



Your Project #: GW
 Your C.O.C. #: 819873-16-01, 819873-20-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/05/05
 Report #: R6622577
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1B2190

Received: 2021/04/27, 15:45

Sample Matrix: Water
 # Samples Received: 12

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
ABN Compounds in Water by GC/MS	1	2021/05/03	2021/05/04	CAM SOP-00301	EPA 8270 m
Alkalinity	12	N/A	2021/04/29	CAM SOP-00448	SM 23 2320 B m
Anions	12	N/A	2021/04/30	CAM SOP-00435	SM 23 4110 B m
Conductivity	12	N/A	2021/04/29	CAM SOP-00414	SM 23 2510 m
Fluoride	12	2021/04/28	2021/04/29	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	12	N/A	2021/05/03	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	7	N/A	2021/04/30	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	4	N/A	2021/05/03	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	1	N/A	2021/05/05	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	12	N/A	2021/04/30	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	12	N/A	2021/04/29	CAM SOP-00440	SM 23 4500-NO3I/NO2B
OC Pesticides (Selected) & PCB (2)	1	2021/04/28	2021/04/29	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides Summed Parameters	1	N/A	2021/04/29	CAM SOP-00307	EPA 8081A/8082B m
pH	12	2021/04/28	2021/04/29	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	11	N/A	2021/04/29	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	1	N/A	2021/04/30	CAM SOP-00444	OMOE E3179 m
Orthophosphate	12	N/A	2021/04/29	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	1	2021/04/28	2021/04/29	CAM SOP-00428	SM 23 2540C m
Total Dissolved Solids	11	2021/04/29	2021/04/30	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	6	2021/04/29	2021/04/30	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	1	2021/04/29	2021/05/03	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	5	2021/04/29	2021/05/04	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (3)	9	N/A	2021/04/29	CAM SOP-00446	SM 23 5310B m
Total Organic Carbon (TOC) (3)	3	N/A	2021/04/30	CAM SOP-00446	SM 23 5310B m
Volatile Organic Compounds in Water	1	N/A	2021/04/30	CAM SOP-00226	EPA 8260C m
Non-Routine Volatile Organic Compounds	1	N/A	2021/04/29	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) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

(2) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane

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



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Encryption Key



AUTHORIZED REPORT
RAPPORT AUTORISÉ

Bureau Veritas
05 May 2021 17:53:28

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 #: C1B2190
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PKS418			PKS418			PKS419		
Sampling Date		2021/04/27			2021/04/27			2021/04/23		
COC Number		819873-16-01			819873-16-01			819873-16-01		
	UNITS	75-IV	RDL	QC Batch	75-IV Lab-Dup	RDL	QC Batch	L1	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1500	1.0	7322203				1900	1.0	7322203
Inorganics										
Total Ammonia-N	mg/L	5.3	0.050	7325874				15	0.050	7325874
Conductivity	umho/cm	4000	1.0	7324198				5800	1.0	7324198
Total Dissolved Solids	mg/L	2650	10	7324509	2720	10	7324509	3860	10	7323441
Fluoride (F-)	mg/L	0.59	0.10	7324167				0.74	0.10	7324167
Total Kjeldahl Nitrogen (TKN)	mg/L	5.5	0.50	7326605				15	0.50	7325871
Total Organic Carbon (TOC)	mg/L	5.7	0.40	7326194				3.5	0.40	7325866
Orthophosphate (P)	mg/L	<0.010	0.010	7324272				<0.010	0.010	7324272
pH	pH	7.55		7324183				7.60		7324183
Phenols-4AAP	mg/L	<0.0010	0.0010	7324854				<0.0010	0.0010	7324868
Alkalinity (Total as CaCO3)	mg/L	280	1.0	7324197				260	1.0	7324197
Nitrite (N)	mg/L	<0.010	0.010	7324269				<0.010	0.010	7324269
Dissolved Chloride (Cl-)	mg/L	750	10	7324604				1000	10	7324604
Nitrate (N)	mg/L	<0.10	0.10	7324269				<0.10	0.10	7324269
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7324269				<0.10	0.10	7324269
Dissolved Bromide (Br-)	mg/L	<10	10	7324604				<10	10	7324604
Dissolved Sulphate (SO4)	mg/L	870	10	7324604				1600	10	7324604

