeo Motiram



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: ORU263
Sample ID: 35-V
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7180039	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180628	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180326	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180337	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU264
Sample ID: 35-VI
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180050	N/A	2021/02/02	Surinder Rai
Anions	IC	7180032	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180054	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180055	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179821	N/A	2021/02/02	Nan Raykha
Total Ammonia-N	LACH/NH4	7180324	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180042	N/A	2021/02/02	Nimarta Singh
pH	AT	7180053	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179892	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7180039	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180628	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180326	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180337	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU264 Dup
Sample ID: 35-VI
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180050	N/A	2021/02/02	Surinder Rai
Anions	IC	7180032	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180054	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180055	2021/02/02	2021/02/02	Surinder Rai
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180042	N/A	2021/02/02	Nimarta Singh
pH	AT	7180053	2021/02/02	2021/02/02	Surinder Rai
Orthophosphate	KONE	7180039	N/A	2021/02/02	Avneet Kour Sudan

BV Labs ID: ORU265
Sample ID: 35-VII
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180050	N/A	2021/02/02	Surinder Rai
Anions	IC	7180032	N/A	2021/02/02	Fari Dehdezi



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: ORU265
Sample ID: 35-VII
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7180054	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180055	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179821	N/A	2021/02/02	Nan Raykha
Total Ammonia-N	LACH/NH4	7180324	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180042	N/A	2021/02/02	Nimarta Singh
pH	AT	7180053	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179892	N/A	2021/02/02	Bramdeo Motiram
Orthophosphate	KONE	7180039	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180628	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180326	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180337	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU266
Sample ID: 4-IV
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180050	N/A	2021/02/02	Surinder Rai
Anions	IC	7180032	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180054	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180055	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7169538	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179821	N/A	2021/02/02	Nan Raykha
Total Ammonia-N	LACH/NH4	7180324	N/A	2021/02/02	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180042	N/A	2021/02/02	Nimarta Singh
pH	AT	7180053	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179892	N/A	2021/02/02	Bramdeo Motiram
Orthophosphate	KONE	7180039	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180628	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180326	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180337	N/A	2021/02/02	Anna-Kay Gooden

BV Labs ID: ORU267
Sample ID: 2-IV
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7180050	N/A	2021/02/02	Surinder Rai
Anions	IC	7180032	N/A	2021/02/02	Fari Dehdezi
Conductivity	AT	7180054	N/A	2021/02/02	Surinder Rai
Fluoride	ISE	7180055	2021/02/02	2021/02/02	Surinder Rai
Hardness (calculated as CaCO3)		7171280	N/A	2021/02/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7179826	N/A	2021/02/02	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7180324	N/A	2021/02/02	Alina Dobreanu



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: ORU267
Sample ID: 2-IV
Matrix: Water

Collected: 2021/01/25
Shipped:
Received: 2021/01/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7180042	N/A	2021/02/02	Nimarta Singh
pH	AT	7180053	2021/02/02	2021/02/02	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7179892	N/A	2021/02/02	Bramdeo Motiram
Orthophosphate	KONE	7180039	N/A	2021/02/02	Avneet Kour Sudan
Total Dissolved Solids	BAL	7180628	2021/02/02	2021/02/03	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7180326	2021/02/02	2021/02/02	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7180337	N/A	2021/02/02	Anna-Kay Gooden



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	1.0°C
Package 2	1.3°C
Package 3	0.7°C
Package 4	1.0°C
Package 5	0.7°C

Anions Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample ORU167 [P10-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample ORU168 [P10-II] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample ORU169 [P10-III] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample ORU170 [P10-IV] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample ORU171 [P4-I] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.
Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample ORU172 [P4-II] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample ORU173 [P4-III] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample ORU175 [43-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample ORU241 [P17] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.
Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample ORU242 [68-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample ORU244 [68-III] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample ORU246 [31-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample ORU264 [35-VI] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample ORU266 [4-IV] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample ORU267 [2-IV] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C122097

Report Date: 2021/02/05

QUALITY ASSURANCE REPORT

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7179821	Dissolved Aluminum (Al)	2021/02/02	101	80 - 120	99	80 - 120	<4.9	ug/L	NC	20		
7179821	Dissolved Antimony (Sb)	2021/02/02	105	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7179821	Dissolved Arsenic (As)	2021/02/02	101	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7179821	Dissolved Barium (Ba)	2021/02/02	98	80 - 120	98	80 - 120	<2.0	ug/L	5.2	20		
7179821	Dissolved Beryllium (Be)	2021/02/02	101	80 - 120	96	80 - 120	<0.40	ug/L	NC	20		
7179821	Dissolved Bismuth (Bi)	2021/02/02	92	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7179821	Dissolved Boron (B)	2021/02/02	NC	80 - 120	91	80 - 120	<10	ug/L	1.4	20		
7179821	Dissolved Cadmium (Cd)	2021/02/02	100	80 - 120	97	80 - 120	<0.090	ug/L	NC	20		
7179821	Dissolved Calcium (Ca)	2021/02/02	NC	80 - 120	97	80 - 120	<200	ug/L	2.2	20		
7179821	Dissolved Chromium (Cr)	2021/02/02	99	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7179821	Dissolved Cobalt (Co)	2021/02/02	99	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7179821	Dissolved Copper (Cu)	2021/02/02	100	80 - 120	100	80 - 120	<0.90	ug/L	NC	20		
7179821	Dissolved Iron (Fe)	2021/02/02	98	80 - 120	96	80 - 120	<100	ug/L	NC	20		
7179821	Dissolved Lead (Pb)	2021/02/02	100	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7179821	Dissolved Lithium (Li)	2021/02/02	106	80 - 120	106	80 - 120	<5.0	ug/L	2.0	20		
7179821	Dissolved Magnesium (Mg)	2021/02/02	NC	80 - 120	101	80 - 120	<50	ug/L	0.41	20		
7179821	Dissolved Manganese (Mn)	2021/02/02	99	80 - 120	98	80 - 120	<2.0	ug/L	0.023	20		
7179821	Dissolved Molybdenum (Mo)	2021/02/02	104	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
7179821	Dissolved Nickel (Ni)	2021/02/02	98	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
7179821	Dissolved Phosphorus (P)	2021/02/02	NC	80 - 120	119	80 - 120	<100	ug/L	0.0023	20		
7179821	Dissolved Potassium (K)	2021/02/02	NC	80 - 120	103	80 - 120	<200	ug/L	0.61	20		
7179821	Dissolved Selenium (Se)	2021/02/02	97	80 - 120	99	80 - 120	<2.0	ug/L	5.5	20		
7179821	Dissolved Silicon (Si)	2021/02/02	104	80 - 120	101	80 - 120	<50	ug/L	4.1	20		
7179821	Dissolved Silver (Ag)	2021/02/02	86	80 - 120	97	80 - 120	<0.090	ug/L	NC	20		
7179821	Dissolved Sodium (Na)	2021/02/02	NC	80 - 120	101	80 - 120	<100	ug/L	2.0	20		
7179821	Dissolved Strontium (Sr)	2021/02/02	NC	80 - 120	96	80 - 120	<1.0	ug/L	1.0	20		
7179821	Dissolved Tellurium (Te)	2021/02/02	91	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
7179821	Dissolved Thallium (Tl)	2021/02/02	101	80 - 120	101	80 - 120	<0.050	ug/L	NC	20		
7179821	Dissolved Tin (Sn)	2021/02/02	105	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7179821	Dissolved Titanium (Ti)	2021/02/02	99	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7179821	Dissolved Tungsten (W)	2021/02/02	102	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: C122097

Report Date: 2021/02/05

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7179821	Dissolved Uranium (U)	2021/02/02	101	80 - 120	99	80 - 120	<0.10	ug/L	NC	20		
7179821	Dissolved Vanadium (V)	2021/02/02	103	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7179821	Dissolved Zinc (Zn)	2021/02/02	97	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
7179821	Dissolved Zirconium (Zr)	2021/02/02	108	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7179826	Dissolved Aluminum (Al)	2021/02/02	114	80 - 120	103	80 - 120	<4.9	ug/L				
7179826	Dissolved Antimony (Sb)	2021/02/02	116	80 - 120	103	80 - 120	<0.50	ug/L				
7179826	Dissolved Arsenic (As)	2021/02/02	103	80 - 120	100	80 - 120	<1.0	ug/L				
7179826	Dissolved Barium (Ba)	2021/02/02	NC	80 - 120	101	80 - 120	<2.0	ug/L				
7179826	Dissolved Beryllium (Be)	2021/02/02	105	80 - 120	101	80 - 120	<0.40	ug/L				
7179826	Dissolved Bismuth (Bi)	2021/02/02	98	80 - 120	99	80 - 120	<1.0	ug/L				
7179826	Dissolved Boron (B)	2021/02/02	103	80 - 120	97	80 - 120	<10	ug/L				
7179826	Dissolved Cadmium (Cd)	2021/02/02	110	80 - 120	102	80 - 120	<0.090	ug/L				
7179826	Dissolved Calcium (Ca)	2021/02/02	NC	80 - 120	100	80 - 120	<200	ug/L				
7179826	Dissolved Chromium (Cr)	2021/02/02	101	80 - 120	98	80 - 120	<5.0	ug/L				
7179826	Dissolved Cobalt (Co)	2021/02/02	103	80 - 120	103	80 - 120	<0.50	ug/L				
7179826	Dissolved Copper (Cu)	2021/02/02	111	80 - 120	100	80 - 120	<0.90	ug/L				
7179826	Dissolved Iron (Fe)	2021/02/02	NC	80 - 120	99	80 - 120	<100	ug/L				
7179826	Dissolved Lead (Pb)	2021/02/02	100	80 - 120	98	80 - 120	<0.50	ug/L	0.20	20		
7179826	Dissolved Lithium (Li)	2021/02/02	111	80 - 120	106	80 - 120	<5.0	ug/L				
7179826	Dissolved Magnesium (Mg)	2021/02/02	NC	80 - 120	101	80 - 120	<50	ug/L				
7179826	Dissolved Manganese (Mn)	2021/02/02	NC	80 - 120	100	80 - 120	<2.0	ug/L				
7179826	Dissolved Molybdenum (Mo)	2021/02/02	114	80 - 120	101	80 - 120	<0.50	ug/L				
7179826	Dissolved Nickel (Ni)	2021/02/02	98	80 - 120	100	80 - 120	<1.0	ug/L				
7179826	Dissolved Phosphorus (P)	2021/02/02	117	80 - 120	112	80 - 120	<100	ug/L				
7179826	Dissolved Potassium (K)	2021/02/02	111	80 - 120	103	80 - 120	<200	ug/L				
7179826	Dissolved Selenium (Se)	2021/02/02	103	80 - 120	101	80 - 120	<2.0	ug/L				
7179826	Dissolved Silicon (Si)	2021/02/02	117	80 - 120	100	80 - 120	<50	ug/L				
7179826	Dissolved Silver (Ag)	2021/02/02	101	80 - 120	98	80 - 120	<0.090	ug/L				
7179826	Dissolved Sodium (Na)	2021/02/02	NC	80 - 120	100	80 - 120	<100	ug/L				
7179826	Dissolved Strontium (Sr)	2021/02/02	NC	80 - 120	101	80 - 120	<1.0	ug/L				
7179826	Dissolved Tellurium (Te)	2021/02/02	113	80 - 120	101	80 - 120	<1.0	ug/L				



BUREAU
VERITAS

BV Labs Job #: C122097
Report Date: 2021/02/05

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7179826	Dissolved Thallium (Tl)	2021/02/02	96	80 - 120	98	80 - 120	<0.050	ug/L				
7179826	Dissolved Tin (Sn)	2021/02/02	116	80 - 120	104	80 - 120	<1.0	ug/L				
7179826	Dissolved Titanium (Ti)	2021/02/02	112	80 - 120	99	80 - 120	<5.0	ug/L				
7179826	Dissolved Tungsten (W)	2021/02/02	104	80 - 120	99	80 - 120	<1.0	ug/L				
7179826	Dissolved Uranium (U)	2021/02/02	104	80 - 120	102	80 - 120	<0.10	ug/L				
7179826	Dissolved Vanadium (V)	2021/02/02	106	80 - 120	100	80 - 120	<0.50	ug/L				
7179826	Dissolved Zinc (Zn)	2021/02/02	98	80 - 120	100	80 - 120	<5.0	ug/L				
7179826	Dissolved Zirconium (Zr)	2021/02/02	122 (1)	80 - 120	104	80 - 120	<1.0	ug/L				
7179892	Phenols-4AAP	2021/02/02	NC	80 - 120	103	80 - 120	<0.0010	mg/L	3.2	20		
7179897	Phenols-4AAP	2021/02/02	104	80 - 120	101	80 - 120	<0.0010	mg/L	6.3	20		
7180023	Alkalinity (Total as CaCO3)	2021/02/02			97	85 - 115	<1.0	mg/L	0.45	20		
7180027	pH	2021/02/02			101	98 - 103			0.43	N/A		
7180028	Conductivity	2021/02/02			100	85 - 115	<1.0	umho/cm	0.92	25		
7180029	Fluoride (F-)	2021/02/02	96	80 - 120	102	80 - 120	<0.10	mg/L	10	20		
7180032	Dissolved Bromide (Br-)	2021/02/02	113	80 - 120	111	80 - 120	<1.0	mg/L	NC	20		
7180032	Dissolved Chloride (Cl-)	2021/02/02	NC	80 - 120	99	70 - 130	<1.0	mg/L	1.5	20		
7180032	Dissolved Sulphate (SO4)	2021/02/02	NC	80 - 120	100	80 - 120	<1.0	mg/L	1.6	20		
7180039	Orthophosphate (P)	2021/02/02	105	75 - 125	98	80 - 120	<0.010	mg/L	7.1	25		
7180040	Orthophosphate (P)	2021/02/02	102	75 - 125	100	80 - 120	<0.010	mg/L	10	25		
7180042	Nitrate (N)	2021/02/02	103	80 - 120	101	80 - 120	<0.10	mg/L	NC	20		
7180042	Nitrite (N)	2021/02/02	105	80 - 120	106	80 - 120	<0.010	mg/L	8.0	20		
7180045	Nitrate (N)	2021/02/02	106	80 - 120	101	80 - 120	<0.10	mg/L	NC	20		
7180045	Nitrite (N)	2021/02/02	105	80 - 120	106	80 - 120	<0.010	mg/L	NC	20		
7180050	Alkalinity (Total as CaCO3)	2021/02/02			96	85 - 115	<1.0	mg/L	2.2	20		
7180053	pH	2021/02/02			101	98 - 103			1.9	N/A		
7180054	Conductivity	2021/02/02			101	85 - 115	<1.0	umho/cm	0.19	25		
7180055	Fluoride (F-)	2021/02/02	90	80 - 120	101	80 - 120	<0.10	mg/L	2.4	20		
7180316	Total Dissolved Solids	2021/02/03					<10	mg/L	1.7	25	98	90 - 110
7180322	Total Ammonia-N	2021/02/02	NC	75 - 125	98	80 - 120	<0.050	mg/L	0.045	20		



BUREAU
VERITAS

BV Labs Job #: C122097

Report Date: 2021/02/05

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7180324	Total Ammonia-N	2021/02/02	89	75 - 125	98	80 - 120	<0.050	mg/L	1.4	20		
7180325	Total Kjeldahl Nitrogen (TKN)	2021/02/02	NC	80 - 120	101	80 - 120	<0.10	mg/L	2.1	20	103	80 - 120
7180326	Total Kjeldahl Nitrogen (TKN)	2021/02/02	NC	80 - 120	100	80 - 120	<0.10	mg/L	3.5	20	101	80 - 120
7180327	Total Organic Carbon (TOC)	2021/02/02	98	80 - 120	98	80 - 120	<0.40	mg/L	0.72	20		
7180337	Total Organic Carbon (TOC)	2021/02/02	96	80 - 120	97	80 - 120	<0.40	mg/L	1.2	20		
7180498	Dissolved Bromide (Br-)	2021/02/02	108	80 - 120	113	80 - 120	<1.0	mg/L	NC	20		
7180498	Dissolved Chloride (Cl-)	2021/02/02	97	80 - 120	101	70 - 130	<1.0	mg/L	1.4	20		
7180498	Dissolved Sulphate (SO4)	2021/02/02	110	80 - 120	103	80 - 120	<1.0	mg/L	0.51	20		
7180628	Total Dissolved Solids	2021/02/03					<10	mg/L	3.0	25	98	90 - 110

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

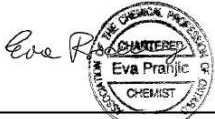
BV Labs Job #: C122097
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Anastassia Hamanov, Scientific Specialist



Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-561-9000

Return to Fumehood
CAUTION
Reason: H2S smell

26-Jan-21 16:45

Page 1 of 3

Jolanta Goralczyk
C122097

INVOICE TO:		REPORT		PROJECT INFORMATION		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental	Company Name: Brad Mullin - GHD Reporting	Quotation #: B60569	Project Name: JAS ENV-1370		Bottle Order #: 808571		Project Manager: Jolanta Goralczyk
Attention: Accounting	Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Site #: GW	COC #: C#908571-01-01		Barcode		
Tel: (905) 561-0305	Fax: (905) 561-1674	Email: bmulin@terrapureenv.com; dtaylor2@terrapureenv.com		Sampled By: GW			

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY					ANALYSIS REQUESTED (PLEASE BE SPECIFIC)					Turnaround Time (TAT) Required:				
Regulation 153 (2011)			Other Regulations		Special Instructions		Field Filtered (please circle): Metals / Hg / Cr-VI	Leak * GW Monitoring					Please provide advance notice for rush projects	
Table 1	Res/Park	Medium/Fine	CCME	Sanitary Sewer Bylaw		Regular (Standard) TAT:								
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									<input checked="" type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										
Include Criteria on Certificate of Analysis (Y/N)?														
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix									# of Bottles	Comments
	P10-I	21/01/25	AM	GW	Y	✓							6	
	P10-II			GW	Y	✓							6	
	P10-III			GW	Y	✓							6	
	P10-IV			GW	Y	✓							6	
	P4-I			GW	Y	✓							6	
	P4-II			GW	Y	✓							6	
	P4-III			GW	Y	✓							6	
	G24			GW	Y	✓							6	
	43-I			GW	Y	✓							6	General was filtered colour may look odd but O.K. ✓
	43-II			GW	Y	✓							6	

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only		
<i>[Signature]</i>	21/01/25	AM	<i>[Signature]</i>	20/01/26	16:45		Time Sensitive	Temperature (°C) on Receipt	Custody Seal Present
								Refer to ACTA	Intact

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

** IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client



INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental	Company Name: Brad Mullin - GHD Reporting	Quotation #: B60569	BV Labs Job #:	Bottle Order #:	Barcode: 808571		
Attention: Accounting	Attention: Brad Mullin - GHD Reporting	P.O. #:	COC #:		Project Manager: Jolanta Goralczyk		
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address:	Project: GW	Barcode: C#808571-02-01				
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel: Fax:	Project Name: GW					
Email: kbailey@terrapureenv.com	Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com	Site #:					
		Sampled By:					

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY					Field Filtered (please circle): Metals / Hg / Cr / V	Last 'A' GW Monitoring	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required	
Regulation 153 (2011)		Other Regulations		Special Instructions													Please provide advance notice for rush projects	
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw											Regular (Standard) TAT: (will be applied if Rush TAT is not specified). Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.			
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw											Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____			
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____											Rush Confirmation Number: _____ (call lab for #)			
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWQO	<input type="checkbox"/> Reg 406 Table _____														
Include Criteria on Certificate of Analysis (Y/N)?																		
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix												# of Bottles	Comments	
1	P12	21/01/25	AM	GW	Y	✓										6		
2	P16			GW	Y	✓										6		
3	P17			GW	Y	✓										6		
4	68-I			GW	Y	✓										6		
5	68-II			GW	Y	✓										6		
6	68-III			GW	Y	✓										6		
7	68-IV			GW	Y	✓										6		
8	31-I			GW	Y	✓										6		
9	31-II			GW	Y	✓										6		
10	31-III			GW	Y	✓										6		

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Laboratory Use Only				
<i>[Signature]</i>	21/01/26	AM	<i>[Signature]</i>				Time Sensitive	Temperature (°C) on Receipt	Custody Seal Present	Yes	No
									Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

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** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client



Your Project #: GW

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Your C.O.C. #: 808571-05-01, 808571-06-01, 808571-07-01

Report Date: 2021/02/24
Report #: R6531417
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C123457

Received: 2021/01/27, 15:24

Sample Matrix: Water
Samples Received: 26

Analyses	Date		Laboratory Method	Analytical Method
	Quantity	Extracted		
Alkalinity	26	N/A	2021/02/03 CAM SOP-00448	SM 23 2320 B m
Anions	26	N/A	2021/02/03 CAM SOP-00435	SM 23 4110 B m
Conductivity	26	N/A	2021/02/03 CAM SOP-00414	SM 23 2510 m
Fluoride	26	2021/02/03	2021/02/03 CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	20	N/A	2021/02/03 CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	6	N/A	2021/02/04 CAM SOP 00102/00408/00447	SM 2340 B
Lab Filtered Metals by ICPMS	1	2021/02/03	2021/02/04 CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	21	N/A	2021/02/03 CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	4	N/A	2021/02/04 CAM SOP-00447	EPA 6020B m
Total Ammonia-N	26	N/A	2021/02/03 CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	26	N/A	2021/02/03 CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	26	2021/02/03	2021/02/03 CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	18	N/A	2021/02/03 CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	8	N/A	2021/02/04 CAM SOP-00444	OMOE E3179 m
Orthophosphate	26	N/A	2021/02/03 CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	26	2021/02/03	2021/02/04 CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	26	2021/02/03	2021/02/03 CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	26	N/A	2021/02/03 CAM SOP-00446	SM 23 5310B m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

(2) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



Your Project #: GW

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Your C.O.C. #: 808571-05-01, 808571-06-01, 808571-07-01

Report Date: 2021/02/24
Report #: R6531417
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C123457

Received: 2021/01/27, 15:24

Encryption Key

Hongmei Zhao (Grace)
Project Manager
24 Feb 2021 15:59:02

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

=====

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VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSB099			OSB099			OSB100		
Sampling Date		2021/01/26			2021/01/26			2021/01/26		
COC Number		808571-05-01			808571-05-01			808571-05-01		
	UNITS	42-III	RDL	QC Batch	42-III Lab-Dup	RDL	QC Batch	42-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2200	1.0	7171039				1900	1.0	7171039
Inorganics										
Total Ammonia-N	mg/L	8.3	0.050	7182092				15	0.050	7182092
Conductivity	umho/cm	5900	1.0	7182308				5000	1.0	7182308
Total Dissolved Solids	mg/L	4130	10	7182318	4320	10	7182318	3590	10	7182318
Fluoride (F-)	mg/L	1.2	0.10	7182309				1.1	0.10	7182309
Total Kjeldahl Nitrogen (TKN)	mg/L	8.6	1.0	7182094				16	1.0	7182094
Total Organic Carbon (TOC)	mg/L	19	0.40	7182095				8.1	0.40	7182095
Orthophosphate (P)	mg/L	<0.010	0.010	7182281				<0.010	0.010	7182281
pH	pH	7.51		7182307				7.54		7182307
Phenols-4AAP	mg/L	0.0017	0.0010	7182010				0.071	0.0050	7182010
Alkalinity (Total as CaCO3)	mg/L	210	1.0	7182306				130	1.0	7182306
Nitrite (N)	mg/L	<0.010	0.010	7182282				<0.010	0.010	7182282
Dissolved Chloride (Cl-)	mg/L	1200	10	7182305				680	10	7182305
Nitrate (N)	mg/L	<0.10	0.10	7182282				<0.10	0.10	7182282
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182282				<0.10	0.10	7182282
Dissolved Bromide (Br-)	mg/L	<10	10	7182305				<10	10	7182305
Dissolved Sulphate (SO4)	mg/L	1300	10	7182305				1700	10	7182305

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSB101			OSB102			OSB102		
Sampling Date		2021/01/26			2021/01/26			2021/01/26		
COC Number		808571-05-01			808571-05-01			808571-05-01		
	UNITS	56-I	RDL	QC Batch	ST1	RDL	QC Batch	ST1 Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1200	1.0	7171039	260	1.0	7171039			
Inorganics										
Total Ammonia-N	mg/L	1.2	0.050	7182092	32 (1)	0.25	7182092			
Conductivity	umho/cm	2900	1.0	7182457	3100	1.0	7182457			
Total Dissolved Solids	mg/L	1890	10	7182318	1530	10	7182318			
Fluoride (F-)	mg/L	0.43	0.10	7182459	1.3	0.10	7182459			
Total Kjeldahl Nitrogen (TKN)	mg/L	1.5	0.10	7182094	31 (1)	2.0	7182094			
Total Organic Carbon (TOC)	mg/L	3.0	0.40	7182095	8.5	0.40	7182095			
Orthophosphate (P)	mg/L	<0.010	0.010	7182444	<0.010	0.010	7182444			
pH	pH	7.88		7182456	7.91		7182456			
Phenols-4AAP	mg/L	<0.0010	0.0010	7182010	0.0065	0.0050	7182020	0.0088	0.0050	7182020
Alkalinity (Total as CaCO3)	mg/L	250	1.0	7182455	210	1.0	7182455			
Nitrite (N)	mg/L	<0.010	0.010	7182447	<0.010	0.010	7182447			
Dissolved Chloride (Cl-)	mg/L	420	5.0	7182448	630	5.0	7182448			
Nitrate (N)	mg/L	<0.10	0.10	7182447	<0.10	0.10	7182447			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182447	<0.10	0.10	7182447			
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7182448	<5.0	5.0	7182448			
Dissolved Sulphate (SO4)	mg/L	710	5.0	7182448	270	5.0	7182448			

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSB103			OSB104			OSB104		
Sampling Date		2021/01/26			2021/01/26			2021/01/26		
COC Number		808571-05-01			808571-05-01			808571-05-01		
	UNITS	ST2	RDL	QC Batch	3-II	RDL	QC Batch	3-II Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	55	1.0	7171039	1200	1.0	7171039			
Inorganics										
Total Ammonia-N	mg/L	70 (1)	0.25	7182092	1.2	0.050	7182092			
Conductivity	umho/cm	5900	1.0	7182457	2800	1.0	7182457	2800	1.0	7182457
Total Dissolved Solids	mg/L	2760	10	7182318	1880	10	7182318			
Fluoride (F-)	mg/L	2.0	0.10	7182459	0.41	0.10	7182459	0.40	0.10	7182459
Total Kjeldahl Nitrogen (TKN)	mg/L	67 (1)	5.0	7182094	1.4	0.10	7182094			
Total Organic Carbon (TOC)	mg/L	19	0.40	7182095	2.9	0.40	7182095			
Orthophosphate (P)	mg/L	0.013	0.010	7182444	<0.010	0.010	7182444	<0.010	0.010	7182444
pH	pH	9.07		7182456	7.81		7182456	7.77		7182456
Phenols-4AAP	mg/L	0.046	0.0050	7182020	<0.0010	0.0010	7182010			
Alkalinity (Total as CaCO3)	mg/L	180	1.0	7182455	250	1.0	7182455	250	1.0	7182455
Nitrite (N)	mg/L	<0.010	0.010	7182447	<0.010	0.010	7182447	<0.010	0.010	7182447
Dissolved Chloride (Cl-)	mg/L	1600	10	7182448	420	5.0	7182448	420	5.0	7182448
Nitrate (N)	mg/L	<0.10	0.10	7182447	<0.10	0.10	7182447	<0.10	0.10	7182447
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182447	<0.10	0.10	7182447	<0.10	0.10	7182447
Dissolved Bromide (Br-)	mg/L	<10	10	7182448	<5.0	5.0	7182448	<5.0	5.0	7182448
Dissolved Sulphate (SO4)	mg/L	270	10	7182448	710	5.0	7182448	700	5.0	7182448

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSB105			OSB106			OSB106		
Sampling Date		2021/01/26			2021/01/26			2021/01/26		
COC Number		808571-05-01			808571-05-01			808571-05-01		
	UNITS	57-I	RDL	QC Batch	57-II	RDL	QC Batch	57-II Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	220	1.0	7171039	1200	1.0	7171039			
Inorganics										
Total Ammonia-N	mg/L	210 (1)	1.0	7182092	1.0	0.050	7182092			
Conductivity	umho/cm	13000	1.0	7182308	4600	1.0	7182308			
Total Dissolved Solids	mg/L	7380	20	7182318	1070	10	7182318			
Fluoride (F-)	mg/L	3.2	0.10	7182309	0.54	0.10	7182309			
Total Kjeldahl Nitrogen (TKN)	mg/L	200 (1)	5.0	7182094	1.4	0.10	7182094	1.4	0.10	7182094
Total Organic Carbon (TOC)	mg/L	73	0.40	7182095	4.3	0.40	7182095	4.3	0.40	7182095
Orthophosphate (P)	mg/L	0.023	0.010	7182281	<0.010	0.010	7182281			
pH	pH	10.4		7182307	12.2		7182307			
Phenols-4AAP	mg/L	0.94	0.020	7182020	0.018	0.0010	7182010			
Alkalinity (Total as CaCO3)	mg/L	790	1.0	7182306	1100	1.0	7182306			
Nitrite (N)	mg/L	0.010	0.010	7182282	0.020	0.010	7182282			
Dissolved Chloride (Cl-)	mg/L	4000	50	7182305	17	1.0	7182305			
Nitrate (N)	mg/L	<0.10	0.10	7182282	<0.10	0.10	7182282			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182282	<0.10	0.10	7182282			
Dissolved Bromide (Br-)	mg/L	<50	50	7182305	<1.0	1.0	7182305			
Dissolved Sulphate (SO4)	mg/L	270	50	7182305	23	1.0	7182305			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.										



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSB107			OSB108			OSB174		
Sampling Date		2021/01/26			2021/01/26			2021/01/26		
COC Number		808571-05-01			808571-05-01			808571-06-01		
	UNITS	35-III	RDL	QC Batch	35-IV	RDL	QC Batch	P9-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2200	1.0	7171039	2400	1.0	7171039	3800	1.0	7171039
Inorganics										
Total Ammonia-N	mg/L	3.2	0.050	7182092	96 (1)	0.50	7182092	12	0.050	7182123
Conductivity	umho/cm	5100	1.0	7182457	16000	1.0	7182308	13000	1.0	7182308
Total Dissolved Solids	mg/L	3450	10	7182318	10900	20	7182318	8970	20	7182318
Fluoride (F-)	mg/L	0.35	0.10	7182459	3.6	0.10	7182309	0.94	0.10	7182309
Total Kjeldahl Nitrogen (TKN)	mg/L	3.7	0.10	7182094	94 (1)	5.0	7182094	12	1.0	7182126
Total Organic Carbon (TOC)	mg/L	5.9	0.40	7182095	28	0.40	7182095	3.2	0.40	7182127
Orthophosphate (P)	mg/L	0.25	0.010	7182444	<0.50 (2)	0.50	7182281	0.039	0.010	7182281
pH	pH	7.79		7182456	8.56		7182307	8.03		7182307
Phenols-4AAP	mg/L	0.0011	0.0010	7182010	0.43	0.020	7182010	0.0013	0.0010	7182010
Alkalinity (Total as CaCO3)	mg/L	220	1.0	7182455	91	1.0	7182306	260	1.0	7182306
Nitrite (N)	mg/L	<0.010	0.010	7182447	<0.010	0.010	7182282	<0.010	0.010	7182282
Dissolved Chloride (Cl-)	mg/L	940	10	7182448	4200	50	7182305	3400	50	7182305
Nitrate (N)	mg/L	<0.10	0.10	7182447	<0.10	0.10	7182282	<0.10	0.10	7182282
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182447	<0.10	0.10	7182282	<0.10	0.10	7182282
Dissolved Bromide (Br-)	mg/L	<10	10	7182448	<50	50	7182305	<50	50	7182305
Dissolved Sulphate (SO4)	mg/L	1300	10	7182448	2100	50	7182305	1600	50	7182305

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.
 (2) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSB175		OSB176			OSB177		
Sampling Date		2021/01/26		2021/01/26			2021/01/26		
COC Number		808571-06-01		808571-06-01			808571-06-01		
	UNITS	P9-II	QC Batch	P9-IIIR	RDL	QC Batch	36-IR	RDL	QC Batch

Calculated Parameters									
Hardness (CaCO3)	mg/L	800	7171039	1100	1.0	7171039	2200	1.0	7171039
Inorganics									
Total Ammonia-N	mg/L	0.12	7182092	2.3	0.050	7182092	9.1 (1)	0.050	7182123
Conductivity	umho/cm	2400	7182308	3400	1.0	7182457	6200	1.0	7182457
Total Dissolved Solids	mg/L	1580	7182318	2320	10	7182318	4650	20	7182318
Fluoride (F-)	mg/L	0.83	7182309	1.0	0.10	7182459	0.99	0.10	7182459
Total Kjeldahl Nitrogen (TKN)	mg/L	0.18	7182094	2.4	0.10	7182094	9.1 (1)	1.0	7182126
Total Organic Carbon (TOC)	mg/L	2.9	7182095	2.6	0.40	7182095	2.6	0.40	7182127
Orthophosphate (P)	mg/L	0.015	7182281	<0.010	0.010	7182444	<0.50 (2)	0.50	7182444
pH	pH	7.91	7182307	7.88		7182456	7.66		7182456
Phenols-4AAP	mg/L	<0.0010	7182020	<0.0010	0.0010	7182010	<0.0010	0.0010	7182020
Alkalinity (Total as CaCO3)	mg/L	190	7182306	190	1.0	7182455	230	1.0	7182455
Nitrite (N)	mg/L	<0.010	7182282	<0.010	0.010	7182447	<0.010	0.010	7182447
Dissolved Chloride (Cl-)	mg/L	370	7182305	500	5.0	7182448	1000	20	7182448
Nitrate (N)	mg/L	1.38	7182282	<0.10	0.10	7182447	<0.10	0.10	7182447
Nitrate + Nitrite (N)	mg/L	1.38	7182282	<0.10	0.10	7182447	<0.10	0.10	7182447
Dissolved Bromide (Br-)	mg/L	<5.0	7182305	<5.0	5.0	7182448	<20	20	7182448
Dissolved Sulphate (SO4)	mg/L	510	7182305	940	5.0	7182448	1700	20	7182448

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.
 (2) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSB178			OSB178			OSB179		
Sampling Date		2021/01/26			2021/01/26			2021/01/26		
COC Number		808571-06-01			808571-06-01			808571-06-01		
	UNITS	36-IIR	RDL	QC Batch	36-IIR Lab-Dup	RDL	QC Batch	36-IVR	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	5900	1.0	7171039				980	1.0	7171039
Inorganics										
Total Ammonia-N	mg/L	8.3	0.050	7182123				<0.050	0.050	7182092
Conductivity	umho/cm	21000	1.0	7182308				1700	1.0	7182457
Total Dissolved Solids	mg/L	13500	20	7182318				1250	10	7182318
Fluoride (F-)	mg/L	0.61	0.10	7182309				1.3	0.10	7182459
Total Kjeldahl Nitrogen (TKN)	mg/L	8.3	1.0	7182126				0.14	0.10	7182094
Total Organic Carbon (TOC)	mg/L	2.4	0.40	7182127				2.2	0.40	7182095
Orthophosphate (P)	mg/L	<0.50 (1)	0.50	7182281				<0.010	0.010	7182444
pH	pH	7.39		7182307				8.06		7182456
Phenols-4AAP	mg/L	<0.0010	0.0010	7182010	<0.0010	0.0010	7182010	<0.0010	0.0010	7182010
Alkalinity (Total as CaCO3)	mg/L	280	1.0	7182306				270	1.0	7182455
Nitrite (N)	mg/L	<0.010	0.010	7182282				<0.010	0.010	7182447
Dissolved Chloride (Cl-)	mg/L	6400	50	7182305				62	5.0	7182448
Nitrate (N)	mg/L	<0.10	0.10	7182282				0.24	0.10	7182447
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182282				0.24	0.10	7182447
Dissolved Bromide (Br-)	mg/L	72	50	7182305				<5.0	5.0	7182448
Dissolved Sulphate (SO4)	mg/L	1600	50	7182305				620	5.0	7182448

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



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BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSB180			OSB181			OSB182		
Sampling Date		2021/01/26			2021/01/26			2021/01/26		
COC Number		808571-06-01			808571-06-01			808571-06-01		
	UNITS	36-VR	RDL	QC Batch	P14	RDL	QC Batch	P8-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	630	1.0	7171039	24	1.0	7171039	730	1.0	7171039
Inorganics										
Total Ammonia-N	mg/L	69 (1)	0.25	7182092	48 (1)	0.25	7182123	0.083	0.050	7182092
Conductivity	umho/cm	7000	1.0	7182457	2600	1.0	7182457	1700	1.0	7182457
Total Dissolved Solids	mg/L	3900	20	7182318	1690	10	7182318	1050	10	7182318
Fluoride (F-)	mg/L	2.9	0.10	7182459	2.1	0.10	7182459	1.1	0.10	7182459
Total Kjeldahl Nitrogen (TKN)	mg/L	64 (1)	5.0	7182094	47 (1)	2.0	7182126	<0.20 (2)	0.20	7182094
Total Organic Carbon (TOC)	mg/L	19	0.40	7182095	32	0.40	7182127	3.0	0.40	7182095
Orthophosphate (P)	mg/L	<0.010	0.010	7182444	0.011	0.010	7182444	0.015	0.010	7182444
pH	pH	9.09		7182456	8.82		7182456	8.01		7182456
Phenols-4AAP	mg/L	0.30	0.010	7182010	0.49	0.020	7182010	<0.0010	0.0010	7182010
Alkalinity (Total as CaCO3)	mg/L	110	1.0	7182455	190	1.0	7182455	250	1.0	7182455
Nitrite (N)	mg/L	<0.010	0.010	7182447	<0.010	0.010	7182447	<0.010	0.010	7182447
Dissolved Chloride (Cl-)	mg/L	1800	20	7182448	530	5.0	7182448	140	5.0	7182448
Nitrate (N)	mg/L	<0.10	0.10	7182447	<0.10	0.10	7182447	5.30	0.10	7182447
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182447	<0.10	0.10	7182447	5.30	0.10	7182447
Dissolved Bromide (Br-)	mg/L	<20	20	7182448	<5.0	5.0	7182448	<5.0	5.0	7182448
Dissolved Sulphate (SO4)	mg/L	590	20	7182448	220	5.0	7182448	430	5.0	7182448

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.
 (2) Due to a high concentration of NOx, the sample required dilution. The detection limit was adjusted accordingly.



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VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSB183			OSB192	OSB193		
Sampling Date		2021/01/26			2021/01/26	2021/01/26		
COC Number		808571-06-01			808571-07-01	808571-07-01		
	UNITS	2-II	RDL	QC Batch	P1-I	P1-II	RDL	QC Batch
Calculated Parameters								
Hardness (CaCO3)	mg/L	770	1.0	7171039	2100	1700	1.0	7171039
Inorganics								
Total Ammonia-N	mg/L	0.12	0.050	7182092	38 (1)	34	0.25	7182092
Conductivity	umho/cm	2300	1.0	7182457	6700	6600	1.0	7182308
Total Dissolved Solids	mg/L	1590	10	7182318	4570	4490	20	7182333
Fluoride (F-)	mg/L	0.82	0.10	7182459	0.99	1.0	0.10	7182309
Total Kjeldahl Nitrogen (TKN)	mg/L	0.29	0.10	7182094	37 (1)	37	2.0	7182094
Total Organic Carbon (TOC)	mg/L	2.8	0.40	7182095	8.8	8.9	0.40	7182095
Orthophosphate (P)	mg/L	0.014	0.010	7182444	0.011	<0.010	0.010	7182281
pH	pH	8.00		7182456	7.56	7.54		7182307
Phenols-4AAP	mg/L	<0.0010	0.0010	7182010	<0.0010	<0.0010	0.0010	7182010
Alkalinity (Total as CaCO3)	mg/L	190	1.0	7182455	170	160	1.0	7182306
Nitrite (N)	mg/L	<0.010	0.010	7182447	<0.010	<0.010	0.010	7182282
Dissolved Chloride (Cl-)	mg/L	340	5.0	7182448	1300	1300	20	7182305
Nitrate (N)	mg/L	1.32	0.10	7182447	<0.10	<0.10	0.10	7182282
Nitrate + Nitrite (N)	mg/L	1.32	0.10	7182447	<0.10	<0.10	0.10	7182282
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7182448	<20	<20	20	7182305
Dissolved Sulphate (SO4)	mg/L	470	5.0	7182448	1500	1400	20	7182305
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.								



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VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSB193			OSB194			OSB195		
Sampling Date		2021/01/26			2021/01/26			2021/01/26		
COC Number		808571-07-01			808571-07-01			808571-07-01		
	UNITS	P1-II Lab-Dup	RDL	QC Batch	P1-III	RDL	QC Batch	4-III	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				630	1.0	7171039	97	1.0	7171039
Inorganics										
Total Ammonia-N	mg/L	38	0.25	7182092	0.46	0.050	7182092	17	0.050	7182123
Conductivity	umho/cm				1300	1.0	7182457	1900	1.0	7182457
Total Dissolved Solids	mg/L				925	10	7182333	1220	10	7182333
Fluoride (F-)	mg/L				1.1	0.10	7182459	1.6	0.10	7182459
Total Kjeldahl Nitrogen (TKN)	mg/L				0.85	0.10	7182094	18	1.0	7182126
Total Organic Carbon (TOC)	mg/L				5.3	0.40	7182095	37	0.40	7182127
Orthophosphate (P)	mg/L				0.023	0.010	7182444	0.014	0.010	7182444
pH	pH				8.00		7182456	9.75		7182456
Phenols-4AAP	mg/L				<0.0010	0.0010	7182010	0.66	0.020	7182020
Alkalinity (Total as CaCO3)	mg/L				260	1.0	7182455	100	1.0	7182455
Nitrite (N)	mg/L				<0.010	0.010	7182447	<0.010	0.010	7182447
Dissolved Chloride (Cl-)	mg/L				40	1.0	7182448	270	5.0	7182448
Nitrate (N)	mg/L				0.73	0.10	7182447	<0.10	0.10	7182447
Nitrate + Nitrite (N)	mg/L				0.73	0.10	7182447	<0.10	0.10	7182447
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	7182448	<5.0	5.0	7182448
Dissolved Sulphate (SO4)	mg/L				360	1.0	7182448	350	5.0	7182448

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSB195			OSB196			OSB197		
Sampling Date		2021/01/26			2021/01/26			2021/01/26		
COC Number		808571-07-01			808571-07-01			808571-07-01		
	UNITS	4-III Lab-Dup	RDL	QC Batch	P11-I	RDL	QC Batch	P11-III	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				2200	1.0	7171039	92	1.0	7173346
Inorganics										
Total Ammonia-N	mg/L				41 (1)	0.25	7182123	17	0.050	7182092
Conductivity	umho/cm				8200	1.0	7182457	1900	1.0	7182457
Total Dissolved Solids	mg/L				5690	20	7182333	1180	10	7182333
Fluoride (F-)	mg/L				0.99	0.10	7182459	1.6	0.10	7182459
Total Kjeldahl Nitrogen (TKN)	mg/L	19	1.0	7182126	38 (1)	2.0	7182126	18	1.0	7182094
Total Organic Carbon (TOC)	mg/L				6.7	0.40	7182127	39	0.40	7182095
Orthophosphate (P)	mg/L				<0.010	0.010	7182444	0.010	0.010	7182444
pH	pH				7.65		7182456	9.77		7182456
Phenols-4AAP	mg/L				<0.0010	0.0010	7182010	0.64	0.020	7182010
Alkalinity (Total as CaCO3)	mg/L				130	1.0	7182455	94	1.0	7182455
Nitrite (N)	mg/L				<0.010	0.010	7182447	<0.010	0.010	7182447
Dissolved Chloride (Cl-)	mg/L				1600	20	7182448	270	5.0	7182448
Nitrate (N)	mg/L				<0.10	0.10	7182447	<0.10	0.10	7182447
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7182447	<0.10	0.10	7182447
Dissolved Bromide (Br-)	mg/L				<20	20	7182448	<5.0	5.0	7182448
Dissolved Sulphate (SO4)	mg/L				1800	20	7182448	360	5.0	7182448

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.



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VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSB099	OSB100		OSB101		OSB102		OSB103		
Sampling Date		2021/01/26	2021/01/26		2021/01/26		2021/01/26		2021/01/26		
COC Number		808571-05-01	808571-05-01		808571-05-01		808571-05-01		808571-05-01		
	UNITS	42-III	42-II	RDL	56-I	RDL	ST1	RDL	ST2	RDL	QC Batch

Metals											
Dissolved Aluminum (Al)	ug/L	<25	<25	25	6.9	4.9	8.0	4.9	11	4.9	7182014
Dissolved Antimony (Sb)	ug/L	<2.5	<2.5	2.5	<0.50	0.50	<0.50	0.50	<0.50	0.50	7182014
Dissolved Arsenic (As)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	1.4	1.0	7182014
Dissolved Barium (Ba)	ug/L	57	12	10	36	2.0	17	2.0	14	2.0	7182014
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	2.0	<0.40	0.40	<0.40	0.40	<0.40	0.40	7182014
Dissolved Bismuth (Bi)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7182014
Dissolved Boron (B)	ug/L	970	1300	50	390	10	360	10	440	10	7182014
Dissolved Cadmium (Cd)	ug/L	<0.45	<0.45	0.45	<0.090	0.090	<0.090	0.090	<0.090	0.090	7182014
Dissolved Calcium (Ca)	ug/L	630000	570000	1000	300000	400	57000	200	9500	200	7182014
Dissolved Chromium (Cr)	ug/L	<25	<25	25	<5.0	5.0	<5.0	5.0	<5.0	5.0	7182014
Dissolved Cobalt (Co)	ug/L	<2.5	<2.5	2.5	<0.50	0.50	<0.50	0.50	<0.50	0.50	7182014
Dissolved Copper (Cu)	ug/L	<4.5	<4.5	4.5	<0.90	0.90	<0.90	0.90	<0.90	0.90	7182014
Dissolved Iron (Fe)	ug/L	<500	<500	500	740	100	<100	100	<100	100	7182014
Dissolved Lead (Pb)	ug/L	<2.5	<2.5	2.5	<0.50	0.50	<0.50	0.50	<0.50	0.50	7182014
Dissolved Lithium (Li)	ug/L	63	99	25	73	5.0	30	5.0	27	5.0	7182014
Dissolved Magnesium (Mg)	ug/L	150000	130000	250	120000	50	28000	50	7500	50	7182014
Dissolved Manganese (Mn)	ug/L	150	140	10	73	2.0	5.9	2.0	<2.0	2.0	7182014
Dissolved Molybdenum (Mo)	ug/L	<2.5	4.4	2.5	<0.50	0.50	2.2	0.50	17	0.50	7182014
Dissolved Nickel (Ni)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	2.4	1.0	7.3	1.0	7182014
Dissolved Phosphorus (P)	ug/L	<500	<500	500	<100	100	<100	100	110	100	7182014
Dissolved Potassium (K)	ug/L	64000	39000	1000	15000	200	31000	200	71000	200	7182014
Dissolved Selenium (Se)	ug/L	<10	<10	10	<2.0	2.0	<2.0	2.0	<2.0	2.0	7182014
Dissolved Silicon (Si)	ug/L	5300	20000	250	3800	50	6100	50	4700	50	7182014
Dissolved Silver (Ag)	ug/L	<0.45	<0.45	0.45	<0.090	0.090	<0.090	0.090	<0.090	0.090	7182014
Dissolved Sodium (Na)	ug/L	500000	390000	500	190000	100	490000	100	1000000	500	7182014
Dissolved Strontium (Sr)	ug/L	13000	13000	5.0	6200	1.0	1800	1.0	990	1.0	7182014
Dissolved Tellurium (Te)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7182014
Dissolved Thallium (Tl)	ug/L	<0.25	<0.25	0.25	<0.050	0.050	<0.050	0.050	<0.050	0.050	7182014
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7182014
Dissolved Titanium (Ti)	ug/L	<25	<25	25	<5.0	5.0	<5.0	5.0	<5.0	5.0	7182014
Dissolved Tungsten (W)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	5.2	1.0	9.9	1.0	7182014
Dissolved Uranium (U)	ug/L	<0.50	<0.50	0.50	<0.10	0.10	<0.10	0.10	<0.10	0.10	7182014
Dissolved Vanadium (V)	ug/L	<2.5	<2.5	2.5	<0.50	0.50	<0.50	0.50	1.1	0.50	7182014
Dissolved Zinc (Zn)	ug/L	<25	<25	25	<5.0	5.0	<5.0	5.0	<5.0	5.0	7182014
Dissolved Zirconium (Zr)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7182014

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSB104	OSB105		OSB106		OSB107	OSB108		
Sampling Date		2021/01/26	2021/01/26		2021/01/26		2021/01/26	2021/01/26		
COC Number		808571-05-01	808571-05-01		808571-05-01		808571-05-01	808571-05-01		
	UNITS	3-II	57-I	RDL	57-II	RDL	35-III	35-IV	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<25	3400	25	140	4.9	<25	<25	25	7182006
Dissolved Antimony (Sb)	ug/L	<2.5	<2.5	2.5	<0.50	0.50	<2.5	<2.5	2.5	7182006
Dissolved Arsenic (As)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.5	5.0	7182006
Dissolved Barium (Ba)	ug/L	38	22	10	130	2.0	110	15	10	7182006
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	2.0	<0.40	0.40	<2.0	<2.0	2.0	7182006
Dissolved Bismuth (Bi)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<5.0	<5.0	5.0	7182006
Dissolved Boron (B)	ug/L	360	480	50	34	10	430	1800	50	7182006
Dissolved Cadmium (Cd)	ug/L	<0.45	<0.45	0.45	<0.090	0.090	<0.45	<0.45	0.45	7182006
Dissolved Calcium (Ca)	ug/L	300000	84000	1000	470000	200	780000	890000	1000	7182006
Dissolved Chromium (Cr)	ug/L	<25	<25	25	<5.0	5.0	<25	<25	25	7182006
Dissolved Cobalt (Co)	ug/L	<2.5	<2.5	2.5	<0.50	0.50	<2.5	<2.5	2.5	7182006
Dissolved Copper (Cu)	ug/L	<4.5	<4.5	4.5	11	0.90	<4.5	<4.5	4.5	7182006
Dissolved Iron (Fe)	ug/L	790	<500	500	<100	100	1200	<500	500	7182006
Dissolved Lead (Pb)	ug/L	<2.5	<2.5	2.5	6.8	0.50	<2.5	<2.5	2.5	7182006
Dissolved Lithium (Li)	ug/L	69	30	25	12	5.0	300	350	25	7182006
Dissolved Magnesium (Mg)	ug/L	120000	1700	250	<50	50	72000	40000	250	7182006
Dissolved Manganese (Mn)	ug/L	74	<10	10	<2.0	2.0	110	23	10	7182006
Dissolved Molybdenum (Mo)	ug/L	<2.5	91	2.5	21	0.50	<2.5	42	2.5	7182006
Dissolved Nickel (Ni)	ug/L	<5.0	31	5.0	2.1	1.0	<5.0	14	5.0	7182006
Dissolved Phosphorus (P)	ug/L	<500	740	500	<100	100	<500	<500	500	7182006
Dissolved Potassium (K)	ug/L	15000	190000	1000	14000	200	21000	120000	1000	7182006
Dissolved Selenium (Se)	ug/L	<10	<10	10	<2.0	2.0	<10	<10	10	7182006
Dissolved Silicon (Si)	ug/L	4200	8900	250	710	50	4900	3600	250	7182006
Dissolved Silver (Ag)	ug/L	<0.45	<0.45	0.45	<0.090	0.090	<0.45	<0.45	0.45	7182006
Dissolved Sodium (Na)	ug/L	190000	2800000	500	16000	100	360000	2800000	500	7182006
Dissolved Strontium (Sr)	ug/L	5900	1500	5.0	490	1.0	4900	8000	5.0	7182006
Dissolved Tellurium (Te)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<5.0	<5.0	5.0	7182006
Dissolved Thallium (Tl)	ug/L	<0.25	<0.25	0.25	<0.050	0.050	<0.25	<0.25	0.25	7182006
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<5.0	<5.0	5.0	7182006
Dissolved Titanium (Ti)	ug/L	<25	<25	25	<5.0	5.0	<25	<25	25	7182006
Dissolved Tungsten (W)	ug/L	<5.0	23	5.0	1.7	1.0	<5.0	12	5.0	7182006
Dissolved Uranium (U)	ug/L	<0.50	<0.50	0.50	<0.10	0.10	<0.50	<0.50	0.50	7182006
Dissolved Vanadium (V)	ug/L	<2.5	<2.5	2.5	3.7	0.50	<2.5	<2.5	2.5	7182006
Dissolved Zinc (Zn)	ug/L	<25	<25	25	<5.0	5.0	<25	<25	25	7182006
Dissolved Zirconium (Zr)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<5.0	<5.0	5.0	7182006
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSB174		OSB175	OSB176	OSB177		OSB178		
Sampling Date		2021/01/26		2021/01/26	2021/01/26	2021/01/26		2021/01/26		
COC Number		808571-06-01		808571-06-01	808571-06-01	808571-06-01		808571-06-01		
	UNITS	P9-I	RDL	P9-II	P9-IIIR	36-IR	RDL	36-IIR	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<25	25	<25	<25	<25	25	<25	25	7182006
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	<2.5	<2.5	<2.5	2.5	<2.5	2.5	7182006
Dissolved Arsenic (As)	ug/L	<5.0	5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7182006
Dissolved Barium (Ba)	ug/L	23	10	32	<10	21	10	28	10	7182006
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	<2.0	<2.0	<2.0	2.0	<2.0	2.0	7182006
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7182006
Dissolved Boron (B)	ug/L	8000	50	97	1100	2800	50	5400	50	7182006
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	<0.45	<0.45	<0.45	0.45	<0.45	0.45	7182006
Dissolved Calcium (Ca)	ug/L	1100000	1000	240000	360000	710000	1000	1700000	2000	7182006
Dissolved Chromium (Cr)	ug/L	<25	25	<25	<25	<25	25	<25	25	7182006
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	<2.5	<2.5	<2.5	2.5	<2.5	2.5	7182006
Dissolved Copper (Cu)	ug/L	<4.5	4.5	<4.5	<4.5	<4.5	4.5	<4.5	4.5	7182006
Dissolved Iron (Fe)	ug/L	<500	500	<500	<500	<500	500	<500	500	7182006
Dissolved Lead (Pb)	ug/L	<2.5	2.5	<2.5	<2.5	<2.5	2.5	<2.5	2.5	7182006
Dissolved Lithium (Li)	ug/L	2700	50	<25	95	600	25	2700	50	7182006
Dissolved Magnesium (Mg)	ug/L	280000	250	49000	61000	110000	250	420000	250	7182006
Dissolved Manganese (Mn)	ug/L	54	10	10	40	64	10	100	10	7182006
Dissolved Molybdenum (Mo)	ug/L	<2.5	2.5	6.0	<2.5	<2.5	2.5	<2.5	2.5	7182006
Dissolved Nickel (Ni)	ug/L	<5.0	5.0	12	<5.0	<5.0	5.0	<5.0	5.0	7182006
Dissolved Phosphorus (P)	ug/L	<500	500	<500	<500	<500	500	<500	500	7182006
Dissolved Potassium (K)	ug/L	62000	1000	5100	22000	37000	1000	66000	1000	7182006
Dissolved Selenium (Se)	ug/L	<10	10	<10	<10	<10	10	<10	10	7182006
Dissolved Silicon (Si)	ug/L	7700	250	3500	3600	4400	250	5200	250	7182006
Dissolved Silver (Ag)	ug/L	<0.45	0.45	<0.45	<0.45	<0.45	0.45	<0.45	0.45	7182006
Dissolved Sodium (Na)	ug/L	1700000	500	250000	360000	650000	500	2700000	500	7182006
Dissolved Strontium (Sr)	ug/L	16000	5.0	2000	3900	7500	5.0	30000	5.0	7182006
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7182006
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	<0.25	<0.25	<0.25	0.25	<0.25	0.25	7182006
Dissolved Tin (Sn)	ug/L	<5.0	5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7182006
Dissolved Titanium (Ti)	ug/L	<25	25	<25	<25	<25	25	<25	25	7182006
Dissolved Tungsten (W)	ug/L	<5.0	5.0	<5.0	<5.0	<5.0	5.0	12	5.0	7182006
Dissolved Uranium (U)	ug/L	<0.50	0.50	8.8	3.4	0.69	0.50	<0.50	0.50	7182006
Dissolved Vanadium (V)	ug/L	<2.5	2.5	<2.5	<2.5	<2.5	2.5	<2.5	2.5	7182006
Dissolved Zinc (Zn)	ug/L	<25	25	<25	<25	<25	25	<25	25	7182006
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7182006
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSB179		OSB180	OSB180	OSB181		OSB182		
Sampling Date		2021/01/26		2021/01/26	2021/01/26	2021/01/26		2021/01/26		
COC Number		808571-06-01		808571-06-01	808571-06-01	808571-06-01		808571-06-01		
	UNITS	36-IVR	RDL	36-VR	36-VR Lab-Dup	P14	RDL	P8-II	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	150	4.9	540	570	<25	25	<4.9	4.9	7182006
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<2.5	<2.5	<2.5	2.5	<0.50	0.50	7182006
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<5.0	<5.0	<5.0	5.0	<1.0	1.0	7182006
Dissolved Barium (Ba)	ug/L	20	2.0	25	25	<10	10	25	2.0	7182006
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<2.0	<2.0	<2.0	2.0	<0.40	0.40	7182006
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<5.0	<5.0	<5.0	5.0	<1.0	1.0	7182006
Dissolved Boron (B)	ug/L	69	10	540	560	370	50	110	10	7182006
Dissolved Cadmium (Cd)	ug/L	0.13	0.090	<0.45	<0.45	<0.45	0.45	<0.090	0.090	7182006
Dissolved Calcium (Ca)	ug/L	240000	200	200000	200000	6400	1000	170000	200	7182006
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<25	<25	<25	25	<5.0	5.0	7182006
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<2.5	<2.5	<2.5	2.5	<0.50	0.50	7182006
Dissolved Copper (Cu)	ug/L	2.6	0.90	<4.5	<4.5	<4.5	4.5	1.1	0.90	7182006
Dissolved Iron (Fe)	ug/L	370	100	<500	<500	<500	500	<100	100	7182006
Dissolved Lead (Pb)	ug/L	5.6	0.50	<2.5	<2.5	<2.5	2.5	<0.50	0.50	7182006
Dissolved Lithium (Li)	ug/L	40	5.0	47	48	<25	25	28	5.0	7182006
Dissolved Magnesium (Mg)	ug/L	92000	50	35000	35000	1800	250	72000	50	7182006
Dissolved Manganese (Mn)	ug/L	44	2.0	<10	<10	<10	10	27	2.0	7182006
Dissolved Molybdenum (Mo)	ug/L	11	0.50	16	15	16	2.5	7.4	0.50	7182006
Dissolved Nickel (Ni)	ug/L	24	1.0	7.9	9.4	9.2	5.0	10	1.0	7182006
Dissolved Phosphorus (P)	ug/L	100	100	<500	<500	<500	500	<100	100	7182006
Dissolved Potassium (K)	ug/L	4100	200	51000	52000	49000	1000	3500	200	7182006
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<10	<10	<10	10	<2.0	2.0	7182006
Dissolved Silicon (Si)	ug/L	5300	50	5700	5600	5700	250	4800	50	7182006
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.45	<0.45	<0.45	0.45	<0.090	0.090	7182006
Dissolved Sodium (Na)	ug/L	70000	100	1200000	1200000	680000	500	78000	100	7182006
Dissolved Strontium (Sr)	ug/L	2000	1.0	2500	2600	220	5.0	1500	1.0	7182006
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<5.0	<5.0	<5.0	5.0	<1.0	1.0	7182006
Dissolved Thallium (Tl)	ug/L	0.15	0.050	<0.25	<0.25	<0.25	0.25	0.14	0.050	7182006
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<5.0	<5.0	<5.0	5.0	<1.0	1.0	7182006
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<25	<25	<25	25	<5.0	5.0	7182006
Dissolved Tungsten (W)	ug/L	35	1.0	8.6	8.3	14	5.0	<1.0	1.0	7182006
Dissolved Uranium (U)	ug/L	24	0.10	5.7	5.6	<0.50	0.50	9.0	0.10	7182006
Dissolved Vanadium (V)	ug/L	0.63	0.50	<2.5	<2.5	<2.5	2.5	1.0	0.50	7182006
Dissolved Zinc (Zn)	ug/L	210	5.0	<25	<25	<25	25	320	5.0	7182006
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<5.0	<5.0	<5.0	5.0	<1.0	1.0	7182006
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSB183		OSB192	OSB193		OSB194		OSB195		
Sampling Date		2021/01/26		2021/01/26	2021/01/26		2021/01/26		2021/01/26		
COC Number		808571-06-01		808571-07-01	808571-07-01		808571-07-01		808571-07-01		
	UNITS	2-II	RDL	P1-I	P1-II	RDL	P1-III	RDL	4-III	RDL	QC Batch

Metals											
Dissolved Aluminum (Al)	ug/L	4.9	4.9	36	31	25	5.8	4.9	91	25	7182006
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<2.5	<2.5	2.5	0.51	0.50	<2.5	2.5	7182006
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7182006
Dissolved Barium (Ba)	ug/L	29	2.0	24	26	10	39	2.0	17	10	7182006
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<2.0	<2.0	2.0	<0.40	0.40	<2.0	2.0	7182006
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7182006
Dissolved Boron (B)	ug/L	88	10	990	960	50	510	10	180	50	7182006
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.45	<0.45	0.45	<0.090	0.090	<0.45	0.45	7182006
Dissolved Calcium (Ca)	ug/L	230000	200	720000	550000	1000	140000	200	39000	1000	7182006
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<25	<25	25	<5.0	5.0	<25	25	7182006
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<2.5	<2.5	2.5	<0.50	0.50	<2.5	2.5	7182006
Dissolved Copper (Cu)	ug/L	1.3	0.90	<4.5	<4.5	4.5	1.1	0.90	<4.5	4.5	7182006
Dissolved Iron (Fe)	ug/L	<100	100	<500	<500	500	<100	100	<500	500	7182006
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<2.5	<2.5	2.5	<0.50	0.50	<2.5	2.5	7182006
Dissolved Lithium (Li)	ug/L	19	5.0	150	140	25	34	5.0	<25	25	7182006
Dissolved Magnesium (Mg)	ug/L	46000	50	71000	70000	250	71000	50	<250	250	7182006
Dissolved Manganese (Mn)	ug/L	9.1	2.0	39	42	10	66	2.0	<10	10	7182006
Dissolved Molybdenum (Mo)	ug/L	5.9	0.50	<2.5	<2.5	2.5	5.1	0.50	33	2.5	7182006
Dissolved Nickel (Ni)	ug/L	11	1.0	<5.0	<5.0	5.0	1.7	1.0	6.6	5.0	7182006
Dissolved Phosphorus (P)	ug/L	<100	100	<500	<500	500	<100	100	<500	500	7182006
Dissolved Potassium (K)	ug/L	4700	200	56000	56000	1000	8400	200	65000	1000	7182006
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<10	<10	10	16	2.0	<10	10	7182006
Dissolved Silicon (Si)	ug/L	3300	50	7300	6200	250	11000	50	13000	250	7182006
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.45	<0.45	0.45	<0.090	0.090	<0.45	0.45	7182006
Dissolved Sodium (Na)	ug/L	230000	100	780000	790000	500	43000	100	310000	500	7182006
Dissolved Strontium (Sr)	ug/L	2000	1.0	7100	7300	5.0	1100	1.0	830	5.0	7182006
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7182006
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.25	<0.25	0.25	<0.050	0.050	<0.25	0.25	7182006
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7182006
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<25	<25	25	<5.0	5.0	<25	25	7182006
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<5.0	<5.0	5.0	<1.0	1.0	9.1	5.0	7182006
Dissolved Uranium (U)	ug/L	8.3	0.10	<0.50	<0.50	0.50	3.7	0.10	<0.50	0.50	7182006
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<2.5	<2.5	2.5	1.4	0.50	<2.5	2.5	7182006
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<25	<25	25	69	5.0	<25	25	7182006
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7182006

RDL = Reportable Detection Limit
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BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSB196			OSB197	OSB197		
Sampling Date		2021/01/26			2021/01/26	2021/01/26		
COC Number		808571-07-01			808571-07-01	808571-07-01		
	UNITS	P11-I	RDL	QC Batch	P11-III	P11-III Lab-Dup	RDL	QC Batch
Metals								
Dissolved Aluminum (Al)	ug/L	<25	25	7182006	<4.9	<4.9	4.9	7182873
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	7182006	0.55	<0.50	0.50	7182873
Dissolved Arsenic (As)	ug/L	<5.0	5.0	7182006	2.7	2.6	1.0	7182873
Dissolved Barium (Ba)	ug/L	23	10	7182006	16	17	2.0	7182873
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	7182006	<0.40	<0.40	0.40	7182873
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	7182006	<1.0	<1.0	1.0	7182873
Dissolved Boron (B)	ug/L	1200	50	7182006	170	170	10	7182873
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	7182006	<0.090	<0.090	0.090	7182873
Dissolved Calcium (Ca)	ug/L	730000	1000	7182006	37000	37000	200	7182873
Dissolved Chromium (Cr)	ug/L	<25	25	7182006	<5.0	<5.0	5.0	7182873
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	7182006	<0.50	<0.50	0.50	7182873
Dissolved Copper (Cu)	ug/L	<4.5	4.5	7182006	<0.90	<0.90	0.90	7182873
Dissolved Iron (Fe)	ug/L	<500	500	7182006	<100	<100	100	7182873
Dissolved Lead (Pb)	ug/L	<2.5	2.5	7182006	<0.50	<0.50	0.50	7182873
Dissolved Lithium (Li)	ug/L	270	25	7182006	20	20	5.0	7182873
Dissolved Magnesium (Mg)	ug/L	95000	250	7182006	190	200	50	7182873
Dissolved Manganese (Mn)	ug/L	69	10	7182006	<2.0	<2.0	2.0	7182873
Dissolved Molybdenum (Mo)	ug/L	<2.5	2.5	7182006	39	37	0.50	7182873
Dissolved Nickel (Ni)	ug/L	<5.0	5.0	7182006	6.5	6.2	1.0	7182873
Dissolved Phosphorus (P)	ug/L	<500	500	7182006	<100	<100	100	7182873
Dissolved Potassium (K)	ug/L	67000	1000	7182006	63000	62000	200	7182873
Dissolved Selenium (Se)	ug/L	<10	10	7182006	<2.0	<2.0	2.0	7182873
Dissolved Silicon (Si)	ug/L	4800	250	7182006	13000	13000	50	7182873
Dissolved Silver (Ag)	ug/L	<0.45	0.45	7182006	<0.090	<0.090	0.090	7182873
Dissolved Sodium (Na)	ug/L	1000000	500	7182006	300000	290000	100	7182873
Dissolved Strontium (Sr)	ug/L	8900	5.0	7182006	880	870	1.0	7182873
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	7182006	<1.0	<1.0	1.0	7182873
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	7182006	<0.050	<0.050	0.050	7182873
Dissolved Tin (Sn)	ug/L	<5.0	5.0	7182006	<1.0	<1.0	1.0	7182873
Dissolved Titanium (Ti)	ug/L	<25	25	7182006	<5.0	<5.0	5.0	7182873
Dissolved Tungsten (W)	ug/L	<5.0	5.0	7182006	9.4	9.5	1.0	7182873
Dissolved Uranium (U)	ug/L	<0.50	0.50	7182006	<0.10	<0.10	0.10	7182873
Dissolved Vanadium (V)	ug/L	<2.5	2.5	7182006	0.54	0.53	0.50	7182873
Dissolved Zinc (Zn)	ug/L	<25	25	7182006	<5.0	<5.0	5.0	7182873
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	7182006	<1.0	<1.0	1.0	7182873
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate								



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB099
Sample ID: 42-III
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/04	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/03	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB099 Dup
Sample ID: 42-III
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai

BV Labs ID: OSB100
Sample ID: 42-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/04	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB101
Sample ID: 56-I
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/04	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB102
Sample ID: ST1
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/04	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB102 Dup
Sample ID: ST1
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB103
Sample ID: ST2
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/04	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB104
Sample ID: 3-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB104 Dup
Sample ID: 3-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB104 Dup
Sample ID: 3-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan

BV Labs ID: OSB105
Sample ID: 57-I
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB106
Sample ID: 57-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB106 Dup
Sample ID: 57-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB107
Sample ID: 35-III
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB108
Sample ID: 35-IV
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB174
Sample ID: P9-I
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB175
Sample ID: P9-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB176
Sample ID: P9-IIIR
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB176
Sample ID: P9-IIIR
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB177
Sample ID: 36-IR
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB178
Sample ID: 36-IIR
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB178
Sample ID: 36-IIR
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB178 Dup
Sample ID: 36-IIR
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram

BV Labs ID: OSB179
Sample ID: 36-IVR
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB180
Sample ID: 36-VR
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal



TEST SUMMARY

BV Labs ID: OSB180
Sample ID: 36-VR
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB180 Dup
Sample ID: 36-VR
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha

BV Labs ID: OSB181
Sample ID: P14
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB182
Sample ID: P8-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB182
Sample ID: P8-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB183
Sample ID: 2-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182318	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB192
Sample ID: P1-I
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB192
Sample ID: P1-I
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB193
Sample ID: P1-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB193 Dup
Sample ID: P1-II
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu

BV Labs ID: OSB194
Sample ID: P1-III
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB194
Sample ID: P1-III
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB195
Sample ID: 4-III
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB195 Dup
Sample ID: 4-III
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi

BV Labs ID: OSB196
Sample ID: P11-I
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7171039	N/A	2021/02/03	Anastassia Hamanov
Dissolved Metals by ICPMS	ICP/MS	7182006	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu



BUREAU
VERITAS

BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSB196
Sample ID: P11-I
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB197
Sample ID: P11-III
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182455	N/A	2021/02/03	Surinder Rai
Anions	IC	7182448	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182457	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182459	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173346	N/A	2021/02/04	Anastassia Hamanov
Lab Filtered Metals by ICPMS	ICP/MS	7182873	2021/02/03	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7182092	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182447	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182456	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182010	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182444	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182094	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182095	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSB197 Dup
Sample ID: P11-III
Matrix: Water

Collected: 2021/01/26
Shipped:
Received: 2021/01/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Lab Filtered Metals by ICPMS	ICP/MS	7182873	2021/02/03	2021/02/04	Nan Raykha



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	-0.3°C
Package 2	-1.0°C
Package 3	-1.0°C
Package 4	-0.7°C
Package 5	0.3°C
Package 6	0.3°C

Revised Report (2021/02/24): One sample name has been amended to 42-III as per client's request.

Anions Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample OSB099 [42-III] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample OSB100 [42-II] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample OSB102 [ST1] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB103 [ST2] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB104 [3-II] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSB105 [57-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB107 [35-III] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSB108 [35-IV] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB174 [P9-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB175 [P9-II] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB176 [P9-IIIR] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSB177 [36-IR] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB178 [36-IIR] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSB180 [36-VR] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB181 [P14] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent. ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB182 [P8-II] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent. ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.



Sample OSB183 [2-II] : ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB192 [P1-I] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent. ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB193 [P1-II] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSB194 [P1-III] : ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB195 [4-III] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB196 [P11-I] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSB197 [P11-III] : ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C123457

Report Date: 2021/02/24

QUALITY ASSURANCE REPORT

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7182006	Dissolved Aluminum (Al)	2021/02/03	NC	80 - 120	105	80 - 120	<4.9	ug/L	5.3	20		
7182006	Dissolved Antimony (Sb)	2021/02/03	107	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7182006	Dissolved Arsenic (As)	2021/02/03	102	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7182006	Dissolved Barium (Ba)	2021/02/03	101	80 - 120	100	80 - 120	<2.0	ug/L	0.82	20		
7182006	Dissolved Beryllium (Be)	2021/02/03	103	80 - 120	97	80 - 120	<0.40	ug/L	NC	20		
7182006	Dissolved Bismuth (Bi)	2021/02/03	78 (1)	80 - 120	95	80 - 120	<1.0	ug/L	NC	20		
7182006	Dissolved Boron (B)	2021/02/03	NC	80 - 120	95	80 - 120	<10	ug/L	3.3	20		
7182006	Dissolved Cadmium (Cd)	2021/02/03	102	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
7182006	Dissolved Calcium (Ca)	2021/02/03	NC	80 - 120	103	80 - 120	<200	ug/L	2.3	20		
7182006	Dissolved Chromium (Cr)	2021/02/03	101	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7182006	Dissolved Cobalt (Co)	2021/02/03	101	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7182006	Dissolved Copper (Cu)	2021/02/03	101	80 - 120	105	80 - 120	<0.90	ug/L	NC	20		
7182006	Dissolved Iron (Fe)	2021/02/03	100	80 - 120	98	80 - 120	<100	ug/L	NC	20		
7182006	Dissolved Lead (Pb)	2021/02/03	97	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
7182006	Dissolved Lithium (Li)	2021/02/03	109	80 - 120	102	80 - 120	<5.0	ug/L	2.4	20		
7182006	Dissolved Magnesium (Mg)	2021/02/03	NC	80 - 120	103	80 - 120	<50	ug/L	0.30	20		
7182006	Dissolved Manganese (Mn)	2021/02/03	100	80 - 120	99	80 - 120	<2.0	ug/L	NC	20		
7182006	Dissolved Molybdenum (Mo)	2021/02/03	107	80 - 120	101	80 - 120	<0.50	ug/L	7.7	20		
7182006	Dissolved Nickel (Ni)	2021/02/03	98	80 - 120	95	80 - 120	<1.0	ug/L	17	20		
7182006	Dissolved Phosphorus (P)	2021/02/03	114	80 - 120	122 (1)	80 - 120	<100	ug/L	NC	20		
7182006	Dissolved Potassium (K)	2021/02/03	NC	80 - 120	104	80 - 120	<200	ug/L	2.2	20		
7182006	Dissolved Selenium (Se)	2021/02/03	75 (1)	80 - 120	97	80 - 120	<2.0	ug/L	NC	20		
7182006	Dissolved Silicon (Si)	2021/02/03	107	80 - 120	105	80 - 120	<50	ug/L	1.8	20		
7182006	Dissolved Silver (Ag)	2021/02/03	72 (1)	80 - 120	95	80 - 120	<0.090	ug/L	NC	20		
7182006	Dissolved Sodium (Na)	2021/02/03	NC	80 - 120	101	80 - 120	<100	ug/L	1.3	20		
7182006	Dissolved Strontium (Sr)	2021/02/03	NC	80 - 120	94	80 - 120	<1.0	ug/L	1.4	20		
7182006	Dissolved Tellurium (Te)	2021/02/03	60 (1)	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7182006	Dissolved Thallium (Tl)	2021/02/03	98	80 - 120	96	80 - 120	<0.050	ug/L	NC	20		
7182006	Dissolved Tin (Sn)	2021/02/03	105	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7182006	Dissolved Titanium (Ti)	2021/02/03	103	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
7182006	Dissolved Tungsten (W)	2021/02/03	103	80 - 120	100	80 - 120	<1.0	ug/L	3.4	20		



BUREAU
VERITAS

BV Labs Job #: C123457

Report Date: 2021/02/24

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7182006	Dissolved Uranium (U)	2021/02/03	100	80 - 120	95	80 - 120	<0.10	ug/L	1.1	20		
7182006	Dissolved Vanadium (V)	2021/02/03	103	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7182006	Dissolved Zinc (Zn)	2021/02/03	99	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
7182006	Dissolved Zirconium (Zr)	2021/02/03	108	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7182010	Phenols-4AAP	2021/02/03	103	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
7182014	Dissolved Aluminum (Al)	2021/02/04	109	80 - 120	107	80 - 120	<4.9	ug/L	4.3	20		
7182014	Dissolved Antimony (Sb)	2021/02/04	107	80 - 120	107	80 - 120	<0.50	ug/L	NC	20		
7182014	Dissolved Arsenic (As)	2021/02/04	104	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7182014	Dissolved Barium (Ba)	2021/02/04	105	80 - 120	105	80 - 120	<2.0	ug/L	3.8	20		
7182014	Dissolved Beryllium (Be)	2021/02/04	113	80 - 120	102	80 - 120	<0.40	ug/L	NC	20		
7182014	Dissolved Bismuth (Bi)	2021/02/04	95	80 - 120	106	80 - 120	<1.0	ug/L	NC	20		
7182014	Dissolved Boron (B)	2021/02/04	NC	80 - 120	98	80 - 120	<10	ug/L	0.0039	20		
7182014	Dissolved Cadmium (Cd)	2021/02/04	102	80 - 120	104	80 - 120	<0.090	ug/L	NC	20		
7182014	Dissolved Calcium (Ca)	2021/02/04	NC	80 - 120	104	80 - 120	<200	ug/L	2.5	20		
7182014	Dissolved Chromium (Cr)	2021/02/04	100	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
7182014	Dissolved Cobalt (Co)	2021/02/04	103	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7182014	Dissolved Copper (Cu)	2021/02/04	103	80 - 120	101	80 - 120	<0.90	ug/L	NC	20		
7182014	Dissolved Iron (Fe)	2021/02/04	100	80 - 120	98	80 - 120	<100	ug/L	0.033	20		
7182014	Dissolved Lead (Pb)	2021/02/04	99	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7182014	Dissolved Lithium (Li)	2021/02/04	109	80 - 120	104	80 - 120	<5.0	ug/L	1.6	20		
7182014	Dissolved Magnesium (Mg)	2021/02/04	NC	80 - 120	104	80 - 120	<50	ug/L	2.2	20		
7182014	Dissolved Manganese (Mn)	2021/02/04	101	80 - 120	102	80 - 120	<2.0	ug/L	0.11	20		
7182014	Dissolved Molybdenum (Mo)	2021/02/04	104	80 - 120	103	80 - 120	<0.50	ug/L	1.1	20		
7182014	Dissolved Nickel (Ni)	2021/02/04	98	80 - 120	99	80 - 120	<1.0	ug/L	6.2	20		
7182014	Dissolved Phosphorus (P)	2021/02/04	103	80 - 120	115	80 - 120	<100	ug/L	NC	20		
7182014	Dissolved Potassium (K)	2021/02/04	101	80 - 120	106	80 - 120	<200	ug/L	1.5	20		
7182014	Dissolved Selenium (Se)	2021/02/04	107	80 - 120	101	80 - 120	<2.0	ug/L	NC	20		
7182014	Dissolved Silicon (Si)	2021/02/04	109	80 - 120	104	80 - 120	<50	ug/L	5.1	20		
7182014	Dissolved Silver (Ag)	2021/02/04	85	80 - 120	102	80 - 120	<0.090	ug/L	NC	20		
7182014	Dissolved Sodium (Na)	2021/02/04	NC	80 - 120	102	80 - 120	<100	ug/L	2.5	20		
7182014	Dissolved Strontium (Sr)	2021/02/04	NC	80 - 120	102	80 - 120	<1.0	ug/L	0.89	20		



BUREAU
VERITAS

BV Labs Job #: C123457

Report Date: 2021/02/24

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7182014	Dissolved Tellurium (Te)	2021/02/04	100	80 - 120	105	80 - 120	<1.0	ug/L	NC	20		
7182014	Dissolved Thallium (Tl)	2021/02/04	100	80 - 120	103	80 - 120	<0.050	ug/L	NC	20		
7182014	Dissolved Tin (Sn)	2021/02/04	108	80 - 120	107	80 - 120	<1.0	ug/L	NC	20		
7182014	Dissolved Titanium (Ti)	2021/02/04	106	80 - 120	102	80 - 120	<5.0	ug/L	NC	20		
7182014	Dissolved Tungsten (W)	2021/02/04	106	80 - 120	104	80 - 120	<1.0	ug/L	NC	20		
7182014	Dissolved Uranium (U)	2021/02/04	101	80 - 120	96	80 - 120	<0.10	ug/L	3.2	20		
7182014	Dissolved Vanadium (V)	2021/02/04	103	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7182014	Dissolved Zinc (Zn)	2021/02/04	99	80 - 120	101	80 - 120	<5.0	ug/L	3.8	20		
7182014	Dissolved Zirconium (Zr)	2021/02/04	111	80 - 120	109	80 - 120	<1.0	ug/L	NC	20		
7182020	Phenols-4AAP	2021/02/04	101	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
7182092	Total Ammonia-N	2021/02/03	NC	75 - 125	99	80 - 120	<0.050	mg/L	12	20		
7182094	Total Kjeldahl Nitrogen (TKN)	2021/02/03	108	80 - 120	102	80 - 120	<0.10	mg/L	4.3	20	101	80 - 120
7182095	Total Organic Carbon (TOC)	2021/02/03	96	80 - 120	98	80 - 120	<0.40	mg/L	0.53	20		
7182123	Total Ammonia-N	2021/02/03	90	75 - 125	99	80 - 120	<0.050	mg/L	0.027	20		
7182126	Total Kjeldahl Nitrogen (TKN)	2021/02/03	NC	80 - 120	100	80 - 120	<0.10	mg/L	5.6	20	102	80 - 120
7182127	Total Organic Carbon (TOC)	2021/02/03	NC	80 - 120	98	80 - 120	<0.40	mg/L	1.5	20		
7182281	Orthophosphate (P)	2021/02/03	100	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
7182282	Nitrate (N)	2021/02/03	100	80 - 120	99	80 - 120	<0.10	mg/L	NC	20		
7182282	Nitrite (N)	2021/02/03	107	80 - 120	107	80 - 120	<0.010	mg/L	NC	20		
7182305	Dissolved Bromide (Br-)	2021/02/03	117	80 - 120	109	80 - 120	<1.0	mg/L	NC	20		
7182305	Dissolved Chloride (Cl-)	2021/02/03	NC	80 - 120	97	70 - 130	<1.0	mg/L	0.20	20		
7182305	Dissolved Sulphate (SO4)	2021/02/03	NC	80 - 120	98	80 - 120	<1.0	mg/L	0.46	20		
7182306	Alkalinity (Total as CaCO3)	2021/02/03			98	85 - 115	<1.0	mg/L	0.60	20		
7182307	pH	2021/02/03			101	98 - 103			0.30	N/A		
7182308	Conductivity	2021/02/03			100	85 - 115	<1.0	umho/cm	0	25		
7182309	Fluoride (F-)	2021/02/03	103	80 - 120	103	80 - 120	<0.10	mg/L	11	20		
7182318	Total Dissolved Solids	2021/02/04					<10	mg/L	4.6	25	102	90 - 110
7182333	Total Dissolved Solids	2021/02/04					<10	mg/L	0.34	25	98	90 - 110
7182444	Orthophosphate (P)	2021/02/03	95	75 - 125	102	80 - 120	<0.010	mg/L	NC	25		
7182447	Nitrate (N)	2021/02/03	97	80 - 120	98	80 - 120	<0.10	mg/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: C123457

Report Date: 2021/02/24

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7182447	Nitrite (N)	2021/02/03	106	80 - 120	107	80 - 120	<0.010	mg/L	NC	20		
7182448	Dissolved Bromide (Br-)	2021/02/03	117	80 - 120	109	80 - 120	<1.0	mg/L	NC	20		
7182448	Dissolved Chloride (Cl-)	2021/02/03	NC	80 - 120	97	70 - 130	<1.0	mg/L	0.19	20		
7182448	Dissolved Sulphate (SO4)	2021/02/03	NC	80 - 120	98	80 - 120	<1.0	mg/L	0.27	20		
7182455	Alkalinity (Total as CaCO3)	2021/02/03			98	85 - 115	<1.0	mg/L	0.79	20		
7182456	pH	2021/02/03			101	98 - 103			0.47	N/A		
7182457	Conductivity	2021/02/03			100	85 - 115	<1.0	umho/cm	0.35	25		
7182459	Fluoride (F-)	2021/02/03	95	80 - 120	101	80 - 120	<0.10	mg/L	2.4	20		
7182873	Dissolved Aluminum (Al)	2021/02/04	104	80 - 120	98	80 - 120	<4.9	ug/L	NC	20		
7182873	Dissolved Antimony (Sb)	2021/02/04	107	80 - 120	102	80 - 120	<0.50	ug/L	9.2	20		
7182873	Dissolved Arsenic (As)	2021/02/04	103	80 - 120	100	80 - 120	<1.0	ug/L	4.8	20		
7182873	Dissolved Barium (Ba)	2021/02/04	103	80 - 120	100	80 - 120	<2.0	ug/L	1.8	20		
7182873	Dissolved Beryllium (Be)	2021/02/04	103	80 - 120	98	80 - 120	<0.40	ug/L	NC	20		
7182873	Dissolved Bismuth (Bi)	2021/02/04	99	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7182873	Dissolved Boron (B)	2021/02/04	96	80 - 120	94	80 - 120	<10	ug/L	0.90	20		
7182873	Dissolved Cadmium (Cd)	2021/02/04	101	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7182873	Dissolved Calcium (Ca)	2021/02/04	NC	80 - 120	98	80 - 120	<200	ug/L	1.6	20		
7182873	Dissolved Chromium (Cr)	2021/02/04	101	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7182873	Dissolved Cobalt (Co)	2021/02/04	102	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7182873	Dissolved Copper (Cu)	2021/02/04	103	80 - 120	98	80 - 120	<0.90	ug/L	NC	20		
7182873	Dissolved Iron (Fe)	2021/02/04	100	80 - 120	99	80 - 120	<100	ug/L	NC	20		
7182873	Dissolved Lead (Pb)	2021/02/04	102	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7182873	Dissolved Lithium (Li)	2021/02/04	105	80 - 120	102	80 - 120	<5.0	ug/L	1.0	20		
7182873	Dissolved Magnesium (Mg)	2021/02/04	101	80 - 120	99	80 - 120	<50	ug/L	3.2	20		
7182873	Dissolved Manganese (Mn)	2021/02/04	100	80 - 120	100	80 - 120	<2.0	ug/L	NC	20		
7182873	Dissolved Molybdenum (Mo)	2021/02/04	108	80 - 120	101	80 - 120	<0.50	ug/L	5.4	20		
7182873	Dissolved Nickel (Ni)	2021/02/04	99	80 - 120	99	80 - 120	<1.0	ug/L	4.8	20		
7182873	Dissolved Phosphorus (P)	2021/02/04	108	80 - 120	112	80 - 120	<100	ug/L	NC	20		
7182873	Dissolved Potassium (K)	2021/02/04	NC	80 - 120	97	80 - 120	<200	ug/L	1.8	20		
7182873	Dissolved Selenium (Se)	2021/02/04	98	80 - 120	100	80 - 120	<2.0	ug/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: C123457

Report Date: 2021/02/24

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7182873	Dissolved Silicon (Si)	2021/02/04	109	80 - 120	100	80 - 120	<50	ug/L	2.3	20		
7182873	Dissolved Silver (Ag)	2021/02/04	87	80 - 120	101	80 - 120	<0.090	ug/L	NC	20		
7182873	Dissolved Sodium (Na)	2021/02/04	NC	80 - 120	97	80 - 120	<100	ug/L	0.57	20		
7182873	Dissolved Strontium (Sr)	2021/02/04	NC	80 - 120	100	80 - 120	<1.0	ug/L	1.8	20		
7182873	Dissolved Tellurium (Te)	2021/02/04	100	80 - 120	104	80 - 120	<1.0	ug/L	NC	20		
7182873	Dissolved Thallium (Tl)	2021/02/04	102	80 - 120	102	80 - 120	<0.050	ug/L	NC	20		
7182873	Dissolved Tin (Sn)	2021/02/04	109	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7182873	Dissolved Titanium (Ti)	2021/02/04	104	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7182873	Dissolved Tungsten (W)	2021/02/04	106	80 - 120	102	80 - 120	<1.0	ug/L	1.6	20		
7182873	Dissolved Uranium (U)	2021/02/04	102	80 - 120	101	80 - 120	<0.10	ug/L	NC	20		
7182873	Dissolved Vanadium (V)	2021/02/04	104	80 - 120	99	80 - 120	<0.50	ug/L	3.4	20		
7182873	Dissolved Zinc (Zn)	2021/02/04	100	80 - 120	101	80 - 120	<5.0	ug/L	NC	20		
7182873	Dissolved Zirconium (Zr)	2021/02/04	109	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

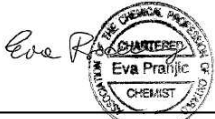
BV Labs Job #: C123457
Report Date: 2021/02/24

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Anastassia Hamanov, Scientific Specialist



Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

27-Jan-21 15:24

Jolanta Goralczyk

C123457

INVOICE TO:
Company Name: #16786 Terrapure Environmental
Attention: Accounting
Address: 65 Green Mountain Rd West
Stoney Creek ON L8J 1X5
Tel: (905) 561-0305 Fax: (905) 561-1674
Email: kbailey@terrapureenv.com

REPORT TO:
Company Name: Brad Mullin - GHD Reporting
Attention: Brad Mullin - GHD Reporting
Address: [Redacted]
Tel: [Redacted] Fax: [Redacted]
Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com

PROJECT INFORMATION:
Quotation #: B60569
P.O. #: [Redacted]
Project: GW
Project Name: GW
Site #: [Redacted]
Sampled By: [Redacted]

Only:
Bottle Order #: [Redacted]
808571
Project Manager: Jolanta Goralczyk
COC #: [Redacted]
C#808571-05-01

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011)
 Table 1 Res/Park Medium/Fine
 Table 2 Ind/Comm Coarse
 Table 3 Agri/Other For RSC
 Table

Other Regulations
 CCME Sanitary Sewer Bylaw
 Reg 558 Storm Sewer Bylaw
 MISA Municipality
 PWOO Reg 406 Table
 Other

Special Instructions

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Field Filtered (please circle):
Metals / Hg / Cr-VI
List "A" GW Monitoring

Turnaround Time (TAT) Required:
Please provide advance notice for rush projects

Regular (Standard) TAT:
(will be applied if Rush TAT is not specified).
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number: _____ (call lab for #)

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle)	List "A" GW Monitoring														
1	42-I	21/01/26	AM	GW	Y	✓														6
2	42-II			GW	Y	✓														6
3	50-I			GW	Y	✓														6
4	ST1			GW	Y	✓														6
5	ST2			GW	Y	✓														6
6	3-II			GW	Y	✓														6
7	57-I			GW	Y	✓														6
8	57-II			GW	Y	✓														6
9	35-III			GW	Y	✓														6
10	35-IV			GW	Y	✓														6

**Caution:
Strong Sulphur
odour**

RELINQUISHED BY: (Signature/Print) [Signature] **Date: (YY/MM/DD)** 21/01/27 **Time** AM

RECEIVED BY: (Signature/Print) KAVITHASLVAN [Signature] **Date: (YY/MM/DD)** 2021/01/27 **Time** 15:24

jars used and not submitted

Laboratory Use Only

Time Sensitive Temperature (°C) on Receptacle: ACTR

Custody Seal Present Intact

Yes No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

** IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

*** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

ON ice



INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:		
Company Name: #16786 Terrapure Environmental	Company Name: <u>Brad Mullin - GHD Reporting</u>	Quotation #: B60569	BV Labs Job #:	Bottle Order #:	COC #:			Project Manager:
Attention: Accounting	Attention: <u>Brad Mullin - GHD Reporting</u>	P.O. #:	Project: GW		COC #:			Jolanta Goralczyk
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address:	Project Name: <u>GW</u>	Site #:		C#808571-06-01			
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel: Fax:	Sampled By:						
Email: kbailey@terrapureenv.com	Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com							

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects								
Regulation 153 (2011)			Other Regulations			Special Instructions	Field Filtered (please circle): Metals / Hg / Cr / V	List "A" GW Monitoring											Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.					
Include Criteria on Certificate of Analysis (Y/N)?																								
Table 1	Res/Park	Medium/Fine	CCME	Sanitary Sewer Bylaw																				
Table 2	Ind/Comm	Coarse	Reg 558	Storm Sewer Bylaw																				
Table 3	Agri/Other	For RSC	MISA	Municipality																				
Table			PWOO	Reg 405 Table																				
			Other																					
1							Y	✓															6	
2							Y	✓															6	
3							Y	✓															6	
4							Y	✓															6	
5							Y	✓															6	
6							Y	✓															6	
7							Y	✓															6	
8							Y	✓															6	
9							Y	✓															6	
10							Y	✓															6	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
<i>[Signature]</i>	21/01/27	AM	See page 1		15:24		Time Sensitive	Temperature (°C) on Receil	Custody Seal Present	Yes	No
								ACTR	Intact	✓	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

** IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client

ON 126



INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental	Attention: Accounting	Company Name: Brad Mullin - GHD Reporting	Attention: Brad Mullin - GHD Reporting	Quotation #: B60569	P.O. #:	BV Labs Job #:	Bottle Order #:
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Tel: (905) 561-0305 Fax: (905) 561-1674	Address:	Tel:	Project: GW	Project Name: GW	COC #:	Project Manager:
Email: kbailey@terrapureenv.com	Email: bmulin@terrapureenv.com; dtaylor2@terrapureenv.com			Site #:	Sampled By:	C#605691-07-01	Jolanta Goralczyk

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects									
Regulation 153 (2011)			Other Regulations			Special Instructions	Field Filtered (please circle): Metals / Hg / Cr-VI	List "A" GW Monitoring											Regular (Standard) TAT: (will be applied if Rush TAT is not specified)						
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw																				<input checked="" type="checkbox"/>	
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw																					
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____																					
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWQO	<input type="checkbox"/> Reg 405 Table _____																					
Include Criteria on Certificate of Analysis (Y/N)? _____																						Job Specific Rush TAT (# applies to entire submission)			
																						Date Required: _____ Time Required: _____			
																						Rush Confirmation Number: _____ (call lab for #)			
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr-VI	List "A" GW Monitoring																		# of Bottles	Comments
	P1-I	2/10/26	AM	GW	Y	✓																		6	
	P1-II			GW	Y	✓																		6	
	P1-III			GW	Y	✓																		6	
	4-III			GW	Y	✓																		6	
	P11-I			GW	Y	✓																		6	
	P11-III			GW	Y	✓																		6	
				GW																					
				GW																					
				GW																					
				GW																					

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Laboratory Use Only				
<i>[Signature]</i>	2/10/27	AM	<i>[Signature]</i>				Time Sensitive	Temperature (°C) on Receipt	Custody Seal Present	Yes	No
			See page 1						Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

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** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client



INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental		Company Name: Brad Mullin - GHD Reporting		Quotation #: B60569		BV Labs Job #:	
Attention: Accounting		Attention: Brad Mullin - GHD Reporting		P.O. #:		Bottle Order #:	
Address: 65 Green Mountain Rd West		Address:		Project: GW		COC #:	
Stoney Creek ON L8J 1X5				Project Name: GHD		Project Manager:	
Tel: (905) 561-0305 Fax: (905) 561-1674		Tel: Fax:		Site #:		Jolanta Goralczyk	
Email: kbailey@terrapureenv.com		Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		Sampled By:		C#80857 1-12-01	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY			ANALYSIS REQUESTED (PLEASE BE SPECIFIC)						Turnaround Time (TAT) Required: Please provide advance notice for rush projects	
Regulation 153 (2011)		Other Regulations		Special Instructions		Field Filtered (please circle): Metals / Hg / Cr VI List "A" - GW Monitoring add phone to report C123457		Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.		
<input type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Fine <input type="checkbox"/> Table 2 <input type="checkbox"/> Indl/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC <input type="checkbox"/> Table _____		<input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Reg 558 <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> MISA Municipality _____ <input type="checkbox"/> PWQO <input type="checkbox"/> Reg 406 Table _____ <input type="checkbox"/> Other _____						Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)		<input checked="" type="checkbox"/>

Include Criteria on Certificate of Analysis (Y/N)?									
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix					
1	57-II	2/10/28	Pm	GW	N/A				1
2									
3									
4									
5									
6									
7									
8									
9									
10									

27-Jan-21 15:24
Jolanta Goralczyk
C123457
URE ENV-1355

* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only	
<i>[Signature]</i>		21/01/29	PM	<i>[Signature]</i>		20/01/29	15:20		Time Sensitive	Temperature (°C) on Receptacle
				ENV 1355					5°C HCTR	Custody Seal Present
										Intact
										Yes
										No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.
 * IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.
 ** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.
 SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS
 White: BV Labs Yellow: Client



Your Project #: GW

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Your C.O.C. #: 808253-07-01, 808253-08-01, 808253-09-01

Report Date: 2021/02/05
Report #: R6507518
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C124617

Received: 2021/01/28, 15:15

Sample Matrix: Water
Samples Received: 30

Analyses	Date		Laboratory Method	Analytical Method
	Quantity	Extracted		
Alkalinity	30	N/A	2021/02/03 CAM SOP-00448	SM 23 2320 B m
Anions	30	N/A	2021/02/03 CAM SOP-00435	SM 23 4110 B m
Conductivity	30	N/A	2021/02/03 CAM SOP-00414	SM 23 2510 m
Fluoride	30	2021/02/03	2021/02/03 CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	30	N/A	2021/02/04 CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	20	N/A	2021/02/03 CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	10	N/A	2021/02/04 CAM SOP-00447	EPA 6020B m
Total Ammonia-N	10	N/A	2021/02/03 CAM SOP-00441	USGS I-2522-90 m
Total Ammonia-N	20	N/A	2021/02/04 CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	30	N/A	2021/02/03 CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	30	2021/02/03	2021/02/03 CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	23	N/A	2021/02/03 CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	7	N/A	2021/02/04 CAM SOP-00444	OMOE E3179 m
Orthophosphate	30	N/A	2021/02/03 CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	30	2021/02/03	2021/02/04 CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	6	2021/02/03	2021/02/03 CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	24	2021/02/03	2021/02/04 CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	30	N/A	2021/02/03 CAM SOP-00446	SM 23 5310B m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

(2) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



Your Project #: GW

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Your C.O.C. #: 808253-07-01, 808253-08-01, 808253-09-01

Report Date: 2021/02/05
Report #: R6507518
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C124617

Received: 2021/01/28, 15:15

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas Laboratories

05 Feb 2021 17:37:42

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

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RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH600				OSH600				OSH601			
Sampling Date		2021/01/27				2021/01/27				2021/01/27			
COC Number		808253-07-01				808253-07-01				808253-07-01			
	UNITS	40-I	RDL	QC Batch	40-I Lab-Dup	RDL	QC Batch	40-II	RDL	QC Batch			
Calculated Parameters													
Hardness (CaCO3)	mg/L	1900	1.0	7173116				1100	1.0	7173116			
Inorganics													
Total Ammonia-N	mg/L	3.4	0.050	7182104				4.5	0.050	7182104			
Conductivity	umho/cm	4300	1.0	7182072				3000	1.0	7182072			
Total Dissolved Solids	mg/L	3320	10	7182334	3380	10	7182334	2070	10	7182334			
Fluoride (F-)	mg/L	1.0	0.10	7182073				1.0	0.10	7182073			
Total Kjeldahl Nitrogen (TKN)	mg/L	3.9	0.10	7182108				4.8	0.10	7182108			
Total Organic Carbon (TOC)	mg/L	3.6	0.40	7182109				3.1	0.40	7182109			
Orthophosphate (P)	mg/L	<0.010	0.010	7182051				<0.010	0.010	7182051			
pH	pH	7.79		7182071				7.81		7182071			
Phenols-4AAP	mg/L	<0.0010	0.0010	7182047	<0.0010	0.0010	7182047	<0.0010	0.0010	7182047			
Alkalinity (Total as CaCO3)	mg/L	210	1.0	7182067				230	1.0	7182067			
Nitrite (N)	mg/L	0.056	0.010	7182061				<0.010	0.010	7182061			
Dissolved Chloride (Cl-)	mg/L	480	10	7182066				400	5.0	7182066			
Nitrate (N)	mg/L	1.38	0.10	7182061				<0.10	0.10	7182061			
Nitrate + Nitrite (N)	mg/L	1.44	0.10	7182061				<0.10	0.10	7182061			
Dissolved Bromide (Br-)	mg/L	<10	10	7182066				<5.0	5.0	7182066			
Dissolved Sulphate (SO4)	mg/L	1600	10	7182066				810	5.0	7182066			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate													



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BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH602		OSH603			OSH604		
Sampling Date		2021/01/27		2021/01/27			2021/01/27		
COC Number		808253-07-01		808253-07-01			808253-07-01		
	UNITS	40-III	RDL	29-I	RDL	QC Batch	29-II	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	1400	1.0	2100	1.0	7173116	980	1.0	7173116
Inorganics									
Total Ammonia-N	mg/L	2.7	0.050	13	0.050	7182104	0.67	0.050	7182123
Conductivity	umho/cm	3300	1.0	5300	1.0	7182072	2800	1.0	7182072
Total Dissolved Solids	mg/L	2480	10	3770	10	7182334	1900	10	7182334
Fluoride (F-)	mg/L	1.0	0.10	1.1	0.10	7182073	0.83	0.10	7182073
Total Kjeldahl Nitrogen (TKN)	mg/L	3.0	0.10	13	1.0	7182108	1.4	0.10	7182126
Total Organic Carbon (TOC)	mg/L	3.3	0.40	6.2	0.40	7182109	6.7	0.40	7182127
Orthophosphate (P)	mg/L	<0.010	0.010	<0.010	0.010	7182051	0.011	0.010	7182051
pH	pH	7.88		7.72		7182071	7.91		7182071
Phenols-4AAP	mg/L	<0.0010	0.0010	<0.0010	0.0010	7182047	<0.0010	0.0010	7182047
Alkalinity (Total as CaCO3)	mg/L	220	1.0	180	1.0	7182067	160	1.0	7182067
Nitrite (N)	mg/L	<0.010	0.010	0.016	0.010	7182061	0.018	0.010	7182061
Dissolved Chloride (Cl-)	mg/L	460	5.0	800	10	7182066	350	5.0	7182066
Nitrate (N)	mg/L	0.21	0.10	<0.10	0.10	7182061	<0.10	0.10	7182061
Nitrate + Nitrite (N)	mg/L	0.21	0.10	<0.10	0.10	7182061	<0.10	0.10	7182061
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	<10	10	7182066	<5.0	5.0	7182066
Dissolved Sulphate (SO4)	mg/L	910	5.0	1700	10	7182066	810	5.0	7182066
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



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BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH605	OSH606			OSH607		OSH608		
Sampling Date		2021/01/27	2021/01/27			2021/01/27		2021/01/27		
COC Number		808253-07-01	808253-07-01			808253-07-01		808253-07-01		
	UNITS	29-IV	12-I	RDL	QC Batch	12-IV	QC Batch	14-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1900	2000	1.0	7173116	1100	7173116	850	1.0	7173116
Inorganics										
Total Ammonia-N	mg/L	15	12	0.050	7182104	4.6	7182123	<0.050	0.050	7182104
Conductivity	umho/cm	5100	5300	1.0	7182072	3000	7182072	1600	1.0	7182072
Total Dissolved Solids	mg/L	3650	3690	10	7182334	1950	7182334	1030	10	7182334
Fluoride (F-)	mg/L	1.2	1.1	0.10	7182073	1.0	7182073	0.27	0.10	7182073
Total Kjeldahl Nitrogen (TKN)	mg/L	15	13	1.0	7182108	4.8	7182126	0.16	0.10	7182108
Total Organic Carbon (TOC)	mg/L	5.8	6.2	0.40	7182109	3.1	7182127	1.6	0.40	7182109
Orthophosphate (P)	mg/L	<0.010	<0.010	0.010	7182051	<0.010	7182051	0.012	0.010	7182051
pH	pH	7.74	7.76		7182071	7.85	7182071	7.98		7182071
Phenols-4AAP	mg/L	<0.0010	<0.0010	0.0010	7182047	<0.0010	7182047	<0.0010	0.0010	7182047
Alkalinity (Total as CaCO3)	mg/L	180	170	1.0	7182067	220	7182067	400	1.0	7182067
Nitrite (N)	mg/L	<0.010	0.013	0.010	7182061	<0.010	7182061	<0.010	0.010	7182061
Dissolved Chloride (Cl-)	mg/L	750	820	10	7182066	400	7182066	78	5.0	7182066
Nitrate (N)	mg/L	<0.10	0.20	0.10	7182061	<0.10	7182061	<0.10	0.10	7182061
Nitrate + Nitrite (N)	mg/L	<0.10	0.21	0.10	7182061	<0.10	7182061	<0.10	0.10	7182061
Dissolved Bromide (Br-)	mg/L	<10	<10	10	7182066	<5.0	7182066	<5.0	5.0	7182066
Dissolved Sulphate (SO4)	mg/L	1600	1700	10	7182066	800	7182066	390	5.0	7182066

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH609			OSH618		OSH619		
Sampling Date		2021/01/27			2021/01/27		2021/01/27		
COC Number		808253-07-01			808253-08-01		808253-08-01		
	UNITS	45-I	RDL	QC Batch	45-II	RDL	76-I	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO ₃)	mg/L	450	1.0	7173116	570	1.0	40000	1.0	7173116
Inorganics									
Total Ammonia-N	mg/L	0.077	0.050	7182104	0.33	0.050	37	0.25	7182104
Conductivity	umho/cm	870	1.0	7182072	1500	1.0	>100000	1.0	7182072
Total Dissolved Solids	mg/L	500	10	7182334	905	10	94800	20	7182334
Fluoride (F ⁻)	mg/L	0.22	0.10	7182073	0.23	0.10	0.16	0.10	7182073
Total Kjeldahl Nitrogen (TKN)	mg/L	0.18	0.10	7182108	0.44	0.10	38	1.0	7182108
Total Organic Carbon (TOC)	mg/L	0.93	0.40	7182109	1.4	0.40	5.9	0.40	7182109
Orthophosphate (P)	mg/L	<0.010	0.010	7182051	<0.010	0.010	<0.50 (1)	0.50	7182051
pH	pH	7.95		7182071	7.83		6.89		7182071
Phenols-4AAP	mg/L	<0.0010	0.0010	7182047	<0.0010	0.0010	0.0032	0.0020	7182020
Alkalinity (Total as CaCO ₃)	mg/L	300	1.0	7182067	320	1.0	130	1.0	7182067
Nitrite (N)	mg/L	<0.010	0.010	7182061	<0.010	0.010	<0.20	0.20	7182061
Dissolved Chloride (Cl ⁻)	mg/L	40	1.0	7182066	220	5.0	53000	500	7182066
Nitrate (N)	mg/L	<0.10	0.10	7182061	<0.10	0.10	<2.0	2.0	7182061
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182061	<0.10	0.10	<2.0	2.0	7182061
Dissolved Bromide (Br ⁻)	mg/L	<1.0	1.0	7182066	<5.0	5.0	640	50	7182066
Dissolved Sulphate (SO ₄)	mg/L	100	1.0	7182066	140	5.0	1000	50	7182066
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
(1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.									