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



RESULTS OF ANALYSES OF WATER

BV Labs ID		PKS419			PKS420			PKS421		
Sampling Date		2021/04/23			2021/04/23			2021/04/23		
COC Number		819873-16-01			819873-16-01			819873-16-01		
	UNITS	L1 Lab-Dup	RDL	QC Batch	M5R	RDL	QC Batch	CW5R	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				510	1.0	7322203	130	1.0	7322203
Inorganics										
Total Ammonia-N	mg/L				23	0.050	7325874	140 (1)	0.50	7325874
Conductivity	umho/cm				3400	1.0	7324198	9600	1.0	7324198
Total Dissolved Solids	mg/L				1840	10	7323441	4880	20	7323441
Fluoride (F-)	mg/L				0.80	0.10	7324167	3.1	0.10	7324167
Total Kjeldahl Nitrogen (TKN)	mg/L				24	1.0	7326605	140 (1)	10	7326605
Total Organic Carbon (TOC)	mg/L				11	0.40	7325866	34	0.40	7325866
Orthophosphate (P)	mg/L				<0.010	0.010	7324272	0.036	0.010	7324272
pH	pH				7.90		7324183	9.36		7324183
Phenols-4AAP	mg/L	<0.0010	0.0010	7324868	0.0088	0.0050	7324854	0.72	0.020	7324868
Alkalinity (Total as CaCO3)	mg/L				160	1.0	7324197	330	1.0	7324197
Nitrite (N)	mg/L				0.087	0.010	7324269	<0.010	0.010	7324269
Dissolved Chloride (Cl-)	mg/L				680	5.0	7324604	2700	20	7324604
Nitrate (N)	mg/L				0.80	0.10	7324269	<0.10	0.10	7324269
Nitrate + Nitrite (N)	mg/L				0.89	0.10	7324269	<0.10	0.10	7324269
Dissolved Bromide (Br-)	mg/L				<5.0	5.0	7324604	<20	20	7324604
Dissolved Sulphate (SO4)	mg/L				530	5.0	7324604	210	20	7324604

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

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Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PKS422		PKS423			PKS423		
Sampling Date		2021/04/23		2021/04/23			2021/04/23		
COC Number		819873-16-01		819873-16-01			819873-16-01		
	UNITS	M4	RDL	CW3	RDL	QC Batch	CW3 Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	1300	1.0	78	1.0	7322203			
Inorganics									
Total Ammonia-N	mg/L	11	0.050	11	0.050	7325874			
Conductivity	umho/cm	4100	1.0	1700	1.0	7324198			
Total Dissolved Solids	mg/L	2750	10	805	10	7323441			
Fluoride (F-)	mg/L	1.2	0.10	1.1	0.10	7324167			
Total Kjeldahl Nitrogen (TKN)	mg/L	12	0.50	12	0.50	7326605			
Total Organic Carbon (TOC)	mg/L	4.6	0.40	28	0.40	7326194	28	0.40	7326194
Orthophosphate (P)	mg/L	<0.010	0.010	0.012	0.010	7324272	0.011	0.010	7324272
pH	pH	7.71		9.14		7324183			
Phenols-4AAP	mg/L	<0.0010	0.0010	0.33	0.010	7324868			
Alkalinity (Total as CaCO3)	mg/L	190	1.0	110	1.0	7324197			
Nitrite (N)	mg/L	0.029	0.010	<0.010	0.010	7324269			
Dissolved Chloride (Cl-)	mg/L	660	10	360	5.0	7324604			
Nitrate (N)	mg/L	0.55	0.10	<0.10	0.10	7324269			
Nitrate + Nitrite (N)	mg/L	0.58	0.10	<0.10	0.10	7324269			
Dissolved Bromide (Br-)	mg/L	<10	10	<5.0	5.0	7324604			
Dissolved Sulphate (SO4)	mg/L	1100	10	130	5.0	7324604			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



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VERITAS

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Terrapure Environmental
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RESULTS OF ANALYSES OF WATER

BV Labs ID		PKS424			PKS424			PKS425		
Sampling Date		2021/04/23			2021/04/23			2021/04/23		
COC Number		819873-16-01			819873-16-01			819873-16-01		
	UNITS	CW16	RDL	QC Batch	CW16 Lab-Dup	RDL	QC Batch	61-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	890	1.0	7322203				1600	1.0	7322203
Inorganics										
Total Ammonia-N	mg/L	1.6	0.050	7325874	1.6	0.050	7325874	1.1	0.050	7325874
Conductivity	umho/cm	1800	1.0	7324198	1800	1.0	7324198	4300	1.0	7324198
Total Dissolved Solids	mg/L	1300	10	7323441				3230	10	7323441
Fluoride (F-)	mg/L	1.2	0.10	7324167	1.2	0.10	7324167	0.89	0.10	7324167
Total Kjeldahl Nitrogen (TKN)	mg/L	1.7	0.10	7325871				1.4	0.10	7325871
Total Organic Carbon (TOC)	mg/L	5.0	0.40	7325866				1.6	0.40	7325866
Orthophosphate (P)	mg/L	<0.010	0.010	7324272				<0.010	0.010	7324272
pH	pH	7.70		7324183	7.72		7324183	7.65		7324183
Phenols-4AAP	mg/L	<0.0010	0.0010	7324802				<0.0010	0.0010	7324854
Alkalinity (Total as CaCO3)	mg/L	210	1.0	7324197	210	1.0	7324197	300	1.0	7324197
Nitrite (N)	mg/L	<0.010	0.010	7325681				<0.010	0.010	7324269
Dissolved Chloride (Cl-)	mg/L	85	5.0	7324604				430	10	7324604
Nitrate (N)	mg/L	<0.10	0.10	7325681				<0.10	0.10	7324269
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7325681				<0.10	0.10	7324269
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7324604				<10	10	7324604
Dissolved Sulphate (SO4)	mg/L	700	5.0	7324604				1800	10	7324604

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



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VERITAS**

BV Labs Job #: C1B2190
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PKS425			PKS426			PKS426		
Sampling Date		2021/04/23			2021/04/23			2021/04/23		
COC Number		819873-16-01			819873-16-01			819873-16-01		
	UNITS	61-II Lab-Dup	RDL	QC Batch	12-II	RDL	QC Batch	12-II Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				1500	1.0	7322203			
Inorganics										
Total Ammonia-N	mg/L				1.1	0.050	7325874			
Conductivity	umho/cm				4000	1.0	7324198			
Total Dissolved Solids	mg/L	3220	10	7323441	2950	10	7323441			
Fluoride (F-)	mg/L				0.85	0.10	7324167			
Total Kjeldahl Nitrogen (TKN)	mg/L				1.2	0.10	7325871			
Total Organic Carbon (TOC)	mg/L				1.8	0.40	7325866			
Orthophosphate (P)	mg/L				<0.010	0.010	7324272			
pH	pH				7.66		7324183			
Phenols-4AAP	mg/L				0.0010	0.0010	7324868			
Alkalinity (Total as CaCO3)	mg/L				280	1.0	7324197			
Nitrite (N)	mg/L				<0.010	0.010	7324269	<0.010	0.010	7324269
Dissolved Chloride (Cl-)	mg/L	400	10	7324604	390	5.0	7324604			
Nitrate (N)	mg/L				<0.10	0.10	7324269	<0.10	0.10	7324269
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7324269	<0.10	0.10	7324269
Dissolved Bromide (Br-)	mg/L	<10	10	7324604	<5.0	5.0	7324604			
Dissolved Sulphate (SO4)	mg/L	1800	10	7324604	1500	5.0	7324604			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