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BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH620			OSH621			OSH621		
Sampling Date		2021/01/27			2021/01/27			2021/01/27		
COC Number		808253-08-01			808253-08-01			808253-08-01		
	UNITS	76-II	RDL	QC Batch	76-III	RDL	QC Batch	76-III Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO ₃)	mg/L	470	1.0	7173116	430	1.0	7173116			
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7182104	<0.050	0.050	7182104			
Conductivity	umho/cm	1900	1.0	7182072	1600	1.0	7182308			
Total Dissolved Solids	mg/L	1070	10	7182334	900	10	7182334			
Fluoride (F-)	mg/L	0.26	0.10	7182073	0.26	0.10	7182309			
Total Kjeldahl Nitrogen (TKN)	mg/L	0.20	0.10	7182108	0.21	0.10	7182108	0.23	0.10	7182108
Total Organic Carbon (TOC)	mg/L	3.4	0.40	7182109	4.7	0.40	7182109			
Orthophosphate (P)	mg/L	<0.010	0.010	7182051	0.010	0.010	7182281			
pH	pH	7.89		7182071	7.73		7182307			
Phenols-4AAP	mg/L	<0.0010	0.0010	7182020	<0.0010	0.0010	7182020			
Alkalinity (Total as CaCO ₃)	mg/L	470	1.0	7182067	420	1.0	7182306			
Nitrite (N)	mg/L	<0.010	0.010	7182061	<0.010	0.010	7182282			
Dissolved Chloride (Cl-)	mg/L	160	5.0	7182066	130	1.0	7182305			
Nitrate (N)	mg/L	<0.10	0.10	7182061	<0.10	0.10	7182282			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182061	<0.10	0.10	7182282			
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7182066	<1.0	1.0	7182305			
Dissolved Sulphate (SO ₄)	mg/L	260	5.0	7182066	230	1.0	7182305			

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH622			OSH622			OSH623		
Sampling Date		2021/01/27			2021/01/27			2021/01/27		
COC Number		808253-08-01			808253-08-01			808253-08-01		
	UNITS	44-I	RDL	QC Batch	44-I Lab-Dup	RDL	QC Batch	44-II	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	860	1.0	7173116				440	1.0	7173116
Inorganics										
Total Ammonia-N	mg/L	1.7	0.050	7182123				<0.050	0.050	7182104
Conductivity	umho/cm	2600	1.0	7182072	2600	1.0	7182072	880	1.0	7182072
Total Dissolved Solids	mg/L	1750	10	7182334				535	10	7182334
Fluoride (F-)	mg/L	0.50	0.10	7182073	0.49	0.10	7182073	0.24	0.10	7182073
Total Kjeldahl Nitrogen (TKN)	mg/L	1.8	0.10	7182126				0.15	0.10	7182108
Total Organic Carbon (TOC)	mg/L	1.7	0.40	7182127				2.1	0.40	7182109
Orthophosphate (P)	mg/L	0.012	0.010	7182051	0.012	0.010	7182051	<0.010	0.010	7182051
pH	pH	7.66		7182071	7.66		7182071	7.95		7182071
Phenols-4AAP	mg/L	<0.0010	0.0010	7182020				<0.0010	0.0010	7182020
Alkalinity (Total as CaCO3)	mg/L	360	1.0	7182067	370	1.0	7182067	260	1.0	7182067
Nitrite (N)	mg/L	<0.010	0.010	7182061	<0.010	0.010	7182061	<0.010	0.010	7182061
Dissolved Chloride (Cl-)	mg/L	310	5.0	7182066	310	5.0	7182066	34	1.0	7182066
Nitrate (N)	mg/L	<0.10	0.10	7182061	<0.10	0.10	7182061	<0.10	0.10	7182061
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182061	<0.10	0.10	7182061	<0.10	0.10	7182061
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7182066	<5.0	5.0	7182066	<1.0	1.0	7182066
Dissolved Sulphate (SO4)	mg/L	580	5.0	7182066	580	5.0	7182066	150	1.0	7182066
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
Lab-Dup = Laboratory Initiated Duplicate										



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BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH624			OSH624			OSH625		
Sampling Date		2021/01/27			2021/01/27			2021/01/27		
COC Number		808253-08-01			808253-08-01			808253-08-01		
	UNITS	49-II	RDL	QC Batch	49-II Lab-Dup	RDL	QC Batch	49-IV	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	1100	1.0	7173116				1900	1.0	7173116
Inorganics										
Total Ammonia-N	mg/L	0.36	0.050	7182104	0.34	0.050	7182104	1.3	0.050	7182104
Conductivity	umho/cm	3700	1.0	7182072				3700	1.0	7182072
Total Dissolved Solids	mg/L	2260	10	7182334				3020	10	7182334
Fluoride (F-)	mg/L	1.3	0.10	7182073				1.3	0.10	7182073
Total Kjeldahl Nitrogen (TKN)	mg/L	0.44	0.10	7182108				1.6	0.10	7182108
Total Organic Carbon (TOC)	mg/L	2.9	0.40	7182109				3.9	0.40	7182109
Orthophosphate (P)	mg/L	<0.010	0.010	7182051				0.018	0.010	7182051
pH	pH	7.71		7182071				7.75		7182071
Phenols-4AAP	mg/L	<0.0010	0.0010	7182047				<0.0010	0.0010	7182020
Alkalinity (Total as CaCO3)	mg/L	320	1.0	7182067				350	1.0	7182067
Nitrite (N)	mg/L	<0.010	0.010	7182061				<0.010	0.010	7182061
Dissolved Chloride (Cl-)	mg/L	730	10	7182066				210	10	7182066
Nitrate (N)	mg/L	<0.10	0.10	7182061				<0.10	0.10	7182061
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182061				<0.10	0.10	7182061
Dissolved Bromide (Br-)	mg/L	<10	10	7182066				<10	10	7182066
Dissolved Sulphate (SO4)	mg/L	580	10	7182066				1700	10	7182066
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
Lab-Dup = Laboratory Initiated Duplicate										



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH626			OSH627			OSH681		
Sampling Date		2021/01/27			2021/01/27			2021/01/27		
COC Number		808253-08-01			808253-08-01			808253-09-01		
	UNITS	49-V	RDL	QC Batch	46-IR	RDL	QC Batch	46-IIR	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	2100	1.0	7173116	1900	1.0	7173116	790	1.0	7173116
Inorganics										
Total Ammonia-N	mg/L	1.5	0.050	7182104	34 (1)	0.25	7182123	0.24	0.050	7182123
Conductivity	umho/cm	3900	1.0	7182072	7000	1.0	7182308	2200	1.0	7182308
Total Dissolved Solids	mg/L	3160	10	7182334	4910	20	7182334	1490	10	7182333
Fluoride (F-)	mg/L	1.3	0.10	7182073	1.0	0.10	7182309	0.42	0.10	7182309
Total Kjeldahl Nitrogen (TKN)	mg/L	1.7	0.10	7182108	32 (1)	2.0	7182126	0.41	0.10	7182126
Total Organic Carbon (TOC)	mg/L	3.0	0.40	7182109	7.4	0.40	7182127	3.7	0.40	7182127
Orthophosphate (P)	mg/L	<0.50 (2)	0.50	7182051	<0.010	0.010	7182281	<0.010	0.010	7182281
pH	pH	7.57		7182071	7.84		7182307	7.86		7182307
Phenols-4AAP	mg/L	<0.0010	0.0010	7182047	<0.0010	0.0010	7182047	0.0010	0.0010	7182020
Alkalinity (Total as CaCO3)	mg/L	330	1.0	7182067	150	1.0	7182306	150	1.0	7182306
Nitrite (N)	mg/L	<0.010	0.010	7182061	<0.010	0.010	7182282	<0.010	0.010	7182282
Dissolved Chloride (Cl-)	mg/L	280	10	7182066	1300	20	7182305	270	5.0	7182305
Nitrate (N)	mg/L	<0.10	0.10	7182061	<0.10	0.10	7182282	<0.10	0.10	7182282
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182061	<0.10	0.10	7182282	<0.10	0.10	7182282
Dissolved Bromide (Br-)	mg/L	<10	10	7182066	<20	20	7182305	<5.0	5.0	7182305
Dissolved Sulphate (SO4)	mg/L	1700	10	7182066	1700	20	7182305	590	5.0	7182305
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
(1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.										
(2) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.										



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BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH681			OSH682			OSH682		
Sampling Date		2021/01/27			2021/01/27			2021/01/27		
COC Number		808253-09-01			808253-09-01			808253-09-01		
	UNITS	46-IIR Lab-Dup	RDL	QC Batch	46-IIIR	RDL	QC Batch	46-IIIR Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				800	1.0	7173116			
Inorganics										
Total Ammonia-N	mg/L				<0.050	0.050	7182123			
Conductivity	umho/cm				2100	1.0	7182308	2100	1.0	7182308
Total Dissolved Solids	mg/L	1500	10	7182333	1430	10	7182333			
Fluoride (F-)	mg/L				0.17	0.10	7182309	0.15	0.10	7182309
Total Kjeldahl Nitrogen (TKN)	mg/L				0.99	0.10	7182126			
Total Organic Carbon (TOC)	mg/L				17	0.40	7182127			
Orthophosphate (P)	mg/L				<0.010	0.010	7182281	<0.010	0.010	7182281
pH	pH				7.62		7182307	7.64		7182307
Phenols-4AAP	mg/L				<0.0010	0.0010	7182047			
Alkalinity (Total as CaCO3)	mg/L				310	1.0	7182306	310	1.0	7182306
Nitrite (N)	mg/L				<0.010	0.010	7182282	<0.010	0.010	7182282
Dissolved Chloride (Cl-)	mg/L				210	5.0	7182305	210	5.0	7182305
Nitrate (N)	mg/L				<0.10	0.10	7182282	<0.10	0.10	7182282
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7182282	<0.10	0.10	7182282
Dissolved Bromide (Br-)	mg/L				<5.0	5.0	7182305	<5.0	5.0	7182305
Dissolved Sulphate (SO4)	mg/L				510	5.0	7182305	520	5.0	7182305
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH683			OSH683			OSH684		
Sampling Date		2021/01/27			2021/01/27			2021/01/27		
COC Number		808253-09-01			808253-09-01			808253-09-01		
	UNITS	75-I	RDL	QC Batch	75-I Lab-Dup	RDL	QC Batch	75-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2400	1.0	7173116				870	1.0	7173116
Inorganics										
Total Ammonia-N	mg/L	6.8	0.050	7182104				28	0.050	7182123
Conductivity	umho/cm	7400	1.0	7182308				5400	1.0	7182308
Total Dissolved Solids	mg/L	5380	20	7182333				3230	10	7182333
Fluoride (F-)	mg/L	0.77	0.10	7182309				1.1	0.10	7182309
Total Kjeldahl Nitrogen (TKN)	mg/L	7.8	1.0	7182108				28	1.0	7182126
Total Organic Carbon (TOC)	mg/L	2.6	0.40	7182109	2.6	0.40	7182109	8.3	0.40	7182127
Orthophosphate (P)	mg/L	<0.010	0.010	7182281				<0.50 (1)	0.50	7182281
pH	pH	7.59		7182307				7.69		7182307
Phenols-4AAP	mg/L	<0.0010	0.0010	7182020				<0.0010	0.0010	7182020
Alkalinity (Total as CaCO3)	mg/L	220	1.0	7182306				170	1.0	7182306
Nitrite (N)	mg/L	<0.010	0.010	7182282				<0.010	0.010	7182282
Dissolved Chloride (Cl-)	mg/L	1500	50	7182305				1200	20	7182305
Nitrate (N)	mg/L	<0.10	0.10	7182282				<0.10	0.10	7182282
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182282				<0.10	0.10	7182282
Dissolved Bromide (Br-)	mg/L	<50	50	7182305				<20	20	7182305
Dissolved Sulphate (SO4)	mg/L	1600	50	7182305				730	20	7182305

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH685		OSH686		OSH687		
Sampling Date		2021/01/27		2021/01/27		2021/01/27		
COC Number		808253-09-01		808253-09-01		808253-09-01		
	UNITS	75-III	RDL	75-IV	RDL	67-I	RDL	QC Batch
Calculated Parameters								
Hardness (CaCO ₃)	mg/L	1100	1.0	1400	1.0	1500	1.0	7173116
Inorganics								
Total Ammonia-N	mg/L	2.1	0.050	5.0	0.050	41 (1)	0.25	7182104
Conductivity	umho/cm	3200	1.0	4300	1.0	6600	1.0	7182308
Total Dissolved Solids	mg/L	2150	10	2930	10	4340	20	7182333
Fluoride (F ⁻)	mg/L	0.30	0.10	0.57	0.10	0.99	0.10	7182309
Total Kjeldahl Nitrogen (TKN)	mg/L	2.3	0.10	5.4	1.0	39 (1)	2.0	7182108
Total Organic Carbon (TOC)	mg/L	4.9	0.40	7.2	0.40	8.1	0.40	7182109
Orthophosphate (P)	mg/L	<0.010	0.010	<0.010	0.010	<0.50 (2)	0.50	7182281
pH	pH	7.66		7.70		7.72		7182307
Phenols-4AAP	mg/L	<0.0010	0.0010	<0.0010	0.0010	0.0013	0.0010	7182020
Alkalinity (Total as CaCO ₃)	mg/L	440	1.0	250	1.0	160	1.0	7182306
Nitrite (N)	mg/L	<0.010	0.010	<0.010	0.010	<0.010	0.010	7182282
Dissolved Chloride (Cl ⁻)	mg/L	510	5.0	870	10	1300	20	7182305
Nitrate (N)	mg/L	<0.10	0.10	<0.10	0.10	<0.10	0.10	7182282
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	<0.10	0.10	<0.10	0.10	7182282
Dissolved Bromide (Br ⁻)	mg/L	<5.0	5.0	<10	10	<20	20	7182305
Dissolved Sulphate (SO ₄)	mg/L	590	5.0	780	10	1300	20	7182305
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								
(1) TKN < NH ₄ : Both values fall within acceptable RPD limits for duplicates and are likely equivalent.								
(2) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.								



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH688				OSH688				OSH689			
Sampling Date		2021/01/27				2021/01/27				2021/01/27			
COC Number		808253-09-01				808253-09-01				808253-09-01			
	UNITS	P15	RDL	QC Batch	P15 Lab-Dup	RDL	QC Batch	4-I	RDL	QC Batch			

Calculated Parameters										
Hardness (CaCO3)	mg/L	150	1.0	7173116				1500	1.0	7173116
Inorganics										
Total Ammonia-N	mg/L	170 (1)	1.0	7182123				41 (1)	0.25	7182123
Conductivity	umho/cm	12000	1.0	7182308				6600	1.0	7182072
Total Dissolved Solids	mg/L	6140	20	7182333				4320	20	7182333
Fluoride (F-)	mg/L	3.0	0.10	7182309				1.1	0.10	7182073
Total Kjeldahl Nitrogen (TKN)	mg/L	160 (1)	5.0	7182126				39 (1)	2.0	7182126
Total Organic Carbon (TOC)	mg/L	49	0.40	7182127	50	0.40	7182127	8.3	0.40	7182127
Orthophosphate (P)	mg/L	0.023	0.010	7182281				<0.50 (2)	0.50	7182051
pH	pH	9.80		7182307				7.72		7182071
Phenols-4AAP	mg/L	0.84	0.050	7182020				<0.0010	0.0010	7182047
Alkalinity (Total as CaCO3)	mg/L	480	1.0	7182306				160	1.0	7182067
Nitrite (N)	mg/L	0.020	0.010	7182282				<0.010	0.010	7182061
Dissolved Chloride (Cl-)	mg/L	3300	20	7182305				1300	20	7182066
Nitrate (N)	mg/L	<0.10	0.10	7182282				<0.10	0.10	7182061
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182282				<0.10	0.10	7182061
Dissolved Bromide (Br-)	mg/L	<20	20	7182305				<20	20	7182066
Dissolved Sulphate (SO4)	mg/L	290	20	7182305				1300	20	7182066

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.
 (2) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSH690			OSH690		
Sampling Date		2021/01/27			2021/01/27		
COC Number		808253-09-01			808253-09-01		
	UNITS	2-I	RDL	QC Batch	2-I Lab-Dup	RDL	QC Batch

Calculated Parameters							
Hardness (CaCO3)	mg/L	2400	1.0	7173116			
Inorganics							
Total Ammonia-N	mg/L	6.7	0.050	7182123	6.7	0.050	7182123
Conductivity	umho/cm	7300	1.0	7182072			
Total Dissolved Solids	mg/L	5330	20	7182333			
Fluoride (F-)	mg/L	0.79	0.10	7182073			
Total Kjeldahl Nitrogen (TKN)	mg/L	6.4 (1)	1.0	7182126			
Total Organic Carbon (TOC)	mg/L	2.6	0.40	7182127			
Orthophosphate (P)	mg/L	<0.010	0.010	7182051			
pH	pH	7.65		7182071			
Phenols-4AAP	mg/L	<0.0010	0.0010	7182047			
Alkalinity (Total as CaCO3)	mg/L	220	1.0	7182067			
Nitrite (N)	mg/L	<0.010	0.010	7182061			
Dissolved Chloride (Cl-)	mg/L	1500	20	7182066			
Nitrate (N)	mg/L	<0.10	0.10	7182061			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7182061			
Dissolved Bromide (Br-)	mg/L	<20	20	7182066			
Dissolved Sulphate (SO4)	mg/L	1600	20	7182066			

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSH600		OSH601	OSH601	OSH602		OSH603		
Sampling Date		2021/01/27		2021/01/27	2021/01/27	2021/01/27		2021/01/27		
COC Number		808253-07-01		808253-07-01	808253-07-01	808253-07-01		808253-07-01		
	UNITS	40-I	RDL	40-II	40-II Lab-Dup	40-III	RDL	29-I	RDL	QC Batch

Metals										
Dissolved Aluminum (Al)	ug/L	<25	25	8.1	8.5	13	4.9	<25	25	7182014
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	<0.50	<0.50	<0.50	0.50	<2.5	2.5	7182014
Dissolved Arsenic (As)	ug/L	<5.0	5.0	<1.0	<1.0	<1.0	1.0	<5.0	5.0	7182014
Dissolved Barium (Ba)	ug/L	17	10	17	18	21	2.0	25	10	7182014
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	<0.40	<0.40	<0.40	0.40	<2.0	2.0	7182014
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	<1.0	<1.0	<1.0	1.0	<5.0	5.0	7182014
Dissolved Boron (B)	ug/L	1200	50	570	570	740	10	1100	50	7182014
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	<0.090	<0.090	<0.090	0.090	<0.45	0.45	7182014
Dissolved Calcium (Ca)	ug/L	610000	1000	300000	310000	410000	200	680000	1000	7182014
Dissolved Chromium (Cr)	ug/L	<25	25	<5.0	<5.0	<5.0	5.0	<25	25	7182014
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	<0.50	<0.50	<0.50	0.50	<2.5	2.5	7182014
Dissolved Copper (Cu)	ug/L	<4.5	4.5	<0.90	<0.90	<0.90	0.90	<4.5	4.5	7182014
Dissolved Iron (Fe)	ug/L	660	500	860	860	<100	100	<500	500	7182014
Dissolved Lead (Pb)	ug/L	<2.5	2.5	<0.50	<0.50	<0.50	0.50	<2.5	2.5	7182014
Dissolved Lithium (Li)	ug/L	120	25	89	87	110	5.0	89	25	7182014
Dissolved Magnesium (Mg)	ug/L	100000	250	77000	79000	92000	50	88000	250	7182014
Dissolved Manganese (Mn)	ug/L	130	10	140	140	140	2.0	190	10	7182014
Dissolved Molybdenum (Mo)	ug/L	<2.5	2.5	2.3	2.4	3.1	0.50	<2.5	2.5	7182014
Dissolved Nickel (Ni)	ug/L	<5.0	5.0	1.3	1.2	1.5	1.0	<5.0	5.0	7182014
Dissolved Phosphorus (P)	ug/L	<500	500	<100	<100	<100	100	<500	500	7182014
Dissolved Potassium (K)	ug/L	28000	1000	21000	21000	25000	200	38000	1000	7182014
Dissolved Selenium (Se)	ug/L	<10	10	<2.0	<2.0	<2.0	2.0	<10	10	7182014
Dissolved Silicon (Si)	ug/L	4600	250	5300	5600	6000	50	4900	250	7182014
Dissolved Silver (Ag)	ug/L	<0.45	0.45	<0.090	<0.090	<0.090	0.090	<0.45	0.45	7182014
Dissolved Sodium (Na)	ug/L	330000	500	260000	260000	330000	100	480000	500	7182014
Dissolved Strontium (Sr)	ug/L	5200	5.0	3700	3700	4500	1.0	5200	5.0	7182014
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	<1.0	<1.0	<1.0	1.0	<5.0	5.0	7182014
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	<0.050	<0.050	<0.050	0.050	<0.25	0.25	7182014
Dissolved Tin (Sn)	ug/L	<5.0	5.0	<1.0	<1.0	<1.0	1.0	<5.0	5.0	7182014
Dissolved Titanium (Ti)	ug/L	<25	25	<5.0	<5.0	<5.0	5.0	<25	25	7182014
Dissolved Tungsten (W)	ug/L	<5.0	5.0	<1.0	<1.0	<1.0	1.0	<5.0	5.0	7182014
Dissolved Uranium (U)	ug/L	<0.50	0.50	1.4	1.4	1.5	0.10	<0.50	0.50	7182014
Dissolved Vanadium (V)	ug/L	<2.5	2.5	<0.50	<0.50	<0.50	0.50	<2.5	2.5	7182014
Dissolved Zinc (Zn)	ug/L	<25	25	5.3	5.5	<5.0	5.0	<25	25	7182014
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	<1.0	<1.0	<1.0	1.0	<5.0	5.0	7182014

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSH604		OSH605		OSH606		OSH607			
Sampling Date		2021/01/27		2021/01/27		2021/01/27		2021/01/27			
COC Number		808253-07-01		808253-07-01		808253-07-01		808253-07-01			
	UNITS	29-II	RDL	29-IV	12-I	RDL	QC Batch	12-IV	RDL	QC Batch	
Metals											
Dissolved Aluminum (Al)	ug/L	9.7	4.9	<25	33	25	7182011	6.6	4.9	7182014	
Dissolved Antimony (Sb)	ug/L	2.6	0.50	<2.5	<2.5	2.5	7182011	<0.50	0.50	7182014	
Dissolved Arsenic (As)	ug/L	1.0	1.0	<5.0	<5.0	5.0	7182011	<1.0	1.0	7182014	
Dissolved Barium (Ba)	ug/L	43	2.0	26	23	10	7182011	18	2.0	7182014	
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<2.0	<2.0	2.0	7182011	<0.40	0.40	7182014	
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<5.0	<5.0	5.0	7182011	<1.0	1.0	7182014	
Dissolved Boron (B)	ug/L	440	10	790	1000	50	7182011	540	10	7182014	
Dissolved Cadmium (Cd)	ug/L	0.32	0.090	<0.45	<0.45	0.45	7182011	<0.090	0.090	7182014	
Dissolved Calcium (Ca)	ug/L	280000	200	620000	650000	1000	7182011	320000	200	7182014	
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<25	<25	25	7182011	<5.0	5.0	7182014	
Dissolved Cobalt (Co)	ug/L	1.6	0.50	<2.5	<2.5	2.5	7182011	<0.50	0.50	7182014	
Dissolved Copper (Cu)	ug/L	5.1	0.90	<4.5	<4.5	4.5	7182011	<0.90	0.90	7182014	
Dissolved Iron (Fe)	ug/L	360	100	<500	<500	500	7182011	840	100	7182014	
Dissolved Lead (Pb)	ug/L	1.8	0.50	<2.5	<2.5	2.5	7182011	<0.50	0.50	7182014	
Dissolved Lithium (Li)	ug/L	41	5.0	71	84	25	7182011	84	5.0	7182014	
Dissolved Magnesium (Mg)	ug/L	68000	50	81000	81000	250	7182011	80000	50	7182014	
Dissolved Manganese (Mn)	ug/L	380	2.0	260	200	10	7182011	140	2.0	7182014	
Dissolved Molybdenum (Mo)	ug/L	32	0.50	<2.5	<2.5	2.5	7182011	2.2	0.50	7182014	
Dissolved Nickel (Ni)	ug/L	9.6	1.0	<5.0	<5.0	5.0	7182011	2.3	1.0	7182014	
Dissolved Phosphorus (P)	ug/L	120	100	<500	<500	500	7182011	<100	100	7182014	
Dissolved Potassium (K)	ug/L	28000	200	35000	36000	1000	7182011	21000	200	7182014	
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<10	<10	10	7182011	<2.0	2.0	7182014	
Dissolved Silicon (Si)	ug/L	3100	50	6000	4700	250	7182011	5500	50	7182014	
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.45	<0.45	0.45	7182011	<0.090	0.090	7182014	
Dissolved Sodium (Na)	ug/L	230000	100	460000	470000	500	7182011	270000	100	7182014	
Dissolved Strontium (Sr)	ug/L	2300	1.0	5000	4800	5.0	7182011	3700	1.0	7182014	
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<5.0	<5.0	5.0	7182011	<1.0	1.0	7182014	
Dissolved Thallium (Tl)	ug/L	0.16	0.050	<0.25	<0.25	0.25	7182011	<0.050	0.050	7182014	
Dissolved Tin (Sn)	ug/L	6.3	1.0	<5.0	<5.0	5.0	7182011	<1.0	1.0	7182014	
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<25	<25	25	7182011	<5.0	5.0	7182014	
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<5.0	<5.0	5.0	7182011	<1.0	1.0	7182014	
Dissolved Uranium (U)	ug/L	2.5	0.10	<0.50	<0.50	0.50	7182011	1.4	0.10	7182014	
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<2.5	<2.5	2.5	7182011	<0.50	0.50	7182014	
Dissolved Zinc (Zn)	ug/L	62	5.0	<25	<25	25	7182011	<5.0	5.0	7182014	
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<5.0	<5.0	5.0	7182011	<1.0	1.0	7182014	
RDL = Reportable Detection Limit QC Batch = Quality Control Batch											



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSH608	OSH609		OSH618		OSH619		
Sampling Date		2021/01/27	2021/01/27		2021/01/27		2021/01/27		
COC Number		808253-07-01	808253-07-01		808253-08-01		808253-08-01		
	UNITS	14-I	45-I	QC Batch	45-II	RDL	76-I	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<4.9	<4.9	7182011	23	4.9	<49	49	7182014
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	7182011	<0.50	0.50	<5.0	5.0	7182014
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	7182011	<1.0	1.0	<10	10	7182014
Dissolved Barium (Ba)	ug/L	12	49	7182011	40	2.0	110	20	7182014
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	7182011	<0.40	0.40	<4.0	4.0	7182014
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	7182011	<1.0	1.0	<10	10	7182014
Dissolved Boron (B)	ug/L	120	39	7182011	67	10	7300	100	7182014
Dissolved Cadmium (Cd)	ug/L	0.80	<0.090	7182011	<0.090	0.090	<0.90	0.90	7182014
Dissolved Calcium (Ca)	ug/L	140000	120000	7182011	150000	200	11000000	10000	7182014
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	7182011	<5.0	5.0	<50	50	7182014
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	7182011	<0.50	0.50	<5.0	5.0	7182014
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	7182011	<0.90	0.90	<9.0	9.0	7182014
Dissolved Iron (Fe)	ug/L	<100	<100	7182011	<100	100	<1000	1000	7182014
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	7182011	<0.50	0.50	<5.0	5.0	7182014
Dissolved Lithium (Li)	ug/L	89	29	7182011	40	5.0	21000	250	7182014
Dissolved Magnesium (Mg)	ug/L	120000	37000	7182011	50000	50	2700000	500	7182014
Dissolved Manganese (Mn)	ug/L	7.8	24	7182011	35	2.0	1400	20	7182014
Dissolved Molybdenum (Mo)	ug/L	1.0	<0.50	7182011	<0.50	0.50	<5.0	5.0	7182014
Dissolved Nickel (Ni)	ug/L	2.8	<1.0	7182011	<1.0	1.0	<10	10	7182014
Dissolved Phosphorus (P)	ug/L	<100	<100	7182011	<100	100	<1000	1000	7182014
Dissolved Potassium (K)	ug/L	4200	2700	7182011	6300	200	320000	2000	7182014
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	7182011	<2.0	2.0	<20	20	7182014
Dissolved Silicon (Si)	ug/L	7600	5200	7182011	4500	50	3700	500	7182014
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	7182011	<0.090	0.090	<0.90	0.90	7182014
Dissolved Sodium (Na)	ug/L	33000	18000	7182011	100000	100	18000000	5000	7182014
Dissolved Strontium (Sr)	ug/L	2300	2200	7182011	1100	1.0	220000	10	7182014
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	7182011	<1.0	1.0	<10	10	7182014
Dissolved Thallium (Tl)	ug/L	0.055	<0.050	7182011	<0.050	0.050	<0.50	0.50	7182014
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	7182011	<1.0	1.0	<10	10	7182014
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	7182011	<5.0	5.0	<50	50	7182014
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	7182011	<1.0	1.0	<10	10	7182014
Dissolved Uranium (U)	ug/L	12	0.23	7182011	0.77	0.10	<1.0	1.0	7182014
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	7182011	<0.50	0.50	<5.0	5.0	7182014
Dissolved Zinc (Zn)	ug/L	15	16	7182011	16	5.0	<50	50	7182014
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	7182011	<1.0	1.0	<10	10	7182014
RDL = Reportable Detection Limit QC Batch = Quality Control Batch									



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BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSH620	OSH621		OSH622			OSH623		
Sampling Date		2021/01/27	2021/01/27		2021/01/27			2021/01/27		
COC Number		808253-08-01	808253-08-01		808253-08-01			808253-08-01		
	UNITS	76-II	76-III	RDL	44-I	RDL	QC Batch	44-II	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	4.9	<4.9	4.9	7182011	19	4.9	7182014
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	7182011	<0.50	0.50	7182014
Dissolved Arsenic (As)	ug/L	<1.0	1.2	1.0	<1.0	1.0	7182011	1.5	1.0	7182014
Dissolved Barium (Ba)	ug/L	30	23	2.0	19	2.0	7182011	41	2.0	7182014
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<0.40	0.40	7182011	<0.40	0.40	7182014
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	7182011	<1.0	1.0	7182014
Dissolved Boron (B)	ug/L	76	71	10	230	10	7182011	46	10	7182014
Dissolved Cadmium (Cd)	ug/L	0.34	0.25	0.090	<0.090	0.090	7182011	<0.090	0.090	7182014
Dissolved Calcium (Ca)	ug/L	130000	120000	200	270000	1000	7182011	100000	200	7182014
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	7182011	<5.0	5.0	7182014
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	7182011	<0.50	0.50	7182014
Dissolved Copper (Cu)	ug/L	1.2	<0.90	0.90	<0.90	0.90	7182011	<0.90	0.90	7182014
Dissolved Iron (Fe)	ug/L	<100	<100	100	<100	100	7182011	220	100	7182014
Dissolved Lead (Pb)	ug/L	2.9	1.7	0.50	<0.50	0.50	7182011	<0.50	0.50	7182014
Dissolved Lithium (Li)	ug/L	13	13	5.0	60	5.0	7182011	24	5.0	7182014
Dissolved Magnesium (Mg)	ug/L	36000	32000	50	47000	50	7182011	43000	50	7182014
Dissolved Manganese (Mn)	ug/L	27	38	2.0	40	2.0	7182011	34	2.0	7182014
Dissolved Molybdenum (Mo)	ug/L	0.63	0.66	0.50	<0.50	0.50	7182011	2.3	0.50	7182014
Dissolved Nickel (Ni)	ug/L	3.3	2.8	1.0	<1.0	1.0	7182011	1.3	1.0	7182014
Dissolved Phosphorus (P)	ug/L	<100	<100	100	<100	100	7182011	<100	100	7182014
Dissolved Potassium (K)	ug/L	3400	3200	200	11000	200	7182011	2500	200	7182014
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	<2.0	2.0	7182011	<2.0	2.0	7182014
Dissolved Silicon (Si)	ug/L	4600	4800	50	3600	50	7182011	6700	50	7182014
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	7182011	<0.090	0.090	7182014
Dissolved Sodium (Na)	ug/L	230000	190000	100	230000	100	7182011	27000	100	7182014
Dissolved Strontium (Sr)	ug/L	950	720	1.0	10000	1.0	7182011	1100	1.0	7182014
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	7182011	<1.0	1.0	7182014
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	<0.050	0.050	7182011	<0.050	0.050	7182014
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	7182011	<1.0	1.0	7182014
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	7182011	<5.0	5.0	7182014
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	7182011	<1.0	1.0	7182014
Dissolved Uranium (U)	ug/L	2.5	2.4	0.10	<0.10	0.10	7182011	1.5	0.10	7182014
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	7182011	<0.50	0.50	7182014
Dissolved Zinc (Zn)	ug/L	130	110	5.0	<5.0	5.0	7182011	6.3	5.0	7182014
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	7182011	<1.0	1.0	7182014
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSH624		OSH625			OSH626		
Sampling Date		2021/01/27		2021/01/27			2021/01/27		
COC Number		808253-08-01		808253-08-01			808253-08-01		
	UNITS	49-II	RDL	49-IV	RDL	QC Batch	49-V	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	5.5	4.9	<25	25	7182011	6.2	4.9	7182014
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<2.5	2.5	7182011	<0.50	0.50	7182014
Dissolved Arsenic (As)	ug/L	5.1	1.0	<5.0	5.0	7182011	<1.0	1.0	7182014
Dissolved Barium (Ba)	ug/L	46	2.0	62	10	7182011	33	2.0	7182014
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<2.0	2.0	7182011	<0.40	0.40	7182014
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<5.0	5.0	7182011	<1.0	1.0	7182014
Dissolved Boron (B)	ug/L	62	10	830	50	7182011	620	10	7182014
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.45	0.45	7182011	<0.090	0.090	7182014
Dissolved Calcium (Ca)	ug/L	250000	200	460000	1000	7182011	470000	1000	7182014
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<25	25	7182011	<5.0	5.0	7182014
Dissolved Cobalt (Co)	ug/L	5.5	0.50	<2.5	2.5	7182011	<0.50	0.50	7182014
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<4.5	4.5	7182011	3.9	0.90	7182014
Dissolved Iron (Fe)	ug/L	1800	100	510	500	7182011	<100	100	7182014
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<2.5	2.5	7182011	<0.50	0.50	7182014
Dissolved Lithium (Li)	ug/L	50	5.0	220	25	7182011	200	5.0	7182014
Dissolved Magnesium (Mg)	ug/L	120000	50	190000	250	7182011	220000	50	7182014
Dissolved Manganese (Mn)	ug/L	47	2.0	370	10	7182011	62	2.0	7182014
Dissolved Molybdenum (Mo)	ug/L	11	0.50	<2.5	2.5	7182011	<0.50	0.50	7182014
Dissolved Nickel (Ni)	ug/L	20	1.0	<5.0	5.0	7182011	<1.0	1.0	7182014
Dissolved Phosphorus (P)	ug/L	<100	100	<500	500	7182011	<100	100	7182014
Dissolved Potassium (K)	ug/L	5600	200	13000	1000	7182011	14000	200	7182014
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<10	10	7182011	<2.0	2.0	7182014
Dissolved Silicon (Si)	ug/L	5000	50	9900	250	7182011	8300	50	7182014
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.45	0.45	7182011	<0.090	0.090	7182014
Dissolved Sodium (Na)	ug/L	410000	100	170000	500	7182011	210000	100	7182014
Dissolved Strontium (Sr)	ug/L	3400	1.0	5300	5.0	7182011	6100	1.0	7182014
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<5.0	5.0	7182011	<1.0	1.0	7182014
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.25	0.25	7182011	<0.050	0.050	7182014
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<5.0	5.0	7182011	<1.0	1.0	7182014
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<25	25	7182011	<5.0	5.0	7182014
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<5.0	5.0	7182011	<1.0	1.0	7182014
Dissolved Uranium (U)	ug/L	6.8	0.10	3.4	0.50	7182011	2.1	0.10	7182014
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<2.5	2.5	7182011	0.58	0.50	7182014
Dissolved Zinc (Zn)	ug/L	89	5.0	<25	25	7182011	9.2	5.0	7182014
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<5.0	5.0	7182011	<1.0	1.0	7182014
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



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BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSH627		OSH681	OSH682		OSH683	OSH683		
Sampling Date		2021/01/27		2021/01/27	2021/01/27		2021/01/27	2021/01/27		
COC Number		808253-08-01		808253-09-01	808253-09-01		808253-09-01	808253-09-01		
	UNITS	46-IR	RDL	46-IIR	46-IIIR	RDL	75-I	75-I Lab-Dup	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<25	25	7.7	<4.9	4.9	<25	<25	25	7182011
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	<0.50	<0.50	0.50	<2.5	<2.5	2.5	7182011
Dissolved Arsenic (As)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<5.0	<5.0	5.0	7182011
Dissolved Barium (Ba)	ug/L	18	10	69	23	2.0	11	11	10	7182011
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	<0.40	<0.40	0.40	<2.0	<2.0	2.0	7182011
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<5.0	<5.0	5.0	7182011
Dissolved Boron (B)	ug/L	840	50	240	86	10	1500	1400	50	7182011
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	<0.090	0.17	0.090	<0.45	<0.45	0.45	7182011
Dissolved Calcium (Ca)	ug/L	650000	1000	210000	210000	200	760000	740000	1000	7182011
Dissolved Chromium (Cr)	ug/L	<25	25	<5.0	<5.0	5.0	<25	<25	25	7182011
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	<0.50	<0.50	0.50	<2.5	<2.5	2.5	7182011
Dissolved Copper (Cu)	ug/L	<4.5	4.5	<0.90	2.0	0.90	<4.5	<4.5	4.5	7182011
Dissolved Iron (Fe)	ug/L	<500	500	<100	<100	100	<500	<500	500	7182011
Dissolved Lead (Pb)	ug/L	<2.5	2.5	<0.50	<0.50	0.50	<2.5	<2.5	2.5	7182011
Dissolved Lithium (Li)	ug/L	130	25	32	11	5.0	480	470	25	7182011
Dissolved Magnesium (Mg)	ug/L	73000	250	61000	69000	50	120000	120000	250	7182011
Dissolved Manganese (Mn)	ug/L	110	10	92	15	2.0	100	100	10	7182011
Dissolved Molybdenum (Mo)	ug/L	<2.5	2.5	6.0	2.6	0.50	<2.5	<2.5	2.5	7182011
Dissolved Nickel (Ni)	ug/L	<5.0	5.0	1.1	4.2	1.0	<5.0	<5.0	5.0	7182011
Dissolved Phosphorus (P)	ug/L	<500	500	<100	<100	100	<500	<500	500	7182011
Dissolved Potassium (K)	ug/L	55000	1000	11000	1400	200	31000	31000	1000	7182011
Dissolved Selenium (Se)	ug/L	<10	10	<2.0	<2.0	2.0	<10	<10	10	7182011
Dissolved Silicon (Si)	ug/L	3900	250	5100	4700	50	3500	3400	250	7182011
Dissolved Silver (Ag)	ug/L	<0.45	0.45	<0.090	<0.090	0.090	<0.45	<0.45	0.45	7182011
Dissolved Sodium (Na)	ug/L	810000	500	180000	170000	100	750000	760000	500	7182011
Dissolved Strontium (Sr)	ug/L	8100	5.0	2700	620	1.0	13000	13000	5.0	7182011
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<5.0	<5.0	5.0	7182011
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	<0.050	<0.050	0.050	<0.25	<0.25	0.25	7182011
Dissolved Tin (Sn)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<5.0	<5.0	5.0	7182011
Dissolved Titanium (Ti)	ug/L	<25	25	<5.0	<5.0	5.0	<25	<25	25	7182011
Dissolved Tungsten (W)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<5.0	<5.0	5.0	7182011
Dissolved Uranium (U)	ug/L	<0.50	0.50	2.7	7.3	0.10	<0.50	<0.50	0.50	7182011
Dissolved Vanadium (V)	ug/L	<2.5	2.5	<0.50	<0.50	0.50	<2.5	<2.5	2.5	7182011
Dissolved Zinc (Zn)	ug/L	<25	25	6.7	7.2	5.0	<25	<25	25	7182011
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<5.0	<5.0	5.0	7182011
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



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BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSH684			OSH685			OSH686			OSH687		
Sampling Date		2021/01/27			2021/01/27			2021/01/27			2021/01/27		
COC Number		808253-09-01			808253-09-01			808253-09-01			808253-09-01		
	UNITS	75-II	RDL	QC Batch	75-III	RDL	QC Batch	75-IV	67-I	RDL	QC Batch		
Metals													
Dissolved Aluminum (Al)	ug/L	<25	25	7182011	5.6	4.9	7182014	28	<25	25	7182011		
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	7182011	<0.50	0.50	7182014	<2.5	<2.5	2.5	7182011		
Dissolved Arsenic (As)	ug/L	<5.0	5.0	7182011	<1.0	1.0	7182014	<5.0	<5.0	5.0	7182011		
Dissolved Barium (Ba)	ug/L	25	10	7182011	13	2.0	7182014	17	19	10	7182011		
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	7182011	<0.40	0.40	7182014	<2.0	<2.0	2.0	7182011		
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	7182011	<1.0	1.0	7182014	<5.0	<5.0	5.0	7182011		
Dissolved Boron (B)	ug/L	730	50	7182011	400	10	7182014	240	1000	50	7182011		
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	7182011	<0.090	0.090	7182014	<0.45	<0.45	0.45	7182011		
Dissolved Calcium (Ca)	ug/L	260000	1000	7182011	270000	200	7182014	320000	500000	1000	7182011		
Dissolved Chromium (Cr)	ug/L	<25	25	7182011	<5.0	5.0	7182014	<25	<25	25	7182011		
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	7182011	<0.50	0.50	7182014	<2.5	<2.5	2.5	7182011		
Dissolved Copper (Cu)	ug/L	<4.5	4.5	7182011	<0.90	0.90	7182014	<4.5	<4.5	4.5	7182011		
Dissolved Iron (Fe)	ug/L	<500	500	7182011	210	100	7182014	<500	<500	500	7182011		
Dissolved Lead (Pb)	ug/L	<2.5	2.5	7182011	<0.50	0.50	7182014	<2.5	<2.5	2.5	7182011		
Dissolved Lithium (Li)	ug/L	85	25	7182011	46	5.0	7182014	74	140	25	7182011		
Dissolved Magnesium (Mg)	ug/L	54000	250	7182011	110000	50	7182014	140000	67000	250	7182011		
Dissolved Manganese (Mn)	ug/L	29	10	7182011	59	2.0	7182014	85	45	10	7182011		
Dissolved Molybdenum (Mo)	ug/L	<2.5	2.5	7182011	<0.50	0.50	7182014	<2.5	<2.5	2.5	7182011		
Dissolved Nickel (Ni)	ug/L	<5.0	5.0	7182011	9.6	1.0	7182014	<5.0	<5.0	5.0	7182011		
Dissolved Phosphorus (P)	ug/L	<500	500	7182011	<100	100	7182014	500	<500	500	7182011		
Dissolved Potassium (K)	ug/L	52000	1000	7182011	13000	200	7182014	14000	60000	1000	7182011		
Dissolved Selenium (Se)	ug/L	<10	10	7182011	<2.0	2.0	7182014	<10	<10	10	7182011		
Dissolved Silicon (Si)	ug/L	6800	250	7182011	6800	50	7182014	6700	6500	250	7182011		
Dissolved Silver (Ag)	ug/L	<0.45	0.45	7182011	<0.090	0.090	7182014	<0.45	<0.45	0.45	7182011		
Dissolved Sodium (Na)	ug/L	750000	500	7182011	290000	100	7182014	450000	780000	500	7182011		
Dissolved Strontium (Sr)	ug/L	10000	5.0	7182011	3400	1.0	7182014	8300	8600	5.0	7182011		
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	7182011	<1.0	1.0	7182014	<5.0	<5.0	5.0	7182011		
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	7182011	<0.050	0.050	7182014	<0.25	<0.25	0.25	7182011		
Dissolved Tin (Sn)	ug/L	<5.0	5.0	7182011	<1.0	1.0	7182014	<5.0	<5.0	5.0	7182011		
Dissolved Titanium (Ti)	ug/L	<25	25	7182011	<5.0	5.0	7182014	<25	<25	25	7182011		
Dissolved Tungsten (W)	ug/L	<5.0	5.0	7182011	<1.0	1.0	7182014	53	<5.0	5.0	7182011		
Dissolved Uranium (U)	ug/L	<0.50	0.50	7182011	0.49	0.10	7182014	0.59	<0.50	0.50	7182011		
Dissolved Vanadium (V)	ug/L	<2.5	2.5	7182011	<0.50	0.50	7182014	<2.5	<2.5	2.5	7182011		
Dissolved Zinc (Zn)	ug/L	<25	25	7182011	<5.0	5.0	7182014	<25	<25	25	7182011		
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	7182011	<1.0	1.0	7182014	<5.0	<5.0	5.0	7182011		
RDL = Reportable Detection Limit QC Batch = Quality Control Batch													



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VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSH688	OSH689	OSH690		
Sampling Date		2021/01/27	2021/01/27	2021/01/27		
COC Number		808253-09-01	808253-09-01	808253-09-01		
	UNITS	P15	4-I	2-I	RDL	QC Batch
Metals						
Dissolved Aluminum (Al)	ug/L	680	<25	<25	25	7182011
Dissolved Antimony (Sb)	ug/L	<2.5	<2.5	<2.5	2.5	7182011
Dissolved Arsenic (As)	ug/L	<5.0	<5.0	<5.0	5.0	7182011
Dissolved Barium (Ba)	ug/L	<10	18	11	10	7182011
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	<2.0	2.0	7182011
Dissolved Bismuth (Bi)	ug/L	<5.0	<5.0	<5.0	5.0	7182011
Dissolved Boron (B)	ug/L	520	990	1500	50	7182011
Dissolved Cadmium (Cd)	ug/L	<0.45	<0.45	<0.45	0.45	7182011
Dissolved Calcium (Ca)	ug/L	56000	480000	750000	1000	7182011
Dissolved Chromium (Cr)	ug/L	<25	<25	<25	25	7182011
Dissolved Cobalt (Co)	ug/L	<2.5	<2.5	<2.5	2.5	7182011
Dissolved Copper (Cu)	ug/L	<4.5	<4.5	<4.5	4.5	7182011
Dissolved Iron (Fe)	ug/L	<500	<500	<500	500	7182011
Dissolved Lead (Pb)	ug/L	<2.5	<2.5	<2.5	2.5	7182011
Dissolved Lithium (Li)	ug/L	37	130	480	25	7182011
Dissolved Magnesium (Mg)	ug/L	1400	67000	120000	250	7182011
Dissolved Manganese (Mn)	ug/L	<10	45	100	10	7182011
Dissolved Molybdenum (Mo)	ug/L	38	<2.5	<2.5	2.5	7182011
Dissolved Nickel (Ni)	ug/L	23	<5.0	<5.0	5.0	7182011
Dissolved Phosphorus (P)	ug/L	660	<500	<500	500	7182011
Dissolved Potassium (K)	ug/L	170000	58000	30000	1000	7182011
Dissolved Selenium (Se)	ug/L	<10	<10	<10	10	7182011
Dissolved Silicon (Si)	ug/L	5900	6800	3400	250	7182011
Dissolved Silver (Ag)	ug/L	<0.45	<0.45	<0.45	0.45	7182011
Dissolved Sodium (Na)	ug/L	2200000	760000	740000	500	7182011
Dissolved Strontium (Sr)	ug/L	1400	8100	12000	5.0	7182011
Dissolved Tellurium (Te)	ug/L	<5.0	<5.0	<5.0	5.0	7182011
Dissolved Thallium (Tl)	ug/L	<0.25	<0.25	<0.25	0.25	7182011
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	5.0	7182011
Dissolved Titanium (Ti)	ug/L	<25	<25	<25	25	7182011
Dissolved Tungsten (W)	ug/L	20	<5.0	<5.0	5.0	7182011
Dissolved Uranium (U)	ug/L	<0.50	<0.50	<0.50	0.50	7182011
Dissolved Vanadium (V)	ug/L	<2.5	<2.5	<2.5	2.5	7182011
Dissolved Zinc (Zn)	ug/L	<25	<25	<25	25	7182011
Dissolved Zirconium (Zr)	ug/L	<5.0	<5.0	<5.0	5.0	7182011
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH600
Sample ID: 40-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/03	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH600 Dup
Sample ID: 40-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai

BV Labs ID: OSH601
Sample ID: 40-II
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh



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VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH601 Dup
Sample ID: 40-II
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad

BV Labs ID: OSH602
Sample ID: 40-III
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH603
Sample ID: 29-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/03	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH604
Sample ID: 29-II
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSH605
Sample ID: 29-IV
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH606
Sample ID: 12-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH606
Sample ID: 12-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH607
Sample ID: 12-IV
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSH608
Sample ID: 14-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH608
Sample ID: 14-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH609
Sample ID: 45-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH618
Sample ID: 45-II
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH619
Sample ID: 76-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH620
Sample ID: 76-II
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH621
Sample ID: 76-III
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha



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VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH621
Sample ID: 76-III
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH621 Dup
Sample ID: 76-III
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi

BV Labs ID: OSH622
Sample ID: 44-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSH622 Dup
Sample ID: 44-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH622 Dup
Sample ID: 44-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan

BV Labs ID: OSH623
Sample ID: 44-II
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH624
Sample ID: 49-II
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH624 Dup
Sample ID: 49-II
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu

BV Labs ID: OSH625
Sample ID: 49-IV
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH626
Sample ID: 49-V
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH627
Sample ID: 46-IR
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182334	2021/02/03	2021/02/04	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSH681
Sample ID: 46-IIR
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSH681 Dup
Sample ID: 46-IIR
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH682
Sample ID: 46-IIIR
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSH682 Dup
Sample ID: 46-IIIR
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan

BV Labs ID: OSH683
Sample ID: 75-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH683
Sample ID: 75-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH683 Dup
Sample ID: 75-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH684
Sample ID: 75-II
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSH685
Sample ID: 75-III
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182014	N/A	2021/02/04	Arefa Dabhad
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH685
Sample ID: 75-III
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH686
Sample ID: 75-IV
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh

BV Labs ID: OSH687
Sample ID: 67-I
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182104	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182108	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182109	N/A	2021/02/03	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH688
Sample ID: P15
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182306	N/A	2021/02/03	Surinder Rai
Anions	IC	7182305	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182308	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182309	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182282	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182307	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182020	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7182281	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSH688 Dup
Sample ID: P15
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSH689
Sample ID: 4-1
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/03	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

TEST SUMMARY

BV Labs ID: OSH690
Sample ID: 2-l
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7182067	N/A	2021/02/03	Surinder Rai
Anions	IC	7182066	N/A	2021/02/03	Fari Dehdezi
Conductivity	AT	7182072	N/A	2021/02/03	Surinder Rai
Fluoride	ISE	7182073	2021/02/03	2021/02/03	Surinder Rai
Hardness (calculated as CaCO3)		7173116	N/A	2021/02/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182011	N/A	2021/02/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7182061	N/A	2021/02/03	Chandra Nandlal
pH	AT	7182071	2021/02/03	2021/02/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7182047	N/A	2021/02/03	Bramdeo Motiram
Orthophosphate	KONE	7182051	N/A	2021/02/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7182333	2021/02/03	2021/02/04	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7182126	2021/02/03	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7182127	N/A	2021/02/03	Anna-Kay Gooden

BV Labs ID: OSH690 Dup
Sample ID: 2-l
Matrix: Water

Collected: 2021/01/27
Shipped:
Received: 2021/01/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7182123	N/A	2021/02/03	Alina Dobreanu



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	1.3°C
Package 2	0.3°C
Package 3	2.7°C
Package 4	1.0°C
Package 5	-0.3°C

Anions Analysis: Due to the sample matrix, some of the samples required dilution. Detection limits were adjusted accordingly.

Sample OSH600 [40-I] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample OSH603 [29-I] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample OSH605 [29-IV] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSH606 [12-I] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSH619 [76-I] : Nitrite/Nitrate: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample OSH625 [49-IV] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSH627 [46-IR] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSH683 [75-I] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSH684 [75-II] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSH686 [75-IV] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSH687 [67-I] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSH688 [P15] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSH689 [4-I] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSH690 [2-I] : Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C124617

Report Date: 2021/02/05

QUALITY ASSURANCE REPORT

Terrapure Environmental

Client Project #: GW

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7182011	Dissolved Aluminum (Al)	2021/02/03	110	80 - 120	101	80 - 120	<4.9	ug/L	NC	20		
7182011	Dissolved Antimony (Sb)	2021/02/03	109	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7182011	Dissolved Arsenic (As)	2021/02/03	106	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7182011	Dissolved Barium (Ba)	2021/02/03	105	80 - 120	99	80 - 120	<2.0	ug/L	3.6	20		
7182011	Dissolved Beryllium (Be)	2021/02/03	105	80 - 120	98	80 - 120	<0.40	ug/L	NC	20		
7182011	Dissolved Bismuth (Bi)	2021/02/03	93	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7182011	Dissolved Boron (B)	2021/02/03	NC	80 - 120	96	80 - 120	<10	ug/L	1.5	20		
7182011	Dissolved Cadmium (Cd)	2021/02/03	104	80 - 120	101	80 - 120	<0.090	ug/L	NC	20		
7182011	Dissolved Calcium (Ca)	2021/02/03	NC	80 - 120	101	80 - 120	<200	ug/L	2.6	20		
7182011	Dissolved Chromium (Cr)	2021/02/03	104	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7182011	Dissolved Cobalt (Co)	2021/02/03	104	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7182011	Dissolved Copper (Cu)	2021/02/03	103	80 - 120	100	80 - 120	<0.90	ug/L	NC	20		
7182011	Dissolved Iron (Fe)	2021/02/03	103	80 - 120	99	80 - 120	<100	ug/L	NC	20		
7182011	Dissolved Lead (Pb)	2021/02/03	98	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7182011	Dissolved Lithium (Li)	2021/02/03	NC	80 - 120	105	80 - 120	<5.0	ug/L	2.3	20		
7182011	Dissolved Magnesium (Mg)	2021/02/03	NC	80 - 120	103	80 - 120	<50	ug/L	0.29	20		
7182011	Dissolved Manganese (Mn)	2021/02/03	103	80 - 120	99	80 - 120	<2.0	ug/L	0.64	20		
7182011	Dissolved Molybdenum (Mo)	2021/02/03	110	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7182011	Dissolved Nickel (Ni)	2021/02/03	101	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
7182011	Dissolved Phosphorus (P)	2021/02/03	106	80 - 120	97	80 - 120	<100	ug/L	NC	20		
7182011	Dissolved Potassium (K)	2021/02/03	NC	80 - 120	103	80 - 120	<200	ug/L	0.25	20		
7182011	Dissolved Selenium (Se)	2021/02/03	98	80 - 120	98	80 - 120	<2.0	ug/L	NC	20		
7182011	Dissolved Silicon (Si)	2021/02/03	109	80 - 120	101	80 - 120	<50	ug/L	2.6	20		
7182011	Dissolved Silver (Ag)	2021/02/03	84	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7182011	Dissolved Sodium (Na)	2021/02/03	NC	80 - 120	101	80 - 120	<100	ug/L	0.64	20		
7182011	Dissolved Strontium (Sr)	2021/02/03	NC	80 - 120	97	80 - 120	<1.0	ug/L	0.55	20		
7182011	Dissolved Tellurium (Te)	2021/02/03	89	80 - 120	94	80 - 120	<1.0	ug/L	NC	20		
7182011	Dissolved Thallium (Tl)	2021/02/03	99	80 - 120	99	80 - 120	<0.050	ug/L	NC	20		
7182011	Dissolved Tin (Sn)	2021/02/03	106	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7182011	Dissolved Titanium (Ti)	2021/02/03	104	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
7182011	Dissolved Tungsten (W)	2021/02/03	103	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: GW

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7182011	Dissolved Uranium (U)	2021/02/03	100	80 - 120	98	80 - 120	<0.10	ug/L	NC	20		
7182011	Dissolved Vanadium (V)	2021/02/03	105	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7182011	Dissolved Zinc (Zn)	2021/02/03	101	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7182011	Dissolved Zirconium (Zr)	2021/02/03	110	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7182014	Dissolved Aluminum (Al)	2021/02/04	109	80 - 120	107	80 - 120	<4.9	ug/L	4.3	20		
7182014	Dissolved Antimony (Sb)	2021/02/04	107	80 - 120	107	80 - 120	<0.50	ug/L	NC	20		
7182014	Dissolved Arsenic (As)	2021/02/04	104	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7182014	Dissolved Barium (Ba)	2021/02/04	105	80 - 120	105	80 - 120	<2.0	ug/L	3.8	20		
7182014	Dissolved Beryllium (Be)	2021/02/04	113	80 - 120	102	80 - 120	<0.40	ug/L	NC	20		
7182014	Dissolved Bismuth (Bi)	2021/02/04	95	80 - 120	106	80 - 120	<1.0	ug/L	NC	20		
7182014	Dissolved Boron (B)	2021/02/04	NC	80 - 120	98	80 - 120	<10	ug/L	0.0039	20		
7182014	Dissolved Cadmium (Cd)	2021/02/04	102	80 - 120	104	80 - 120	<0.090	ug/L	NC	20		
7182014	Dissolved Calcium (Ca)	2021/02/04	NC	80 - 120	104	80 - 120	<200	ug/L	2.5	20		
7182014	Dissolved Chromium (Cr)	2021/02/04	100	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
7182014	Dissolved Cobalt (Co)	2021/02/04	103	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7182014	Dissolved Copper (Cu)	2021/02/04	103	80 - 120	101	80 - 120	<0.90	ug/L	NC	20		
7182014	Dissolved Iron (Fe)	2021/02/04	100	80 - 120	98	80 - 120	<100	ug/L	0.033	20		
7182014	Dissolved Lead (Pb)	2021/02/04	99	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7182014	Dissolved Lithium (Li)	2021/02/04	109	80 - 120	104	80 - 120	<5.0	ug/L	1.6	20		
7182014	Dissolved Magnesium (Mg)	2021/02/04	NC	80 - 120	104	80 - 120	<50	ug/L	2.2	20		
7182014	Dissolved Manganese (Mn)	2021/02/04	101	80 - 120	102	80 - 120	<2.0	ug/L	0.11	20		
7182014	Dissolved Molybdenum (Mo)	2021/02/04	104	80 - 120	103	80 - 120	<0.50	ug/L	1.1	20		
7182014	Dissolved Nickel (Ni)	2021/02/04	98	80 - 120	99	80 - 120	<1.0	ug/L	6.2	20		
7182014	Dissolved Phosphorus (P)	2021/02/04	103	80 - 120	115	80 - 120	<100	ug/L	NC	20		
7182014	Dissolved Potassium (K)	2021/02/04	101	80 - 120	106	80 - 120	<200	ug/L	1.5	20		
7182014	Dissolved Selenium (Se)	2021/02/04	107	80 - 120	101	80 - 120	<2.0	ug/L	NC	20		
7182014	Dissolved Silicon (Si)	2021/02/04	109	80 - 120	104	80 - 120	<50	ug/L	5.1	20		
7182014	Dissolved Silver (Ag)	2021/02/04	85	80 - 120	102	80 - 120	<0.090	ug/L	NC	20		
7182014	Dissolved Sodium (Na)	2021/02/04	NC	80 - 120	102	80 - 120	<100	ug/L	2.5	20		
7182014	Dissolved Strontium (Sr)	2021/02/04	NC	80 - 120	102	80 - 120	<1.0	ug/L	0.89	20		
7182014	Dissolved Tellurium (Te)	2021/02/04	100	80 - 120	105	80 - 120	<1.0	ug/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: GW

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7182014	Dissolved Thallium (Tl)	2021/02/04	100	80 - 120	103	80 - 120	<0.050	ug/L	NC	20		
7182014	Dissolved Tin (Sn)	2021/02/04	108	80 - 120	107	80 - 120	<1.0	ug/L	NC	20		
7182014	Dissolved Titanium (Ti)	2021/02/04	106	80 - 120	102	80 - 120	<5.0	ug/L	NC	20		
7182014	Dissolved Tungsten (W)	2021/02/04	106	80 - 120	104	80 - 120	<1.0	ug/L	NC	20		
7182014	Dissolved Uranium (U)	2021/02/04	101	80 - 120	96	80 - 120	<0.10	ug/L	3.2	20		
7182014	Dissolved Vanadium (V)	2021/02/04	103	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7182014	Dissolved Zinc (Zn)	2021/02/04	99	80 - 120	101	80 - 120	<5.0	ug/L	3.8	20		
7182014	Dissolved Zirconium (Zr)	2021/02/04	111	80 - 120	109	80 - 120	<1.0	ug/L	NC	20		
7182020	Phenols-4AAP	2021/02/04	101	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
7182047	Phenols-4AAP	2021/02/03	100	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
7182051	Orthophosphate (P)	2021/02/03	108	75 - 125	100	80 - 120	<0.010	mg/L	1.0	25		
7182061	Nitrate (N)	2021/02/03	99	80 - 120	100	80 - 120	<0.10	mg/L	NC	20		
7182061	Nitrite (N)	2021/02/03	105	80 - 120	106	80 - 120	<0.010	mg/L	NC	20		
7182066	Dissolved Bromide (Br-)	2021/02/03	114	80 - 120	109	80 - 120	<1.0	mg/L	NC	20		
7182066	Dissolved Chloride (Cl-)	2021/02/03	NC	80 - 120	97	70 - 130	<1.0	mg/L	1.1	20		
7182066	Dissolved Sulphate (SO4)	2021/02/03	NC	80 - 120	98	80 - 120	<1.0	mg/L	0.64	20		
7182067	Alkalinity (Total as CaCO3)	2021/02/03			98	85 - 115	<1.0	mg/L	1.9	20		
7182071	pH	2021/02/03			101	98 - 103			0.055	N/A		
7182072	Conductivity	2021/02/03			100	85 - 115	<1.0	umho/cm	0	25		
7182073	Fluoride (F-)	2021/02/03	99	80 - 120	103	80 - 120	<0.10	mg/L	0.93	20		
7182104	Total Ammonia-N	2021/02/04	108	75 - 125	99	80 - 120	<0.050	mg/L	5.6	20		
7182108	Total Kjeldahl Nitrogen (TKN)	2021/02/04	106	80 - 120	101	80 - 120	<0.10	mg/L	9.1	20	102	80 - 120
7182109	Total Organic Carbon (TOC)	2021/02/03	95	80 - 120	98	80 - 120	<0.40	mg/L	0.27	20		
7182123	Total Ammonia-N	2021/02/03	90	75 - 125	99	80 - 120	<0.050	mg/L	0.027	20		
7182126	Total Kjeldahl Nitrogen (TKN)	2021/02/03	NC	80 - 120	100	80 - 120	<0.10	mg/L	5.6	20	102	80 - 120
7182127	Total Organic Carbon (TOC)	2021/02/03	NC	80 - 120	98	80 - 120	<0.40	mg/L	1.5	20		
7182281	Orthophosphate (P)	2021/02/03	100	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
7182282	Nitrate (N)	2021/02/03	100	80 - 120	99	80 - 120	<0.10	mg/L	NC	20		
7182282	Nitrite (N)	2021/02/03	107	80 - 120	107	80 - 120	<0.010	mg/L	NC	20		
7182305	Dissolved Bromide (Br-)	2021/02/03	117	80 - 120	109	80 - 120	<1.0	mg/L	NC	20		
7182305	Dissolved Chloride (Cl-)	2021/02/03	NC	80 - 120	97	70 - 130	<1.0	mg/L	0.20	20		



BUREAU
VERITAS

BV Labs Job #: C124617

Report Date: 2021/02/05

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7182305	Dissolved Sulphate (SO4)	2021/02/03	NC	80 - 120	98	80 - 120	<1.0	mg/L	0.46	20		
7182306	Alkalinity (Total as CaCO3)	2021/02/03			98	85 - 115	<1.0	mg/L	0.60	20		
7182307	pH	2021/02/03			101	98 - 103			0.30	N/A		
7182308	Conductivity	2021/02/03			100	85 - 115	<1.0	umho/cm	0	25		
7182309	Fluoride (F-)	2021/02/03	103	80 - 120	103	80 - 120	<0.10	mg/L	11	20		
7182333	Total Dissolved Solids	2021/02/04					<10	mg/L	0.34	25	98	90 - 110
7182334	Total Dissolved Solids	2021/02/04					<10	mg/L	1.9	25	100	90 - 110

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).



BUREAU
VERITAS

BV Labs Job #: C124617
Report Date: 2021/02/05

Terrapure Environmental
Client Project #: GW

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Anastassia Hamanov, Scientific Specialist

Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

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Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

28-Jan-21 15:15

Jolanta Goralczyk
C124617

INVOICE TO: Company Name: #16786 Terrapure Environmental Attention: Accounting Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5 Tel: (905) 561-0305 Fax: (905) 561-1674 Email: kbailey@terrapureenv.com		REPORT TO: Company Name: Attention: Brad Mullin Address: Tel: (905) 548-5882 Fax: (905) 578-7533 Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		PROJECT INFORMATION: Quotation #: B60569 P.O. #: Project: GW Project Name: URE Site #: ENV-766 Sampled By:		Only: Bottle Order #: 808253 Project Manager: Jolanta Goralczyk
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MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)		Turnaround Time (TAT) Required: Please provide advance notice for rush projects	
Regulation 153 (2011)		Other Regulations		Special Instructions		Field Filtered (please circle): Metals Hg / Cr VI Groundwater List A		Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw		Y	✓	<input checked="" type="checkbox"/> Regular (Standard) TAT	
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw				(will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	<input type="checkbox"/> Municipality				Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____	
<input type="checkbox"/> Table			<input type="checkbox"/> PWQO	<input type="checkbox"/> Reg 406 Table				Rush Confirmation Number: _____ (call lab for #)	
Include Criteria on Certificate of Analysis (Y/N)?									
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix				# of Bottles	Comments
1	40-I	Jan 27 2020	AM	water	Y	✓		6	
2	40-II				Y	✓		6	
3	40-III				Y	✓		6	
4	29-I				Y	✓		6	
5	29-II				Y	✓		6	
6	29-III				Y	✓		6	
7	12-I				Y	✓		6	
8	12-II				Y	✓		6	
9	14-I				Y	✓		6	
10	45-I				Y	✓		6	

CAUTION
Reason: sulphur odor

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only			
<i>[Signature]</i>	21/01/28	AM	<i>[Signature]</i>	21/01/28	15:15		Time Sensitive	Temperature (°C) on Recept	Custody Seal Present	Yes / No
								Refer to ACTR	Intact	Yes / No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.
 * IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.
 ** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client



INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental	Company Name: Brad Mullin	Quotation #: B60569	BV Labs Job #:	Bottle Order #:	808253		
Attention: Accounting	Attention: Brad Mullin	P.O. #:	COC #:		Project Manager: Jolanta Goralczyk		
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address:	Project: <u>GW</u>	COC #:		Project Manager: Jolanta Goralczyk		
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel: (905) 548-5882 Fax: (905) 578-7533	Project Name: <u>GW</u>	COC #:		Project Manager: Jolanta Goralczyk		
Email: kbailey@terrapureenv.com	Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com	Site #:	COC #:		Project Manager: Jolanta Goralczyk		
		Sampled By:	COC #:		Project Manager: Jolanta Goralczyk		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required:			
Regulation 153 (2011)			Other Regulations			Special Instructions	Field Filtered (please circle):											Please provide advance notice for rush projects	
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw		Metal(s) Hg / Cr VI											Regular (Standard) TAT:		
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw													(will be applied if Rush TAT is not specified):		
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____													Standard TAT = 5-7 Working days for most tests.		
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWOO	<input type="checkbox"/> Reg 405 Table _____													Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.		
Include Criteria on Certificate of Analysis (Y/N)?						Other											Job Specific Rush TAT (if applies to entire submission)		
																	Date Required: _____ Time Required: _____		
																	Rush Confirmation Number: _____ (call lab for #)		
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix													# of Bottles	Comments	
1	45-II	Jan 27 2028	AM	water	Y	Y											6		
2	76-I				Y	Y											6		
3	76-II				Y	Y											6		
4	76-III				Y	Y											6		
5	44-I				Y	Y											6		
6	44-II				Y	Y											6		
7	49-II		PM		Y	Y											6		
8	49-IV				Y	Y											6		
9	49-V				Y	Y											6		
10	46-IR				Y	Y											6		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
<i>[Signature]</i>	21/01/28	AM	<i>[Signature]</i>				Time Sensitive	Temperature (°C) on Recept	Custody Seal	Yes	No
			See Page 1						Present		
									Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

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** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client



Bureau Veritas Laboratories
6740 Campbell Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-563-6286 Fax: (905) 817-5777 www.bvlabs.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental		Company Name: Brad Mullin		Quotation #: B60569		BV Labs Job #:	
Attention: Accounting		Attention: Brad Mullin		P.O. #:		Bottle Order #:	
Address: 65 Green Mountain Rd West		Address:		Project: GW		COC #:	
Stoney Creek ON L8J 1X5		Tel: (905) 548-5882 Fax: (905) 578-7533		Project Name: GW		Project Manager:	
Tel: (905) 561-0305 Fax: (905) 561-1674		Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		Site #:		Jolanta Goralczyk	
Email: kbailey@terrapureenv.com				Sampled By:		C#B08253-09-01	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011) <input type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Fine <input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC <input type="checkbox"/> Table _____		Other Regulations <input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Reg 558 <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> MISA Municipality _____ <input type="checkbox"/> PWQO <input type="checkbox"/> Reg 405 Table _____ <input type="checkbox"/> Other _____		Special Instructions 	
--	--	--	--	-------------------------------------	--

Field Filtered (please circle): Metals Hg / Cr VI
Ground water List A1

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals Hg / Cr VI	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	Turnaround Time (TAT) Required: Please provide advance notice for rush projects	# of Bottles	Comments
1	46-IR	Jan 27 2020	PM	water	Y	✓	Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	6	
2	46-IR				Y	✓	Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)	6	
3	75-I				Y	✓		6	
4	75-II				Y	✓		6	
5	75-III				Y	✓		6	
6	75-IV				Y	✓		6	
7	67-I				Y	✓		6	
8	P15				Y	✓		6	
9	4-I				Y	✓		6	
10	2-I				Y	✓		6	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Laboratory Use Only				
<i>[Signature]</i>	2/10/28	Am	<i>[Signature]</i>				Time Sensitive	Temperature (°C) on Recci	Custody Seal Present	Yes	No
									Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

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** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client



Your Project #: GW

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Your C.O.C. #: 808571-10-01, 808571-09-01, 808571-08-01, 808571-11-01

Report Date: 2021/02/09
Report #: R6511702
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C125935

Received: 2021/01/29, 15:20

Sample Matrix: Water
Samples Received: 31

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	31	N/A	2021/02/04	CAM SOP-00448	SM 23 2320 B m
Anions	20	N/A	2021/02/04	CAM SOP-00435	SM 23 4110 B m
Anions	11	N/A	2021/02/05	CAM SOP-00435	SM 23 4110 B m
Conductivity	31	N/A	2021/02/04	CAM SOP-00414	SM 23 2510 m
Fluoride	31	2021/02/04	2021/02/04	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	31	N/A	2021/02/05	CAM SOP 00102/00408/00447	SM 2340 B
Lab Filtered Metals by ICPMS	1	2021/02/04	2021/02/05	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	18	N/A	2021/02/04	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	10	N/A	2021/02/05	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	2	N/A	2021/02/09	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	11	N/A	2021/02/04	CAM SOP-00441	USGS I-2522-90 m
Total Ammonia-N	20	N/A	2021/02/05	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	31	N/A	2021/02/05	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	31	2021/02/04	2021/02/04	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	3	N/A	2021/02/04	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	28	N/A	2021/02/05	CAM SOP-00444	OMOE E3179 m
Orthophosphate	31	N/A	2021/02/04	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	31	2021/02/04	2021/02/05	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	15	2021/02/04	2021/02/04	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	16	2021/02/04	2021/02/05	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	20	N/A	2021/02/04	CAM SOP-00446	SM 23 5310B m
Total Organic Carbon (TOC) (2)	11	N/A	2021/02/05	CAM SOP-00446	SM 23 5310B m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

(2) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



Your Project #: GW

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Your C.O.C. #: 808571-10-01, 808571-09-01, 808571-08-01, 808571-11-01

Report Date: 2021/02/09
Report #: R6511702
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C125935

Received: 2021/01/29, 15:20

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas

09 Feb 2021 14:45:59

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

=====
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BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO554			OSO554			OSO555		
Sampling Date		2021/01/28			2021/01/28			2021/01/28		
COC Number		808571-10-01			808571-10-01			808571-10-01		
	UNITS	33-I	RDL	QC Batch	33-I Lab-Dup	RDL	QC Batch	33-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1200	1.0	7175494				150	1.0	7175494
Inorganics										
Total Ammonia-N	mg/L	3.2	0.050	7184558				<0.050	0.050	7184558
Conductivity	umho/cm	4200	1.0	7184397				520	1.0	7184397
Total Dissolved Solids	mg/L	3050	10	7184681	3080	10	7184681	245	10	7184681
Fluoride (F-)	mg/L	1.5	0.10	7184398				0.35	0.10	7184398
Total Kjeldahl Nitrogen (TKN)	mg/L	3.6	0.10	7184545	3.8	0.10	7184545	0.10	0.10	7184545
Total Organic Carbon (TOC)	mg/L	28	0.40	7184543	29	0.40	7184543	5.4	0.40	7184543
Orthophosphate (P)	mg/L	0.12	0.010	7184387				0.19	0.010	7184387
pH	pH	7.66		7184392				7.96		7184392
Phenols-4AAP	mg/L	<0.0010	0.0010	7184315				<0.0010	0.0010	7184296
Alkalinity (Total as CaCO3)	mg/L	46	1.0	7184391				80	1.0	7184391
Nitrite (N)	mg/L	0.027	0.010	7184389				0.011	0.010	7184389
Dissolved Chloride (Cl-)	mg/L	420	10	7184390				27	1.0	7184390
Nitrate (N)	mg/L	<0.10	0.10	7184389				0.10	0.10	7184389
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7184389				0.11	0.10	7184389
Dissolved Bromide (Br-)	mg/L	<10	10	7184390				<1.0	1.0	7184390
Dissolved Sulphate (SO4)	mg/L	1600	10	7184390				120	1.0	7184390

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO555			OSO556			OSO557		
Sampling Date		2021/01/28			2021/01/28			2021/01/28		
COC Number		808571-10-01			808571-10-01			808571-10-01		
	UNITS	33-II Lab-Dup	RDL	QC Batch	30-II	RDL	QC Batch	58-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				570	1.0	7175494	170	1.0	7175494
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7184558	2.1	0.050	7184558	94	0.50	7184558
Conductivity	umho/cm				2500	1.0	7184397	8400	1.0	7184397
Total Dissolved Solids	mg/L				1820	10	7184681	4840	20	7184681
Fluoride (F-)	mg/L				1.6	0.10	7184398	7.3	0.10	7184398
Total Kjeldahl Nitrogen (TKN)	mg/L				2.5	0.10	7184545	99	2.5	7184545
Total Organic Carbon (TOC)	mg/L				21	0.40	7184543	390	2.0	7184543
Orthophosphate (P)	mg/L				0.011	0.010	7184387	0.51	0.50	7184387
pH	pH				9.64		7184392	11.7		7184392
Phenols-4AAP	mg/L				0.0037	0.0020	7184296	6.6	0.50	7184315
Alkalinity (Total as CaCO3)	mg/L				37	1.0	7184391	920	1.0	7184391
Nitrite (N)	mg/L				0.153	0.010	7184389	<0.010	0.010	7184389
Dissolved Chloride (Cl-)	mg/L				180	5.0	7184390	1700	20	7184390
Nitrate (N)	mg/L				<0.10	0.10	7184389	<0.10	0.10	7184389
Nitrate + Nitrite (N)	mg/L				0.15	0.10	7184389	<0.10	0.10	7184389
Dissolved Bromide (Br-)	mg/L				<5.0	5.0	7184390	<20	20	7184390
Dissolved Sulphate (SO4)	mg/L				900	5.0	7184390	390	20	7184390

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO558			OSO558			OSO559		
Sampling Date		2021/01/28			2021/01/28			2021/01/28		
COC Number		808571-10-01			808571-10-01			808571-10-01		
	UNITS	41-I	RDL	QC Batch	41-I Lab-Dup	RDL	QC Batch	41-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1800	1.0	7175494				570	1.0	7175494
Inorganics										
Total Ammonia-N	mg/L	8.7	0.050	7184558				<0.050	0.050	7184558
Conductivity	umho/cm	4800	1.0	7184397	4800	1.0	7184397	1100	1.0	7184397
Total Dissolved Solids	mg/L	3730	10	7184681				680	10	7184681
Fluoride (F-)	mg/L	0.78	0.10	7184398	0.79	0.10	7184398	0.45	0.10	7184398
Total Kjeldahl Nitrogen (TKN)	mg/L	9.3	1.0	7184545				0.17	0.10	7184545
Total Organic Carbon (TOC)	mg/L	2.9	0.40	7184543				3.0	0.40	7184543
Orthophosphate (P)	mg/L	0.011	0.010	7184387	0.011	0.010	7184387	0.010	0.010	7184387
pH	pH	7.64		7184392	7.63		7184392	7.77		7184392
Phenols-4AAP	mg/L	<0.0010	0.0010	7184296				<0.0010	0.0010	7184296
Alkalinity (Total as CaCO3)	mg/L	230	1.0	7184391	230	1.0	7184391	450	1.0	7184391
Nitrite (N)	mg/L	<0.010	0.010	7184389	<0.010	0.010	7184389	<0.010	0.010	7184389
Dissolved Chloride (Cl-)	mg/L	720	10	7184390	720	10	7184390	41	1.0	7184390
Nitrate (N)	mg/L	<0.10	0.10	7184389	<0.10	0.10	7184389	<0.10	0.10	7184389
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7184389	<0.10	0.10	7184389	<0.10	0.10	7184389
Dissolved Bromide (Br-)	mg/L	<10	10	7184390	<10	10	7184390	<1.0	1.0	7184390
Dissolved Sulphate (SO4)	mg/L	1500	10	7184390	1500	10	7184390	120	1.0	7184390

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



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VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO560			OSO561			OSO562		
Sampling Date		2021/01/28			2021/01/28			2021/01/28		
COC Number		808571-10-01			808571-10-01			808571-10-01		
	UNITS	41-III	RDL	QC Batch	P3-II	RDL	QC Batch	P3-III	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	600	1.0	7175494	540	1.0	7175494	1300	1.0	7175494
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7184558	3.5	0.050	7184558	0.84 (1)	0.050	7184558
Conductivity	umho/cm	1300	1.0	7184397	3100	1.0	7184397	3700	1.0	7184507
Total Dissolved Solids	mg/L	775	10	7184681	1170	10	7184681	2420	10	7184681
Fluoride (F-)	mg/L	0.34	0.10	7184398	1.1	0.10	7184398	0.44	0.10	7184509
Total Kjeldahl Nitrogen (TKN)	mg/L	<0.10	0.10	7184545	3.6	0.10	7184545	0.83 (1)	0.10	7184545
Total Organic Carbon (TOC)	mg/L	3.2	0.40	7184543	9.1	0.40	7184543	4.3	0.40	7184543
Orthophosphate (P)	mg/L	0.011	0.010	7184387	0.013	0.010	7184387	<0.010	0.010	7184469
pH	pH	7.70		7184392	7.97		7184392	7.70		7184506
Phenols-4AAP	mg/L	0.0011	0.0010	7184315	0.027	0.0050	7184296	<0.0010	0.0010	7184296
Alkalinity (Total as CaCO3)	mg/L	450	1.0	7184391	170	1.0	7184391	280	1.0	7184505
Nitrite (N)	mg/L	<0.010	0.010	7184389	<0.010	0.010	7184389	<0.010	0.010	7184503
Dissolved Chloride (Cl-)	mg/L	59	1.0	7184390	570	5.0	7184390	670	5.0	7184504
Nitrate (N)	mg/L	<0.10	0.10	7184389	<0.10	0.10	7184389	<0.10	0.10	7184503
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7184389	<0.10	0.10	7184389	<0.10	0.10	7184503
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7184390	<5.0	5.0	7184390	<5.0	5.0	7184504
Dissolved Sulphate (SO4)	mg/L	160	1.0	7184390	580	5.0	7184390	660	5.0	7184504

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.



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VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO563			OSO572		OSO573		
Sampling Date		2021/01/28			2021/01/28		2021/01/28		
COC Number		808571-10-01			808571-09-01		808571-09-01		
	UNITS	32-II	RDL	QC Batch	62-I	RDL	62-II	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	570	1.0	7175494	2200	1.0	2000	1.0	7175494
Inorganics									
Total Ammonia-N	mg/L	9.1	0.050	7184558	24	0.050	29	0.050	7184558
Conductivity	umho/cm	3500	1.0	7184397	7800	1.0	7500	1.0	7184397
Total Dissolved Solids	mg/L	1110	10	7184681	5540	20	5180	20	7184681
Fluoride (F-)	mg/L	1.4	0.10	7184398	0.98	0.10	1.0	0.10	7184398
Total Kjeldahl Nitrogen (TKN)	mg/L	9.2	1.0	7184545	26	2.0	31	2.0	7184545
Total Organic Carbon (TOC)	mg/L	14	0.40	7184543	3.9	0.40	4.9	0.40	7184543
Orthophosphate (P)	mg/L	<0.010	0.010	7184387	0.011	0.010	<0.50 (1)	0.50	7184387
pH	pH	7.96		7184392	7.54		7.64		7184392
Phenols-4AAP	mg/L	0.065	0.0010	7184315	<0.0010	0.0010	<0.0010	0.0010	7184296
Alkalinity (Total as CaCO3)	mg/L	43	1.0	7184391	180	1.0	170	1.0	7184391
Nitrite (N)	mg/L	0.220	0.010	7184389	<0.010	0.010	<0.010	0.010	7184389
Dissolved Chloride (Cl-)	mg/L	830	5.0	7184390	1600	20	1500	20	7184390
Nitrate (N)	mg/L	0.93	0.10	7184389	<0.10	0.10	<0.10	0.10	7184389
Nitrate + Nitrite (N)	mg/L	1.15	0.10	7184389	<0.10	0.10	<0.10	0.10	7184389
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7184390	<20	20	<20	20	7184390
Dissolved Sulphate (SO4)	mg/L	410	5.0	7184390	1700	20	1600	20	7184390
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
(1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.									



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VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO573			OSO574	OSO575		OSO576		
Sampling Date		2021/01/28			2021/01/28	2021/01/28		2021/01/28		
COC Number		808571-09-01			808571-09-01	808571-09-01		808571-09-01		
	UNITS	62-II Lab-Dup	RDL	QC Batch	62-III	62-IV	RDL	36-IIIR	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				710	490	1.0	1900	1.0	7175494
Inorganics										
Total Ammonia-N	mg/L				0.18	1.1	0.050	3.9	0.050	7184558
Conductivity	umho/cm				1800	1800	1.0	5800	1.0	7184397
Total Dissolved Solids	mg/L				1140	900	10	4470	10	7184681
Fluoride (F-)	mg/L				0.20	0.39	0.10	1.1	0.10	7184398
Total Kjeldahl Nitrogen (TKN)	mg/L				0.31	1.4	0.10	4.4	0.10	7184545
Total Organic Carbon (TOC)	mg/L				2.3	3.7	0.40	2.1	0.40	7184543
Orthophosphate (P)	mg/L				<0.010	0.010	0.010	<0.010	0.010	7184387
pH	pH				7.77	7.98		7.74		7184392
Phenols-4AAP	mg/L	<0.0010	0.0010	7184296	<0.0010	<0.0010	0.0010	<0.0010	0.0010	7184296
Alkalinity (Total as CaCO3)	mg/L				390	180	1.0	240	1.0	7184391
Nitrite (N)	mg/L				<0.010	<0.010	0.010	<0.010	0.010	7184389
Dissolved Chloride (Cl-)	mg/L				180	260	5.0	850	10	7184390
Nitrate (N)	mg/L				<0.10	<0.10	0.10	<0.10	0.10	7184389
Nitrate + Nitrite (N)	mg/L				<0.10	<0.10	0.10	<0.10	0.10	7184389
Dissolved Bromide (Br-)	mg/L				<5.0	<5.0	5.0	<10	10	7184390
Dissolved Sulphate (SO4)	mg/L				280	310	5.0	2000	10	7184390

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO577			OSO578	OSO579		OSO580		
Sampling Date		2021/01/28			2021/01/28	2021/01/28		2021/01/28		
COC Number		808571-09-01			808571-09-01	808571-09-01		808571-09-01		
	UNITS	2-III	RDL	QC Batch	11-III	61-I	QC Batch	61-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1900	1.0	7175494	2000	2000	7175494	1500	1.0	7175494
Inorganics										
Total Ammonia-N	mg/L	33 (1)	0.25	7184558	4.2	4.2	7184558	0.92	0.050	7184558
Conductivity	umho/cm	7500	1.0	7184397	5000	5100	7184397	4100	1.0	7184397
Total Dissolved Solids	mg/L	5170	20	7184681	3960	3950	7184681	3260	10	7184681
Fluoride (F-)	mg/L	1.0	0.10	7184398	0.75	0.74	7184398	0.94	0.10	7184398
Total Kjeldahl Nitrogen (TKN)	mg/L	32 (1)	2.0	7184545	4.8	4.7	7184545	1.2	0.10	7184545
Total Organic Carbon (TOC)	mg/L	5.1	0.40	7184543	2.0	2.1	7184543	1.8	0.40	7184543
Orthophosphate (P)	mg/L	<0.50 (2)	0.50	7184387	0.010	0.011	7184387	<0.010	0.010	7184387
pH	pH	7.51		7184392	7.63	7.65	7184392	7.66		7184392
Phenols-4AAP	mg/L	<0.0010	0.0010	7184315	<0.0010	<0.0010	7184296	<0.0010	0.0010	7184315
Alkalinity (Total as CaCO3)	mg/L	170	1.0	7184391	290	290	7184391	290	1.0	7184391
Nitrite (N)	mg/L	<0.010	0.010	7184389	<0.010	<0.010	7184389	<0.010	0.010	7184389
Dissolved Chloride (Cl-)	mg/L	1500	20	7184390	720	710	7184390	330	10	7184390
Nitrate (N)	mg/L	<0.10	0.10	7184389	<0.10	<0.10	7184389	<0.10	0.10	7184389
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7184389	<0.10	<0.10	7184389	<0.10	0.10	7184389
Dissolved Bromide (Br-)	mg/L	<20	20	7184390	<10	<10	7184390	<10	10	7184390
Dissolved Sulphate (SO4)	mg/L	1600	20	7184390	1600	1600	7184390	1700	10	7184390

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.

(2) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO581			OSO615			OSO615		
Sampling Date		2021/01/28			2021/01/28			2021/01/28		
COC Number		808571-09-01			808571-08-01			808571-08-01		
	UNITS	61-III	RDL	QC Batch	G27	RDL	QC Batch	G27 Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2100	1.0	7175494	710	1.0	7175494			
Inorganics										
Total Ammonia-N	mg/L	2.5	0.050	7184558	<0.050	0.050	7184562			
Conductivity	umho/cm	4700	1.0	7184507	1500	1.0	7184397			
Total Dissolved Solids	mg/L	3610	10	7184681	1010	10	7184687	985	10	7184687
Fluoride (F-)	mg/L	0.73	0.10	7184509	1.3	0.10	7184398			
Total Kjeldahl Nitrogen (TKN)	mg/L	3.0	0.10	7184545	<0.10	0.10	7184555	<0.10	0.10	7184555
Total Organic Carbon (TOC)	mg/L	2.5	0.40	7184543	2.7	0.40	7184535	2.7	0.40	7184535
Orthophosphate (P)	mg/L	0.018	0.010	7184469	0.033	0.010	7184387			
pH	pH	7.61		7184506	8.23		7184392			
Phenols-4AAP	mg/L	<0.0010	0.0010	7184315	<0.0010	0.0010	7184315			
Alkalinity (Total as CaCO3)	mg/L	310	1.0	7184505	300	1.0	7184391			
Nitrite (N)	mg/L	<0.010	0.010	7184503	<0.010	0.010	7184389			
Dissolved Chloride (Cl-)	mg/L	700	10	7184504	130	5.0	7184390			
Nitrate (N)	mg/L	0.22	0.10	7184503	4.42	0.10	7184389			
Nitrate + Nitrite (N)	mg/L	0.22	0.10	7184503	4.42	0.10	7184389			
Dissolved Bromide (Br-)	mg/L	<10	10	7184504	<5.0	5.0	7184390			
Dissolved Sulphate (SO4)	mg/L	1400	10	7184504	300	5.0	7184390			

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO616			OSO616			OSO617		
Sampling Date		2021/01/28			2021/01/28			2021/01/28		
COC Number		808571-08-01			808571-08-01			808571-08-01		
	UNITS	P5-IR	RDL	QC Batch	P5-IR Lab-Dup	RDL	QC Batch	P5-IIR	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1700	1.0	7175494				1700	1.0	7175494
Inorganics										
Total Ammonia-N	mg/L	56	0.25	7184562	56	0.25	7184562	1.9	0.050	7184562
Conductivity	umho/cm	7400	1.0	7184397				3200	1.0	7184507
Total Dissolved Solids	mg/L	5080	20	7184687				2460	10	7184687
Fluoride (F-)	mg/L	1.6	0.10	7184398				0.51	0.10	7184509
Total Kjeldahl Nitrogen (TKN)	mg/L	54 (1)	2.0	7184555				2.2	0.10	7184555
Total Organic Carbon (TOC)	mg/L	11	0.40	7184535				2.3	0.40	7184535
Orthophosphate (P)	mg/L	<0.50 (2)	0.50	7184387				<0.010	0.010	7184469
pH	pH	7.57		7184392				7.68		7184506
Phenols-4AAP	mg/L	0.0092	0.0050	7184296				<0.0010	0.0010	7184296
Alkalinity (Total as CaCO3)	mg/L	60	1.0	7184391				260	1.0	7184505
Nitrite (N)	mg/L	<0.010	0.010	7184389				<0.010	0.010	7184503
Dissolved Chloride (Cl-)	mg/L	1300	20	7184390				290	5.0	7184504
Nitrate (N)	mg/L	<0.10	0.10	7184389				<0.10	0.10	7184503
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7184389				<0.10	0.10	7184503
Dissolved Bromide (Br-)	mg/L	<20	20	7184390				<5.0	5.0	7184504
Dissolved Sulphate (SO4)	mg/L	1900	20	7184390				1300	5.0	7184504

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.
 (2) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO617			OSO618			OSO619		
Sampling Date		2021/01/28			2021/01/28			2021/01/28		
COC Number		808571-08-01			808571-08-01			808571-08-01		
	UNITS	P5-IIR Lab-Dup	RDL	QC Batch	P5-IIIR	RDL	QC Batch	P5-IVR	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				330	1.0	7175494	840	1.0	7175494
Inorganics										
Total Ammonia-N	mg/L				51	0.25	7184562	0.42	0.050	7184562
Conductivity	umho/cm	3200	1.0	7184507	5100	1.0	7184507	1600	1.0	7184507
Total Dissolved Solids	mg/L				2560	10	7184687	1110	10	7184687
Fluoride (F-)	mg/L	0.50	0.10	7184509	2.0	0.10	7184509	0.60	0.10	7184509
Total Kjeldahl Nitrogen (TKN)	mg/L				52	2.0	7184555	0.76	0.10	7184555
Total Organic Carbon (TOC)	mg/L				15	0.40	7184535	9.0	0.40	7184535
Orthophosphate (P)	mg/L	<0.010	0.010	7184469	<0.010	0.010	7184469	<0.10 (1)	0.10	7184469
pH	pH	7.67		7184506	7.79		7184506	7.58		7184506
Phenols-4AAP	mg/L				0.083	0.010	7184296	0.0020	0.0020	7184315
Alkalinity (Total as CaCO3)	mg/L	260	1.0	7184505	140	1.0	7184505	450	1.0	7184505
Nitrite (N)	mg/L	<0.010	0.010	7184503	<0.010	0.010	7184503	<0.010	0.010	7184503
Dissolved Chloride (Cl-)	mg/L	300	5.0	7184504	1200	10	7184504	28	1.0	7184504
Nitrate (N)	mg/L	<0.10	0.10	7184503	<0.10	0.10	7184503	<0.10	0.10	7184503
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7184503	<0.10	0.10	7184503	<0.10	0.10	7184503
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7184504	<10	10	7184504	<1.0	1.0	7184504
Dissolved Sulphate (SO4)	mg/L	1300	5.0	7184504	420	10	7184504	440	1.0	7184504

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO620			OSO621			OSO621		
Sampling Date		2021/01/28			2021/01/28			2021/01/28		
COC Number		808571-08-01			808571-08-01			808571-08-01		
	UNITS	P11-II	RDL	QC Batch	67-II	RDL	QC Batch	67-II Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	720	1.0	7175494	950	1.0	7175494			
Inorganics										
Total Ammonia-N	mg/L	0.62	0.050	7184562	22	0.050	7184562			
Conductivity	umho/cm	1700	1.0	7184507	4200	1.0	7184507			
Total Dissolved Solids	mg/L	1080	10	7184687	2480	10	7184687			
Fluoride (F-)	mg/L	0.46	0.10	7184509	0.97	0.10	7184509			
Total Kjeldahl Nitrogen (TKN)	mg/L	0.76	0.10	7184555	23	1.0	7184555			
Total Organic Carbon (TOC)	mg/L	1.6	0.40	7184535	6.5	0.40	7184535			
Orthophosphate (P)	mg/L	<0.010	0.010	7184469	<0.010	0.010	7184469			
pH	pH	7.81		7184506	7.73		7184506			
Phenols-4AAP	mg/L	<0.0010	0.0010	7184296	0.0015	0.0010	7184315	0.0024	0.0010	7184315
Alkalinity (Total as CaCO3)	mg/L	320	1.0	7184505	300	1.0	7184505			
Nitrite (N)	mg/L	<0.010	0.010	7184503	0.174	0.010	7184503			
Dissolved Chloride (Cl-)	mg/L	200	5.0	7184504	810	10	7184504			
Nitrate (N)	mg/L	<0.10	0.10	7184503	1.08	0.10	7184503			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7184503	1.26	0.10	7184503			
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7184504	<10	10	7184504			
Dissolved Sulphate (SO4)	mg/L	310	5.0	7184504	670	10	7184504			

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



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VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO622		OSO623			OSO624		
Sampling Date		2021/01/28		2021/01/28			2021/01/28		
COC Number		808571-08-01		808571-08-01			808571-08-01		
	UNITS	67-III	RDL	P7-II	RDL	QC Batch	P7-III	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	510	1.0	1200	1.0	7175494	430	1.0	7175494
Inorganics									
Total Ammonia-N	mg/L	7.2	0.050	21	0.050	7184562	47 (1)	0.25	7184562
Conductivity	umho/cm	2300	1.0	4200	1.0	7184507	4400	1.0	7184507
Total Dissolved Solids	mg/L	1270	10	2850	10	7184687	2780	10	7184687
Fluoride (F-)	mg/L	0.99	0.10	0.98	0.10	7184509	1.4	0.10	7184509
Total Kjeldahl Nitrogen (TKN)	mg/L	7.7	1.0	22	1.0	7184555	47 (1)	2.0	7184555
Total Organic Carbon (TOC)	mg/L	5.5	0.40	18	0.40	7184535	16	0.40	7184535
Orthophosphate (P)	mg/L	<0.010	0.010	0.049	0.010	7184469	0.070	0.010	7184469
pH	pH	8.04		8.63		7184506	8.92		7184506
Phenols-4AAP	mg/L	<0.0010	0.0010	0.65	0.050	7184296	0.39	0.020	7184315
Alkalinity (Total as CaCO3)	mg/L	250	1.0	75	1.0	7184505	140	1.0	7184505
Nitrite (N)	mg/L	0.039	0.010	<0.010	0.010	7184503	0.030	0.010	7184503
Dissolved Chloride (Cl-)	mg/L	390	5.0	590	10	7184504	910	10	7184504
Nitrate (N)	mg/L	0.61	0.10	<0.10	0.10	7184503	1.84	0.10	7184503
Nitrate + Nitrite (N)	mg/L	0.65	0.10	<0.10	0.10	7184503	1.87	0.10	7184503
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	<10	10	7184504	<10	10	7184504
Dissolved Sulphate (SO4)	mg/L	320	5.0	1300	10	7184504	610	10	7184504
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
(1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent.									



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VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSO627		
Sampling Date		2021/01/28		
COC Number		808571-11-01		
	UNITS	P7-IV	RDL	QC Batch
Calculated Parameters				
Hardness (CaCO3)	mg/L	120	1.0	7175494
Inorganics				
Total Ammonia-N	mg/L	38	0.25	7184562
Conductivity	umho/cm	1700	1.0	7184507
Total Dissolved Solids	mg/L	975	10	7184687
Fluoride (F-)	mg/L	2.7	0.10	7184509
Total Kjeldahl Nitrogen (TKN)	mg/L	40	2.0	7184555
Total Organic Carbon (TOC)	mg/L	82	0.40	7184535
Orthophosphate (P)	mg/L	<0.50 (1)	0.50	7184469
pH	pH	9.62		7184506
Phenols-4AAP	mg/L	3.0	0.10	7184296
Alkalinity (Total as CaCO3)	mg/L	230	1.0	7184505
Nitrite (N)	mg/L	<0.010	0.010	7184503
Dissolved Chloride (Cl-)	mg/L	150	5.0	7184504
Nitrate (N)	mg/L	<0.10	0.10	7184503
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7184503
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7184504
Dissolved Sulphate (SO4)	mg/L	320	5.0	7184504
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.				



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VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSO554		OSO555	OSO556		OSO557	OSO558		
Sampling Date		2021/01/28		2021/01/28	2021/01/28		2021/01/28	2021/01/28		
COC Number		808571-10-01		808571-10-01	808571-10-01		808571-10-01	808571-10-01		
	UNITS	33-I	RDL	33-II	30-II	RDL	58-I	41-I	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<25	25	10	23	4.9	1000	<25	25	7184237
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	<0.50	<0.50	0.50	12	<2.5	2.5	7184237
Dissolved Arsenic (As)	ug/L	<5.0	5.0	<1.0	3.2	1.0	81	<5.0	5.0	7184237
Dissolved Barium (Ba)	ug/L	100	10	16	41	2.0	38	13	10	7184237
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	<0.40	<0.40	0.40	<2.0	<2.0	2.0	7184237
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<5.0	<5.0	5.0	7184237
Dissolved Boron (B)	ug/L	340	50	29	59	10	480	550	50	7184237
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	0.11	<0.090	0.090	<0.45	<0.45	0.45	7184237
Dissolved Calcium (Ca)	ug/L	430000	1000	48000	230000	200	67000	620000	1000	7184237
Dissolved Chromium (Cr)	ug/L	<25	25	<5.0	<5.0	5.0	<25	<25	25	7184237
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	<0.50	<0.50	0.50	<2.5	<2.5	2.5	7184237
Dissolved Copper (Cu)	ug/L	<4.5	4.5	3.8	2.7	0.90	<4.5	<4.5	4.5	7184237
Dissolved Iron (Fe)	ug/L	510	500	<100	<100	100	<500	<500	500	7184237
Dissolved Lead (Pb)	ug/L	<2.5	2.5	<0.50	<0.50	0.50	13	<2.5	2.5	7184237
Dissolved Lithium (Li)	ug/L	<25	25	<5.0	16	5.0	87	88	25	7184237
Dissolved Magnesium (Mg)	ug/L	21000	250	6900	970	50	<250	62000	250	7184237
Dissolved Manganese (Mn)	ug/L	710	10	<2.0	<2.0	2.0	<10	74	10	7184237
Dissolved Molybdenum (Mo)	ug/L	24	2.5	3.0	61	0.50	900	<2.5	2.5	7184237
Dissolved Nickel (Ni)	ug/L	<5.0	5.0	<1.0	2.8	1.0	170	<5.0	5.0	7184237
Dissolved Phosphorus (P)	ug/L	<500	500	210	<100	100	900	<500	500	7184237
Dissolved Potassium (K)	ug/L	49000	1000	7100	83000	200	410000	22000	1000	7184237
Dissolved Selenium (Se)	ug/L	<10	10	<2.0	<2.0	2.0	<10	<10	10	7184237
Dissolved Silicon (Si)	ug/L	4700	250	3100	6800	50	12000	3900	250	7184237
Dissolved Silver (Ag)	ug/L	<0.45	0.45	<0.090	<0.090	0.090	<0.45	<0.45	0.45	7184237
Dissolved Sodium (Na)	ug/L	400000	500	16000	270000	100	1200000	380000	500	7184237
Dissolved Strontium (Sr)	ug/L	2000	5.0	260	2000	1.0	360	7400	5.0	7184237
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<5.0	<5.0	5.0	7184237
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	<0.050	0.061	0.050	<0.25	<0.25	0.25	7184237
Dissolved Tin (Sn)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<5.0	<5.0	5.0	7184237
Dissolved Titanium (Ti)	ug/L	<25	25	<5.0	<5.0	5.0	<25	<25	25	7184237
Dissolved Tungsten (W)	ug/L	<5.0	5.0	2.1	9.6	1.0	110	<5.0	5.0	7184237
Dissolved Uranium (U)	ug/L	<0.50	0.50	0.41	<0.10	0.10	<0.50	<0.50	0.50	7184237
Dissolved Vanadium (V)	ug/L	<2.5	2.5	1.4	37	0.50	71	<2.5	2.5	7184237
Dissolved Zinc (Zn)	ug/L	<25	25	<5.0	<5.0	5.0	<25	<25	25	7184237
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	<1.0	<1.0	1.0	<5.0	<5.0	5.0	7184237
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSO559	OSO560		OSO561			OSO562		
Sampling Date		2021/01/28	2021/01/28		2021/01/28			2021/01/28		
COC Number		808571-10-01	808571-10-01		808571-10-01			808571-10-01		
	UNITS	41-II	41-III	QC Batch	P3-II	RDL	QC Batch	P3-III	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	23	<4.9	7184237	5.4	4.9	7191403	6.1	4.9	7182245
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	7184237	<0.50	0.50	7191403	0.57	0.50	7182245
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	7184237	1.4	1.0	7191403	<1.0	1.0	7182245
Dissolved Barium (Ba)	ug/L	37	33	7184237	31	2.0	7191403	43	2.0	7182245
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	7184237	<0.40	0.40	7191403	<0.40	0.40	7182245
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	7184237	<1.0	1.0	7191403	<1.0	1.0	7182245
Dissolved Boron (B)	ug/L	130	110	7184237	570	10	7191403	370	10	7182245
Dissolved Cadmium (Cd)	ug/L	<0.090	0.12	7184237	<0.090	0.090	7191403	0.58	0.090	7182245
Dissolved Calcium (Ca)	ug/L	120000	140000	7184237	160000	200	7191403	320000	400	7182245
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	7184237	<5.0	5.0	7191403	<5.0	5.0	7182245
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	7184237	<0.50	0.50	7191403	2.0	0.50	7182245
Dissolved Copper (Cu)	ug/L	1.6	1.7	7184237	<0.90	0.90	7191403	<0.90	0.90	7182245
Dissolved Iron (Fe)	ug/L	<100	<100	7184237	1200	100	7191403	<100	100	7182245
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	7184237	<0.50	0.50	7191403	<0.50	0.50	7182245
Dissolved Lithium (Li)	ug/L	16	<5.0	7184237	37	5.0	7191403	68	5.0	7182245
Dissolved Magnesium (Mg)	ug/L	63000	63000	7184237	38000	50	7191403	110000	50	7182245
Dissolved Manganese (Mn)	ug/L	23	<2.0	7184237	140	2.0	7191403	260	2.0	7182245
Dissolved Molybdenum (Mo)	ug/L	0.69	<0.50	7184237	1.3	0.50	7191403	0.71	0.50	7182245
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	7184237	1.1	1.0	7191403	4.7	1.0	7182245
Dissolved Phosphorus (P)	ug/L	<100	<100	7184237	<100	100	7191403	<100	100	7182245
Dissolved Potassium (K)	ug/L	1400	960	7184237	25000	200	7191403	19000	200	7182245
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	7184237	<2.0	2.0	7191403	<2.0	2.0	7182245
Dissolved Silicon (Si)	ug/L	7000	5100	7184237	9600	50	7191403	5100	50	7182245
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	7184237	<0.090	0.090	7191403	<0.090	0.090	7182245
Dissolved Sodium (Na)	ug/L	34000	46000	7184237	160000	100	7191403	300000	100	7182245
Dissolved Strontium (Sr)	ug/L	960	830	7184237	4800	1.0	7191403	6800	1.0	7182245
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	7184237	<1.0	1.0	7191403	<1.0	1.0	7182245
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	7184237	<0.050	0.050	7191403	<0.050	0.050	7182245
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	7184237	<1.0	1.0	7191403	<1.0	1.0	7182245
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	7184237	<5.0	5.0	7191403	<5.0	5.0	7182245
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	7184237	<1.0	1.0	7191403	<1.0	1.0	7182245
Dissolved Uranium (U)	ug/L	2.5	2.7	7184237	0.17	0.10	7191403	0.19	0.10	7182245
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	7184237	<0.50	0.50	7191403	<0.50	0.50	7182245
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	7184237	<5.0	5.0	7191403	<5.0	5.0	7182245
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	7184237	<1.0	1.0	7191403	<1.0	1.0	7182245
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSO563			OSO572			OSO573			OSO573		
Sampling Date		2021/01/28			2021/01/28			2021/01/28			2021/01/28		
COC Number		808571-10-01			808571-09-01			808571-09-01			808571-09-01		
	UNITS	32-II	RDL	QC Batch	62-I	RDL	QC Batch	62-II	62-II Lab-Dup	RDL	QC Batch		
Metals													
Dissolved Aluminum (Al)	ug/L	240	4.9	7191403	<25	25	7184237	<4.9	<4.9	4.9	7185288		
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7191403	<2.5	2.5	7184237	<0.50	<0.50	0.50	7185288		
Dissolved Arsenic (As)	ug/L	<1.0	1.0	7191403	<5.0	5.0	7184237	<1.0	<1.0	1.0	7185288		
Dissolved Barium (Ba)	ug/L	28	2.0	7191403	14	10	7184237	18	20	2.0	7185288		
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7191403	<2.0	2.0	7184237	<0.40	<0.40	0.40	7185288		
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7191403	<5.0	5.0	7184237	<1.0	<1.0	1.0	7185288		
Dissolved Boron (B)	ug/L	12	10	7191403	1300	50	7184237	1300	1300	10	7185288		
Dissolved Cadmium (Cd)	ug/L	1.5	0.090	7191403	<0.45	0.45	7184237	<0.090	<0.090	0.090	7185288		
Dissolved Calcium (Ca)	ug/L	200000	200	7191403	700000	1000	7184237	650000	670000	1000	7185288		
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7191403	<25	25	7184237	<5.0	<5.0	5.0	7185288		
Dissolved Cobalt (Co)	ug/L	2.2	0.50	7191403	<2.5	2.5	7184237	<0.50	<0.50	0.50	7185288		
Dissolved Copper (Cu)	ug/L	0.97	0.90	7191403	<4.5	4.5	7184237	<0.90	<0.90	0.90	7185288		
Dissolved Iron (Fe)	ug/L	23000	100	7191403	<500	500	7184237	<100	<100	100	7185288		
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7191403	<2.5	2.5	7184237	<0.50	<0.50	0.50	7185288		
Dissolved Lithium (Li)	ug/L	5.5	5.0	7191403	360	25	7184237	270	270	5.0	7185288		
Dissolved Magnesium (Mg)	ug/L	17000	50	7191403	100000	250	7184237	90000	91000	50	7185288		
Dissolved Manganese (Mn)	ug/L	17000	10	7191403	85	10	7184237	65	65	2.0	7185288		
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	7191403	<2.5	2.5	7184237	<0.50	<0.50	0.50	7185288		
Dissolved Nickel (Ni)	ug/L	13	1.0	7191403	<5.0	5.0	7184237	<1.0	<1.0	1.0	7185288		
Dissolved Phosphorus (P)	ug/L	110	100	7191403	<500	500	7184237	<100	<100	100	7185288		
Dissolved Potassium (K)	ug/L	29000	200	7191403	49000	1000	7184237	58000	58000	200	7185288		
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7191403	<10	10	7184237	<2.0	<2.0	2.0	7185288		
Dissolved Silicon (Si)	ug/L	2300	50	7191403	3800	250	7184237	5000	5000	50	7185288		
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7191403	<0.45	0.45	7184237	<0.090	<0.090	0.090	7185288		
Dissolved Sodium (Na)	ug/L	70000	100	7191403	850000	500	7184237	850000	880000	500	7185288		
Dissolved Strontium (Sr)	ug/L	290	1.0	7191403	11000	5.0	7184237	9600	9600	1.0	7185288		
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7191403	<5.0	5.0	7184237	<1.0	<1.0	1.0	7185288		
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7191403	<0.25	0.25	7184237	<0.050	<0.050	0.050	7185288		
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7191403	<5.0	5.0	7184237	<1.0	<1.0	1.0	7185288		
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7191403	<25	25	7184237	<5.0	<5.0	5.0	7185288		
Dissolved Tungsten (W)	ug/L	<1.0	1.0	7191403	<5.0	5.0	7184237	<1.0	<1.0	1.0	7185288		
Dissolved Uranium (U)	ug/L	<0.10	0.10	7191403	<0.50	0.50	7184237	<0.10	<0.10	0.10	7185288		
Dissolved Vanadium (V)	ug/L	<0.50	0.50	7191403	<2.5	2.5	7184237	<0.50	<0.50	0.50	7185288		
Dissolved Zinc (Zn)	ug/L	57	5.0	7191403	<25	25	7184237	<5.0	<5.0	5.0	7185288		
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7191403	<5.0	5.0	7184237	<1.0	<1.0	1.0	7185288		

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSO574		OSO575			OSO576	OSO576		
Sampling Date		2021/01/28		2021/01/28			2021/01/28	2021/01/28		
COC Number		808571-09-01		808571-09-01			808571-09-01	808571-09-01		
	UNITS	62-III	QC Batch	62-IV	RDL	QC Batch	36-IIIR	36-IIIR Lab-Dup	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	7184237	<4.9	4.9	7182245	<25	<25	25	7184237
Dissolved Antimony (Sb)	ug/L	<0.50	7184237	<0.50	0.50	7182245	<2.5	<2.5	2.5	7184237
Dissolved Arsenic (As)	ug/L	<1.0	7184237	<1.0	1.0	7182245	<5.0	<5.0	5.0	7184237
Dissolved Barium (Ba)	ug/L	39	7184237	82	2.0	7182245	<10	<10	10	7184237
Dissolved Beryllium (Be)	ug/L	<0.40	7184237	<0.40	0.40	7182245	<2.0	<2.0	2.0	7184237
Dissolved Bismuth (Bi)	ug/L	<1.0	7184237	<1.0	1.0	7182245	<5.0	<5.0	5.0	7184237
Dissolved Boron (B)	ug/L	75	7184237	90	10	7182245	3800	3700	50	7184237
Dissolved Cadmium (Cd)	ug/L	<0.090	7184237	<0.090	0.090	7182245	<0.45	<0.45	0.45	7184237
Dissolved Calcium (Ca)	ug/L	180000	7184237	130000	200	7182245	600000	600000	1000	7184237
Dissolved Chromium (Cr)	ug/L	<5.0	7184237	<5.0	5.0	7182245	<25	<25	25	7184237
Dissolved Cobalt (Co)	ug/L	0.55	7184237	0.55	0.50	7182245	<2.5	<2.5	2.5	7184237
Dissolved Copper (Cu)	ug/L	<0.90	7184237	1.4	0.90	7182245	<4.5	<4.5	4.5	7184237
Dissolved Iron (Fe)	ug/L	350	7184237	<100	100	7182245	<500	<500	500	7184237
Dissolved Lead (Pb)	ug/L	<0.50	7184237	<0.50	0.50	7182245	<2.5	<2.5	2.5	7184237
Dissolved Lithium (Li)	ug/L	22	7184237	23	5.0	7182245	970	930	25	7184237
Dissolved Magnesium (Mg)	ug/L	65000	7184237	42000	50	7182245	110000	110000	250	7184237
Dissolved Manganese (Mn)	ug/L	100	7184237	95	2.0	7182245	68	67	10	7184237
Dissolved Molybdenum (Mo)	ug/L	0.65	7184237	2.4	0.50	7182245	<2.5	<2.5	2.5	7184237
Dissolved Nickel (Ni)	ug/L	4.1	7184237	1.8	1.0	7182245	<5.0	<5.0	5.0	7184237
Dissolved Phosphorus (P)	ug/L	<100	7184237	<100	100	7182245	<500	<500	500	7184237
Dissolved Potassium (K)	ug/L	3400	7184237	2500	200	7182245	30000	29000	1000	7184237
Dissolved Selenium (Se)	ug/L	<2.0	7184237	<2.0	2.0	7182245	<10	<10	10	7184237
Dissolved Silicon (Si)	ug/L	5800	7184237	4200	50	7182245	3200	3200	250	7184237
Dissolved Silver (Ag)	ug/L	<0.090	7184237	<0.090	0.090	7182245	<0.45	<0.45	0.45	7184237
Dissolved Sodium (Na)	ug/L	110000	7184237	110000	100	7182245	560000	550000	500	7184237
Dissolved Strontium (Sr)	ug/L	900	7184237	840	1.0	7182245	6900	6700	5.0	7184237
Dissolved Tellurium (Te)	ug/L	<1.0	7184237	<1.0	1.0	7182245	<5.0	<5.0	5.0	7184237
Dissolved Thallium (Tl)	ug/L	<0.050	7184237	<0.050	0.050	7182245	<0.25	<0.25	0.25	7184237
Dissolved Tin (Sn)	ug/L	<1.0	7184237	<1.0	1.0	7182245	<5.0	<5.0	5.0	7184237
Dissolved Titanium (Ti)	ug/L	<5.0	7184237	<5.0	5.0	7182245	<25	<25	25	7184237
Dissolved Tungsten (W)	ug/L	<1.0	7184237	<1.0	1.0	7182245	<5.0	<5.0	5.0	7184237
Dissolved Uranium (U)	ug/L	2.2	7184237	1.9	0.10	7182245	15	15	0.50	7184237
Dissolved Vanadium (V)	ug/L	<0.50	7184237	<0.50	0.50	7182245	<2.5	<2.5	2.5	7184237
Dissolved Zinc (Zn)	ug/L	50	7184237	<5.0	5.0	7182245	<25	<25	25	7184237
Dissolved Zirconium (Zr)	ug/L	<1.0	7184237	<1.0	1.0	7182245	<5.0	<5.0	5.0	7184237
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



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VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSO577	OSO578		OSO579	OSO580	OSO581		
Sampling Date		2021/01/28	2021/01/28		2021/01/28	2021/01/28	2021/01/28		
COC Number		808571-09-01	808571-09-01		808571-09-01	808571-09-01	808571-09-01		
	UNITS	2-III	11-III	QC Batch	61-I	61-II	61-III	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<25	45	7182245	<25	27	<25	25	7184237
Dissolved Antimony (Sb)	ug/L	<2.5	<2.5	7182245	<2.5	<2.5	<2.5	2.5	7184237
Dissolved Arsenic (As)	ug/L	<5.0	<5.0	7182245	<5.0	<5.0	<5.0	5.0	7184237
Dissolved Barium (Ba)	ug/L	20	15	7182245	13	14	21	10	7184237
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	7182245	<2.0	<2.0	<2.0	2.0	7184237
Dissolved Bismuth (Bi)	ug/L	<5.0	<5.0	7182245	<5.0	<5.0	<5.0	5.0	7184237
Dissolved Boron (B)	ug/L	1200	1500	7182245	1400	2600	2100	50	7184237
Dissolved Cadmium (Cd)	ug/L	<0.45	<0.45	7182245	<0.45	<0.45	<0.45	0.45	7184237
Dissolved Calcium (Ca)	ug/L	620000	650000	7182245	650000	470000	680000	1000	7184237
Dissolved Chromium (Cr)	ug/L	<25	<25	7182245	<25	<25	<25	25	7184237
Dissolved Cobalt (Co)	ug/L	<2.5	<2.5	7182245	<2.5	<2.5	<2.5	2.5	7184237
Dissolved Copper (Cu)	ug/L	<4.5	<4.5	7182245	<4.5	<4.5	<4.5	4.5	7184237
Dissolved Iron (Fe)	ug/L	<500	<500	7182245	<500	<500	<500	500	7184237
Dissolved Lead (Pb)	ug/L	<2.5	<2.5	7182245	<2.5	<2.5	<2.5	2.5	7184237
Dissolved Lithium (Li)	ug/L	280	230	7182245	240	380	210	25	7184237
Dissolved Magnesium (Mg)	ug/L	87000	100000	7182245	97000	87000	93000	250	7184237
Dissolved Manganese (Mn)	ug/L	59	94	7182245	96	170	72	10	7184237
Dissolved Molybdenum (Mo)	ug/L	<2.5	<2.5	7182245	<2.5	<2.5	<2.5	2.5	7184237
Dissolved Nickel (Ni)	ug/L	<5.0	<5.0	7182245	<5.0	<5.0	<5.0	5.0	7184237
Dissolved Phosphorus (P)	ug/L	<500	<500	7182245	<500	<500	<500	500	7184237
Dissolved Potassium (K)	ug/L	52000	25000	7182245	25000	17000	25000	1000	7184237
Dissolved Selenium (Se)	ug/L	<10	<10	7182245	<10	<10	<10	10	7184237
Dissolved Silicon (Si)	ug/L	4300	3500	7182245	3500	5300	3800	250	7184237
Dissolved Silver (Ag)	ug/L	<0.45	<0.45	7182245	<0.45	<0.45	<0.45	0.45	7184237
Dissolved Sodium (Na)	ug/L	850000	400000	7182245	390000	350000	280000	500	7184237
Dissolved Strontium (Sr)	ug/L	8300	5400	7182245	5600	5900	8500	5.0	7184237
Dissolved Tellurium (Te)	ug/L	<5.0	<5.0	7182245	<5.0	<5.0	<5.0	5.0	7184237
Dissolved Thallium (Tl)	ug/L	<0.25	<0.25	7182245	<0.25	<0.25	<0.25	0.25	7184237
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	7182245	<5.0	<5.0	<5.0	5.0	7184237
Dissolved Titanium (Ti)	ug/L	<25	<25	7182245	<25	<25	<25	25	7184237
Dissolved Tungsten (W)	ug/L	<5.0	<5.0	7182245	<5.0	<5.0	<5.0	5.0	7184237
Dissolved Uranium (U)	ug/L	<0.50	<0.50	7182245	<0.50	<0.50	0.67	0.50	7184237
Dissolved Vanadium (V)	ug/L	<2.5	<2.5	7182245	<2.5	<2.5	<2.5	2.5	7184237
Dissolved Zinc (Zn)	ug/L	<25	<25	7182245	<25	<25	<25	25	7184237
Dissolved Zirconium (Zr)	ug/L	<5.0	<5.0	7182245	<5.0	<5.0	<5.0	5.0	7184237

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



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VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSO615		OSO616		OSO617		OSO618		
Sampling Date		2021/01/28		2021/01/28		2021/01/28		2021/01/28		
COC Number		808571-08-01		808571-08-01		808571-08-01		808571-08-01		
	UNITS	G27	RDL	P5-IR	QC Batch	P5-IIR	QC Batch	P5-IIIR	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	190	4.9	<25	7182245	<25	7184237	<25	25	7182245
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<2.5	7182245	<2.5	7184237	<2.5	2.5	7182245
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<5.0	7182245	<5.0	7184237	<5.0	5.0	7182245
Dissolved Barium (Ba)	ug/L	35	2.0	26	7182245	12	7184237	11	10	7182245
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<2.0	7182245	<2.0	7184237	<2.0	2.0	7182245
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<5.0	7182245	<5.0	7184237	<5.0	5.0	7182245
Dissolved Boron (B)	ug/L	39	10	790	7182245	380	7184237	490	50	7182245
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.45	7182245	<0.45	7184237	<0.45	0.45	7182245
Dissolved Calcium (Ca)	ug/L	120000	200	600000	7182245	530000	7184237	66000	1000	7182245
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<25	7182245	<25	7184237	<25	25	7182245
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<2.5	7182245	<2.5	7184237	<2.5	2.5	7182245
Dissolved Copper (Cu)	ug/L	1.4	0.90	<4.5	7182245	<4.5	7184237	<4.5	4.5	7182245
Dissolved Iron (Fe)	ug/L	230	100	<500	7182245	<500	7184237	<500	500	7182245
Dissolved Lead (Pb)	ug/L	0.63	0.50	<2.5	7182245	<2.5	7184237	<2.5	2.5	7182245
Dissolved Lithium (Li)	ug/L	32	5.0	79	7182245	67	7184237	31	25	7182245
Dissolved Magnesium (Mg)	ug/L	97000	50	48000	7182245	94000	7184237	40000	250	7182245
Dissolved Manganese (Mn)	ug/L	7.5	2.0	44	7182245	59	7184237	<10	10	7182245
Dissolved Molybdenum (Mo)	ug/L	4.0	0.50	<2.5	7182245	<2.5	7184237	16	2.5	7182245
Dissolved Nickel (Ni)	ug/L	1.9	1.0	<5.0	7182245	<5.0	7184237	5.0	5.0	7182245
Dissolved Phosphorus (P)	ug/L	<100	100	<500	7182245	<500	7184237	<500	500	7182245
Dissolved Potassium (K)	ug/L	1500	200	65000	7182245	11000	7184237	45000	1000	7182245
Dissolved Selenium (Se)	ug/L	2.1	2.0	<10	7182245	<10	7184237	<10	10	7182245
Dissolved Silicon (Si)	ug/L	5400	50	5000	7182245	3400	7184237	8900	250	7182245
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.45	7182245	<0.45	7184237	<0.45	0.45	7182245
Dissolved Sodium (Na)	ug/L	55000	100	890000	7182245	97000	7184237	800000	500	7182245
Dissolved Strontium (Sr)	ug/L	1100	1.0	5300	7182245	6200	7184237	2000	5.0	7182245
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<5.0	7182245	<5.0	7184237	<5.0	5.0	7182245
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.25	7182245	<0.25	7184237	<0.25	0.25	7182245
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<5.0	7182245	<5.0	7184237	<5.0	5.0	7182245
Dissolved Titanium (Ti)	ug/L	5.5	5.0	<25	7182245	<25	7184237	<25	25	7182245
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<5.0	7182245	<5.0	7184237	8.3	5.0	7182245
Dissolved Uranium (U)	ug/L	9.6	0.10	<0.50	7182245	<0.50	7184237	<0.50	0.50	7182245
Dissolved Vanadium (V)	ug/L	0.84	0.50	<2.5	7182245	<2.5	7184237	<2.5	2.5	7182245
Dissolved Zinc (Zn)	ug/L	22	5.0	<25	7182245	<25	7184237	<25	25	7182245
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<5.0	7182245	<5.0	7184237	<5.0	5.0	7182245
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSO619		OSO620	OSO621		OSO622	OSO623		
Sampling Date		2021/01/28		2021/01/28	2021/01/28		2021/01/28	2021/01/28		
COC Number		808571-08-01		808571-08-01	808571-08-01		808571-08-01	808571-08-01		
	UNITS	P5-IVR	RDL	P11-II	67-II	QC Batch	67-III	P7-II	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	5.6	4.9	13	<4.9	7184237	<4.9	23	4.9	7182245
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	<0.50	7184237	<0.50	<0.50	0.50	7182245
Dissolved Arsenic (As)	ug/L	2.5	1.0	<1.0	1.3	7184237	<1.0	2.3	1.0	7182245
Dissolved Barium (Ba)	ug/L	54	2.0	10	23	7184237	24	31	2.0	7182245
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	<0.40	7184237	<0.40	<0.40	0.40	7182245
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	<1.0	7184237	<1.0	<1.0	1.0	7182245
Dissolved Boron (B)	ug/L	150	10	360	2100	7184237	550	390	10	7182245
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	<0.090	7184237	<0.090	<0.090	0.090	7182245
Dissolved Calcium (Ca)	ug/L	230000	400	180000	270000	7184237	100000	460000	200	7182245
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	<5.0	7184237	<5.0	<5.0	5.0	7182245
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.73	7184237	<0.50	<0.50	0.50	7182245
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	<0.90	7184237	<0.90	<0.90	0.90	7182245
Dissolved Iron (Fe)	ug/L	6100	100	<100	2300	7184237	<100	<100	100	7182245
Dissolved Lead (Pb)	ug/L	0.61	0.50	<0.50	<0.50	7184237	<0.50	<0.50	0.50	7182245
Dissolved Lithium (Li)	ug/L	8.4	5.0	82	81	7184237	53	38	5.0	7182245
Dissolved Magnesium (Mg)	ug/L	68000	50	65000	64000	7184237	62000	23000	50	7182245
Dissolved Manganese (Mn)	ug/L	420	2.0	29	150	7184237	17	3.7	2.0	7182245
Dissolved Molybdenum (Mo)	ug/L	2.1	0.50	<0.50	4.4	7184237	9.1	26	0.50	7182245
Dissolved Nickel (Ni)	ug/L	2.7	1.0	<1.0	5.3	7184237	2.4	6.5	1.0	7182245
Dissolved Phosphorus (P)	ug/L	<100	100	<100	<100	7184237	<100	110	100	7182245
Dissolved Potassium (K)	ug/L	6900	200	9000	41000	7184237	13000	89000	200	7182245
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	<2.0	7184237	<2.0	<2.0	2.0	7182245
Dissolved Silicon (Si)	ug/L	4200	50	4100	6500	7184237	5800	6600	50	7182245
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	<0.090	7184237	<0.090	<0.090	0.090	7182245
Dissolved Sodium (Na)	ug/L	35000	100	88000	500000	7184237	240000	430000	100	7182245
Dissolved Strontium (Sr)	ug/L	6000	1.0	4800	4900	7184237	1200	4000	1.0	7182245
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	<1.0	7184237	<1.0	<1.0	1.0	7182245
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	<0.050	7184237	<0.050	<0.050	0.050	7182245
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	<1.0	7184237	<1.0	<1.0	1.0	7182245
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	<5.0	7184237	<5.0	<5.0	5.0	7182245
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<1.0	1.3	7184237	2.1	7.0	1.0	7182245
Dissolved Uranium (U)	ug/L	6.8	0.10	<0.10	0.19	7184237	3.0	<0.10	0.10	7182245
Dissolved Vanadium (V)	ug/L	2.6	0.50	<0.50	<0.50	7184237	<0.50	1.0	0.50	7182245
Dissolved Zinc (Zn)	ug/L	57	5.0	<5.0	<5.0	7184237	9.1	<5.0	5.0	7182245
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	<1.0	7184237	<1.0	<1.0	1.0	7182245
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSO624			OSO627		
Sampling Date		2021/01/28			2021/01/28		
COC Number		808571-08-01			808571-11-01		
	UNITS	P7-III	RDL	QC Batch	P7-IV	RDL	QC Batch
Metals							
Dissolved Aluminum (Al)	ug/L	81	25	7182245	98	4.9	7184237
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	7182245	<0.50	0.50	7184237
Dissolved Arsenic (As)	ug/L	<5.0	5.0	7182245	4.1	1.0	7184237
Dissolved Barium (Ba)	ug/L	49	10	7182245	3.2	2.0	7184237
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	7182245	<0.40	0.40	7184237
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	7182245	<1.0	1.0	7184237
Dissolved Boron (B)	ug/L	540	50	7182245	560	10	7184237
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	7182245	<0.090	0.090	7184237
Dissolved Calcium (Ca)	ug/L	140000	1000	7182245	39000	200	7184237
Dissolved Chromium (Cr)	ug/L	<25	25	7182245	<5.0	5.0	7184237
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	7182245	<0.50	0.50	7184237
Dissolved Copper (Cu)	ug/L	<4.5	4.5	7182245	<0.90	0.90	7184237
Dissolved Iron (Fe)	ug/L	<500	500	7182245	<100	100	7184237
Dissolved Lead (Pb)	ug/L	<2.5	2.5	7182245	0.88	0.50	7184237
Dissolved Lithium (Li)	ug/L	48	25	7182245	20	5.0	7184237
Dissolved Magnesium (Mg)	ug/L	17000	250	7182245	5300	50	7184237
Dissolved Manganese (Mn)	ug/L	<10	10	7182245	<2.0	2.0	7184237
Dissolved Molybdenum (Mo)	ug/L	21	2.5	7182245	86	0.50	7184237
Dissolved Nickel (Ni)	ug/L	8.2	5.0	7182245	28	1.0	7184237
Dissolved Phosphorus (P)	ug/L	<500	500	7182245	110	100	7184237
Dissolved Potassium (K)	ug/L	60000	1000	7182245	51000	200	7184237
Dissolved Selenium (Se)	ug/L	<10	10	7182245	2.5	2.0	7184237
Dissolved Silicon (Si)	ug/L	5000	250	7182245	14000	50	7184237
Dissolved Silver (Ag)	ug/L	<0.45	0.45	7182245	<0.090	0.090	7184237
Dissolved Sodium (Na)	ug/L	760000	500	7182245	270000	100	7184237
Dissolved Strontium (Sr)	ug/L	1700	5.0	7182245	650	1.0	7184237
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	7182245	<1.0	1.0	7184237
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	7182245	<0.050	0.050	7184237
Dissolved Tin (Sn)	ug/L	<5.0	5.0	7182245	<1.0	1.0	7184237
Dissolved Titanium (Ti)	ug/L	<25	25	7182245	<5.0	5.0	7184237
Dissolved Tungsten (W)	ug/L	7.4	5.0	7182245	23	1.0	7184237
Dissolved Uranium (U)	ug/L	<0.50	0.50	7182245	<0.10	0.10	7184237
Dissolved Vanadium (V)	ug/L	<2.5	2.5	7182245	3.3	0.50	7184237
Dissolved Zinc (Zn)	ug/L	<25	25	7182245	<5.0	5.0	7184237
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	7182245	<1.0	1.0	7184237
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO554
Sample ID: 33-I
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO554 Dup
Sample ID: 33-I
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO555
Sample ID: 33-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO555 Dup
Sample ID: 33-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu

BV Labs ID: OSO556
Sample ID: 30-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO557
Sample ID: 58-I
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO558
Sample ID: 41-I
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO558 Dup
Sample ID: 41-I
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan

BV Labs ID: OSO559
Sample ID: 41-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO559
Sample ID: 41-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO560
Sample ID: 41-III
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO561
Sample ID: P3-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7191403	N/A	2021/02/09	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO562
Sample ID: P3-III
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182245	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO563
Sample ID: 32-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7191403	N/A	2021/02/09	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO572
Sample ID: 62-I
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO572
Sample ID: 62-I
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO573
Sample ID: 62-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Lab Filtered Metals by ICPMS	ICP/MS	7185288	2021/02/04	2021/02/05	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO573 Dup
Sample ID: 62-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Lab Filtered Metals by ICPMS	ICP/MS	7185288	2021/02/04	2021/02/05	Azita Fazaeli
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/04	Bramdeo Motiram

BV Labs ID: OSO574
Sample ID: 62-III
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO574
Sample ID: 62-III
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO575
Sample ID: 62-IV
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182245	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO576
Sample ID: 36-IIIR
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO576
Sample ID: 36-IIIR
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO576 Dup
Sample ID: 36-IIIR
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha

BV Labs ID: OSO577
Sample ID: 2-III
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182245	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO578
Sample ID: 11-III
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO578
Sample ID: 11-III
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7182245	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO579
Sample ID: 61-I
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO580
Sample ID: 61-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/05	Bramdeo Motiram



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO580
Sample ID: 61-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO581
Sample ID: 61-III
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184558	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184681	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184545	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184543	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSO615
Sample ID: G27
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182245	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO615 Dup
Sample ID: G27
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh

BV Labs ID: OSO616
Sample ID: P5-IR
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184391	N/A	2021/02/04	Surinder Rai
Anions	IC	7184390	N/A	2021/02/04	Fari Dehdezi
Conductivity	AT	7184397	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184398	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182245	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184389	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184392	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184387	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh

BV Labs ID: OSO616 Dup
Sample ID: P5-IR
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu

BV Labs ID: OSO617
Sample ID: P5-IIR
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO617
Sample ID: P5-IIR
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh

BV Labs ID: OSO617 Dup
Sample ID: P5-IIR
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan

BV Labs ID: OSO618
Sample ID: P5-IIIR
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182245	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh

BV Labs ID: OSO619
Sample ID: P5-IVR
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO619
Sample ID: P5-IVR
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh

BV Labs ID: OSO620
Sample ID: P11-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/04	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh

BV Labs ID: OSO621
Sample ID: 67-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO621
Sample ID: 67-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/04	Bramdeo Motiram
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh

BV Labs ID: OSO621 Dup
Sample ID: 67-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/04	Bramdeo Motiram

BV Labs ID: OSO622
Sample ID: 67-III
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182245	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh

BV Labs ID: OSO623
Sample ID: P7-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO623
Sample ID: P7-II
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182245	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh

BV Labs ID: OSO624
Sample ID: P7-III
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7182245	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184315	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh

BV Labs ID: OSO627
Sample ID: P7-IV
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184505	N/A	2021/02/04	Surinder Rai
Anions	IC	7184504	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184507	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184509	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7175494	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184237	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184562	N/A	2021/02/04	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184503	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184506	2021/02/04	2021/02/04	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSO627
Sample ID: P7-IV
Matrix: Water

Collected: 2021/01/28
Shipped:
Received: 2021/01/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7184296	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184469	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184687	2021/02/04	2021/02/05	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7184555	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184535	N/A	2021/02/05	Nimarta Singh



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	0.7°C
Package 2	1.0°C
Package 3	-1.0°C
Package 4	-1.0°C
Package 5	0.0°C

Anions Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample OSO554 [33-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSO556 [30-II] : ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO557 [58-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSO558 [41-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO559 [41-II] : ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO560 [41-III] : ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO561 [P3-II] : ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO562 [P3-III] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO572 [62-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO576 [36-IIIR] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSO577 [2-III] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.
TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO578 [11-III] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO579 [61-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO580 [61-II] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSO581 [61-III] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO616 [P5-IR] : Metals Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.
TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSO617 [P5-IIR] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSO618 [P5-IIIR] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

Sample OSO624 [P7-III] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.
Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C125935

Report Date: 2021/02/09

QUALITY ASSURANCE REPORT

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7182245	Dissolved Aluminum (Al)	2021/02/05	98	80 - 120	95	80 - 120	<4.9	ug/L				
7182245	Dissolved Antimony (Sb)	2021/02/05	104	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7182245	Dissolved Arsenic (As)	2021/02/05	97	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
7182245	Dissolved Barium (Ba)	2021/02/05	98	80 - 120	95	80 - 120	<2.0	ug/L	6.7	20		
7182245	Dissolved Beryllium (Be)	2021/02/05	109	80 - 120	105	80 - 120	<0.40	ug/L	NC	20		
7182245	Dissolved Bismuth (Bi)	2021/02/05	96	80 - 120	98	80 - 120	<1.0	ug/L				
7182245	Dissolved Boron (B)	2021/02/05	NC	80 - 120	98	80 - 120	<10	ug/L	0.29	20		
7182245	Dissolved Cadmium (Cd)	2021/02/05	100	80 - 120	97	80 - 120	<0.090	ug/L	NC	20		
7182245	Dissolved Calcium (Ca)	2021/02/05	NC	80 - 120	92	80 - 120	<200	ug/L				
7182245	Dissolved Chromium (Cr)	2021/02/05	95	80 - 120	94	80 - 120	<5.0	ug/L	NC	20		
7182245	Dissolved Cobalt (Co)	2021/02/05	96	80 - 120	97	80 - 120	<0.50	ug/L	0.13	20		
7182245	Dissolved Copper (Cu)	2021/02/05	96	80 - 120	94	80 - 120	<0.90	ug/L	NC	20		
7182245	Dissolved Iron (Fe)	2021/02/05	95	80 - 120	93	80 - 120	<100	ug/L				
7182245	Dissolved Lead (Pb)	2021/02/05	98	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7182245	Dissolved Lithium (Li)	2021/02/05	107	80 - 120	106	80 - 120	<5.0	ug/L				
7182245	Dissolved Magnesium (Mg)	2021/02/05	NC	80 - 120	93	80 - 120	<50	ug/L				
7182245	Dissolved Manganese (Mn)	2021/02/05	NC	80 - 120	93	80 - 120	<2.0	ug/L				
7182245	Dissolved Molybdenum (Mo)	2021/02/05	105	80 - 120	98	80 - 120	<0.50	ug/L	1.9	20		
7182245	Dissolved Nickel (Ni)	2021/02/05	93	80 - 120	93	80 - 120	<1.0	ug/L	2.1	20		
7182245	Dissolved Phosphorus (P)	2021/02/05	91	80 - 120	101	80 - 120	<100	ug/L				
7182245	Dissolved Potassium (K)	2021/02/05	96	80 - 120	91	80 - 120	<200	ug/L				
7182245	Dissolved Selenium (Se)	2021/02/05	101	80 - 120	98	80 - 120	<2.0	ug/L	NC	20		
7182245	Dissolved Silicon (Si)	2021/02/05	96	80 - 120	92	80 - 120	<50	ug/L				
7182245	Dissolved Silver (Ag)	2021/02/05	96	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		
7182245	Dissolved Sodium (Na)	2021/02/05	NC	80 - 120	92	80 - 120	<100	ug/L	1.2	20		
7182245	Dissolved Strontium (Sr)	2021/02/05	NC	80 - 120	94	80 - 120	<1.0	ug/L				
7182245	Dissolved Tellurium (Te)	2021/02/05	99	80 - 120	96	80 - 120	<1.0	ug/L				
7182245	Dissolved Thallium (Tl)	2021/02/05	99	80 - 120	98	80 - 120	<0.050	ug/L	NC	20		
7182245	Dissolved Tin (Sn)	2021/02/05	103	80 - 120	97	80 - 120	<1.0	ug/L				
7182245	Dissolved Titanium (Ti)	2021/02/05	94	80 - 120	87	80 - 120	<5.0	ug/L				
7182245	Dissolved Tungsten (W)	2021/02/05	105	80 - 120	100	80 - 120	<1.0	ug/L				



BUREAU
VERITAS

BV Labs Job #: C125935

Report Date: 2021/02/09

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7182245	Dissolved Uranium (U)	2021/02/05	99	80 - 120	96	80 - 120	<0.10	ug/L	2.0	20		
7182245	Dissolved Vanadium (V)	2021/02/05	98	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
7182245	Dissolved Zinc (Zn)	2021/02/05	93	80 - 120	95	80 - 120	<5.0	ug/L	NC	20		
7182245	Dissolved Zirconium (Zr)	2021/02/05	523 (1)	80 - 120	98	80 - 120	<1.0	ug/L				
7184237	Dissolved Aluminum (Al)	2021/02/04	98	80 - 120	98	80 - 120	<4.9	ug/L	NC	20		
7184237	Dissolved Antimony (Sb)	2021/02/04	103	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
7184237	Dissolved Arsenic (As)	2021/02/04	99	80 - 120	95	80 - 120	<1.0	ug/L	NC	20		
7184237	Dissolved Barium (Ba)	2021/02/04	98	80 - 120	97	80 - 120	<2.0	ug/L	NC	20		
7184237	Dissolved Beryllium (Be)	2021/02/04	101	80 - 120	100	80 - 120	<0.40	ug/L	NC	20		
7184237	Dissolved Bismuth (Bi)	2021/02/04	94	80 - 120	95	80 - 120	<1.0	ug/L	NC	20		
7184237	Dissolved Boron (B)	2021/02/04	NC	80 - 120	94	80 - 120	<10	ug/L	2.0	20		
7184237	Dissolved Cadmium (Cd)	2021/02/04	99	80 - 120	95	80 - 120	<0.090	ug/L	NC	20		
7184237	Dissolved Calcium (Ca)	2021/02/04	NC	80 - 120	98	80 - 120	<200	ug/L	0.15	20		
7184237	Dissolved Chromium (Cr)	2021/02/04	97	80 - 120	94	80 - 120	<5.0	ug/L	NC	20		
7184237	Dissolved Cobalt (Co)	2021/02/04	99	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
7184237	Dissolved Copper (Cu)	2021/02/04	98	80 - 120	95	80 - 120	<0.90	ug/L	NC	20		
7184237	Dissolved Iron (Fe)	2021/02/04	96	80 - 120	93	80 - 120	<100	ug/L	NC	20		
7184237	Dissolved Lead (Pb)	2021/02/04	99	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
7184237	Dissolved Lithium (Li)	2021/02/04	NC	80 - 120	105	80 - 120	<5.0	ug/L	3.9	20		
7184237	Dissolved Magnesium (Mg)	2021/02/04	NC	80 - 120	94	80 - 120	<50	ug/L	1.9	20		
7184237	Dissolved Manganese (Mn)	2021/02/04	95	80 - 120	95	80 - 120	<2.0	ug/L	1.5	20		
7184237	Dissolved Molybdenum (Mo)	2021/02/04	104	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
7184237	Dissolved Nickel (Ni)	2021/02/04	96	80 - 120	94	80 - 120	<1.0	ug/L	NC	20		
7184237	Dissolved Phosphorus (P)	2021/02/04	97	80 - 120	111	80 - 120	<100	ug/L	NC	20		
7184237	Dissolved Potassium (K)	2021/02/04	NC	80 - 120	94	80 - 120	<200	ug/L	0.94	20		
7184237	Dissolved Selenium (Se)	2021/02/04	99	80 - 120	98	80 - 120	<2.0	ug/L	NC	20		
7184237	Dissolved Silicon (Si)	2021/02/04	100	80 - 120	99	80 - 120	<50	ug/L	0.67	20		
7184237	Dissolved Silver (Ag)	2021/02/04	89	80 - 120	96	80 - 120	<0.090	ug/L	NC	20		
7184237	Dissolved Sodium (Na)	2021/02/04	NC	80 - 120	94	80 - 120	<100	ug/L	1.6	20		
7184237	Dissolved Strontium (Sr)	2021/02/04	NC	80 - 120	94	80 - 120	<1.0	ug/L	2.2	20		
7184237	Dissolved Tellurium (Te)	2021/02/04	90	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: C125935

Report Date: 2021/02/09

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7184237	Dissolved Thallium (Tl)	2021/02/04	99	80 - 120	97	80 - 120	<0.050	ug/L	NC	20		
7184237	Dissolved Tin (Sn)	2021/02/04	105	80 - 120	95	80 - 120	<1.0	ug/L	NC	20		
7184237	Dissolved Titanium (Ti)	2021/02/04	98	80 - 120	94	80 - 120	<5.0	ug/L	NC	20		
7184237	Dissolved Tungsten (W)	2021/02/04	101	80 - 120	95	80 - 120	<1.0	ug/L	NC	20		
7184237	Dissolved Uranium (U)	2021/02/04	100	80 - 120	94	80 - 120	<0.10	ug/L	2.5	20		
7184237	Dissolved Vanadium (V)	2021/02/04	99	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
7184237	Dissolved Zinc (Zn)	2021/02/04	96	80 - 120	93	80 - 120	<5.0	ug/L	NC	20		
7184237	Dissolved Zirconium (Zr)	2021/02/04	104	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
7184296	Phenols-4AAP	2021/02/04	102	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20		
7184315	Phenols-4AAP	2021/02/04	104	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
7184387	Orthophosphate (P)	2021/02/04	97	75 - 125	100	80 - 120	<0.010	mg/L	0.38	25		
7184389	Nitrate (N)	2021/02/05	102	80 - 120	95	80 - 120	<0.10	mg/L	NC	20		
7184389	Nitrite (N)	2021/02/05	109	80 - 120	104	80 - 120	<0.010	mg/L	NC	20		
7184390	Dissolved Bromide (Br-)	2021/02/04	106	80 - 120	106	80 - 120	<1.0	mg/L	NC	20		
7184390	Dissolved Chloride (Cl-)	2021/02/04	NC	80 - 120	93	70 - 130	<1.0	mg/L	0.40	20		
7184390	Dissolved Sulphate (SO4)	2021/02/04	NC	80 - 120	95	80 - 120	<1.0	mg/L	0.75	20		
7184391	Alkalinity (Total as CaCO3)	2021/02/04			99	85 - 115	<1.0	mg/L	0.51	20		
7184392	pH	2021/02/04			102	98 - 103			0.21	N/A		
7184397	Conductivity	2021/02/04			101	85 - 115	<1.0	umho/cm	0.21	25		
7184398	Fluoride (F-)	2021/02/04	96	80 - 120	108	80 - 120	<0.10	mg/L	1.4	20		
7184469	Orthophosphate (P)	2021/02/04	107	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
7184503	Nitrate (N)	2021/02/05	98	80 - 120	96	80 - 120	<0.10	mg/L	NC	20		
7184503	Nitrite (N)	2021/02/05	106	80 - 120	105	80 - 120	<0.010	mg/L	NC	20		
7184504	Dissolved Bromide (Br-)	2021/02/05	109	80 - 120	108	80 - 120	<1.0	mg/L	NC	20		
7184504	Dissolved Chloride (Cl-)	2021/02/05	NC	80 - 120	96	70 - 130	<1.0	mg/L	3.2	20		
7184504	Dissolved Sulphate (SO4)	2021/02/05	NC	80 - 120	97	80 - 120	<1.0	mg/L	3.9	20		
7184505	Alkalinity (Total as CaCO3)	2021/02/04			97	85 - 115	<1.0	mg/L	0.26	20		
7184506	pH	2021/02/04			102	98 - 103			0.16	N/A		
7184507	Conductivity	2021/02/04			101	85 - 115	<1.0	umho/cm	0	25		



BUREAU
VERITAS

BV Labs Job #: C125935

Report Date: 2021/02/09

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7184509	Fluoride (F-)	2021/02/04	102	80 - 120	108	80 - 120	<0.10	mg/L	0.93	20		
7184535	Total Organic Carbon (TOC)	2021/02/05	93	80 - 120	96	80 - 120	<0.40	mg/L	0.22	20		
7184543	Total Organic Carbon (TOC)	2021/02/04	NC	80 - 120	98	80 - 120	<0.40	mg/L	0.91	20		
7184545	Total Kjeldahl Nitrogen (TKN)	2021/02/04	NC	80 - 120	98	80 - 120	<0.10	mg/L	3.8	20	98	80 - 120
7184555	Total Kjeldahl Nitrogen (TKN)	2021/02/04	109	80 - 120	100	80 - 120	<0.10	mg/L	NC	20	100	80 - 120
7184558	Total Ammonia-N	2021/02/05	100	75 - 125	100	80 - 120	<0.050	mg/L	NC	20		
7184562	Total Ammonia-N	2021/02/04	NC	75 - 125	100	80 - 120	<0.050	mg/L	0.22	20		
7184681	Total Dissolved Solids	2021/02/05					<10	mg/L	0.98	25	102	90 - 110
7184687	Total Dissolved Solids	2021/02/05					<10	mg/L	2.0	25	100	90 - 110
7185288	Dissolved Aluminum (Al)	2021/02/05	106	80 - 120	101	80 - 120	<4.9	ug/L	NC	20		
7185288	Dissolved Antimony (Sb)	2021/02/05	105	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7185288	Dissolved Arsenic (As)	2021/02/05	101	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
7185288	Dissolved Barium (Ba)	2021/02/05	98	80 - 120	100	80 - 120	<2.0	ug/L	7.6	20		
7185288	Dissolved Beryllium (Be)	2021/02/05	98	80 - 120	97	80 - 120	<0.40	ug/L	NC	20		
7185288	Dissolved Bismuth (Bi)	2021/02/05	91	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7185288	Dissolved Boron (B)	2021/02/05	NC	80 - 120	99	80 - 120	<10	ug/L	4.2	20		
7185288	Dissolved Cadmium (Cd)	2021/02/05	98	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7185288	Dissolved Calcium (Ca)	2021/02/05	NC	80 - 120	101	80 - 120	<200	ug/L	3.1	20		
7185288	Dissolved Chromium (Cr)	2021/02/05	103	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7185288	Dissolved Cobalt (Co)	2021/02/05	100	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7185288	Dissolved Copper (Cu)	2021/02/05	102	80 - 120	101	80 - 120	<0.90	ug/L	NC	20		
7185288	Dissolved Iron (Fe)	2021/02/05	97	80 - 120	95	80 - 120	<100	ug/L	NC	20		
7185288	Dissolved Lead (Pb)	2021/02/05	93	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
7185288	Dissolved Lithium (Li)	2021/02/05	NC	80 - 120	100	80 - 120	<5.0	ug/L	0.51	20		
7185288	Dissolved Magnesium (Mg)	2021/02/05	NC	80 - 120	96	80 - 120	<50	ug/L	1.1	20		
7185288	Dissolved Manganese (Mn)	2021/02/05	100	80 - 120	99	80 - 120	<2.0	ug/L	0.60	20		
7185288	Dissolved Molybdenum (Mo)	2021/02/05	111	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7185288	Dissolved Nickel (Ni)	2021/02/05	97	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
7185288	Dissolved Phosphorus (P)	2021/02/05	115	80 - 120	115	80 - 120	<100	ug/L	NC	20		
7185288	Dissolved Potassium (K)	2021/02/05	NC	80 - 120	97	80 - 120	<200	ug/L	0.60	20		
7185288	Dissolved Selenium (Se)	2021/02/05	96	80 - 120	98	80 - 120	<2.0	ug/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: C125935
Report Date: 2021/02/09

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7185288	Dissolved Silicon (Si)	2021/02/05	108	80 - 120	101	80 - 120	<50	ug/L	0.21	20		
7185288	Dissolved Silver (Ag)	2021/02/05	87	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
7185288	Dissolved Sodium (Na)	2021/02/05	NC	80 - 120	95	80 - 120	<100	ug/L	3.5	20		
7185288	Dissolved Strontium (Sr)	2021/02/05	NC	80 - 120	99	80 - 120	<1.0	ug/L	0.32	20		
7185288	Dissolved Tellurium (Te)	2021/02/05	92	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7185288	Dissolved Thallium (Tl)	2021/02/05	93	80 - 120	97	80 - 120	<0.050	ug/L	NC	20		
7185288	Dissolved Tin (Sn)	2021/02/05	106	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7185288	Dissolved Titanium (Ti)	2021/02/05	107	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
7185288	Dissolved Tungsten (W)	2021/02/05	104	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7185288	Dissolved Uranium (U)	2021/02/05	104	80 - 120	102	80 - 120	<0.10	ug/L	NC	20		
7185288	Dissolved Vanadium (V)	2021/02/05	105	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7185288	Dissolved Zinc (Zn)	2021/02/05	91	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7185288	Dissolved Zirconium (Zr)	2021/02/05	113	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7191403	Dissolved Aluminum (Al)	2021/02/09	110	80 - 120	104	80 - 120	<4.9	ug/L				
7191403	Dissolved Antimony (Sb)	2021/02/09	109	80 - 120	103	80 - 120	<0.50	ug/L				
7191403	Dissolved Arsenic (As)	2021/02/09	106	80 - 120	99	80 - 120	<1.0	ug/L				
7191403	Dissolved Barium (Ba)	2021/02/09	108	80 - 120	101	80 - 120	<2.0	ug/L				
7191403	Dissolved Beryllium (Be)	2021/02/09	107	80 - 120	98	80 - 120	<0.40	ug/L				
7191403	Dissolved Bismuth (Bi)	2021/02/09	100	80 - 120	95	80 - 120	<1.0	ug/L				
7191403	Dissolved Boron (B)	2021/02/09	105	80 - 120	94	80 - 120	<10	ug/L				
7191403	Dissolved Cadmium (Cd)	2021/02/09	106	80 - 120	100	80 - 120	<0.090	ug/L				
7191403	Dissolved Calcium (Ca)	2021/02/09	NC	80 - 120	102	80 - 120	<200	ug/L				
7191403	Dissolved Chromium (Cr)	2021/02/09	102	80 - 120	95	80 - 120	<5.0	ug/L				
7191403	Dissolved Cobalt (Co)	2021/02/09	104	80 - 120	97	80 - 120	<0.50	ug/L				
7191403	Dissolved Copper (Cu)	2021/02/09	104	80 - 120	101	80 - 120	<0.90	ug/L				
7191403	Dissolved Iron (Fe)	2021/02/09	105	80 - 120	98	80 - 120	<100	ug/L				
7191403	Dissolved Lead (Pb)	2021/02/09	103	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
7191403	Dissolved Lithium (Li)	2021/02/09	112	80 - 120	105	80 - 120	<5.0	ug/L				
7191403	Dissolved Magnesium (Mg)	2021/02/09	107	80 - 120	104	80 - 120	<50	ug/L				
7191403	Dissolved Manganese (Mn)	2021/02/09	NC	80 - 120	100	80 - 120	<2.0	ug/L				
7191403	Dissolved Molybdenum (Mo)	2021/02/09	106	80 - 120	99	80 - 120	<0.50	ug/L				



BUREAU
VERITAS

BV Labs Job #: C125935

Report Date: 2021/02/09

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7191403	Dissolved Nickel (Ni)	2021/02/09	100	80 - 120	93	80 - 120	<1.0	ug/L				
7191403	Dissolved Phosphorus (P)	2021/02/09	121 (1)	80 - 120	122 (1)	80 - 120	<100	ug/L				
7191403	Dissolved Potassium (K)	2021/02/09	111	80 - 120	106	80 - 120	<200	ug/L				
7191403	Dissolved Selenium (Se)	2021/02/09	101	80 - 120	97	80 - 120	<2.0	ug/L				
7191403	Dissolved Silicon (Si)	2021/02/09	112	80 - 120	108	80 - 120	<50	ug/L				
7191403	Dissolved Silver (Ag)	2021/02/09	65 (1)	80 - 120	99	80 - 120	<0.090	ug/L				
7191403	Dissolved Sodium (Na)	2021/02/09	103	80 - 120	102	80 - 120	170, RDL=100 (2)	ug/L				
7191403	Dissolved Strontium (Sr)	2021/02/09	105	80 - 120	99	80 - 120	<1.0	ug/L				
7191403	Dissolved Tellurium (Te)	2021/02/09	108	80 - 120	102	80 - 120	<1.0	ug/L				
7191403	Dissolved Thallium (Tl)	2021/02/09	102	80 - 120	98	80 - 120	<0.050	ug/L				
7191403	Dissolved Tin (Sn)	2021/02/09	109	80 - 120	102	80 - 120	<1.0	ug/L				
7191403	Dissolved Titanium (Ti)	2021/02/09	104	80 - 120	99	80 - 120	<5.0	ug/L				
7191403	Dissolved Tungsten (W)	2021/02/09	103	80 - 120	96	80 - 120	<1.0	ug/L				
7191403	Dissolved Uranium (U)	2021/02/09	103	80 - 120	97	80 - 120	<0.10	ug/L				
7191403	Dissolved Vanadium (V)	2021/02/09	106	80 - 120	98	80 - 120	<0.50	ug/L				
7191403	Dissolved Zinc (Zn)	2021/02/09	103	80 - 120	95	80 - 120	<5.0	ug/L				



BUREAU
VERITAS

BV Labs Job #: C125935

Report Date: 2021/02/09

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7191403	Dissolved Zirconium (Zr)	2021/02/09	110	80 - 120	102	80 - 120	<1.0	ug/L				

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Analyte was detected in the method blank at a level marginally above the detection limit. Sample results have not been blank corrected. Those results at or near the detection limit may be biased high..



BUREAU
VERITAS

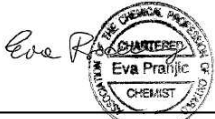
BV Labs Job #: C125935
Report Date: 2021/02/09

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Anastassia Hamanov, Scientific Specialist



Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

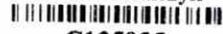
BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.


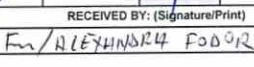


INVOICE TO: Company Name: #16786 Terrapure Environmental Attention: Accounting Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5 Tel: (905) 561-0305 Fax: (905) 561-1674 Email: kbailey@terrapureenv.com		REPORT TO: Company Name: Brad Mullin - GHD Reporting Attention: <u>Brad Mullin - GHD Reporting</u> Address: _____ Tel: _____ Fax: _____ Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		PROJECT INFORMATION: Quotation #: B60569 P.O. #: _____ Project: GW Project Name: <u>SCW</u> Site #: _____ Sampled By: _____		Laboratory Use Only: BV Labs Job #: _____ Bottle Order #:  808571 COC #: _____ Project Manager: Jolanta Goralczyk  C#808571-10-01	
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MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects			
Regulation 153 (2011)		Other Regulations		Special Instructions		Field Filtered (please circle): Metals / Hg / Cr VI	List "A" GW Monitoring											Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
Table 1	Res/Park	Medium/Fine	CCME	Sanitary Sewer Bylaw				<input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Reg 558 <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC <input type="checkbox"/> MISA Municipality _____ <input type="checkbox"/> Table _____ <input type="checkbox"/> PWQO <input type="checkbox"/> Reg 406 Table _____ <input type="checkbox"/> Other _____										Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)	
Include Criteria on Certificate of Analysis (Y/N)?																			
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix													# of Bottles	Comments	
1	33-I	21/01/28	AM	GW	Y	✓											6		
2	33-II			GW	Y	✓											6		
3	30-II			GW	Y	✓											6		
4	58-I			GW	Y	✓											6		
5	41-I			GW	Y	✓											6		
6	41-II			GW	Y	✓											6		
7	41-III			GW	Y	✓											6		
8	P3-II			GW	Y	✓											6		
9	P3-III			GW	Y	✓											6		
10	32-II			GW	Y	✓											6		

CAUTION
Reason: Sulphur smell

29-Jan-21 15:20
Jolanta Goralczyk

C125935
ATM env-1305

* RELINQUISHED BY: (Signature/Print)		Date: YY/MM/DD	Time	RECEIVED BY: (Signature/Print)	Date: YY/MM/DD	Time	# jars used and not submitted	Laboratory Use Only	
		21/01/29	AM		20/01/29	15:20		Time Sensitive	Temperature (°C) on Receipt
									See ACTR
								Custody Seal Present	Yes No
								Intact	Yes No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.
 * IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.
 ** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.



INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental		Company Name: Brad Mullin - GHD Reporting		Quotation #: B60569		BV Labs Job #:	
Attention: Accounting		Attention: Brad Mullin - GHD Reporting		P.O. #:		Bottle Order #:	
Address: 65 Green Mountain Rd West		Address: Stoney Creek ON L8J 1X5		Project: GW		COC #:	
Tel: (905) 561-0305 Fax: (905) 561-1674		Tel: Fax:		Project Name: GW		Project Manager:	
Email: kbailey@terrapureenv.com		Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		Site #:		Jolanta Goralczyk	
				Sampled By:		C#808571-09-01	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects			
Regulation 153 (2011) <input type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Fine <input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC <input type="checkbox"/> Table _____		Other Regulations <input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Reg 558 <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> MISA Municipality _____ <input type="checkbox"/> PWQO <input type="checkbox"/> Reg 406 Table _____ <input type="checkbox"/> Other _____		Special Instructions		Field Filtered (please circle): Metals / Hg / Cr / V	List "A" GW Monitoring											Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
Include Criteria on Certificate of Analysis (Y/N)? _____								Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)											
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix													# of Bottles	Comments	
1	G2-I	2/10/28	AM	GW	Y			✓									6		
2	G2-II			GW	Y			✓									6		
3	G2-III			GW	Y			✓									6		
4	G2-IV			GW	Y			✓									6		
5	36-III R			GW	Y			✓									6		
6	2-III			GW	Y			✓									6		
7	11-III			GW	Y			✓									6		
8	G1-I			GW	Y	✓									6				
9	G1-II			GW	Y	✓									6				
10	G1-III			GW	Y	✓									6				

* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only		
		2/10/28	AM					Time Sensitive	Temperature (°C) on Recl	Custody Seal Present
										Intact
										Yes No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client



Your Project #: GW
 Your C.O.C. #: 808571-13-01, 808571-14-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
 65 Green Mountain Rd West
 Stoney Creek, ON
 CANADA L8J 1X5

Report Date: 2021/02/08
 Report #: R6510812
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C127406
Received: 2021/02/01, 15:15

Sample Matrix: Water
 # Samples Received: 20

Analyses	Quantity	Date	Date	Laboratory Method	Analytical Method
		Extracted	Analyzed		
Alkalinity	20	N/A	2021/02/04	CAM SOP-00448	SM 23 2320 B m
Anions	20	N/A	2021/02/05	CAM SOP-00435	SM 23 4110 B m
Conductivity	20	N/A	2021/02/04	CAM SOP-00414	SM 23 2510 m
Fluoride	20	2021/02/04	2021/02/04	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	20	N/A	2021/02/05	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	14	N/A	2021/02/04	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	6	N/A	2021/02/05	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	20	N/A	2021/02/05	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	20	N/A	2021/02/05	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	20	2021/02/04	2021/02/04	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	20	N/A	2021/02/05	CAM SOP-00444	OMOE E3179 m
Orthophosphate	20	N/A	2021/02/04	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	20	2021/02/04	2021/02/05	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	11	2021/02/04	2021/02/05	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	9	2021/02/04	2021/02/08	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	15	N/A	2021/02/04	CAM SOP-00446	SM 23 5310B m
Total Organic Carbon (TOC) (2)	5	N/A	2021/02/05	CAM SOP-00446	SM 23 5310B m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

(2) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



Your Project #: GW
Your C.O.C. #: 808571-13-01, 808571-14-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/02/08
Report #: R6510812
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C127406

Received: 2021/02/01, 15:15

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
08 Feb 2021 18:15:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

=====
This report has been generated and distributed using a secure automated process.
BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSX497			OSX497			OSX498		
Sampling Date		2021/01/29			2021/01/29			2021/01/29		
COC Number		808571-13-01			808571-13-01			808571-13-01		
	UNITS	M4	RDL	QC Batch	M4 Lab-Dup	RDL	QC Batch	L1	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1300	1.0	7178317				1900	1.0	7178317
Inorganics										
Total Ammonia-N	mg/L	13	0.050	7184652				16	0.050	7184652
Conductivity	umho/cm	4300	1.0	7184311				5900	1.0	7184311
Total Dissolved Solids	mg/L	3050	10	7184659	3080	10	7184659	4380	20	7184659
Fluoride (F-)	mg/L	1.3	0.10	7184313				0.85	0.10	7184313
Total Kjeldahl Nitrogen (TKN)	mg/L	14	0.50	7184647	14	0.50	7184647	17	0.50	7184647
Total Organic Carbon (TOC)	mg/L	5.3	0.40	7184628	5.2	0.40	7184628	4.0	0.40	7184628
Orthophosphate (P)	mg/L	<0.010	0.010	7184302				0.015	0.010	7184302
pH	pH	7.79		7184310				7.69		7184310
Phenols-4AAP	mg/L	<0.0010	0.0010	7184298				<0.0010	0.0010	7184298
Alkalinity (Total as CaCO3)	mg/L	180	1.0	7184309				250	1.0	7184309
Nitrite (N)	mg/L	0.039	0.010	7184306				<0.010	0.010	7184306
Dissolved Chloride (Cl-)	mg/L	1000	10	7184307				1000	5.0	7184307
Nitrate (N)	mg/L	0.85	0.10	7184306				<0.10	0.10	7184306
Nitrate + Nitrite (N)	mg/L	0.89	0.10	7184306				<0.10	0.10	7184306
Dissolved Bromide (Br-)	mg/L	<10	10	7184307				<5.0	5.0	7184307
Dissolved Sulphate (SO4)	mg/L	1600	10	7184307				1600	5.0	7184307

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSX498			OSX499		OSX500		
Sampling Date		2021/01/29			2021/01/29		2021/01/29		
COC Number		808571-13-01			808571-13-01		808571-13-01		
	UNITS	L1 Lab-Dup	RDL	QC Batch	CW16	RDL	CW5R	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO ₃)	mg/L				930	1.0	150	1.0	7178317
Inorganics									
Total Ammonia-N	mg/L	16	0.050	7184652	2.0	0.050	140	0.50	7184652
Conductivity	umho/cm				2000	1.0	9700	1.0	7184311
Total Dissolved Solids	mg/L				1460	10	5240	20	7184659
Fluoride (F ⁻)	mg/L				1.3	0.10	3.1	0.10	7184313
Total Kjeldahl Nitrogen (TKN)	mg/L				2.4	0.10	150	5.0	7184647
Total Organic Carbon (TOC)	mg/L				6.3	0.40	35	0.40	7184628
Orthophosphate (P)	mg/L				<0.010	0.010	<0.50 (1)	0.50	7184302
pH	pH				7.82		9.30		7184310
Phenols-4AAP	mg/L				<0.0010	0.0010	0.76	0.020	7184298
Alkalinity (Total as CaCO ₃)	mg/L				220	1.0	340	1.0	7184309
Nitrite (N)	mg/L				<0.010	0.010	<0.010	0.010	7184306
Dissolved Chloride (Cl ⁻)	mg/L				130	5.0	2800	50	7184307
Nitrate (N)	mg/L				<0.10	0.10	<0.10	0.10	7184306
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	<0.10	0.10	7184306
Dissolved Bromide (Br ⁻)	mg/L				<5.0	5.0	<50	50	7184307
Dissolved Sulphate (SO ₄)	mg/L				680	5.0	230	50	7184307
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.									



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSX501		OSX502	OSX503			OSX503		
Sampling Date		2021/01/29		2021/01/29	2021/01/29			2021/01/29		
COC Number		808571-13-01		808571-13-01	808571-13-01			808571-13-01		
	UNITS	60-I	RDL	60-II	60-III	RDL	QC Batch	60-III Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1500	1.0	1100	1200	1.0	7178317			
Inorganics										
Total Ammonia-N	mg/L	5.3	0.050	2.5	0.54	0.050	7184652			
Conductivity	umho/cm	5800	1.0	3000	2700	1.0	7184311	2800	1.0	7184311
Total Dissolved Solids	mg/L	3920	20	2130	2050	10	7184659			
Fluoride (F-)	mg/L	0.67	0.10	1.0	0.70	0.10	7184313	0.65	0.10	7184313
Total Kjeldahl Nitrogen (TKN)	mg/L	6.1	0.20	2.9	0.87	0.10	7184647			
Total Organic Carbon (TOC)	mg/L	8.7	0.40	3.0	6.0	0.40	7184628			
Orthophosphate (P)	mg/L	<0.010	0.010	0.012	0.010	0.010	7184302	0.010	0.010	7184302
pH	pH	7.76		7.84	7.62		7184310	7.59		7184310
Phenols-4AAP	mg/L	<0.0010	0.0010	<0.0010	<0.0010	0.0010	7184298			
Alkalinity (Total as CaCO3)	mg/L	160	1.0	230	420	1.0	7184309	430	1.0	7184309
Nitrite (N)	mg/L	<0.010	0.010	<0.010	0.056	0.010	7184306	0.055	0.010	7184306
Dissolved Chloride (Cl-)	mg/L	1400	10	380	210	5.0	7184307	210	5.0	7184307
Nitrate (N)	mg/L	<0.10	0.10	<0.10	1.12	0.10	7184306	1.12	0.10	7184306
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	<0.10	1.18	0.10	7184306	1.17	0.10	7184306
Dissolved Bromide (Br-)	mg/L	<10	10	<5.0	<5.0	5.0	7184307	<5.0	5.0	7184307
Dissolved Sulphate (SO4)	mg/L	940	10	850	850	5.0	7184307	850	5.0	7184307

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSX504		OSX505	OSX506			OSX506		
Sampling Date		2021/01/29		2021/01/29	2021/01/29			2021/01/29		
COC Number		808571-13-01		808571-13-01	808571-13-01			808571-13-01		
	UNITS	60-IV	RDL	51-IV	12-II	RDL	QC Batch	12-II Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2100	1.0	1800	1800	1.0	7178317			
Inorganics										
Total Ammonia-N	mg/L	7.6	0.050	4.4	4.4	0.050	7184652			
Conductivity	umho/cm	6800	1.0	4200	4200	1.0	7184311			
Total Dissolved Solids	mg/L	4940	20	3460	3530	10	7184659			
Fluoride (F-)	mg/L	0.96	0.10	1.1	1.1	0.10	7184313			
Total Kjeldahl Nitrogen (TKN)	mg/L	8.3	0.20	5.0	5.0	0.10	7184647			
Total Organic Carbon (TOC)	mg/L	3.5	0.40	2.1	2.0	0.40	7184628			
Orthophosphate (P)	mg/L	<0.010	0.010	0.011	0.010	0.010	7184302			
pH	pH	7.56		7.71	7.64		7184310			
Phenols-4AAP	mg/L	<0.0010	0.0010	<0.0010	<0.0010	0.0010	7184298	<0.0010	0.0010	7184298
Alkalinity (Total as CaCO3)	mg/L	180	1.0	310	310	1.0	7184309			
Nitrite (N)	mg/L	<0.010	0.010	<0.010	<0.010	0.010	7184306			
Dissolved Chloride (Cl-)	mg/L	1300	10	380	380	10	7184307			
Nitrate (N)	mg/L	<0.10	0.10	<0.10	<0.10	0.10	7184306			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	<0.10	<0.10	0.10	7184306			
Dissolved Bromide (Br-)	mg/L	<10	10	<10	<10	10	7184307			
Dissolved Sulphate (SO4)	mg/L	1700	10	1700	1700	10	7184307			

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSX507		OSX508	OSX509		OSX510		
Sampling Date		2021/01/29		2021/01/29	2021/01/29		2021/01/29		
COC Number		808571-14-01		808571-14-01	808571-14-01		808571-14-01		
	UNITS	47-I	RDL	47-II	47-III	RDL	11-I	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	1800	1.0	740	1200	1.0	2700	1.0	7178317
Inorganics									
Total Ammonia-N	mg/L	5.0	0.050	0.089	1.3	0.050	2.9	0.050	7184652
Conductivity	umho/cm	4100	1.0	1600	2600	1.0	7300	1.0	7184311
Total Dissolved Solids	mg/L	3260	10	1130	2030	10	5510	20	7184659
Fluoride (F-)	mg/L	0.94	0.10	0.61	0.67	0.10	0.79	0.10	7184313
Total Kjeldahl Nitrogen (TKN)	mg/L	5.7	0.20	0.30	1.5	0.10	3.4	0.10	7184647
Total Organic Carbon (TOC)	mg/L	2.9	0.40	4.1	3.8	0.40	1.6	0.40	7184628
Orthophosphate (P)	mg/L	<0.010	0.010	0.011	0.011	0.010	<0.010	0.010	7184302
pH	pH	7.70		7.77	7.72		7.55		7184310
Phenols-4AAP	mg/L	<0.0010	0.0010	<0.0010	<0.0010	0.0010	<0.0010	0.0010	7184298
Alkalinity (Total as CaCO3)	mg/L	230	1.0	280	350	1.0	310	1.0	7184309
Nitrite (N)	mg/L	<0.010	0.010	<0.010	<0.010	0.010	<0.010	0.010	7184306
Dissolved Chloride (Cl-)	mg/L	420	10	86	190	5.0	1500	10	7184307
Nitrate (N)	mg/L	<0.10	0.10	<0.10	<0.10	0.10	<0.10	0.10	7184306
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	<0.10	<0.10	0.10	<0.10	0.10	7184306
Dissolved Bromide (Br-)	mg/L	<10	10	<5.0	<5.0	5.0	18	10	7184307
Dissolved Sulphate (SO4)	mg/L	1600	10	490	860	5.0	1600	10	7184307
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSX511		OSX512		OSX513		OSX514		
Sampling Date		2021/01/29		2021/01/29		2021/01/29		2021/01/29		
COC Number		808571-14-01		808571-14-01		808571-14-01		808571-14-01		
	UNITS	11-II	RDL	48-I	RDL	48-II	RDL	48-IV	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO ₃)	mg/L	2100	1.0	2600	1.0	1700	1.0	860	1.0	7178317
Inorganics										
Total Ammonia-N	mg/L	7.6	0.050	2.9	0.050	1.0	0.050	<0.050	0.050	7184652
Conductivity	umho/cm	6800	1.0	7300	1.0	4100	1.0	1600	1.0	7184311
Total Dissolved Solids	mg/L	4990	20	5470	20	3240	10	1170	10	7184659
Fluoride (F ⁻)	mg/L	0.96	0.10	0.80	0.10	0.77	0.10	0.49	0.10	7184313
Total Kjeldahl Nitrogen (TKN)	mg/L	8.7	0.50	3.6	0.20	1.3	0.10	<0.10	0.10	7184647
Total Organic Carbon (TOC)	mg/L	3.4	0.40	1.5	0.40	2.5	0.40	2.6	0.40	7184628
Orthophosphate (P)	mg/L	<0.010	0.010	<0.010	0.010	0.018	0.010	<0.010	0.010	7184302
pH	pH	7.61		7.65		7.72		7.84		7184310
Phenols-4AAP	mg/L	<0.0010	0.0010	<0.0010	0.0010	<0.0010	0.0010	<0.0010	0.0010	7184298
Alkalinity (Total as CaCO ₃)	mg/L	180	1.0	310	1.0	330	1.0	300	1.0	7184309
Nitrite (N)	mg/L	<0.010	0.010	<0.010	0.010	<0.010	0.010	<0.010	0.010	7184306
Dissolved Chloride (Cl ⁻)	mg/L	1300	10	1500	10	470	10	79	5.0	7184307
Nitrate (N)	mg/L	<0.10	0.10	<0.10	0.10	<0.10	0.10	0.43	0.10	7184306
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	<0.10	0.10	<0.10	0.10	0.43	0.10	7184306
Dissolved Bromide (Br ⁻)	mg/L	<10	10	17	10	<10	10	<5.0	5.0	7184307
Dissolved Sulphate (SO ₄)	mg/L	1700	10	1600	10	1400	10	500	5.0	7184307
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OSX515			OSX516		
Sampling Date		2021/01/29			2021/01/29		
COC Number		808571-14-01			808571-14-01		
	UNITS	48-V	RDL	QC Batch	3-I	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO ₃)	mg/L	1700	1.0	7178317	740	1.0	7179137
Inorganics							
Total Ammonia-N	mg/L	0.75	0.050	7184652	0.10	0.050	7184652
Conductivity	umho/cm	4300	1.0	7184311	1600	1.0	7184311
Total Dissolved Solids	mg/L	3230	10	7184659	1100	10	7184659
Fluoride (F ⁻)	mg/L	0.72	0.10	7184313	0.60	0.10	7184313
Total Kjeldahl Nitrogen (TKN)	mg/L	1.1	0.10	7184647	0.24	0.10	7184647
Total Organic Carbon (TOC)	mg/L	2.9	0.40	7184628	4.2	0.40	7184628
Orthophosphate (P)	mg/L	<0.010	0.010	7184302	0.012	0.010	7184302
pH	pH	7.77		7184310	7.82		7184310
Phenols-4AAP	mg/L	<0.0010	0.0010	7184298	<0.0010	0.0010	7184298
Alkalinity (Total as CaCO ₃)	mg/L	340	1.0	7184309	280	1.0	7184309
Nitrite (N)	mg/L	<0.010	0.010	7184306	<0.010	0.010	7184306
Dissolved Chloride (Cl ⁻)	mg/L	540	10	7184307	84	5.0	7184307
Nitrate (N)	mg/L	<0.10	0.10	7184306	<0.10	0.10	7184306
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7184306	<0.10	0.10	7184306
Dissolved Bromide (Br ⁻)	mg/L	<10	10	7184307	<5.0	5.0	7184307
Dissolved Sulphate (SO ₄)	mg/L	1300	10	7184307	480	5.0	7184307
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



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VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSX497	OSX498		OSX499		OSX500	OSX501		
Sampling Date		2021/01/29	2021/01/29		2021/01/29		2021/01/29	2021/01/29		
COC Number		808571-13-01	808571-13-01		808571-13-01		808571-13-01	808571-13-01		
	UNITS	M4	L1	RDL	CW16	RDL	CW5R	60-I	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	76	<25	25	10	4.9	59	<25	25	7184239
Dissolved Antimony (Sb)	ug/L	<2.5	<2.5	2.5	<0.50	0.50	<2.5	<2.5	2.5	7184239
Dissolved Arsenic (As)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<5.0	<5.0	5.0	7184239
Dissolved Barium (Ba)	ug/L	23	15	10	23	2.0	11	24	10	7184239
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	2.0	<0.40	0.40	<2.0	<2.0	2.0	7184239
Dissolved Bismuth (Bi)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<5.0	<5.0	5.0	7184239
Dissolved Boron (B)	ug/L	660	720	50	340	10	530	560	50	7184239
Dissolved Cadmium (Cd)	ug/L	<0.45	<0.45	0.45	<0.090	0.090	<0.45	<0.45	0.45	7184239
Dissolved Calcium (Ca)	ug/L	390000	660000	1000	200000	200	34000	440000	1000	7184239
Dissolved Chromium (Cr)	ug/L	<25	<25	25	<5.0	5.0	<25	<25	25	7184239
Dissolved Cobalt (Co)	ug/L	<2.5	<2.5	2.5	<0.50	0.50	<2.5	<2.5	2.5	7184239
Dissolved Copper (Cu)	ug/L	<4.5	<4.5	4.5	<0.90	0.90	<4.5	<4.5	4.5	7184239
Dissolved Iron (Fe)	ug/L	<500	<500	500	330	100	<500	<500	500	7184239
Dissolved Lead (Pb)	ug/L	<2.5	<2.5	2.5	<0.50	0.50	<2.5	<2.5	2.5	7184239
Dissolved Lithium (Li)	ug/L	66	150	25	26	5.0	29	75	25	7184239
Dissolved Magnesium (Mg)	ug/L	75000	71000	250	100000	50	15000	100000	250	7184239
Dissolved Manganese (Mn)	ug/L	250	70	10	110	2.0	<10	84	10	7184239
Dissolved Molybdenum (Mo)	ug/L	<2.5	<2.5	2.5	6.6	0.50	42	<2.5	2.5	7184239
Dissolved Nickel (Ni)	ug/L	<5.0	<5.0	5.0	1.8	1.0	16	<5.0	5.0	7184239
Dissolved Phosphorus (P)	ug/L	<500	<500	500	<100	100	510	<500	500	7184239
Dissolved Potassium (K)	ug/L	31000	33000	1000	24000	200	100000	29000	1000	7184239
Dissolved Selenium (Se)	ug/L	<10	<10	10	<2.0	2.0	<10	<10	10	7184239
Dissolved Silicon (Si)	ug/L	6000	3900	250	5500	50	4900	3600	250	7184239
Dissolved Silver (Ag)	ug/L	<0.45	<0.45	0.45	<0.090	0.090	<0.45	<0.45	0.45	7184239
Dissolved Sodium (Na)	ug/L	420000	550000	500	100000	100	1700000	600000	500	7184239
Dissolved Strontium (Sr)	ug/L	4200	9300	5.0	2400	1.0	1600	7100	5.0	7184239
Dissolved Tellurium (Te)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<5.0	<5.0	5.0	7184239
Dissolved Thallium (Tl)	ug/L	<0.25	<0.25	0.25	<0.050	0.050	<0.25	<0.25	0.25	7184239
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<5.0	<5.0	5.0	7184239
Dissolved Titanium (Ti)	ug/L	<25	<25	25	<5.0	5.0	<25	<25	25	7184239
Dissolved Tungsten (W)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	18	<5.0	5.0	7184239
Dissolved Uranium (U)	ug/L	0.69	<0.50	0.50	1.1	0.10	<0.50	<0.50	0.50	7184239
Dissolved Vanadium (V)	ug/L	<2.5	<2.5	2.5	<0.50	0.50	<2.5	<2.5	2.5	7184239
Dissolved Zinc (Zn)	ug/L	<25	<25	25	<5.0	5.0	<25	<25	25	7184239
Dissolved Zirconium (Zr)	ug/L	<5.0	<5.0	5.0	<1.0	1.0	<5.0	<5.0	5.0	7184239
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSX502	OSX503		OSX504	OSX505	OSX506		
Sampling Date		2021/01/29	2021/01/29		2021/01/29	2021/01/29	2021/01/29		
COC Number		808571-13-01	808571-13-01		808571-13-01	808571-13-01	808571-13-01		
	UNITS	60-II	60-III	RDL	60-IV	51-IV	12-II	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	7.1	20	4.9	<25	44	42	25	7184239
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<2.5	<2.5	<2.5	2.5	7184239
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Barium (Ba)	ug/L	19	39	2.0	14	<10	<10	10	7184239
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<2.0	<2.0	<2.0	2.0	7184239
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Boron (B)	ug/L	550	700	10	1400	1300	1300	50	7184239
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	<0.45	<0.45	<0.45	0.45	7184239
Dissolved Calcium (Ca)	ug/L	320000	350000	200	670000	570000	570000	1000	7184239
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<25	<25	<25	25	7184239
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	<2.5	<2.5	<2.5	2.5	7184239
Dissolved Copper (Cu)	ug/L	<0.90	0.99	0.90	<4.5	<4.5	<4.5	4.5	7184239
Dissolved Iron (Fe)	ug/L	260	<100	100	<500	<500	<500	500	7184239
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	<2.5	<2.5	<2.5	2.5	7184239
Dissolved Lithium (Li)	ug/L	82	16	5.0	390	210	210	25	7184239
Dissolved Magnesium (Mg)	ug/L	86000	77000	50	110000	100000	99000	250	7184239
Dissolved Manganese (Mn)	ug/L	130	87	2.0	91	43	44	10	7184239
Dissolved Molybdenum (Mo)	ug/L	1.2	0.99	0.50	<2.5	<2.5	<2.5	2.5	7184239
Dissolved Nickel (Ni)	ug/L	<1.0	3.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Phosphorus (P)	ug/L	<100	<100	100	<500	<500	<500	500	7184239
Dissolved Potassium (K)	ug/L	18000	13000	200	36000	26000	25000	1000	7184239
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	<10	<10	<10	10	7184239
Dissolved Silicon (Si)	ug/L	4800	6200	50	3000	4700	4800	250	7184239
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<0.45	<0.45	<0.45	0.45	7184239
Dissolved Sodium (Na)	ug/L	250000	230000	100	650000	290000	290000	500	7184239
Dissolved Strontium (Sr)	ug/L	3600	4200	1.0	8400	6000	5900	5.0	7184239
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	<0.25	<0.25	<0.25	0.25	7184239
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<25	<25	<25	25	7184239
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Uranium (U)	ug/L	0.47	3.7	0.10	<0.50	<0.50	<0.50	0.50	7184239
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	<2.5	<2.5	<2.5	2.5	7184239
Dissolved Zinc (Zn)	ug/L	<5.0	42	5.0	<25	<25	<25	25	7184239
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



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VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSX507		OSX508		OSX509	OSX510	OSX511		
Sampling Date		2021/01/29		2021/01/29		2021/01/29	2021/01/29	2021/01/29		
COC Number		808571-14-01		808571-14-01		808571-14-01	808571-14-01	808571-14-01		
	UNITS	47-I	RDL	47-II	RDL	47-III	11-I	11-II	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	29	25	24	4.9	35	<25	36	25	7184239
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	<0.50	0.50	<2.5	<2.5	<2.5	2.5	7184239
Dissolved Arsenic (As)	ug/L	<5.0	5.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Barium (Ba)	ug/L	15	10	58	2.0	14	12	13	10	7184239
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	<0.40	0.40	<2.0	<2.0	<2.0	2.0	7184239
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Boron (B)	ug/L	850	50	230	10	1500	2100	1400	50	7184239
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	<0.090	0.090	<0.45	<0.45	<0.45	0.45	7184239
Dissolved Calcium (Ca)	ug/L	570000	1000	220000	200	370000	800000	670000	1000	7184239
Dissolved Chromium (Cr)	ug/L	<25	25	<5.0	5.0	<25	<25	<25	25	7184239
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	<0.50	0.50	<2.5	<2.5	<2.5	2.5	7184239
Dissolved Copper (Cu)	ug/L	<4.5	4.5	<0.90	0.90	<4.5	<4.5	<4.5	4.5	7184239
Dissolved Iron (Fe)	ug/L	<500	500	120	100	<500	<500	<500	500	7184239
Dissolved Lead (Pb)	ug/L	<2.5	2.5	0.92	0.50	<2.5	<2.5	<2.5	2.5	7184239
Dissolved Lithium (Li)	ug/L	100	25	6.6	5.0	68	720	380	25	7184239
Dissolved Magnesium (Mg)	ug/L	90000	250	48000	50	69000	170000	110000	250	7184239
Dissolved Manganese (Mn)	ug/L	100	10	140	2.0	59	91	90	10	7184239
Dissolved Molybdenum (Mo)	ug/L	<2.5	2.5	4.0	0.50	<2.5	<2.5	<2.5	2.5	7184239
Dissolved Nickel (Ni)	ug/L	<5.0	5.0	1.3	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Phosphorus (P)	ug/L	<500	500	<100	100	<500	<500	<500	500	7184239
Dissolved Potassium (K)	ug/L	23000	1000	4000	200	14000	24000	36000	1000	7184239
Dissolved Selenium (Se)	ug/L	<10	10	<2.0	2.0	<10	<10	<10	10	7184239
Dissolved Silicon (Si)	ug/L	3400	250	5200	50	4500	3600	3100	250	7184239
Dissolved Silver (Ag)	ug/L	<0.45	0.45	<0.090	0.090	<0.45	<0.45	<0.45	0.45	7184239
Dissolved Sodium (Na)	ug/L	280000	500	82000	100	120000	620000	670000	500	7184239
Dissolved Strontium (Sr)	ug/L	4400	5.0	2300	1.0	5200	12000	8300	5.0	7184239
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	<0.050	0.050	<0.25	<0.25	<0.25	0.25	7184239
Dissolved Tin (Sn)	ug/L	<5.0	5.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Titanium (Ti)	ug/L	<25	25	<5.0	5.0	<25	<25	<25	25	7184239
Dissolved Tungsten (W)	ug/L	<5.0	5.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
Dissolved Uranium (U)	ug/L	<0.50	0.50	2.4	0.10	<0.50	<0.50	<0.50	0.50	7184239
Dissolved Vanadium (V)	ug/L	<2.5	2.5	<0.50	0.50	<2.5	<2.5	<2.5	2.5	7184239
Dissolved Zinc (Zn)	ug/L	<25	25	180	5.0	<25	<25	<25	25	7184239
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	<1.0	1.0	<5.0	<5.0	<5.0	5.0	7184239
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSX512	OSX512	OSX513		OSX514		OSX515		
Sampling Date		2021/01/29	2021/01/29	2021/01/29		2021/01/29		2021/01/29		
COC Number		808571-14-01	808571-14-01	808571-14-01		808571-14-01		808571-14-01		
	UNITS	48-I	48-I Lab-Dup	48-II	RDL	48-IV	RDL	48-V	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	33	<25	30	25	11	4.9	27	25	7184239
Dissolved Antimony (Sb)	ug/L	<2.5	<2.5	<2.5	2.5	<0.50	0.50	<2.5	2.5	7184239
Dissolved Arsenic (As)	ug/L	<5.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7184239
Dissolved Barium (Ba)	ug/L	10	11	30	10	40	2.0	35	10	7184239
Dissolved Beryllium (Be)	ug/L	<2.0	<2.0	<2.0	2.0	<0.40	0.40	<2.0	2.0	7184239
Dissolved Bismuth (Bi)	ug/L	<5.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7184239
Dissolved Boron (B)	ug/L	2100	2100	1300	50	150	10	920	50	7184239
Dissolved Cadmium (Cd)	ug/L	<0.45	<0.45	<0.45	0.45	0.13	0.090	<0.45	0.45	7184239
Dissolved Calcium (Ca)	ug/L	760000	760000	540000	1000	210000	200	530000	1000	7184239
Dissolved Chromium (Cr)	ug/L	<25	<25	<25	25	<5.0	5.0	<25	25	7184239
Dissolved Cobalt (Co)	ug/L	<2.5	<2.5	<2.5	2.5	<0.50	0.50	<2.5	2.5	7184239
Dissolved Copper (Cu)	ug/L	<4.5	<4.5	<4.5	4.5	1.4	0.90	<4.5	4.5	7184239
Dissolved Iron (Fe)	ug/L	<500	<500	<500	500	<100	100	690	500	7184239
Dissolved Lead (Pb)	ug/L	<2.5	<2.5	<2.5	2.5	<0.50	0.50	<2.5	2.5	7184239
Dissolved Lithium (Li)	ug/L	720	720	150	25	52	5.0	110	25	7184239
Dissolved Magnesium (Mg)	ug/L	170000	170000	83000	250	82000	50	80000	250	7184239
Dissolved Manganese (Mn)	ug/L	91	90	140	10	<2.0	2.0	150	10	7184239
Dissolved Molybdenum (Mo)	ug/L	<2.5	<2.5	<2.5	2.5	2.2	0.50	<2.5	2.5	7184239
Dissolved Nickel (Ni)	ug/L	<5.0	<5.0	<5.0	5.0	1.2	1.0	<5.0	5.0	7184239
Dissolved Phosphorus (P)	ug/L	<500	<500	<500	500	<100	100	<500	500	7184239
Dissolved Potassium (K)	ug/L	25000	24000	11000	1000	3000	200	8600	1000	7184239
Dissolved Selenium (Se)	ug/L	<10	<10	<10	10	<2.0	2.0	<10	10	7184239
Dissolved Silicon (Si)	ug/L	3500	3500	4700	250	7300	50	4700	250	7184239
Dissolved Silver (Ag)	ug/L	<0.45	<0.45	<0.45	0.45	<0.090	0.090	<0.45	0.45	7184239
Dissolved Sodium (Na)	ug/L	610000	600000	310000	500	44000	100	330000	500	7184239
Dissolved Strontium (Sr)	ug/L	12000	12000	4400	5.0	1300	1.0	3900	5.0	7184239
Dissolved Tellurium (Te)	ug/L	<5.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7184239
Dissolved Thallium (Tl)	ug/L	<0.25	<0.25	<0.25	0.25	<0.050	0.050	<0.25	0.25	7184239
Dissolved Tin (Sn)	ug/L	<5.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7184239
Dissolved Titanium (Ti)	ug/L	<25	<25	<25	25	<5.0	5.0	<25	25	7184239
Dissolved Tungsten (W)	ug/L	<5.0	<5.0	<5.0	5.0	2.0	1.0	<5.0	5.0	7184239
Dissolved Uranium (U)	ug/L	0.51	<0.50	0.87	0.50	5.6	0.10	1.4	0.50	7184239
Dissolved Vanadium (V)	ug/L	<2.5	<2.5	<2.5	2.5	<0.50	0.50	<2.5	2.5	7184239
Dissolved Zinc (Zn)	ug/L	<25	<25	<25	25	61	5.0	<25	25	7184239
Dissolved Zirconium (Zr)	ug/L	<5.0	<5.0	<5.0	5.0	<1.0	1.0	<5.0	5.0	7184239
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OSX516		
Sampling Date		2021/01/29		
COC Number		808571-14-01		
	UNITS	3-I	RDL	QC Batch
Metals				
Dissolved Aluminum (Al)	ug/L	7.6	4.9	7184239
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7184239
Dissolved Arsenic (As)	ug/L	<1.0	1.0	7184239
Dissolved Barium (Ba)	ug/L	56	2.0	7184239
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7184239
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7184239
Dissolved Boron (B)	ug/L	230	10	7184239
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7184239
Dissolved Calcium (Ca)	ug/L	220000	200	7184239
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7184239
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7184239
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7184239
Dissolved Iron (Fe)	ug/L	120	100	7184239
Dissolved Lead (Pb)	ug/L	0.80	0.50	7184239
Dissolved Lithium (Li)	ug/L	6.8	5.0	7184239
Dissolved Magnesium (Mg)	ug/L	48000	50	7184239
Dissolved Manganese (Mn)	ug/L	140	2.0	7184239
Dissolved Molybdenum (Mo)	ug/L	3.3	0.50	7184239
Dissolved Nickel (Ni)	ug/L	1.2	1.0	7184239
Dissolved Phosphorus (P)	ug/L	<100	100	7184239
Dissolved Potassium (K)	ug/L	4000	200	7184239
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7184239
Dissolved Silicon (Si)	ug/L	5200	50	7184239
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7184239
Dissolved Sodium (Na)	ug/L	81000	100	7184239
Dissolved Strontium (Sr)	ug/L	2300	1.0	7184239
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7184239
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7184239
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7184239
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7184239
Dissolved Tungsten (W)	ug/L	<1.0	1.0	7184239
Dissolved Uranium (U)	ug/L	2.4	0.10	7184239
Dissolved Vanadium (V)	ug/L	<0.50	0.50	7184239
Dissolved Zinc (Zn)	ug/L	180	5.0	7184239
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7184239
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSX497
Sample ID: M4
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/08	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX497 Dup
Sample ID: M4
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/08	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX498
Sample ID: L1
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/08	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSX498 Dup
Sample ID: L1
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu

BV Labs ID: OSX499
Sample ID: CW16
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/08	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX500
Sample ID: CW5R
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/08	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSX501
Sample ID: 60-I
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/08	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX502
Sample ID: 60-II
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX503
Sample ID: 60-III
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSX503
Sample ID: 60-III
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX503 Dup
Sample ID: 60-III
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan

BV Labs ID: OSX504
Sample ID: 60-IV
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/08	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSX505
Sample ID: 51-IV
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX506
Sample ID: 12-II
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX506 Dup
Sample ID: 12-II
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSX507
Sample ID: 47-I
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/08	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX508
Sample ID: 47-II
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX509
Sample ID: 47-III
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSX509
Sample ID: 47-III
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX510
Sample ID: 11-I
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX511
Sample ID: 11-II
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSX511
Sample ID: 11-II
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/08	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/04	Anna-Kay Gooden

BV Labs ID: OSX512
Sample ID: 48-I
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/08	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/05	Anna-Kay Gooden

BV Labs ID: OSX512 Dup
Sample ID: 48-I
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha

BV Labs ID: OSX513
Sample ID: 48-II
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSX513
Sample ID: 48-II
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/05	Anna-Kay Gooden

BV Labs ID: OSX514
Sample ID: 48-IV
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/05	Anna-Kay Gooden

BV Labs ID: OSX515
Sample ID: 48-V
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7178317	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/04	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/05	Rajni Tyagi



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OSX515
Sample ID: 48-V
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/05	Anna-Kay Gooden

BV Labs ID: OSX516
Sample ID: 3-l
Matrix: Water

Collected: 2021/01/29
Shipped:
Received: 2021/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7184309	N/A	2021/02/04	Surinder Rai
Anions	IC	7184307	N/A	2021/02/05	Fari Dehdezi
Conductivity	AT	7184311	N/A	2021/02/04	Surinder Rai
Fluoride	ISE	7184313	2021/02/04	2021/02/04	Surinder Rai
Hardness (calculated as CaCO3)		7179137	N/A	2021/02/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7184239	N/A	2021/02/05	Nan Raykha
Total Ammonia-N	LACH/NH4	7184652	N/A	2021/02/05	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7184306	N/A	2021/02/05	Chandra Nandlal
pH	AT	7184310	2021/02/04	2021/02/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7184298	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7184302	N/A	2021/02/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7184659	2021/02/04	2021/02/05	Massarat Jan
Total Kjeldahl Nitrogen in Water	SKAL	7184647	2021/02/04	2021/02/05	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7184628	N/A	2021/02/05	Anna-Kay Gooden



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	-1.3°C
Package 2	-0.7°C
Package 3	-0.3°C
Package 4	-0.3°C
Package 5	-0.7°C

Anions Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Sample OSX497 [M4] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSX498 [L1] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSX500 [CW5R] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSX501 [60-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSX504 [60-IV] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSX505 [51-IV] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSX506 [12-II] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSX507 [47-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSX509 [47-III] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSX510 [11-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSX511 [11-II] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSX512 [48-I] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample OSX513 [48-II] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample OSX515 [48-V] : Metal Analysis:Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

QUALITY ASSURANCE REPORT

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7184239	Dissolved Aluminum (Al)	2021/02/04	97	80 - 120	95	80 - 120	<4.9	ug/L	NC	20		
7184239	Dissolved Antimony (Sb)	2021/02/04	102	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7184239	Dissolved Arsenic (As)	2021/02/04	99	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7184239	Dissolved Barium (Ba)	2021/02/04	98	80 - 120	98	80 - 120	<2.0	ug/L	2.3	20		
7184239	Dissolved Beryllium (Be)	2021/02/04	101	80 - 120	99	80 - 120	<0.40	ug/L	NC	20		
7184239	Dissolved Bismuth (Bi)	2021/02/04	98	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7184239	Dissolved Boron (B)	2021/02/04	NC	80 - 120	96	80 - 120	<10	ug/L	1.4	20		
7184239	Dissolved Cadmium (Cd)	2021/02/04	98	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
7184239	Dissolved Calcium (Ca)	2021/02/04	NC	80 - 120	96	80 - 120	<200	ug/L	0.87	20		
7184239	Dissolved Chromium (Cr)	2021/02/04	98	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7184239	Dissolved Cobalt (Co)	2021/02/04	97	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7184239	Dissolved Copper (Cu)	2021/02/04	96	80 - 120	98	80 - 120	<0.90	ug/L	NC	20		
7184239	Dissolved Iron (Fe)	2021/02/04	97	80 - 120	98	80 - 120	<100	ug/L	NC	20		
7184239	Dissolved Lead (Pb)	2021/02/04	99	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7184239	Dissolved Lithium (Li)	2021/02/04	NC	80 - 120	101	80 - 120	<5.0	ug/L	0.11	20		
7184239	Dissolved Magnesium (Mg)	2021/02/04	NC	80 - 120	96	80 - 120	<50	ug/L	1.1	20		
7184239	Dissolved Manganese (Mn)	2021/02/04	97	80 - 120	98	80 - 120	<2.0	ug/L	1.5	20		
7184239	Dissolved Molybdenum (Mo)	2021/02/04	104	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7184239	Dissolved Nickel (Ni)	2021/02/04	95	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7184239	Dissolved Phosphorus (P)	2021/02/04	97	80 - 120	104	80 - 120	<100	ug/L	NC	20		
7184239	Dissolved Potassium (K)	2021/02/04	98	80 - 120	96	80 - 120	<200	ug/L	0.76	20		
7184239	Dissolved Selenium (Se)	2021/02/04	95	80 - 120	99	80 - 120	<2.0	ug/L	NC	20		
7184239	Dissolved Silicon (Si)	2021/02/04	99	80 - 120	96	80 - 120	<50	ug/L	0.041	20		
7184239	Dissolved Silver (Ag)	2021/02/04	86	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
7184239	Dissolved Sodium (Na)	2021/02/04	NC	80 - 120	94	80 - 120	<100	ug/L	0.43	20		
7184239	Dissolved Strontium (Sr)	2021/02/04	NC	80 - 120	99	80 - 120	<1.0	ug/L	2.9	20		
7184239	Dissolved Tellurium (Te)	2021/02/04	94	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7184239	Dissolved Thallium (Tl)	2021/02/04	101	80 - 120	104	80 - 120	<0.050	ug/L	NC	20		
7184239	Dissolved Tin (Sn)	2021/02/04	102	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7184239	Dissolved Titanium (Ti)	2021/02/04	97	80 - 120	93	80 - 120	<5.0	ug/L	NC	20		
7184239	Dissolved Tungsten (W)	2021/02/04	104	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: C127406

Report Date: 2021/02/08

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7184239	Dissolved Uranium (U)	2021/02/04	98	80 - 120	100	80 - 120	<0.10	ug/L	1.2	20		
7184239	Dissolved Vanadium (V)	2021/02/04	100	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7184239	Dissolved Zinc (Zn)	2021/02/04	95	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7184239	Dissolved Zirconium (Zr)	2021/02/04	525 (1)	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7184298	Phenols-4AAP	2021/02/05	104	80 - 120	104	80 - 120	<0.0010	mg/L	NC	20		
7184302	Orthophosphate (P)	2021/02/04	104	75 - 125	100	80 - 120	<0.010	mg/L	0.29	25		
7184306	Nitrate (N)	2021/02/05	107	80 - 120	95	80 - 120	<0.10	mg/L	0.69	20		
7184306	Nitrite (N)	2021/02/05	112	80 - 120	105	80 - 120	<0.010	mg/L	1.6	20		
7184307	Dissolved Bromide (Br-)	2021/02/05	114	80 - 120	114	80 - 120	<1.0	mg/L	NC	20		
7184307	Dissolved Chloride (Cl-)	2021/02/05	NC	80 - 120	101	70 - 130	<1.0	mg/L	0.50	20		
7184307	Dissolved Sulphate (SO4)	2021/02/05	NC	80 - 120	103	80 - 120	<1.0	mg/L	0.34	20		
7184309	Alkalinity (Total as CaCO3)	2021/02/04			98	85 - 115	<1.0	mg/L	0.93	20		
7184310	pH	2021/02/04			102	98 - 103			0.38	N/A		
7184311	Conductivity	2021/02/04			101	85 - 115	<1.0	umho/cm	0.36	25		
7184313	Fluoride (F-)	2021/02/04	103	80 - 120	107	80 - 120	<1.0	mg/L	6.7	20		
7184628	Total Organic Carbon (TOC)	2021/02/04	95	80 - 120	97	80 - 120	<0.40	mg/L	1.5	20		
7184647	Total Kjeldahl Nitrogen (TKN)	2021/02/08	NC	80 - 120	103	80 - 120	<0.10	mg/L	2.0	20	98	80 - 120
7184652	Total Ammonia-N	2021/02/05	NC	75 - 125	100	80 - 120	<0.050	mg/L	0.29	20		



BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7184659	Total Dissolved Solids	2021/02/05					<10	mg/L	1.1	25	98	90 - 110

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.




BUREAU
VERITAS

BV Labs Job #: C127406
Report Date: 2021/02/08

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Eva Pranjic


Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



INVOICE TO: Company Name: #16786 Terrapure Environmental Attention: Accounting Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5 Tel: (905) 561-0305 Fax: (905) 561-1674 Email: kbailey@terrapureenv.com		REPORT TO: Company Name: Attention: Brad Mullin - GHD Reporting Address: Tel: Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		PROJECT INFORMATION: Quotation #: B60569 P.O. #: Project: GW Project Name: Gw Site #: Sampled By:		Laboratory Use Only: BV Labs Job #: Bottle Order #: 808571 CDC #: Project Manager: Jolanta Goralczyk C#808571-13-01	
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MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects							
Regulation 153 (2011) <input type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Fine <input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC <input type="checkbox"/> Table			Other Regulations <input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Reg 558 <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> MISA Municipality <input type="checkbox"/> PWQO <input type="checkbox"/> Reg 406 Table <input type="checkbox"/> Other			Special Instructions			Field Filtered (please circle): Metals / Hg / Cr / V	Last "A" GW Monitoring											Regular (Standard) TAT: (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.		
Include Criteria on Certificate of Analysis (Y/N)?																Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)							
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered	Metals / Hg / Cr / V	Last "A" GW Monitoring											# of Bottles	Comments				
	m4	21/01/29	AM	GW	Y	✓												6					
	L1			GW	Y	✓												6					
	CW16			GW	Y	✓												6					
	CW5R			GW	Y	✓												6					
	60-I			GW	Y	✓												6					
	60-II			GW	Y	✓												6					
	60-III			GW	Y	✓												6					
	60-IV			GW	Y	✓												6					
	51-IV			GW	Y	✓												6					
	12-II			GW	Y	✓												6					
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only										Time Sensitive	Temperature (°C) on Receipt	Custody Seal Present	Yes	No
		21/02/01	AM			2021/02/01	15:15												Refer to ACTR				

01-Feb-21 15:15
 Jolanta Goralczyk
 C127406
 GID ENV-804

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.
 ** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.



INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental		Company Name: Brad Mullin - GHD Reporting		Quotation #: B60569		BV Labs Job #:	
Attention: Accounting		Attention: Brad Mullin - GHD Reporting		P.O. #:		Bottle Order #:	
Address: 65 Green Mountain Rd West		Address:		Project: GW		COC #:	
Address: Stoney Creek ON L8J 1X5		Address:		Project Name: GW		Project Manager: Jolanta Goralczyk	
Tel: (905) 561-0305 Fax: (905) 561-1674		Tel: Fax:		Site #:		C#908571-14-01	
Email: kbailey@terrapureenv.com		Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		Sampled By:			

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects					
Regulation 153 (2011)			Other Regulations			Special Instructions	Field Filtered (please circle)	Metals / Hg / Cr / VI	Let 'A' GW Monitoring											Regular (Standard) TAT: (will be applied if Rush TAT is not specified)	
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw															<input checked="" type="checkbox"/>		
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw															<input type="checkbox"/>		
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality															<input type="checkbox"/>		
<input type="checkbox"/> Table			<input type="checkbox"/> PWQO	Reg 406 Table															<input type="checkbox"/>		
<input type="checkbox"/> Table			<input type="checkbox"/> Other																<input type="checkbox"/>		
Include Criteria on Certificate of Analysis (Y/N)?																Job Specific Rush TAT (if applies to entire submission)					
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered	Metals / Hg / Cr / VI	Let 'A' GW Monitoring											Date Required:	Time Required:		
1	47-I	21/01/29	AM	GW	Y	✓												Rush Confirmation Number:	(call lab for #)		
2	47-II			GW	Y	✓												# of Bottles	Comments		
3	47-III			GW	Y	✓												6			
4	11-I			GW	Y	✓												6			
5	11-II			GW	Y	✓												6			
6	48-I			GW	Y	✓												6			
7	48-II			GW	Y	✓												6			
8	48-IV			GW	Y	✓												6			
9	48-V			GW	Y	✓												6			
10	3-I			GW	Y	✓												6			

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
<i>[Signature]</i>	21/02/10	AM	<i>[Signature]</i>				Time Sensitive	Temperature (°C) on Recept	Custody Seal Present	Yes	No
									Intact		

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client



Your Project #: GW
 Your C.O.C. #: 808571-15-01, 808571-16-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
 65 Green Mountain Rd West
 Stoney Creek, ON
 CANADA L8J 1X5

Report Date: 2021/02/11
 Report #: R6514710
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C131308

Received: 2021/02/04, 15:33

Sample Matrix: Water
 # Samples Received: 11

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	11	N/A	2021/02/08	CAM SOP-00448	SM 23 2320 B m
Anions	9	N/A	2021/02/08	CAM SOP-00435	SM 23 4110 B m
Anions	2	N/A	2021/02/09	CAM SOP-00435	SM 23 4110 B m
Conductivity	11	N/A	2021/02/08	CAM SOP-00414	SM 23 2510 m
Fluoride	11	2021/02/05	2021/02/08	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	1	N/A	2021/02/10	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	10	N/A	2021/02/08	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	3	N/A	2021/02/06	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	7	N/A	2021/02/08	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	1	N/A	2021/02/09	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	11	N/A	2021/02/07	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	8	N/A	2021/02/05	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate (NO3) and Nitrite (NO2) in Water (1)	3	N/A	2021/02/08	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	11	2021/02/05	2021/02/08	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	6	N/A	2021/02/05	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	4	N/A	2021/02/08	CAM SOP-00444	OMOE E3179 m
Orthophosphate	11	N/A	2021/02/08	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	9	2021/02/05	2021/02/06	CAM SOP-00428	SM 23 2540C m
Total Dissolved Solids	2	2021/02/06	2021/02/08	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	5	2021/02/05	2021/02/08	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	6	2021/02/05	2021/02/09	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	11	N/A	2021/02/06	CAM SOP-00446	SM 23 5310B m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

(2) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



Your Project #: GW
Your C.O.C. #: 808571-15-01, 808571-16-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/02/11
Report #: R6514710
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C131308

Received: 2021/02/04, 15:33

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
11 Feb 2021 14:59:59

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

=====
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BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OTS704			OTS704			OTS705		
Sampling Date		2021/02/02			2021/02/02			2021/02/02		
COC Number		808571-15-01			808571-15-01			808571-15-01		
	UNITS	P7-IR	RDL	QC Batch	P7-IR Lab-Dup	RDL	QC Batch	P6-IR	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	270	1.0	7184344				30	1.0	7184344
Inorganics										
Total Ammonia-N	mg/L	23	0.050	7187245				190	1.0	7187245
Conductivity	umho/cm	3000	1.0	7187186	3000	1.0	7187186	13000	1.0	7187186
Total Dissolved Solids	mg/L	1520	10	7186640				7150	20	7186640
Fluoride (F-)	mg/L	1.2	0.10	7187178	1.1	0.10	7187178	2.8	0.10	7187178
Total Kjeldahl Nitrogen (TKN)	mg/L	26	1.0	7187234				190	5.0	7187234
Total Organic Carbon (TOC)	mg/L	42	0.40	7187763				40	0.40	7187763
Orthophosphate (P)	mg/L	<0.010	0.010	7187247				0.20	0.010	7187205
pH	pH	9.12		7187190	9.29		7187190	9.75		7187190
Phenols-4AAP	mg/L	1.2	0.050	7186713				0.98	0.050	7186713
Alkalinity (Total as CaCO3)	mg/L	76	1.0	7187187	80	1.0	7187187	620	1.0	7187187
Nitrite (N)	mg/L	<0.010	0.010	7186981				<0.010	0.010	7186981
Dissolved Chloride (Cl-)	mg/L	550	5.0	7188690				4100	50	7188690
Nitrate (N)	mg/L	<0.10	0.10	7186981				<0.10	0.10	7186981
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7186981				<0.10	0.10	7186981
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7188690				<20	20	7188690
Dissolved Sulphate (SO4)	mg/L	560	5.0	7188690				140	20	7188690

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OTS706				OTS707			OTS708		
Sampling Date		2021/02/02				2021/02/02			2021/02/02		
COC Number		808571-15-01				808571-15-01			808571-15-01		
	UNITS	G11	RDL	QC Batch	G13	RDL	QC Batch	P10-V	RDL	QC Batch	
Calculated Parameters											
Hardness (CaCO3)	mg/L	760	1.0	7184344	730	1.0	7184344	480	1.0	7184344	
Inorganics											
Total Ammonia-N	mg/L	<0.050	0.050	7187245	<0.050	0.050	7187245	0.061	0.050	7187245	
Conductivity	umho/cm	4500	1.0	7187186	2300	1.0	7187186	980	1.0	7187186	
Total Dissolved Solids	mg/L	2610	10	7186640	1380	10	7186640	590	10	7188709	
Fluoride (F-)	mg/L	1.1	0.10	7187178	0.91	0.10	7187178	0.79	0.10	7187178	
Total Kjeldahl Nitrogen (TKN)	mg/L	0.30	0.10	7187234	0.19	0.10	7187234	0.28	0.10	7187234	
Total Organic Carbon (TOC)	mg/L	2.8	0.40	7187763	3.0	0.40	7187763	4.5	0.40	7187763	
Orthophosphate (P)	mg/L	<0.010	0.010	7187205	<0.010	0.010	7187247	0.051	0.010	7187205	
pH	pH	7.60		7187190	7.71		7187190	7.81		7187190	
Phenols-4AAP	mg/L	<0.0010	0.0010	7186713	<0.0010	0.0010	7186836	<0.0010	0.0010	7186836	
Alkalinity (Total as CaCO3)	mg/L	270	1.0	7187187	300	1.0	7187187	390	1.0	7187187	
Nitrite (N)	mg/L	0.018	0.010	7186981	<0.010	0.010	7187278	<0.010	0.010	7187278	
Dissolved Chloride (Cl-)	mg/L	1100	10	7188690	380	5.0	7188690	12	1.0	7188694	
Nitrate (N)	mg/L	0.13	0.10	7186981	3.87	0.10	7187278	0.34	0.10	7187278	
Nitrate + Nitrite (N)	mg/L	0.14	0.10	7186981	3.87	0.10	7187278	0.34	0.10	7187278	
Dissolved Bromide (Br-)	mg/L	<10	10	7188690	<5.0	5.0	7188690	<1.0	1.0	7188694	
Dissolved Sulphate (SO4)	mg/L	340	10	7188690	330	5.0	7188690	140	1.0	7188694	
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OTS709			OTS709			OTS710		
Sampling Date		2021/02/02			2021/02/02			2021/02/02		
COC Number		808571-15-01			808571-15-01			808571-15-01		
	UNITS	P4-IV	RDL	QC Batch	P4-IV Lab-Dup	RDL	QC Batch	51-V	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	330	1.0	7184344				620	1.0	7184344
Inorganics										
Total Ammonia-N	mg/L	0.066	0.050	7187245				<0.050	0.050	7187245
Conductivity	umho/cm	810	1.0	7187186				2200	1.0	7187186
Total Dissolved Solids	mg/L	440	10	7188709	435	10	7188709	1210	10	7186640
Fluoride (F-)	mg/L	0.73	0.10	7187178				1.0	0.10	7187178
Total Kjeldahl Nitrogen (TKN)	mg/L	0.30	0.10	7187234				0.22	0.10	7187234
Total Organic Carbon (TOC)	mg/L	4.8	0.40	7187763				3.8	0.40	7187763
Orthophosphate (P)	mg/L	0.019	0.010	7187205				<0.010	0.010	7187205
pH	pH	7.98		7187190				7.80		7187190
Phenols-4AAP	mg/L	<0.0010	0.0010	7186713				<0.0010	0.0010	7186836
Alkalinity (Total as CaCO3)	mg/L	240	1.0	7187187				270	1.0	7187187
Nitrite (N)	mg/L	<0.010	0.010	7186981				<0.010	0.010	7186981
Dissolved Chloride (Cl-)	mg/L	25	1.0	7188690				240	5.0	7188690
Nitrate (N)	mg/L	0.27	0.10	7186981				0.13	0.10	7186981
Nitrate + Nitrite (N)	mg/L	0.27	0.10	7186981				0.13	0.10	7186981
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7188690				<5.0	5.0	7188690
Dissolved Sulphate (SO4)	mg/L	140	1.0	7188690				530	5.0	7188690

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OTS710			OTS711		OTS712		
Sampling Date		2021/02/02			2021/02/02		2021/02/03		
COC Number		808571-15-01			808571-15-01		808571-15-01		
	UNITS	51-V Lab-Dup	RDL	QC Batch	9-I	RDL	47-IV	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO ₃)	mg/L				1100	1.0	550	1.0	7184344
Inorganics									
Total Ammonia-N	mg/L				<0.050	0.050	0.12	0.050	7187245
Conductivity	umho/cm				2200	1.0	1300	1.0	7187186
Total Dissolved Solids	mg/L				1600	10	820	10	7186640
Fluoride (F-)	mg/L				0.84	0.10	0.51	0.10	7187178
Total Kjeldahl Nitrogen (TKN)	mg/L				0.26	0.20	0.35	0.10	7187234
Total Organic Carbon (TOC)	mg/L	3.8	0.40	7187763	6.5	0.40	5.0	0.40	7187763
Orthophosphate (P)	mg/L				<0.010	0.010	<0.010	0.010	7187205
pH	pH				7.67		7.70		7187190
Phenols-4AAP	mg/L				<0.0010	0.0010	<0.0010	0.0010	7186713
Alkalinity (Total as CaCO ₃)	mg/L				270	1.0	290	1.0	7187187
Nitrite (N)	mg/L				0.023	0.010	<0.010	0.010	7186981
Dissolved Chloride (Cl-)	mg/L				130	5.0	69	1.0	7188690
Nitrate (N)	mg/L				7.15	0.10	<0.10	0.10	7186981
Nitrate + Nitrite (N)	mg/L				7.17	0.10	<0.10	0.10	7186981
Dissolved Bromide (Br-)	mg/L				<5.0	5.0	<1.0	1.0	7188690
Dissolved Sulphate (SO ₄)	mg/L				780	5.0	310	1.0	7188690
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		OTS713			OTS729		
Sampling Date		2021/02/03			2021/02/03		
COC Number		808571-15-01			808571-16-01		
	UNITS	4-II	RDL	QC Batch	52-III	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L	530	1.0	7184344	410	1.0	7184344
Inorganics							
Total Ammonia-N	mg/L	0.099	0.050	7187245	<0.050	0.050	7187245
Conductivity	umho/cm	1300	1.0	7187186	860	1.0	7187186
Total Dissolved Solids	mg/L	800	10	7186640	515	10	7186640
Fluoride (F-)	mg/L	0.49	0.10	7187178	0.38	0.10	7187178
Total Kjeldahl Nitrogen (TKN)	mg/L	0.40	0.10	7187234	0.33	0.10	7187234
Total Organic Carbon (TOC)	mg/L	4.9	0.40	7187763	3.6	0.40	7187763
Orthophosphate (P)	mg/L	<0.010	0.010	7187205	0.025	0.010	7187205
pH	pH	7.64		7187190	7.80		7187190
Phenols-4AAP	mg/L				<0.0010	0.0010	7186713
Alkalinity (Total as CaCO3)	mg/L	300	1.0	7187187	260	1.0	7187187
Nitrite (N)	mg/L	<0.010	0.010	7186981	<0.010	0.010	7187278
Dissolved Chloride (Cl-)	mg/L	69	1.0	7188690	8.5	1.0	7188694
Nitrate (N)	mg/L	<0.10	0.10	7186981	4.07	0.10	7187278
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7186981	4.07	0.10	7187278
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7188690	<1.0	1.0	7188694
Dissolved Sulphate (SO4)	mg/L	310	1.0	7188690	180	1.0	7188694
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OTS704		OTS705		OTS706		OTS707	OTS708		
Sampling Date		2021/02/02		2021/02/02		2021/02/02		2021/02/02	2021/02/02		
COC Number		808571-15-01		808571-15-01		808571-15-01		808571-15-01	808571-15-01		
	UNITS	P7-IR	RDL	P6-IR	RDL	G11	RDL	G13	P10-V	RDL	QC Batch
Metals											
Dissolved Aluminum (Al)	ug/L	12	4.9	<25	25	12	4.9	<4.9	<4.9	4.9	7186645
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	0.50	<0.50	<0.50	0.50	7186645
Dissolved Arsenic (As)	ug/L	4.2	1.0	<5.0	5.0	<1.0	1.0	<1.0	<1.0	1.0	7186645
Dissolved Barium (Ba)	ug/L	26	2.0	<10	10	31	2.0	30	40	2.0	7186645
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<2.0	2.0	<0.40	0.40	<0.40	<0.40	0.40	7186645
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	<1.0	1.0	7186645
Dissolved Boron (B)	ug/L	450	10	490	50	140	10	270	180	10	7186645
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.45	0.45	0.30	0.090	0.38	1.6	0.090	7186645
Dissolved Calcium (Ca)	ug/L	90000	200	11000	1000	220000	200	210000	120000	200	7186645
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<25	25	<5.0	5.0	<5.0	<5.0	5.0	7186645
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<2.5	2.5	1.0	0.50	<0.50	<0.50	0.50	7186645
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<4.5	4.5	3.4	0.90	3.2	5.1	0.90	7186645
Dissolved Iron (Fe)	ug/L	<100	100	<500	500	<100	100	<100	<100	100	7186645
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<2.5	2.5	0.82	0.50	<0.50	0.88	0.50	7186645
Dissolved Lithium (Li)	ug/L	64	5.0	<25	25	11	5.0	12	<5.0	5.0	7186645
Dissolved Magnesium (Mg)	ug/L	11000	50	530	250	49000	50	52000	46000	50	7186645
Dissolved Manganese (Mn)	ug/L	<2.0	2.0	<10	10	55	2.0	<2.0	5.6	2.0	7186645
Dissolved Molybdenum (Mo)	ug/L	53	0.50	75	2.5	13	0.50	5.8	2.6	0.50	7186645
Dissolved Nickel (Ni)	ug/L	17	1.0	20	5.0	34	1.0	14	6.5	1.0	7186645
Dissolved Phosphorus (P)	ug/L	<100	100	770	500	<100	100	<100	120	100	7186645
Dissolved Potassium (K)	ug/L	92000	200	140000	1000	2600	200	2300	4300	200	7186645
Dissolved Selenium (Se)	ug/L	6.7	2.0	14	10	<2.0	2.0	<2.0	<2.0	2.0	7186645
Dissolved Silicon (Si)	ug/L	8400	50	9200	250	3200	50	3900	7900	50	7186645
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.45	0.45	<0.090	0.090	<0.090	<0.090	0.090	7186645
Dissolved Sodium (Na)	ug/L	320000	100	2500000	500	650000	500	210000	35000	100	7186645
Dissolved Strontium (Sr)	ug/L	2400	1.0	1100	5.0	2000	1.0	1600	950	1.0	7186645
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	<1.0	1.0	7186645
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.25	0.25	0.49	0.050	0.17	0.14	0.050	7186645
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	<1.0	1.0	7186645
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<25	25	<5.0	5.0	<5.0	<5.0	5.0	7186645
Dissolved Tungsten (W)	ug/L	15	1.0	20	5.0	<1.0	1.0	<1.0	<1.0	1.0	7186645
Dissolved Uranium (U)	ug/L	<0.10	0.10	<0.50	0.50	19	0.10	9.8	5.7	0.10	7186645
Dissolved Vanadium (V)	ug/L	2.7	0.50	<2.5	2.5	<0.50	0.50	<0.50	<0.50	0.50	7186645
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<25	25	980	5.0	570	860	5.0	7186645
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	<1.0	1.0	7186645

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OTS709	OTS710	OTS711	OTS712	OTS713	OTS729		
Sampling Date		2021/02/02	2021/02/02	2021/02/02	2021/02/03	2021/02/03	2021/02/03		
COC Number		808571-15-01	808571-15-01	808571-15-01	808571-15-01	808571-15-01	808571-16-01		
	UNITS	P4-IV	51-V	9-I	47-IV	4-II	52-III	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	170	<4.9	5.1	<4.9	<4.9	7.6	4.9	7186645
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.54	<0.50	<0.50	<0.50	0.50	7186645
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7186645
Dissolved Barium (Ba)	ug/L	25	24	51	61	62	38	2.0	7186645
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	0.40	7186645
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7186645
Dissolved Boron (B)	ug/L	97	150	100	150	150	43	10	7186645
Dissolved Cadmium (Cd)	ug/L	1.0	0.12	4.2	0.98	1.2	1.5	0.090	7186645
Dissolved Calcium (Ca)	ug/L	86000	150000	330000	150000	140000	110000	200	7186645
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	7186645
Dissolved Cobalt (Co)	ug/L	<0.50	0.60	<0.50	<0.50	<0.50	<0.50	0.50	7186645
Dissolved Copper (Cu)	ug/L	4.6	<0.90	6.0	1.7	1.7	13	0.90	7186645
Dissolved Iron (Fe)	ug/L	260	<100	<100	<100	<100	<100	100	7186645
Dissolved Lead (Pb)	ug/L	1.9	<0.50	0.81	<0.50	<0.50	<0.50	0.50	7186645
Dissolved Lithium (Li)	ug/L	<5.0	18	6.1	<5.0	<5.0	<5.0	5.0	7186645
Dissolved Magnesium (Mg)	ug/L	27000	60000	69000	43000	43000	32000	50	7186645
Dissolved Manganese (Mn)	ug/L	96	19	26	230	230	9.5	2.0	7186645
Dissolved Molybdenum (Mo)	ug/L	6.7	7.0	3.3	2.9	3.0	1.8	0.50	7186645
Dissolved Nickel (Ni)	ug/L	3.8	6.3	12	2.2	2.1	5.3	1.0	7186645
Dissolved Phosphorus (P)	ug/L	140	<100	<100	<100	<100	<100	100	7186645
Dissolved Potassium (K)	ug/L	7800	4300	5600	3000	3000	1700	200	7186645
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7186645
Dissolved Silicon (Si)	ug/L	5900	4600	4400	4900	4800	2900	50	7186645
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	0.090	7186645
Dissolved Sodium (Na)	ug/L	28000	180000	87000	65000	65000	22000	100	7186645
Dissolved Strontium (Sr)	ug/L	530	1700	2900	1800	1800	600	1.0	7186645
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7186645
Dissolved Thallium (Tl)	ug/L	0.22	0.078	0.23	<0.050	<0.050	<0.050	0.050	7186645
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7186645
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.0	7186645
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7186645
Dissolved Uranium (U)	ug/L	2.6	8.5	5.8	2.3	2.2	3.7	0.10	7186645
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7186645
Dissolved Zinc (Zn)	ug/L	210	190	1500	170	170	360	5.0	7186645
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7186645
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OTS704
Sample ID: P7-IR
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai
Anions	IC	7188690	N/A	2021/02/08	Fari Dehdezi
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
Hardness (calculated as CaCO3)		7184344	N/A	2021/02/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7186645	N/A	2021/02/08	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7187245	N/A	2021/02/07	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7186981	N/A	2021/02/05	Chandra Nandlal
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7186713	N/A	2021/02/08	Bramdeo Motiram
Orthophosphate	KONE	7187247	N/A	2021/02/08	Avneet Kour Sudan
Total Dissolved Solids	BAL	7186640	2021/02/05	2021/02/06	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7187234	2021/02/05	2021/02/09	Louise Harding
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh

BV Labs ID: OTS704 Dup
Sample ID: P7-IR
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai

BV Labs ID: OTS705
Sample ID: P6-IR
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai
Anions	IC	7188690	N/A	2021/02/08	Fari Dehdezi
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
Hardness (calculated as CaCO3)		7184344	N/A	2021/02/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7186645	N/A	2021/02/06	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7187245	N/A	2021/02/07	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7186981	N/A	2021/02/05	Chandra Nandlal
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7186713	N/A	2021/02/08	Bramdeo Motiram
Orthophosphate	KONE	7187205	N/A	2021/02/08	Avneet Kour Sudan
Total Dissolved Solids	BAL	7186640	2021/02/05	2021/02/06	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7187234	2021/02/05	2021/02/09	Louise Harding
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OTS706
Sample ID: G11
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai
Anions	IC	7188690	N/A	2021/02/08	Fari Dehdezi
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
Hardness (calculated as CaCO3)		7184344	N/A	2021/02/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7186645	N/A	2021/02/08	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7187245	N/A	2021/02/07	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7186981	N/A	2021/02/05	Chandra Nandlal
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7186713	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7187205	N/A	2021/02/08	Avneet Kour Sudan
Total Dissolved Solids	BAL	7186640	2021/02/05	2021/02/06	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7187234	2021/02/05	2021/02/08	Louise Harding
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh

BV Labs ID: OTS707
Sample ID: G13
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai
Anions	IC	7188690	N/A	2021/02/08	Fari Dehdezi
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
Hardness (calculated as CaCO3)		7184344	N/A	2021/02/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7186645	N/A	2021/02/08	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7187245	N/A	2021/02/07	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7187278	N/A	2021/02/08	Chandra Nandlal
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7186836	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7187247	N/A	2021/02/08	Avneet Kour Sudan
Total Dissolved Solids	BAL	7186640	2021/02/05	2021/02/06	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7187234	2021/02/05	2021/02/08	Louise Harding
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh

BV Labs ID: OTS708
Sample ID: P10-V
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai
Anions	IC	7188694	N/A	2021/02/09	Fari Dehdezi
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
Hardness (calculated as CaCO3)		7184344	N/A	2021/02/08	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OTS708
Sample ID: P10-V
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7186645	N/A	2021/02/08	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7187245	N/A	2021/02/07	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7187278	N/A	2021/02/08	Chandra Nandlal
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7186836	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7187205	N/A	2021/02/08	Avneet Kour Sudan
Total Dissolved Solids	BAL	7188709	2021/02/06	2021/02/08	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7187234	2021/02/05	2021/02/09	Louise Harding
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh

BV Labs ID: OTS709
Sample ID: P4-IV
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai
Anions	IC	7188690	N/A	2021/02/08	Fari Dehdezi
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
Hardness (calculated as CaCO3)		7184344	N/A	2021/02/10	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7186645	N/A	2021/02/09	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7187245	N/A	2021/02/07	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7186981	N/A	2021/02/05	Chandra Nandlal
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7186713	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7187205	N/A	2021/02/08	Avneet Kour Sudan
Total Dissolved Solids	BAL	7188709	2021/02/06	2021/02/08	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7187234	2021/02/05	2021/02/09	Louise Harding
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh

BV Labs ID: OTS709 Dup
Sample ID: P4-IV
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7188709	2021/02/06	2021/02/08	Shaneil Hall

BV Labs ID: OTS710
Sample ID: 51-V
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai
Anions	IC	7188690	N/A	2021/02/08	Fari Dehdezi
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OTS710
Sample ID: 51-V
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
Hardness (calculated as CaCO3)		7184344	N/A	2021/02/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7186645	N/A	2021/02/08	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7187245	N/A	2021/02/07	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7186981	N/A	2021/02/05	Chandra Nandlal
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7186836	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7187205	N/A	2021/02/08	Avneet Kour Sudan
Total Dissolved Solids	BAL	7186640	2021/02/05	2021/02/06	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7187234	2021/02/05	2021/02/08	Louise Harding
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh

BV Labs ID: OTS710 Dup
Sample ID: 51-V
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh

BV Labs ID: OTS711
Sample ID: 9-I
Matrix: Water

Collected: 2021/02/02
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai
Anions	IC	7188690	N/A	2021/02/08	Fari Dehdezi
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
Hardness (calculated as CaCO3)		7184344	N/A	2021/02/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7186645	N/A	2021/02/08	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7187245	N/A	2021/02/07	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7186981	N/A	2021/02/05	Chandra Nandlal
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7186713	N/A	2021/02/05	Bramdeo Motiram
Orthophosphate	KONE	7187205	N/A	2021/02/08	Avneet Kour Sudan
Total Dissolved Solids	BAL	7186640	2021/02/05	2021/02/06	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7187234	2021/02/05	2021/02/09	Louise Harding
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh

BV Labs ID: OTS712
Sample ID: 47-IV
Matrix: Water

Collected: 2021/02/03
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OTS712
Sample ID: 47-IV
Matrix: Water

Collected: 2021/02/03
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7188690	N/A	2021/02/08	Fari Dehdezi
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
Hardness (calculated as CaCO3)		7184344	N/A	2021/02/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7186645	N/A	2021/02/08	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7187245	N/A	2021/02/07	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7186981	N/A	2021/02/05	Chandra Nandlal
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7186713	N/A	2021/02/08	Bramdeo Motiram
Orthophosphate	KONE	7187205	N/A	2021/02/08	Avneet Kour Sudan
Total Dissolved Solids	BAL	7186640	2021/02/05	2021/02/06	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7187234	2021/02/05	2021/02/09	Louise Harding
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh

BV Labs ID: OTS713
Sample ID: 4-II
Matrix: Water

Collected: 2021/02/03
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai
Anions	IC	7188690	N/A	2021/02/08	Fari Dehdezi
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
Hardness (calculated as CaCO3)		7184344	N/A	2021/02/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7186645	N/A	2021/02/06	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7187245	N/A	2021/02/07	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7186981	N/A	2021/02/05	Chandra Nandlal
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai
Orthophosphate	KONE	7187205	N/A	2021/02/08	Avneet Kour Sudan
Total Dissolved Solids	BAL	7186640	2021/02/05	2021/02/06	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7187234	2021/02/05	2021/02/08	Louise Harding
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh

BV Labs ID: OTS729
Sample ID: 52-III
Matrix: Water

Collected: 2021/02/03
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7187187	N/A	2021/02/08	Surinder Rai
Anions	IC	7188694	N/A	2021/02/09	Fari Dehdezi
Conductivity	AT	7187186	N/A	2021/02/08	Surinder Rai
Fluoride	ISE	7187178	2021/02/05	2021/02/08	Surinder Rai
Hardness (calculated as CaCO3)		7184344	N/A	2021/02/08	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7186645	N/A	2021/02/06	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7187245	N/A	2021/02/07	Amanpreet Sappal



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: OTS729
Sample ID: 52-III
Matrix: Water

Collected: 2021/02/03
Shipped:
Received: 2021/02/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7187278	N/A	2021/02/08	Chandra Nandlal
pH	AT	7187190	2021/02/05	2021/02/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7186713	N/A	2021/02/08	Bramdeo Motiram
Orthophosphate	KONE	7187205	N/A	2021/02/08	Avneet Kour Sudan
Total Dissolved Solids	BAL	7186640	2021/02/05	2021/02/06	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7187234	2021/02/05	2021/02/08	Louise Harding
Total Organic Carbon (TOC)	TOCV/NDIR	7187763	N/A	2021/02/06	Nimarta Singh



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	0.7°C
Package 2	0.0°C

Sample OTS705 [P6-IR] : Metals Analysis: Due to the sample matrix, the sample required dilution. Detection limits were adjusted accordingly.

Sample OTS729 [52-III] : ortho-Phosphate > Total Phosphorus: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C131308

Report Date: 2021/02/11

QUALITY ASSURANCE REPORT

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7186640	Total Dissolved Solids	2021/02/06					<10	mg/L	3.1	25	100	90 - 110
7186645	Dissolved Aluminum (Al)	2021/02/06	94	80 - 120	99	80 - 120	<4.9	ug/L				
7186645	Dissolved Antimony (Sb)	2021/02/06	92	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7186645	Dissolved Arsenic (As)	2021/02/06	89	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7186645	Dissolved Barium (Ba)	2021/02/06	87	80 - 120	97	80 - 120	<2.0	ug/L	1.3	20		
7186645	Dissolved Beryllium (Be)	2021/02/06	89	80 - 120	95	80 - 120	<0.40	ug/L	NC	20		
7186645	Dissolved Bismuth (Bi)	2021/02/06	82	80 - 120	97	80 - 120	<1.0	ug/L				
7186645	Dissolved Boron (B)	2021/02/06	87	80 - 120	94	80 - 120	<10	ug/L	0.50	20		
7186645	Dissolved Cadmium (Cd)	2021/02/06	86	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		
7186645	Dissolved Calcium (Ca)	2021/02/06	NC	80 - 120	98	80 - 120	<200	ug/L				
7186645	Dissolved Chromium (Cr)	2021/02/06	88	80 - 120	95	80 - 120	<5.0	ug/L	NC	20		
7186645	Dissolved Cobalt (Co)	2021/02/06	85	80 - 120	95	80 - 120	<0.50	ug/L	7.5	20		
7186645	Dissolved Copper (Cu)	2021/02/06	89	80 - 120	97	80 - 120	<0.90	ug/L	17	20		
7186645	Dissolved Iron (Fe)	2021/02/06	87	80 - 120	95	80 - 120	<100	ug/L				
7186645	Dissolved Lead (Pb)	2021/02/06	80	80 - 120	94	80 - 120	<0.50	ug/L	NC	20		
7186645	Dissolved Lithium (Li)	2021/02/06	87	80 - 120	98	80 - 120	<5.0	ug/L				
7186645	Dissolved Magnesium (Mg)	2021/02/06	NC	80 - 120	95	80 - 120	<50	ug/L				
7186645	Dissolved Manganese (Mn)	2021/02/06	85	80 - 120	95	80 - 120	<2.0	ug/L				
7186645	Dissolved Molybdenum (Mo)	2021/02/06	97	80 - 120	99	80 - 120	<0.50	ug/L	12	20		
7186645	Dissolved Nickel (Ni)	2021/02/06	82	80 - 120	94	80 - 120	<1.0	ug/L	9.3	20		
7186645	Dissolved Phosphorus (P)	2021/02/06	91	80 - 120	116	80 - 120	<100	ug/L				
7186645	Dissolved Potassium (K)	2021/02/06	90	80 - 120	96	80 - 120	<200	ug/L				
7186645	Dissolved Selenium (Se)	2021/02/06	87	80 - 120	99	80 - 120	<2.0	ug/L	NC	20		
7186645	Dissolved Silicon (Si)	2021/02/06	95	80 - 120	98	80 - 120	<50	ug/L				
7186645	Dissolved Silver (Ag)	2021/02/06	72 (1)	80 - 120	92	80 - 120	<0.090	ug/L	NC	20		
7186645	Dissolved Sodium (Na)	2021/02/06	NC	80 - 120	95	80 - 120	<100	ug/L				
7186645	Dissolved Strontium (Sr)	2021/02/06	NC	80 - 120	95	80 - 120	<1.0	ug/L				
7186645	Dissolved Tellurium (Te)	2021/02/06	86	80 - 120	98	80 - 120	<1.0	ug/L				
7186645	Dissolved Thallium (Tl)	2021/02/06	80	80 - 120	93	80 - 120	<0.050	ug/L	NC	20		
7186645	Dissolved Tin (Sn)	2021/02/06	94	80 - 120	98	80 - 120	<1.0	ug/L				
7186645	Dissolved Titanium (Ti)	2021/02/06	92	80 - 120	99	80 - 120	<5.0	ug/L				



BUREAU
VERITAS

BV Labs Job #: C131308

Report Date: 2021/02/11

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7186645	Dissolved Tungsten (W)	2021/02/06	91	80 - 120	96	80 - 120	<1.0	ug/L				
7186645	Dissolved Uranium (U)	2021/02/06	91	80 - 120	99	80 - 120	<0.10	ug/L	3.4	20		
7186645	Dissolved Vanadium (V)	2021/02/06	90	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
7186645	Dissolved Zinc (Zn)	2021/02/06	82	80 - 120	95	80 - 120	<5.0	ug/L	NC	20		
7186645	Dissolved Zirconium (Zr)	2021/02/06	98	80 - 120	101	80 - 120	<1.0	ug/L				
7186713	Phenols-4AAP	2021/02/05	103	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20		
7186836	Phenols-4AAP	2021/02/05	104	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20		
7186981	Nitrate (N)	2021/02/05	97	80 - 120	94	80 - 120	<0.10	mg/L	0.39	20		
7186981	Nitrite (N)	2021/02/05	104	80 - 120	103	80 - 120	<0.010	mg/L	NC	20		
7187178	Fluoride (F-)	2021/02/08	108	80 - 120	103	80 - 120	<0.10	mg/L	1.4	20		
7187186	Conductivity	2021/02/08			101	85 - 115	<1.0	umho/cm	0	25		
7187187	Alkalinity (Total as CaCO3)	2021/02/08			97	85 - 115	<1.0	mg/L	4.9	20		
7187190	pH	2021/02/08			102	98 - 103			1.9	N/A		
7187205	Orthophosphate (P)	2021/02/08	96	75 - 125	98	80 - 120	<0.010	mg/L	NC	25		
7187234	Total Kjeldahl Nitrogen (TKN)	2021/02/08	109	80 - 120	106	80 - 120	<0.10	mg/L	12	20	104	80 - 120
7187245	Total Ammonia-N	2021/02/07	94	75 - 125	99	80 - 120	<0.050	mg/L	NC	20		
7187247	Orthophosphate (P)	2021/02/08	105	75 - 125	102	80 - 120	<0.010	mg/L	NC	25		
7187278	Nitrate (N)	2021/02/08	101	80 - 120	102	80 - 120	<0.10	mg/L	0.10	20		
7187278	Nitrite (N)	2021/02/08	104	80 - 120	106	80 - 120	<0.010	mg/L	0.57	20		
7187763	Total Organic Carbon (TOC)	2021/02/06	93	80 - 120	95	80 - 120	<0.40	mg/L	0.42	20		
7188690	Dissolved Bromide (Br-)	2021/02/08	113	80 - 120	111	80 - 120	<1.0	mg/L	NC	20		
7188690	Dissolved Chloride (Cl-)	2021/02/08	NC	80 - 120	99	70 - 130	<1.0	mg/L	0.69	20		
7188690	Dissolved Sulphate (SO4)	2021/02/08	NC	80 - 120	101	80 - 120	<1.0	mg/L	0.68	20		
7188694	Dissolved Bromide (Br-)	2021/02/09	118	80 - 120	111	80 - 120	<1.0	mg/L	NC	20		
7188694	Dissolved Chloride (Cl-)	2021/02/09	102	80 - 120	99	70 - 130	<1.0	mg/L				
7188694	Dissolved Sulphate (SO4)	2021/02/09	103	80 - 120	101	80 - 120	<1.0	mg/L				



BUREAU
VERITAS

BV Labs Job #: C131308

Report Date: 2021/02/11

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7188709	Total Dissolved Solids	2021/02/08					<10	mg/L	1.1	25	100	90 - 110

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

BV Labs Job #: C131308
Report Date: 2021/02/11

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

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

Brad Newman, B.Sc., C.Chem., Scientific Service Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental		Company Name: Brad Mullin - GHD Reporting		Quotation #: B60569		BV Labs Job #:	
Attention: Accounting		Attention: Brad Mullin - GHD Reporting		P.O. #:		Bottle Order #:	
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5		Address:		Project: GW		COC #:	
Tel: (905) 561-0305 Fax: (905) 561-1674		Tel: Fax:		Project Name: GW		Project Manager:	
Email: kbailey@terrapureenv.com		Email: bmullin@terrapureenv.com, dtaylor2@terrapureenv.com		Site #:		Jolanta Goralczyk	
				Sampled By:		C#808571-15-01	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)				Turnaround Time (TAT) Required: Please provide advance notice for rush projects		
Regulation 153 (2011)		Other Regulations		Special Instructions		Field Filtered (please circle): Metals / Ig / Cr VI	List "A" GW Monitoring	GW List "A" - Excluding Phenols				Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.
<input type="checkbox"/> Table 1 <input type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Fine <input type="checkbox"/> Table 2 <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Table 3 <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC <input type="checkbox"/> Table _____		<input type="checkbox"/> CCME <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Reg 558 <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> MISA Municipality _____ <input type="checkbox"/> PWQO <input type="checkbox"/> Reg 406 Table _____ <input type="checkbox"/> Other _____										Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix							# of Bottles	Comments
1	P7-IR	21/02/02	AM	GW	Y	✓					6	
2	P8-IR	↑		GW	Y	✓					6	
3	G11			GW	Y	✓					6	
4	G13			GW	Y	✓					5	
5	P10-IV			GW	Y	✓					6	
6	P4-IV			GW	Y	✓					6	
7	51-V			GW	Y	✓					6	
8	9-I	21/02/02		GW	Y	✓					6	
9	47-IV	21/02/03		GW	Y	✓					6	
10	4-II	21/02/03		GW	Y	✓					5	

04-Feb-21 15:33
Jolanta Goralczyk
C131308
ATM ENV-762

* RELINQUISHED BY (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
	21/02/04	AM		02/10/2021	5:33		Time Sensitive	Temperature (°C) on Recept	Custody Seal Present	Yes	No
								1/110 0/160	Intact	✓	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.
 ** IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.
 *** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.
 White: BV Labs Yellow: Client
 SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS



Bureau Veritas Laboratories
6740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental		Company Name:		Quotation #: B60569		BV Labs Job #:	
Attention: Accounting		Attention: Brad Mullin - GHD Reporting		P.O. #:		Bottle Order #:	
Address: 65 Green Mountain Rd West		Address:		Project: GW		COC #:	
Stoney Creek ON L8J 1X5				Project Name: GW		Project Manager:	
Tel: (905) 561-0305 Fax: (905) 561-1674		Tel:		Site #:		Jolanta Goralczyk	
Email: kbailey@terrapureenv.com		Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		Sampled By:		C#808571-16-01	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						Field Filtered (please circle): Metals / Hg / Cr / V List "A" GW Monitoring	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects					
Regulation 153 (2011)		Other Regulations		Special Instructions													Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.					
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw																		
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw																		
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____																		
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWQO	Reg 406 Table _____																		
Include Criteria on Certificate of Analysis (Y/N)?																						
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix																		
	52-III	21/02/03	Am	GW	Y	✓																
1																						
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

* RELINQUISHED BY: (Signature/Print)	Date: YY/MM/DD	Time	RECEIVED BY: (Signature/Print)	Date: YY/MM/DD	Time	# jars used and not submitted	Laboratory Use Only				
<i>[Signature]</i>	21/02/04	Am	<i>[Signature]</i>	2021/02/04	15:33		Time Sensitive	Temperature (°C) on Reccal	Custody Seal Present	Yes	No
								1/1/0 0/0/0	Intact	✓	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.

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** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS

White: BV Labs Yellow: Client



Your Project #: GW
Your C.O.C. #: 808253-19-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/02/25
Report #: R6533251
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C147042

Received: 2021/02/22, 15:37

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	1	N/A	2021/02/23	CAM SOP-00448	SM 23 2320 B m
Anions	1	N/A	2021/02/24	CAM SOP-00435	SM 23 4110 B m
Conductivity	1	N/A	2021/02/23	CAM SOP-00414	SM 23 2510 m
Fluoride	1	2021/02/22	2021/02/23	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	1	N/A	2021/02/25	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	1	N/A	2021/02/23	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	1	N/A	2021/02/24	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	1	N/A	2021/02/23	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	1	2021/02/22	2021/02/23	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	1	N/A	2021/02/24	CAM SOP-00444	OMOE E3179 m
Orthophosphate	1	N/A	2021/02/23	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	1	2021/02/24	2021/02/25	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	1	2021/02/23	2021/02/25	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	1	N/A	2021/02/25	CAM SOP-00446	SM 23 5310B m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

- (1) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
- (2) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
25 Feb 2021 17:27:54

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

=====
This report has been generated and distributed using a secure automated process.

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



BUREAU
VERITAS

BV Labs Job #: C147042
Report Date: 2021/02/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		OXB881			OXB881		
Sampling Date		2021/02/18			2021/02/18		
COC Number		808253-19-01			808253-19-01		
	UNITS	P8-I	RDL	QC Batch	P8-I Lab-Dup	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L	2100	1.0	7211474			
Inorganics							
Total Ammonia-N	mg/L	160 (1)	1.0	7213668			
Conductivity	umho/cm	18000	1.0	7211789	18000	1.0	7211789
Total Dissolved Solids	mg/L	10500	20	7215087			
Fluoride (F-)	mg/L	2.7	0.10	7211761	2.7	0.10	7211761
Total Kjeldahl Nitrogen (TKN)	mg/L	160 (1)	5.0	7213189			
Total Organic Carbon (TOC)	mg/L	28	0.40	7215737	28	0.40	7215737
Orthophosphate (P)	mg/L	<0.10 (2)	0.10	7211780			
pH	pH	7.21		7211764	7.19		7211764
Phenols-4AAP	mg/L	0.0056	0.0020	7214909			
Alkalinity (Total as CaCO3)	mg/L	320	1.0	7211762	320	1.0	7211762
Nitrite (N)	mg/L	<0.010	0.010	7211965			
Dissolved Chloride (Cl-)	mg/L	4700	50	7213280	4600	50	7213280
Nitrate (N)	mg/L	<0.10	0.10	7211965			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7211965			
Dissolved Bromide (Br-)	mg/L	<50	50	7213280	<50	50	7213280
Dissolved Sulphate (SO4)	mg/L	2100	50	7213280	2100	50	7213280
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) TKN < NH4: Both values fall within acceptable RPD limits for duplicates and are likely equivalent. (2) Due to colour interferences, sample required dilution. Detection limit was adjusted accordingly.							



BUREAU
VERITAS

BV Labs Job #: C147042
Report Date: 2021/02/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		OXB881		
Sampling Date		2021/02/18		
COC Number		808253-19-01		
	UNITS	P8-I	RDL	QC Batch
Metals				
Dissolved Aluminum (Al)	ug/L	66	25	7212789
Dissolved Antimony (Sb)	ug/L	<2.5	2.5	7212789
Dissolved Arsenic (As)	ug/L	<5.0	5.0	7212789
Dissolved Barium (Ba)	ug/L	43	10	7212789
Dissolved Beryllium (Be)	ug/L	<2.0	2.0	7212789
Dissolved Bismuth (Bi)	ug/L	<5.0	5.0	7212789
Dissolved Boron (B)	ug/L	2100	50	7212789
Dissolved Cadmium (Cd)	ug/L	<0.45	0.45	7212789
Dissolved Calcium (Ca)	ug/L	650000	1000	7212789
Dissolved Chromium (Cr)	ug/L	<25	25	7212789
Dissolved Cobalt (Co)	ug/L	<2.5	2.5	7212789
Dissolved Copper (Cu)	ug/L	<4.5	4.5	7212789
Dissolved Iron (Fe)	ug/L	16000	500	7212789
Dissolved Lead (Pb)	ug/L	<2.5	2.5	7212789
Dissolved Lithium (Li)	ug/L	240	25	7212789
Dissolved Magnesium (Mg)	ug/L	110000	250	7212789
Dissolved Manganese (Mn)	ug/L	930	10	7212789
Dissolved Molybdenum (Mo)	ug/L	4.7	2.5	7212789
Dissolved Nickel (Ni)	ug/L	5.0	5.0	7212789
Dissolved Phosphorus (P)	ug/L	<500	500	7212789
Dissolved Potassium (K)	ug/L	130000	1000	7212789
Dissolved Selenium (Se)	ug/L	<10	10	7212789
Dissolved Silicon (Si)	ug/L	22000	250	7212789
Dissolved Silver (Ag)	ug/L	<0.45	0.45	7212789
Dissolved Sodium (Na)	ug/L	2800000	500	7212789
Dissolved Strontium (Sr)	ug/L	5300	5.0	7212789
Dissolved Tellurium (Te)	ug/L	<5.0	5.0	7212789
Dissolved Thallium (Tl)	ug/L	<0.25	0.25	7212789
Dissolved Tin (Sn)	ug/L	<5.0	5.0	7212789
Dissolved Titanium (Ti)	ug/L	<25	25	7212789
Dissolved Tungsten (W)	ug/L	<5.0	5.0	7212789
Dissolved Uranium (U)	ug/L	<0.50	0.50	7212789
Dissolved Vanadium (V)	ug/L	<2.5	2.5	7212789
Dissolved Zinc (Zn)	ug/L	<25	25	7212789
Dissolved Zirconium (Zr)	ug/L	<5.0	5.0	7212789
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C147042
Report Date: 2021/02/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: OXB881
Sample ID: P8-I
Matrix: Water

Collected: 2021/02/18
Shipped:
Received: 2021/02/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7211762	N/A	2021/02/23	Surinder Rai
Anions	IC	7213280	N/A	2021/02/24	Fari Dehdezi
Conductivity	AT	7211789	N/A	2021/02/23	Surinder Rai
Fluoride	ISE	7211761	2021/02/22	2021/02/23	Surinder Rai
Hardness (calculated as CaCO3)		7211474	N/A	2021/02/25	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7212789	N/A	2021/02/23	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7213668	N/A	2021/02/24	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7211965	N/A	2021/02/23	Chandra Nandlal
pH	AT	7211764	2021/02/22	2021/02/23	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7214909	N/A	2021/02/24	Bramdeo Motiram
Orthophosphate	KONE	7211780	N/A	2021/02/23	Avneet Kour Sudan
Total Dissolved Solids	BAL	7215087	2021/02/24	2021/02/25	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7213189	2021/02/23	2021/02/25	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7215737	N/A	2021/02/25	Nimarta Singh

BV Labs ID: OXB881 Dup
Sample ID: P8-I
Matrix: Water

Collected: 2021/02/18
Shipped:
Received: 2021/02/22

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7211762	N/A	2021/02/23	Surinder Rai
Anions	IC	7213280	N/A	2021/02/24	Fari Dehdezi
Conductivity	AT	7211789	N/A	2021/02/23	Surinder Rai
Fluoride	ISE	7211761	2021/02/22	2021/02/23	Surinder Rai
pH	AT	7211764	2021/02/22	2021/02/23	Surinder Rai
Total Organic Carbon (TOC)	TOCV/NDIR	7215737	N/A	2021/02/25	Nimarta Singh



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	0.3°C
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Sample OXB881 [P8-I] : Metals Analysis: Due to the sample matrix, the sample required dilution. Detection limits were adjusted accordingly.

Anions Analysis: Due to the sample matrix, sample required dilution. Detection limits were adjusted accordingly.

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C147042

Report Date: 2021/02/25

QUALITY ASSURANCE REPORT

Terrapure Environmental

Client Project #: GW

Sampler Initials: DT

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7211761	Fluoride (F-)	2021/02/23	94	80 - 120	98	80 - 120	<0.10	mg/L	0.51	20		
7211762	Alkalinity (Total as CaCO3)	2021/02/23			97	85 - 115	<1.0	mg/L	0.054	20		
7211764	pH	2021/02/23			102	98 - 103			0.26	N/A		
7211780	Orthophosphate (P)	2021/02/23	103	75 - 125	102	80 - 120	<0.010	mg/L	NC	25		
7211789	Conductivity	2021/02/23			101	85 - 115	<1.0	umho/cm	0.11	25		
7211965	Nitrate (N)	2021/02/23	89	80 - 120	93	80 - 120	<0.10	mg/L	NC	20		
7211965	Nitrite (N)	2021/02/23	104	80 - 120	107	80 - 120	<0.010	mg/L	3.8	20		
7212789	Dissolved Aluminum (Al)	2021/02/23	110	80 - 120	103	80 - 120	<4.9	ug/L				
7212789	Dissolved Antimony (Sb)	2021/02/23	112	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7212789	Dissolved Arsenic (As)	2021/02/23	107	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
7212789	Dissolved Barium (Ba)	2021/02/23	106	80 - 120	99	80 - 120	<2.0	ug/L	0.69	20		
7212789	Dissolved Beryllium (Be)	2021/02/23	106	80 - 120	97	80 - 120	<0.40	ug/L	NC	20		
7212789	Dissolved Bismuth (Bi)	2021/02/23	102	80 - 120	95	80 - 120	<1.0	ug/L				
7212789	Dissolved Boron (B)	2021/02/23	101	80 - 120	95	80 - 120	<10	ug/L	0.40	20		
7212789	Dissolved Cadmium (Cd)	2021/02/23	107	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		
7212789	Dissolved Calcium (Ca)	2021/02/23	NC	80 - 120	100	80 - 120	<200	ug/L				
7212789	Dissolved Chromium (Cr)	2021/02/23	103	80 - 120	94	80 - 120	<5.0	ug/L	NC	20		
7212789	Dissolved Cobalt (Co)	2021/02/23	101	80 - 120	93	80 - 120	<0.50	ug/L	NC	20		
7212789	Dissolved Copper (Cu)	2021/02/23	106	80 - 120	98	80 - 120	<0.90	ug/L	1.0	20		
7212789	Dissolved Iron (Fe)	2021/02/23	102	80 - 120	93	80 - 120	<100	ug/L				
7212789	Dissolved Lead (Pb)	2021/02/23	98	80 - 120	91	80 - 120	<0.50	ug/L	NC	20		
7212789	Dissolved Lithium (Li)	2021/02/23	107	80 - 120	99	80 - 120	<5.0	ug/L				
7212789	Dissolved Magnesium (Mg)	2021/02/23	NC	80 - 120	95	80 - 120	<50	ug/L				
7212789	Dissolved Manganese (Mn)	2021/02/23	103	80 - 120	95	80 - 120	<2.0	ug/L				
7212789	Dissolved Molybdenum (Mo)	2021/02/23	111	80 - 120	100	80 - 120	<0.50	ug/L	1.6	20		
7212789	Dissolved Nickel (Ni)	2021/02/23	99	80 - 120	93	80 - 120	<1.0	ug/L	0.18	20		
7212789	Dissolved Phosphorus (P)	2021/02/23	118	80 - 120	122 (1)	80 - 120	<100	ug/L				
7212789	Dissolved Potassium (K)	2021/02/23	106	80 - 120	97	80 - 120	<200	ug/L				
7212789	Dissolved Selenium (Se)	2021/02/23	106	80 - 120	99	80 - 120	<2.0	ug/L	NC	20		
7212789	Dissolved Silicon (Si)	2021/02/23	109	80 - 120	100	80 - 120	<50	ug/L				



BUREAU
VERITAS

BV Labs Job #: C147042

Report Date: 2021/02/25

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: DT

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7212789	Dissolved Silver (Ag)	2021/02/23	99	80 - 120	97	80 - 120	<0.090	ug/L	NC	20		
7212789	Dissolved Sodium (Na)	2021/02/23	NC	80 - 120	95	80 - 120	<100	ug/L	1.6	20		
7212789	Dissolved Strontium (Sr)	2021/02/23	NC	80 - 120	96	80 - 120	<1.0	ug/L				
7212789	Dissolved Tellurium (Te)	2021/02/23	107	80 - 120	99	80 - 120	<1.0	ug/L				
7212789	Dissolved Thallium (Tl)	2021/02/23	98	80 - 120	90	80 - 120	<0.050	ug/L	NC	20		
7212789	Dissolved Tin (Sn)	2021/02/23	111	80 - 120	99	80 - 120	<1.0	ug/L				
7212789	Dissolved Titanium (Ti)	2021/02/23	112	80 - 120	99	80 - 120	<5.0	ug/L				
7212789	Dissolved Tungsten (W)	2021/02/23	104	80 - 120	94	80 - 120	<1.0	ug/L				
7212789	Dissolved Uranium (U)	2021/02/23	104	80 - 120	96	80 - 120	<0.10	ug/L	0.58	20		
7212789	Dissolved Vanadium (V)	2021/02/23	105	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
7212789	Dissolved Zinc (Zn)	2021/02/23	100	80 - 120	93	80 - 120	<5.0	ug/L	0.080	20		
7212789	Dissolved Zirconium (Zr)	2021/02/23	114	80 - 120	102	80 - 120	<1.0	ug/L				
7213189	Total Kjeldahl Nitrogen (TKN)	2021/02/24	107	80 - 120	97	80 - 120	<0.10	mg/L	NC (2)	20	97	80 - 120
7213280	Dissolved Bromide (Br-)	2021/02/24	102	80 - 120	106	80 - 120	<1.0	mg/L	NC	20		
7213280	Dissolved Chloride (Cl-)	2021/02/24	NC	80 - 120	96	70 - 130	<1.0	mg/L	0.37	20		
7213280	Dissolved Sulphate (SO4)	2021/02/24	NC	80 - 120	97	80 - 120	<1.0	mg/L	0.54	20		
7213668	Total Ammonia-N	2021/02/24	97	75 - 125	100	80 - 120	<0.050	mg/L	5.6	20		
7214909	Phenols-4AAP	2021/02/24	100	80 - 120	98	80 - 120	<0.0010	mg/L	0	20		
7215087	Total Dissolved Solids	2021/02/25					<10	mg/L	2.8	25	100	90 - 110



BUREAU
VERITAS

BV Labs Job #: C147042
Report Date: 2021/02/25

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7215737	Total Organic Carbon (TOC)	2021/02/25	NC	80 - 120	98	80 - 120	<0.40	mg/L	0.43	20		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

(2) Due to a high concentration of NO_x, the sample required dilution. The detection limit was adjusted accordingly.



BUREAU
VERITAS

BV Labs Job #: C147042
Report Date: 2021/02/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Anastassia Hamanov, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Bureau Veritas Laboratories
6743 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free: 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental		Company Name:		Quotation #: B60569		BV Labs Job #:	
Attention: Accounting		Attention: Brad Mullin		P.O. #:		Bottle Order #:	
Address: 65 Green Mountain Rd West		Address:		Project Name:		COC #:	
Stoney Creek ON L8J 1X5				Site #:		Project Manager:	
Tel: (905) 561-0305 Fax: (905) 561-1674		Tel: (905) 548-5882 Fax: (905) 578-7533		Sampled By:		Jolanta Goralczyk	
Email: kbailey@terrapureenv.com		Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com				C#808253-19-01	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY						ANALYSIS REQUESTED (PLEASE BE SPECIFIC)		Turnaround Time (TAT) Required: Please provide advance notice for rush projects	
Regulation 153 (2011)		Other Regulations		Special Instructions				Regular (Standard) TAT:	
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw				<input checked="" type="checkbox"/> Regular (Standard) TAT: (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
<input type="checkbox"/> Table 2	<input type="checkbox"/> Ind/Comm	<input type="checkbox"/> Coarse	<input type="checkbox"/> Reg 558	<input type="checkbox"/> Storm Sewer Bylaw				Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)	
<input type="checkbox"/> Table 3	<input type="checkbox"/> Agri/Other	<input type="checkbox"/> For RSC	<input type="checkbox"/> MISA	Municipality _____					
<input type="checkbox"/> Table _____			<input type="checkbox"/> PWOO	Reg 406 Table _____					
Include Criteria on Certificate of Analysis (Y/N)?									
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI			# of Bottles	Comments
1	P8-I	Feb 18 2021	AM	water	Y	✓		6	
2									
3									
4									
5									
6									
7									
8									
9									
10									

22-Feb-21 15:37
Jolanta Goralczyk
C147042
GID ENV-1381

RELINQUISHED BY: (Signature/Print) <i>2 Taylor / Dan Taylor</i>	Date: (YY/MM/DD) 21/02/22	Time 10:30	RECEIVED BY: (Signature/Print) <i>[Signature]</i>	Date: (YY/MM/DD) 02/10/22	Time 15:37	# jars used and not submitted	Laboratory Use Only			
							Time Sensitive	Temperature (°C) on Recept 0/0/1	Custody Seal Present Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.
** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.

SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS



Your Project #: EQ LEACH
Your C.O.C. #: 815199-01-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/03/12
Report #: R6553107
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C158424

Received: 2021/03/04, 15:50

Sample Matrix: Leachate
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
ABN Compounds in Water by GC/MS	1	2021/03/09	2021/03/09	CAM SOP-00301	EPA 8270 m
Alkalinity	1	N/A	2021/03/05	CAM SOP-00448	SM 23 2320 B m
Anions	1	N/A	2021/03/05	CAM SOP-00435	SM 23 4110 B m
Biochemical Oxygen Demand (BOD)	1	2021/03/05	2021/03/10	CAM SOP-00427	SM 23 5210B m
Conductivity	1	N/A	2021/03/05	CAM SOP-00414	SM 23 2510 m
Fluoride	1	2021/03/05	2021/03/05	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	1	N/A	2021/03/09	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Calcium and Magnesium	1	2021/03/05	2021/03/08	CAM SOP-00408	EPA 6010D m
Total Metals Analysis by ICPMS	1	N/A	2021/03/08	CAM SOP-00447	EPA 6020B m
Resin and Fatty Acids (1)	1	2021/03/11	2021/03/12	STL SOP-00152	MA414-Aci-g-r-1.0R3m
Neutral Chlorinated in Water by GC/ECD	1	2021/03/05	2021/03/09	CAM SOP-00317	EPA 8121 m
Total Ammonia-N	1	N/A	2021/03/08	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (2)	1	N/A	2021/03/05	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Polychlorinated Biphenyl in Water	1	2021/03/08	2021/03/09	CAM SOP-00309	EPA 8082A m
pH	1	2021/03/05	2021/03/05	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	1	N/A	2021/03/08	CAM SOP-00444	OMOE E3179 m
Orthophosphate	1	N/A	2021/03/08	CAM SOP-00461	EPA 365.1 m
Total Kjeldahl Nitrogen in Water	1	2021/03/05	2021/03/05	CAM SOP-00938	OMOE E3516 m
Tot./Min./ Animal & Veg. Oil and Grease	1	2021/03/10	2021/03/10	CAM SOP-00326	EPA 821/R-98-002 m
Total Organic Carbon (TOC) (3)	1	N/A	2021/03/05	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric)	1	2021/03/08	2021/03/08	CAM SOP-00407	SM 23 4500 P B H m
Total Suspended Solids	1	2021/03/05	2021/03/06	CAM SOP-00428	SM 23 2540D m
Volatile Organic Compounds in Water	1	N/A	2021/03/05	CAM SOP-00226	EPA 8260C m
Non-Routine Volatile Organic Compounds	1	N/A	2021/03/05	CAM SOP-00226	EPA 8260 m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by BVLab Montreal via Mississauga

(2) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

(3) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



Your Project #: EQ LEACH
Your C.O.C. #: 815199-01-01

Attention: Brad Mullin - GHD Reporting

Terrapure Environmental
65 Green Mountain Rd West
Stoney Creek, ON
CANADA L8J 1X5

Report Date: 2021/03/12
Report #: R6553107
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C158424

Received: 2021/03/04, 15:50

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
12 Mar 2021 18:46:26

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Jolanta Goralczyk, Project Manager
Email: Jolanta.Goralczyk@bureauveritas.com
Phone# (905)817-5751

=====
This report has been generated and distributed using a secure automated process.
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BUREAU
VERITAS

BV Labs Job #: C158424
Report Date: 2021/03/12

Terrapure Environmental
Client Project #: EQ LEACH

MISA ATG 19 & 20 (ABNS)

BV Labs ID		OZM826		
Sampling Date		2021/03/03		
COC Number		815199-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
Semivolatile Organics				
Acenaphthene	ug/L	<2.0	2.0	7236295
Acenaphthylene	ug/L	<2.0	2.0	7236295
Anthracene	ug/L	<2.0	2.0	7236295
Benzo(a)anthracene	ug/L	<2.0	2.0	7236295
Benzo(a)pyrene	ug/L	<2.0	2.0	7236295
Benzo(b,j)fluoranthene	ug/L	<2.0	2.0	7236295
Benzo(g,h,i)perylene	ug/L	<2.0	2.0	7236295
Benzo(k)fluoranthene	ug/L	<2.0	2.0	7236295
1-Chloronaphthalene	ug/L	<10	10	7236295
2-Chloronaphthalene	ug/L	<5.0	5.0	7236295
Chrysene	ug/L	<2.0	2.0	7236295
Dibenzo(a,h)anthracene	ug/L	<2.0	2.0	7236295
Fluoranthene	ug/L	<2.0	2.0	7236295
Fluorene	ug/L	<2.0	2.0	7236295
Indeno(1,2,3-cd)pyrene	ug/L	<2.0	2.0	7236295
1-Methylnaphthalene	ug/L	2.1	2.0	7236295
2-Methylnaphthalene	ug/L	<2.0	2.0	7236295
Naphthalene	ug/L	21	2.0	7236295
5-Nitroacenaphthene	ug/L	<10	10	7236295
Perylene	ug/L	<2.0	2.0	7236295
Phenanthrene	ug/L	<2.0	2.0	7236295
Pyrene	ug/L	<2.0	2.0	7236295
2-Chlorophenol	ug/L	<3.0	3.0	7236295
4-Chloro-3-Methylphenol	ug/L	<5.0	5.0	7236295
m/p-Cresol	ug/L	110	5.0	7236295
o-Cresol	ug/L	22	5.0	7236295
2,4-Dichlorophenol	ug/L	<3.0	3.0	7236295
2,6-Dichlorophenol	ug/L	<5.0	5.0	7236295
2,4-Dimethylphenol	ug/L	<5.0	5.0	7236295
2,4-Dinitrophenol	ug/L	<50	50	7236295
4,6-Dinitro-2-methylphenol	ug/L	<20	20	7236295
4-Nitrophenol	ug/L	<14	14	7236295
Pentachlorophenol	ug/L	<10	10	7236295
Phenol	ug/L	180	5.0	7236295
2,3,4,5-Tetrachlorophenol	ug/L	<4.0	4.0	7236295
2,3,4,6-Tetrachlorophenol	ug/L	<5.0	5.0	7236295
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



MISA ATG 19 & 20 (ABNS)

BV Labs ID		OZM826		
Sampling Date		2021/03/03		
COC Number		815199-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
2,3,5,6-Tetrachlorophenol	ug/L	<5.0	5.0	7236295
2,3,4-Trichlorophenol	ug/L	<5.0	5.0	7236295
2,3,5-Trichlorophenol	ug/L	<5.0	5.0	7236295
2,4,5-Trichlorophenol	ug/L	<5.0	5.0	7236295
2,4,6-Trichlorophenol	ug/L	<5.0	5.0	7236295
Benzyl butyl phthalate	ug/L	<5.0	5.0	7236295
Biphenyl	ug/L	<5.0	5.0	7236295
Bis(2-chloroethyl)ether	ug/L	<5.0	5.0	7236295
Bis(2-chloroethoxy)methane	ug/L	<5.0	5.0	7236295
Bis(2-chloroisopropyl)ether	ug/L	<5.0	5.0	7236295
Bis(2-ethylhexyl)phthalate	ug/L	<20	20	7236295
4-Bromophenyl phenyl ether	ug/L	<3.0	3.0	7236295
Camphene	ug/L	<10	10	7236295
4-Chlorophenyl phenyl ether	ug/L	<5.0	5.0	7236295
Di-N-butyl phthalate	ug/L	<20	20	7236295
di-n-octyl phthalate	ug/L	<8.0	8.0	7236295
2,4-Dinitrotoluene	ug/L	<5.0	5.0	7236295
2,6-Dinitrotoluene	ug/L	<5.0	5.0	7236295
Diphenyl Ether	ug/L	<3.0	3.0	7236295
Indole	ug/L	<10	10	7236295
Nitrosodiphenylamine/Diphenylamine	ug/L	<10	10	7236295
N-Nitroso-di-n-propylamine	ug/L	<5.0	5.0	7236295
Surrogate Recovery (%)				
2,4,6-Tribromophenol	%	99		7236295
2-Fluorobiphenyl	%	62		7236295
2-Fluorophenol	%	38		7236295
D14-Terphenyl	%	101		7236295
D5-Nitrobenzene	%	71		7236295
D5-Phenol	%	24		7236295
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



MISA ATG23 NEUTRAL CHLORINATED COMPOUNDS (LEACHATE)

BV Labs ID		OZM826	OZM826		
Sampling Date		2021/03/03	2021/03/03		
COC Number		815199-01-01	815199-01-01		
	UNITS	EQ LEACH	EQ LEACH Lab-Dup	RDL	QC Batch
Pesticides & Herbicides					
1,2,3,4-Tetrachlorobenzene	ug/L	<0.040	<0.040	0.040	7231608
1,2,3,5-Tetrachlorobenzene	ug/L	<0.040	<0.040	0.040	7231608
1,2,3-Trichlorobenzene	ug/L	<0.040	<0.040	0.040	7231608
1,2,4,5-Tetrachlorobenzene	ug/L	<0.040	<0.040	0.040	7231608
1,2,4-Trichlorobenzene	ug/L	<0.040	<0.040	0.040	7231608
2,4,5-Trichlorotoluene	ug/L	<0.040	<0.040	0.040	7231608
Hexachlorobenzene	ug/L	<0.040	<0.040	0.040	7231608
Hexachlorobutadiene	ug/L	<0.0090	<0.0090	0.0090	7231608
Hexachlorocyclopentadiene	ug/L	<0.025	<0.025	0.025	7231608
Hexachloroethane	ug/L	<0.010	<0.010	0.010	7231608
Octachlorostyrene	ug/L	<0.040	<0.040	0.040	7231608
Pentachlorobenzene	ug/L	<0.040	<0.040	0.040	7231608
Surrogate Recovery (%)					
1,3,5-Tribromobenzene	%	77	76		7231608
2,4,5,6-Tetrachloro-m-xylene	%	71	73		7231608
Decachlorobiphenyl	%	81	71		7231608
Hexabromobenzene	%	85	70		7231608
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate					



BUREAU
VERITAS

BV Labs Job #: C158424
Report Date: 2021/03/12

Terrapure Environmental
Client Project #: EQ LEACH

MISA ATG 16-18 VOLATILE ORGANICS (LEACHATE)

BV Labs ID		OZM826		
Sampling Date		2021/03/03		
COC Number		815199-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
Volatile Organics				
Acetone (2-Propanone)	ug/L	2100	500	7229592
Benzene	ug/L	13	5.0	7229592
Bromodichloromethane	ug/L	<5.0	5.0	7229592
Acrolein	ug/L	<500	500	7229594
Bromoform	ug/L	<10	10	7229592
Bromomethane	ug/L	<25	25	7229592
Carbon Tetrachloride	ug/L	<5.0	5.0	7229592
Chlorobenzene	ug/L	<5.0	5.0	7229592
Chloroform	ug/L	<5.0	5.0	7229592
Acrylonitrile	ug/L	<250	250	7229594
Chloromethane	ug/L	<25	25	7229592
Dibromochloromethane	ug/L	<10	10	7229592
1,2-Dichlorobenzene	ug/L	<10	10	7229592
1,3-Dichlorobenzene	ug/L	<10	10	7229592
1,4-Dichlorobenzene	ug/L	<10	10	7229592
1,1-Dichloroethane	ug/L	<5.0	5.0	7229592
1,2-Dichloroethane	ug/L	<10	10	7229592
1,1-Dichloroethylene	ug/L	<5.0	5.0	7229592
cis-1,2-Dichloroethylene	ug/L	<5.0	5.0	7229592
trans-1,2-Dichloroethylene	ug/L	<5.0	5.0	7229592
1,2-Dichloropropane	ug/L	<5.0	5.0	7229592
cis-1,3-Dichloropropene	ug/L	<10	10	7229592
trans-1,3-Dichloropropene	ug/L	<10	10	7229592
Ethylbenzene	ug/L	29	5.0	7229592
Ethylene Dibromide	ug/L	<10	10	7229592
Methylene Chloride(Dichloromethane)	ug/L	<25	25	7229592
Methyl Ethyl Ketone (2-Butanone)	ug/L	790	250	7229592
Methyl Isobutyl Ketone	ug/L	<250	250	7229592
Methyl t-butyl ether (MTBE)	ug/L	18	10	7229592
Styrene	ug/L	<10	10	7229592
1,1,1,2-Tetrachloroethane	ug/L	<10	10	7229592
1,1,2,2-Tetrachloroethane	ug/L	<10	10	7229592
Tetrachloroethylene	ug/L	<5.0	5.0	7229592
Toluene	ug/L	210	10	7229592
1,1,1-Trichloroethane	ug/L	<5.0	5.0	7229592
1,1,2-Trichloroethane	ug/L	<10	10	7229592
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



MISA ATG 16-18 VOLATILE ORGANICS (LEACHATE)

BV Labs ID		OZM826		
Sampling Date		2021/03/03		
COC Number		815199-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
Trichloroethylene	ug/L	<5.0	5.0	7229592
Trichlorofluoromethane (FREON 11)	ug/L	<10	10	7229592
Vinyl Chloride	ug/L	<10	10	7229592
p+m-Xylene	ug/L	45	5.0	7229592
o-Xylene	ug/L	23	5.0	7229592
Total Xylenes	ug/L	68	5.0	7229592
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	101		7229592
D4-1,2-Dichloroethane	%	104		7229592
D8-Toluene	%	100		7229592
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C158424
Report Date: 2021/03/12

Terrapure Environmental
Client Project #: EQ LEACH

RESULTS OF ANALYSES OF LEACHATE

BV Labs ID		OZM826			OZM826		
Sampling Date		2021/03/03			2021/03/03		
COC Number		815199-01-01			815199-01-01		
	UNITS	EQ LEACH	RDL	QC Batch	EQ LEACH Lab-Dup	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L	380	1.0	7229500			
Inorganics							
Total Ammonia-N	mg/L	190	0.50	7231977			
Total BOD	mg/L	290	2	7231187			
Conductivity	umho/cm	14000	1.0	7230176			
Fluoride (F-)	mg/L	3.0	0.10	7230167			
Total Kjeldahl Nitrogen (TKN)	mg/L	200	10	7231973			
Total Organic Carbon (TOC)	mg/L	390	2.0	7231981			
Orthophosphate (P)	mg/L	0.45	0.10	7233693			
pH	pH	8.28		7230177			
Phenols-4AAP	mg/L	0.93	0.10	7234137			
Total Phosphorus	mg/L	2.7	0.40	7234529			
Total Suspended Solids	mg/L	18	10	7231477			
Alkalinity (Total as CaCO3)	mg/L	3200	5.0	7230169			
Nitrite (N)	mg/L	<0.050	0.050	7231606			
Dissolved Chloride (Cl-)	mg/L	2600	20	7232216	2700	20	7232216
Nitrate (N)	mg/L	<0.50	0.50	7231606			
Dissolved Bromide (Br-)	mg/L	72	20	7232216	73	20	7232216
Dissolved Sulphate (SO4)	mg/L	210	20	7232216	220	20	7232216
Petroleum Hydrocarbons							
Animal/Vegetable Oil and Grease	mg/L	51	1	7240412			
Mineral Oil and Grease	mg/L	15	1	7240412			
Oil & Grease	mg/L	67	1	7240412			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



ELEMENTS BY ATOMIC SPECTROSCOPY (LEACHATE)

BV Labs ID		OZM826		
Sampling Date		2021/03/03		
COC Number		815199-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
Metals				
Dissolved Calcium (Ca)	mg/L	41	0.50	7232530
Dissolved Magnesium (Mg)	mg/L	68	0.50	7232530
Total Aluminum (Al)	mg/L	0.032	0.0049	7234519
Total Barium (Ba)	mg/L	0.18	0.0020	7234519
Total Beryllium (Be)	mg/L	<0.00040	0.00040	7234519
Total Boron (B)	mg/L	3.8	0.010	7234519
Total Cadmium (Cd)	mg/L	<0.000090	0.000090	7234519
Total Calcium (Ca)	mg/L	46	0.20	7234519
Total Chromium (Cr)	mg/L	0.018	0.0050	7234519
Total Cobalt (Co)	mg/L	0.0042	0.00050	7234519
Total Copper (Cu)	mg/L	0.0052	0.00090	7234519
Total Iron (Fe)	mg/L	1.2	0.10	7234519
Total Lead (Pb)	mg/L	0.0050	0.00050	7234519
Total Magnesium (Mg)	mg/L	74	0.050	7234519
Total Manganese (Mn)	mg/L	0.13	0.0020	7234519
Total Molybdenum (Mo)	mg/L	0.29	0.00050	7234519
Total Nickel (Ni)	mg/L	0.15	0.0010	7234519
Total Potassium (K)	mg/L	1300	2.0	7234519
Total Silicon (Si)	mg/L	16	0.050	7234519
Total Sodium (Na)	mg/L	2000	0.50	7234519
Total Strontium (Sr)	mg/L	4.3	0.0010	7234519
Total Titanium (Ti)	mg/L	0.028	0.0050	7234519
Total Vanadium (V)	mg/L	0.067	0.00050	7234519
Total Zinc (Zn)	mg/L	0.0053	0.0050	7234519
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



POLYCHLORINATED BIPHENYLS BY GC-ECD (LEACHATE)

BV Labs ID		OZM826		
Sampling Date		2021/03/03		
COC Number		815199-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
PCBs				
Aroclor 1016	ug/L	<0.05	0.05	7235389
Aroclor 1221	ug/L	<0.05	0.05	7235389
Aroclor 1232	ug/L	<0.05	0.05	7235389
Aroclor 1242	ug/L	<0.05	0.05	7235389
Aroclor 1248	ug/L	<0.05	0.05	7235389
Aroclor 1254	ug/L	<0.05	0.05	7235389
Aroclor 1260	ug/L	<0.05	0.05	7235389
Aroclor 1262	ug/L	<0.05	0.05	7235389
Aroclor 1268	ug/L	<0.05	0.05	7235389
Total PCB	ug/L	<0.05	0.05	7235389
Surrogate Recovery (%)				
Decachlorobiphenyl	%	97		7235389
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



RESIN AND FATTY ACIDS BY GC-MS (LEACHATE)

BV Labs ID		OZM826		
Sampling Date		2021/03/03		
COC Number		815199-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
Fatty Acids				
9,10-Dichlorostearic acid	ug/L	<3.0	3.0	7245273
Linoleic acid (C18:2)	ug/L	<3.0	3.0	7245273
Linolenic acid (C18:3)	ug/L	<3.0	3.0	7245273
Oleic acid (C18:1)	ug/L	<3.0	3.0	7245273
Resin Acids				
12,14-Dichlorodehydroabiatic acid	ug/L	<3.0	3.0	7245273
12-Chlorodehydroabiatic acid	ug/L	<3.0	3.0	7245273
14-Chlorodehydroabiatic acid	ug/L	<3.0	3.0	7245273
Abiatic acid	ug/L	<5.0	5.0	7245273
Dehydroabiatic acid	ug/L	120	5.0	7245273
Isopimaric acid	ug/L	<3.0	3.0	7245273
Neoabiatic acid	ug/L	<3.0	3.0	7245273
Palustric acid	ug/L	<3.0	3.0	7245273
Pimaric acid	ug/L	4.4	3.0	7245273
Sandaracopimaric acid	ug/L	<3.0	3.0	7245273
Resin and Fatty Acids				
Levopimaric acid	ug/L	<3.0	3.0	7245273
Palmitic acid	ug/L	19	5.0	7245273
Palmitoleic acid	ug/L	<3.0	3.0	7245273
Stearic acid	ug/L	<15 (1)	15	7245273
Total Resin and Fatty Acids (RRPPM)	ug/L	120	15	7245273
Surrogate Recovery (%)				
o-Methylpodocarpic Acid (sur.)	%	75		7245273
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Detection limit raised due to matrix interference.				



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VERITAS

BV Labs Job #: C158424
Report Date: 2021/03/12

Terrapure Environmental
Client Project #: EQ LEACH

TEST SUMMARY

BV Labs ID: OZM826
Sample ID: EQ LEACH
Matrix: Leachate

Collected: 2021/03/03
Shipped:
Received: 2021/03/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7236295	2021/03/09	2021/03/09	Kathy Horvat
Alkalinity	AT	7230169	N/A	2021/03/05	Surinder Rai
Anions	IC	7232216	N/A	2021/03/05	Fari Dehdezi
Biochemical Oxygen Demand (BOD)	DO	7231187	2021/03/05	2021/03/10	Nusrat Naz
Conductivity	AT	7230176	N/A	2021/03/05	Surinder Rai
Fluoride	ISE	7230167	2021/03/05	2021/03/05	Surinder Rai
Hardness (calculated as CaCO ₃)		7229500	N/A	2021/03/09	Automated Statchk
Dissolved Calcium and Magnesium	ICP	7232530	2021/03/05	2021/03/08	Suban Kanapathipplai
Total Metals Analysis by ICPMS	ICP/MS	7234519	N/A	2021/03/08	Nan Raykha
Resin and Fatty Acids	GC/MS	7245273	2021/03/11	2021/03/12	Sylvain Chevigny
Neutral Chlorinated in Water by GC/ECD	GC/ECD	7231608	2021/03/05	2021/03/09	Mahmudul Khan
Total Ammonia-N	LACH/NH ₄	7231977	N/A	2021/03/08	Alina Dobreanu
Nitrate (NO ₃) and Nitrite (NO ₂) in Water	LACH	7231606	N/A	2021/03/05	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	7235389	2021/03/08	2021/03/09	Svitlana Shaula
pH	AT	7230177	2021/03/05	2021/03/05	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7234137	N/A	2021/03/08	Bramdeo Motiram
Orthophosphate	KONE	7233693	N/A	2021/03/08	Avneet Kour Sudan
Total Kjeldahl Nitrogen in Water	SKAL	7231973	2021/03/05	2021/03/05	Rajni Tyagi
Tot./Min./ Animal & Veg. Oil and Grease	/BAL	7240412	2021/03/10	2021/03/10	Karamjeet Randhawa
Total Organic Carbon (TOC)	TOCV/NDIR	7231981	N/A	2021/03/05	Anna-Kay Gooden
Total Phosphorus (Colourimetric)	LACH/P	7234529	2021/03/08	2021/03/08	Shivani Shivani
Total Suspended Solids	BAL	7231477	2021/03/05	2021/03/06	Shaneil Hall
Volatile Organic Compounds in Water	P&T/MS	7229592	N/A	2021/03/05	Dina Wang
Non-Routine Volatile Organic Compounds	P&T/MS	7229594	N/A	2021/03/05	Dina Wang

BV Labs ID: OZM826 Dup
Sample ID: EQ LEACH
Matrix: Leachate

Collected: 2021/03/03
Shipped:
Received: 2021/03/04

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7232216	N/A	2021/03/05	Fari Dehdezi
Neutral Chlorinated in Water by GC/ECD	GC/ECD	7231608	2021/03/05	2021/03/09	Mahmudul Khan



GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.3°C
Package 2	2.0°C

Sample OZM826 [EQ LEACH] : Sample required dilution due to matrix. Detection limits were adjusted accordingly.

RESIN AND FATTY ACIDS BY GC-MS (LEACHATE)

Un-rounded results are used in the totals "Total Resin and Fatty Acids (RRPPM)" calculation. These totals results are then rounded to two significant figures.

Please note that the total resin and fatty acids (RRPPM) does not include the palmitic acid and the palmitoleic acid.

Results relate only to the items tested.



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VERITAS

BV Labs Job #: C158424
Report Date: 2021/03/12

QUALITY ASSURANCE REPORT

Terrapure Environmental
Client Project #: EQ LEACH

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7229592	4-Bromofluorobenzene	2021/03/05	101	70 - 130	102	70 - 130	98	%				
7229592	D4-1,2-Dichloroethane	2021/03/05	102	70 - 130	105	70 - 130	105	%				
7229592	D8-Toluene	2021/03/05	103	70 - 130	100	70 - 130	104	%				
7231608	1,3,5-Tribromobenzene	2021/03/09	78	30 - 130	86	30 - 130	84	%				
7231608	2,4,5,6-Tetrachloro-m-xylene	2021/03/09	79	30 - 130	78	30 - 130	76	%				
7231608	Decachlorobiphenyl	2021/03/09	88	30 - 130	86	30 - 130	86	%				
7231608	Hexabromobenzene	2021/03/09	110	30 - 130	108	30 - 130	107	%				
7235389	Decachlorobiphenyl	2021/03/09	132 (1)	60 - 130	102	60 - 130	147 (1)	%				
7236295	2,4,6-Tribromophenol	2021/03/09	86	10 - 130	79	10 - 130	68	%				
7236295	2-Fluorobiphenyl	2021/03/09	79	30 - 130	82	30 - 130	84	%				
7236295	2-Fluorophenol	2021/03/09	46	10 - 130	52	10 - 130	46	%				
7236295	D14-Terphenyl	2021/03/09	96	30 - 130	98	30 - 130	97	%				
7236295	D5-Nitrobenzene	2021/03/09	97	30 - 130	98	30 - 130	96	%				
7236295	D5-Phenol	2021/03/09	27	10 - 130	31	10 - 130	28	%				
7245273	o-Methylpodocarpic Acid (sur.)	2021/03/12			107	60 - 130	104	%				
7229592	1,1,1,2-Tetrachloroethane	2021/03/05	97	70 - 130	98	70 - 130	<0.20	ug/L				
7229592	1,1,1-Trichloroethane	2021/03/05	104	70 - 130	102	70 - 130	<0.10	ug/L	NC	30		
7229592	1,1,2,2-Tetrachloroethane	2021/03/05	92	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
7229592	1,1,2-Trichloroethane	2021/03/05	98	70 - 130	98	70 - 130	<0.20	ug/L	NC	30		
7229592	1,1-Dichloroethane	2021/03/05	96	70 - 130	92	70 - 130	<0.10	ug/L	NC	30		
7229592	1,1-Dichloroethylene	2021/03/05	105	70 - 130	96	70 - 130	<0.10	ug/L	NC	30		
7229592	1,2-Dichlorobenzene	2021/03/05	94	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
7229592	1,2-Dichloroethane	2021/03/05	94	70 - 130	95	70 - 130	<0.20	ug/L	NC	30		
7229592	1,2-Dichloropropane	2021/03/05	97	70 - 130	94	70 - 130	<0.10	ug/L	NC	30		
7229592	1,3-Dichlorobenzene	2021/03/05	95	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
7229592	1,4-Dichlorobenzene	2021/03/05	108	70 - 130	107	70 - 130	<0.20	ug/L	1.4	30		
7229592	Acetone (2-Propanone)	2021/03/05	94	60 - 140	87	60 - 140	<10	ug/L				
7229592	Benzene	2021/03/05	94	70 - 130	92	70 - 130	<0.10	ug/L	2.9	30		
7229592	Bromodichloromethane	2021/03/05	104	70 - 130	106	70 - 130	<0.10	ug/L	NC	30		
7229592	Bromoform	2021/03/05	99	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
7229592	Bromomethane	2021/03/05	92	60 - 140	106	60 - 140	<0.50	ug/L	NC	30		



BUREAU
VERITAS

BV Labs Job #: C158424
Report Date: 2021/03/12

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: EQ LEACH

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7229592	Carbon Tetrachloride	2021/03/05	110	70 - 130	108	70 - 130	<0.10	ug/L	NC	30		
7229592	Chlorobenzene	2021/03/05	97	70 - 130	95	70 - 130	<0.10	ug/L	0.64	30		
7229592	Chloroform	2021/03/05	99	70 - 130	97	70 - 130	<0.10	ug/L	NC	30		
7229592	Chloromethane	2021/03/05	96	60 - 140	93	60 - 140	<0.50	ug/L	NC	30		
7229592	cis-1,2-Dichloroethylene	2021/03/05	98	70 - 130	96	70 - 130	<0.10	ug/L	3.9	30		
7229592	cis-1,3-Dichloropropene	2021/03/05	100	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
7229592	Dibromochloromethane	2021/03/05	101	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		
7229592	Ethylbenzene	2021/03/05	92	70 - 130	89	70 - 130	<0.10	ug/L	1.9	30		
7229592	Ethylene Dibromide	2021/03/05	94	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
7229592	Methyl Ethyl Ketone (2-Butanone)	2021/03/05	94	60 - 140	97	60 - 140	<5.0	ug/L				
7229592	Methyl Isobutyl Ketone	2021/03/05	98	70 - 130	98	70 - 130	<5.0	ug/L				
7229592	Methyl t-butyl ether (MTBE)	2021/03/05	91	70 - 130	93	70 - 130	<0.20	ug/L				
7229592	Methylene Chloride(Dichloromethane)	2021/03/05	99	70 - 130	97	70 - 130	<0.50	ug/L	NC	30		
7229592	o-Xylene	2021/03/05	95	70 - 130	91	70 - 130	<0.10	ug/L	NC	30		
7229592	p+m-Xylene	2021/03/05	100	70 - 130	95	70 - 130	<0.10	ug/L	0.50	30		
7229592	Styrene	2021/03/05	105	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
7229592	Tetrachloroethylene	2021/03/05	96	70 - 130	90	70 - 130	<0.10	ug/L	NC	30		
7229592	Toluene	2021/03/05	97	70 - 130	91	70 - 130	<0.20	ug/L	NC	30		
7229592	Total Xylenes	2021/03/05					<0.10	ug/L				
7229592	trans-1,2-Dichloroethylene	2021/03/05	98	70 - 130	93	70 - 130	<0.10	ug/L	NC	30		
7229592	trans-1,3-Dichloropropene	2021/03/05	103	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
7229592	Trichloroethylene	2021/03/05	104	70 - 130	98	70 - 130	<0.10	ug/L	NC	30		
7229592	Trichlorofluoromethane (FREON 11)	2021/03/05	104	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7229592	Vinyl Chloride	2021/03/05	99	70 - 130	94	70 - 130	<0.20	ug/L	NC	30		
7229594	Acrolein	2021/03/05	93	60 - 140	106	60 - 140	<10	ug/L				
7229594	Acrylonitrile	2021/03/05	88	60 - 140	104	60 - 140	<5.0	ug/L				
7230167	Fluoride (F-)	2021/03/05	40 (1)	80 - 120	105	80 - 120	<0.10	mg/L	NC	20		
7230169	Alkalinity (Total as CaCO3)	2021/03/05			96	85 - 115	<1.0	mg/L	2.2	20		
7230176	Conductivity	2021/03/05			99	85 - 115	<1.0	umho/cm	0	25		
7230177	pH	2021/03/05			102	98 - 103			0.096	N/A		
7231187	Total BOD	2021/03/10					<2	mg/L	NC	30	97	80 - 120



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VERITAS

BV Labs Job #: C158424
Report Date: 2021/03/12

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: EQ LEACH

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7231477	Total Suspended Solids	2021/03/06					<10	mg/L	NC	25	97	85 - 115
7231606	Nitrate (N)	2021/03/05	100	80 - 120	101	80 - 120	<0.10	mg/L	NC	20		
7231606	Nitrite (N)	2021/03/05	106	80 - 120	104	80 - 120	<0.010	mg/L	NC	20		
7231608	1,2,3,4-Tetrachlorobenzene	2021/03/09	76	50 - 130	83	50 - 130	<0.010	ug/L	NC	40		
7231608	1,2,3,5-Tetrachlorobenzene	2021/03/09	63	30 - 130	72	30 - 130	<0.010	ug/L	NC	40		
7231608	1,2,3-Trichlorobenzene	2021/03/09	77	50 - 130	82	50 - 130	<0.010	ug/L	NC	40		
7231608	1,2,4,5-Tetrachlorobenzene	2021/03/09	66	30 - 130	70	30 - 130	<0.010	ug/L	NC	40		
7231608	1,2,4-Trichlorobenzene	2021/03/09	73	50 - 130	74	50 - 130	<0.010	ug/L	NC	40		
7231608	2,4,5-Trichlorotoluene	2021/03/09	77	30 - 130	83	30 - 130	<0.010	ug/L	NC	40		
7231608	Hexachlorobenzene	2021/03/09	83	50 - 130	88	50 - 130	<0.0050	ug/L	NC	40		
7231608	Hexachlorobutadiene	2021/03/09	57	30 - 130	54	30 - 130	<0.0090	ug/L	NC	40		
7231608	Hexachlorocyclopentadiene	2021/03/09	67	30 - 130	58	30 - 130	<0.025	ug/L	NC	40		
7231608	Hexachloroethane	2021/03/09	67	30 - 130	65	30 - 130	<0.010	ug/L	NC	40		
7231608	Octachlorostyrene	2021/03/09	84	30 - 130	89	30 - 130	<0.0050	ug/L	NC	40		
7231608	Pentachlorobenzene	2021/03/09	95	50 - 130	103	50 - 130	<0.0050	ug/L	NC	40		
7231973	Total Kjeldahl Nitrogen (TKN)	2021/03/05	103	80 - 120	100	80 - 120	<0.10	mg/L	17	20	99	80 - 120
7231977	Total Ammonia-N	2021/03/08	86	75 - 125	100	80 - 120	<0.050	mg/L	0.32	20		
7231981	Total Organic Carbon (TOC)	2021/03/05	97	80 - 120	103	80 - 120	<0.40	mg/L	2.1	20		
7232216	Dissolved Bromide (Br-)	2021/03/05	NC	80 - 120	110	80 - 120	<1.0	mg/L	1.8	20		
7232216	Dissolved Chloride (Cl-)	2021/03/05	NC	80 - 120	99	70 - 130	<1.0	mg/L	2.2	20		
7232216	Dissolved Sulphate (SO4)	2021/03/05	94	80 - 120	100	80 - 120	<1.0	mg/L	1.1	20		
7232530	Dissolved Calcium (Ca)	2021/03/08	NC	80 - 120	100	80 - 120	<0.050	mg/L				
7232530	Dissolved Magnesium (Mg)	2021/03/08	NC	80 - 120	97	80 - 120	<0.050	mg/L				
7233693	Orthophosphate (P)	2021/03/08	111	75 - 125	102	80 - 120	<0.010	mg/L	NC	25		
7234137	Phenols-4AAP	2021/03/08	103	80 - 120	105	80 - 120	<0.0010	mg/L	3.6	20		
7234519	Total Aluminum (Al)	2021/03/08	98	80 - 120	97	80 - 120	<0.0049	mg/L	9.8	20		
7234519	Total Barium (Ba)	2021/03/08	101	80 - 120	101	80 - 120	<0.0020	mg/L	2.5	20		
7234519	Total Beryllium (Be)	2021/03/08	106	80 - 120	107	80 - 120	<0.00040	mg/L	NC	20		
7234519	Total Boron (B)	2021/03/08	100	80 - 120	103	80 - 120	<0.010	mg/L	2.3	20		
7234519	Total Cadmium (Cd)	2021/03/08	104	80 - 120	102	80 - 120	<0.000090	mg/L	NC	20		
7234519	Total Calcium (Ca)	2021/03/08	NC	80 - 120	96	80 - 120	<0.20	mg/L	1.9	20		



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VERITAS

BV Labs Job #: C158424
Report Date: 2021/03/12

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: EQ LEACH

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7234519	Total Chromium (Cr)	2021/03/08	98	80 - 120	99	80 - 120	<0.0050	mg/L	NC	20		
7234519	Total Cobalt (Co)	2021/03/08	100	80 - 120	101	80 - 120	<0.00050	mg/L	0.011	20		
7234519	Total Copper (Cu)	2021/03/08	100	80 - 120	104	80 - 120	<0.00090	mg/L	5.2	20		
7234519	Total Iron (Fe)	2021/03/08	97	80 - 120	99	80 - 120	<0.10	mg/L	0.64	20		
7234519	Total Lead (Pb)	2021/03/08	99	80 - 120	96	80 - 120	<0.00050	mg/L	2.0	20		
7234519	Total Magnesium (Mg)	2021/03/08	94	80 - 120	99	80 - 120	<0.050	mg/L	0.56	20		
7234519	Total Manganese (Mn)	2021/03/08	98	80 - 120	100	80 - 120	<0.0020	mg/L	1.6	20		
7234519	Total Molybdenum (Mo)	2021/03/08	103	80 - 120	101	80 - 120	<0.00050	mg/L	0.18	20		
7234519	Total Nickel (Ni)	2021/03/08	96	80 - 120	99	80 - 120	<0.0010	mg/L	0.083	20		
7234519	Total Potassium (K)	2021/03/08	98	80 - 120	100	80 - 120	<0.20	mg/L	0.51	20		
7234519	Total Silicon (Si)	2021/03/08	98	80 - 120	97	80 - 120	<0.050	mg/L	0.059	20		
7234519	Total Sodium (Na)	2021/03/08	95	80 - 120	97	80 - 120	<0.10	mg/L	2.3	20		
7234519	Total Strontium (Sr)	2021/03/08	NC	80 - 120	99	80 - 120	<0.0010	mg/L	0.34	20		
7234519	Total Titanium (Ti)	2021/03/08	97	80 - 120	96	80 - 120	<0.0050	mg/L	NC	20		
7234519	Total Vanadium (V)	2021/03/08	99	80 - 120	100	80 - 120	<0.00050	mg/L	2.6	20		
7234519	Total Zinc (Zn)	2021/03/08	102	80 - 120	104	80 - 120	<0.0050	mg/L	19	20		
7234529	Total Phosphorus	2021/03/08	105	80 - 120	102	80 - 120	<0.020	mg/L	1.3	20	101	80 - 120
7235389	Aroclor 1016	2021/03/09					<0.05	ug/L	NC	40		
7235389	Aroclor 1221	2021/03/09					<0.05	ug/L	NC	40		
7235389	Aroclor 1232	2021/03/09					<0.05	ug/L	NC	40		
7235389	Aroclor 1242	2021/03/09					<0.05	ug/L	NC	30		
7235389	Aroclor 1248	2021/03/09					<0.05	ug/L	NC	30		
7235389	Aroclor 1254	2021/03/09					<0.05	ug/L	NC	30		
7235389	Aroclor 1260	2021/03/09	112	60 - 130	77	60 - 130	<0.05	ug/L	NC	30		
7235389	Aroclor 1262	2021/03/09					<0.05	ug/L	NC	40		
7235389	Aroclor 1268	2021/03/09					<0.05	ug/L	NC	40		
7235389	Total PCB	2021/03/09	112	60 - 130	77	60 - 130	<0.05	ug/L	NC	40		
7236295	1-Chloronaphthalene	2021/03/09	70	30 - 130	70	30 - 130	<1.0	ug/L				
7236295	1-Methylnaphthalene	2021/03/09	87	30 - 130	87	30 - 130	<0.20	ug/L				
7236295	2,3,4,5-Tetrachlorophenol	2021/03/09	72	10 - 130	72	10 - 130	<0.40	ug/L				
7236295	2,3,4,6-Tetrachlorophenol	2021/03/09	108	10 - 130	114	10 - 130	<0.50	ug/L				



BUREAU
VERITAS

BV Labs Job #: C158424
Report Date: 2021/03/12

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: EQ LEACH

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7236295	2,3,4-Trichlorophenol	2021/03/09	88	10 - 130	87	10 - 130	<0.50	ug/L				
7236295	2,3,5,6-Tetrachlorophenol	2021/03/09	75	10 - 130	79	10 - 130	<0.50	ug/L				
7236295	2,3,5-Trichlorophenol	2021/03/09	106	10 - 130	101	10 - 130	<0.50	ug/L				
7236295	2,4,5-Trichlorophenol	2021/03/09	95	10 - 130	91	10 - 130	<0.50	ug/L				
7236295	2,4,6-Trichlorophenol	2021/03/09	82	10 - 130	79	10 - 130	<0.50	ug/L				
7236295	2,4-Dichlorophenol	2021/03/09	98	10 - 130	95	10 - 130	<0.30	ug/L				
7236295	2,4-Dimethylphenol	2021/03/09	49	10 - 130	53	10 - 130	<0.50	ug/L				
7236295	2,4-Dinitrophenol	2021/03/09	91	10 - 130	91	10 - 130	<2.0	ug/L				
7236295	2,4-Dinitrotoluene	2021/03/09	94	30 - 130	97	30 - 130	<0.50	ug/L				
7236295	2,6-Dichlorophenol	2021/03/09	84	10 - 130	82	10 - 130	<0.50	ug/L				
7236295	2,6-Dinitrotoluene	2021/03/09	90	30 - 130	87	30 - 130	<0.50	ug/L				
7236295	2-Chloronaphthalene	2021/03/09	86	30 - 130	92	30 - 130	<0.50	ug/L				
7236295	2-Chlorophenol	2021/03/09	82	10 - 130	84	10 - 130	<0.30	ug/L				
7236295	2-Methylnaphthalene	2021/03/09	82	30 - 130	82	30 - 130	<0.20	ug/L				
7236295	4,6-Dinitro-2-methylphenol	2021/03/09	97	10 - 130	93	10 - 130	<2.0	ug/L				
7236295	4-Bromophenyl phenyl ether	2021/03/09	89	30 - 130	87	30 - 130	<0.30	ug/L				
7236295	4-Chloro-3-Methylphenol	2021/03/09	93	10 - 130	89	10 - 130	<0.50	ug/L				
7236295	4-Chlorophenyl phenyl ether	2021/03/09	83	30 - 130	82	30 - 130	<0.50	ug/L				
7236295	4-Nitrophenol	2021/03/09	31	10 - 130	38	10 - 130	<1.4	ug/L				
7236295	5-Nitroacenaphthene	2021/03/09	95	30 - 130	93	30 - 130	<1.0	ug/L				
7236295	Acenaphthene	2021/03/09	88	30 - 130	88	30 - 130	<0.20	ug/L				
7236295	Acenaphthylene	2021/03/09	87	30 - 130	86	30 - 130	<0.20	ug/L				
7236295	Anthracene	2021/03/09	88	30 - 130	86	30 - 130	<0.20	ug/L				
7236295	Benzo(a)anthracene	2021/03/09	102	30 - 130	102	30 - 130	<0.20	ug/L				
7236295	Benzo(a)pyrene	2021/03/09	86	30 - 130	101	30 - 130	<0.20	ug/L				
7236295	Benzo(b,j)fluoranthene	2021/03/09	101	30 - 130	100	30 - 130	<0.20	ug/L				
7236295	Benzo(g,h,i)perylene	2021/03/09	78	30 - 130	81	30 - 130	<0.20	ug/L				
7236295	Benzo(k)fluoranthene	2021/03/09	104	30 - 130	110	30 - 130	<0.20	ug/L				
7236295	Benzyl butyl phthalate	2021/03/09	101	30 - 130	102	30 - 130	<0.50	ug/L				
7236295	Biphenyl	2021/03/09	85	30 - 130	85	30 - 130	<0.50	ug/L				
7236295	Bis(2-chloroethoxy)methane	2021/03/09	82	30 - 130	81	30 - 130	<0.50	ug/L				



BUREAU
VERITAS

BV Labs Job #: C158424

Report Date: 2021/03/12

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: EQ LEACH

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7236295	Bis(2-chloroethyl)ether	2021/03/09	86	30 - 130	86	30 - 130	<0.50	ug/L				
7236295	Bis(2-chloroisopropyl)ether	2021/03/09	75	30 - 130	78	30 - 130	<0.50	ug/L				
7236295	Bis(2-ethylhexyl)phthalate	2021/03/10	99	30 - 130	98	30 - 130	<2.0	ug/L	NC	40		
7236295	Camphene	2021/03/09	60	30 - 130	56	30 - 130	<1.0	ug/L				
7236295	Chrysene	2021/03/09	95	30 - 130	101	30 - 130	<0.20	ug/L				
7236295	Dibenzo(a,h)anthracene	2021/03/09	86	30 - 130	86	30 - 130	<0.20	ug/L				
7236295	Di-N-butyl phthalate	2021/03/10	103	30 - 130	102	30 - 130	<2.0	ug/L	NC	40		
7236295	di-n-octyl phthalate	2021/03/09	105	30 - 130	102	30 - 130	<0.80	ug/L				
7236295	Diphenyl Ether	2021/03/09	84	30 - 130	82	30 - 130	<0.30	ug/L				
7236295	Fluoranthene	2021/03/09	101	30 - 130	100	30 - 130	<0.20	ug/L				
7236295	Fluorene	2021/03/09	93	30 - 130	92	30 - 130	<0.20	ug/L				
7236295	Indeno(1,2,3-cd)pyrene	2021/03/09	80	30 - 130	83	30 - 130	<0.20	ug/L				
7236295	Indole	2021/03/09	60	30 - 130	59	30 - 130	<1.0	ug/L				
7236295	m/p-Cresol	2021/03/09	51	10 - 130	62	10 - 130	<0.50	ug/L				
7236295	Naphthalene	2021/03/09	84	30 - 130	82	30 - 130	<0.20	ug/L				
7236295	Nitrosodiphenylamine/Diphenylamine	2021/03/09	117	30 - 130	114	30 - 130	<1.0	ug/L				
7236295	N-Nitroso-di-n-propylamine	2021/03/09	99	30 - 130	98	30 - 130	<0.50	ug/L				
7236295	o-Cresol	2021/03/09	66	10 - 130	71	10 - 130	<0.50	ug/L				
7236295	Pentachlorophenol	2021/03/09	63	10 - 130	74	10 - 130	<1.0	ug/L				
7236295	Perylene	2021/03/09	103	30 - 130	101	30 - 130	<0.20	ug/L				
7236295	Phenanthrene	2021/03/09	93	30 - 130	89	30 - 130	<0.20	ug/L				
7236295	Phenol	2021/03/09	28	10 - 130	31	10 - 130	<0.50	ug/L				
7236295	Pyrene	2021/03/09	101	30 - 130	102	30 - 130	<0.20	ug/L				
7240412	Animal/Vegetable Oil and Grease	2021/03/10			102	75 - 125	<1	mg/L	1.5	25		
7240412	Mineral Oil and Grease	2021/03/10			96	75 - 125	<1	mg/L	1.8	25		
7240412	Oil & Grease	2021/03/10			99	85 - 115	<1	mg/L	0.28	25		
7245273	12,14-Dichlorodehydroabiatic acid	2021/03/12			92	60 - 130	<3.0	ug/L				
7245273	12-Chlorodehydroabiatic acid	2021/03/12			120	60 - 130	<3.0	ug/L				
7245273	14-Chlorodehydroabiatic acid	2021/03/12			122	60 - 130	<3.0	ug/L				
7245273	9,10-Dichlorostearic acid	2021/03/12			98	60 - 130	<3.0	ug/L				
7245273	Abiatic acid	2021/03/12			140 (1)	60 - 130	<5.0	ug/L				



BUREAU
VERITAS

BV Labs Job #: C158424

Report Date: 2021/03/12

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: EQ LEACH

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		QC Standard	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7245273	Dehydroabietic acid	2021/03/12			126	60 - 130	<5.0	ug/L				
7245273	Isopimaric acid	2021/03/12			79	60 - 130	<3.0	ug/L				
7245273	Levopimaric acid	2021/03/12			73	60 - 130	<3.0	ug/L				
7245273	Linoleic acid (C18:2)	2021/03/12			83	60 - 130	<3.0	ug/L				
7245273	Linolenic acid (C18:3)	2021/03/12			92	60 - 130	<3.0	ug/L				
7245273	Neoabietic acid	2021/03/12			89	60 - 130	<3.0	ug/L				
7245273	Oleic acid (C18:1)	2021/03/12			101	60 - 130	<3.0	ug/L				
7245273	Palmitic acid	2021/03/12			122	60 - 130	16, RDL=5.0	ug/L				
7245273	Palmitoleic acid	2021/03/12			107	60 - 130	<3.0	ug/L				
7245273	Palustric acid	2021/03/12			99	60 - 130	<3.0	ug/L				
7245273	Pimaric acid	2021/03/12			123	60 - 130	<3.0	ug/L				
7245273	Sandaracopimaric acid	2021/03/12			112	60 - 130	<3.0	ug/L				
7245273	Stearic acid	2021/03/12			118	60 - 130	15, RDL=5.0	ug/L				
7245273	Total Resin and Fatty Acids (RRPPM)	2021/03/12					15, RDL=5.0	ug/L				

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.



BUREAU
VERITAS

BV Labs Job #: C158424
Report Date: 2021/03/12

Terrapure Environmental
Client Project #: EQ LEACH

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Brad Newman, B.Sc., C.Chem., Scientific Service Specialist



Sylvain Chevigny, B.Sc., Chemist, Scientific Service Specialist



Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental	Attention: Accounting	Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Tel: (905) 561-0305 Fax: (905) 561-1674	Company Name: Brad Mullin - GHD Reporting	Attention: Brad Mullin - GHD Reporting	Address: _____	Tel: _____ Fax: _____
Email: kbailey@terrapureenv.com		Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		Quotation #: B60569	P.O. #: _____	Project: EQ LEACH	Site #: _____
Sampled By: _____		Sampled By: _____		BV Labs Job #: _____		Bottle Order #: 815199	Project Manager: Jolanta Goralczyk
COC #: _____		Barcode: C#815199-01-01		Barcode: _____		Barcode: _____	

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE BV LABS DRINKING WATER CHAIN OF CUSTODY					ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects					
Regulation 153 (2011)			Other Regulations			Special Instructions	Field Filtered (please circle): Metals / Hg / Cr VI	EQ Leachate MISA Scan - List "C"											Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
Include Criteria on Certificate of Analysis (Y/N)?													Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)							
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix											# of Bottles	Comments				
1	EQ LEACH	21/03/03	AM	LCH	N/A	✓											17			
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

04-Mar-21 15:50
Jolanta Goralczyk
C158424
NP4 ENV-1281

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only	
<i>[Signature]</i>	21/03/04	AM	<i>[Signature]</i> NIRAL PATEL	20210304	15:50		Time Sensitive	Temperature (°C) on Recept
								3/4/0 ice
							Custody Seal Present	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
							Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
							White: BV Labs	Yellow: Client

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVLABS.COM/TERMS-AND-CONDITIONS.
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.
** SAMPLE CONTAINER, PRESERVATION, HOLD TIME AND PACKAGE INFORMATION CAN BE VIEWED AT WWW.BVLABS.COM/RESOURCES/CHAIN-OF-CUSTODY-FORMS.