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Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PKS427			PKS430			PKS430		
Sampling Date		2021/04/23			2021/04/23			2021/04/23		
COC Number		819873-16-01			819873-20-01			819873-20-01		
	UNITS	52-II	RDL	QC Batch	52-III	RDL	QC Batch	52-III Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	47	1.0	7322203	400	1.0	7322203			
Inorganics										
Total Ammonia-N	mg/L	110	0.50	7325874	<0.050	0.050	7325874			
Conductivity	umho/cm	13000	1.0	7324198	800	1.0	7324198			
Total Dissolved Solids	mg/L	4230	20	7323441	455	10	7323441			
Fluoride (F-)	mg/L	3.1	0.10	7324167	0.38	0.10	7324167			
Total Kjeldahl Nitrogen (TKN)	mg/L	120	5.0	7325871	0.29	0.10	7326605			
Total Organic Carbon (TOC)	mg/L	17	0.40	7325866	3.2	0.40	7325866			
Orthophosphate (P)	mg/L	<0.010	0.010	7324272	0.020	0.010	7324272			
pH	pH	9.37		7324183	7.90		7324183			
Phenols-4AAP	mg/L	0.40	0.010	7324854	<0.0010	0.0010	7324854			
Alkalinity (Total as CaCO3)	mg/L	400	1.0	7324197	270	1.0	7324197			
Nitrite (N)	mg/L	0.021	0.010	7324269	<0.010	0.010	7325681	<0.010	0.010	7325681
Dissolved Chloride (Cl-)	mg/L	3800	50	7324604	8.8	1.0	7324604			
Nitrate (N)	mg/L	<0.10	0.10	7324269	1.14	0.10	7325681	1.15	0.10	7325681
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7324269	1.14	0.10	7325681	1.15	0.10	7325681
Dissolved Bromide (Br-)	mg/L	<50	50	7324604	<1.0	1.0	7324604			
Dissolved Sulphate (SO4)	mg/L	530	50	7324604	140	1.0	7324604			

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



BUREAU
VERITAS

BV Labs Job #: C1B2190
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PKS431			PKS431		
Sampling Date		2021/04/26			2021/04/26		
COC Number		819873-20-01			819873-20-01		
	UNITS	P10-V	RDL	QC Batch	P10-V Lab-Dup	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L	380	1.0	7322203			
Inorganics							
Total Ammonia-N	mg/L	<0.050	0.050	7325874			
Conductivity	umho/cm	930	1.0	7324198			
Total Dissolved Solids	mg/L	420	10	7323441			
Fluoride (F-)	mg/L	0.50	0.10	7324167			
Total Kjeldahl Nitrogen (TKN)	mg/L	0.21	0.10	7325871			
Total Organic Carbon (TOC)	mg/L	3.9	0.40	7325866			
Orthophosphate (P)	mg/L	0.070	0.010	7324272			
pH	pH	7.82		7324183			
Phenols-4AAP	mg/L	<0.0010	0.0010	7324854	<0.0010	0.0010	7324854
Alkalinity (Total as CaCO3)	mg/L	320	1.0	7324197			
Nitrite (N)	mg/L	<0.010	0.010	7324269			
Dissolved Chloride (Cl-)	mg/L	41	1.0	7324604			
Nitrate (N)	mg/L	0.31	0.10	7324269			
Nitrate + Nitrite (N)	mg/L	0.31	0.10	7324269			
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7324604			
Dissolved Sulphate (SO4)	mg/L	110	1.0	7324604			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



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VERITAS

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PKS418		PKS419		PKS420		PKS421		
Sampling Date		2021/04/27		2021/04/23		2021/04/23		2021/04/23		
COC Number		819873-16-01		819873-16-01		819873-16-01		819873-16-01		
	UNITS	75-IV	RDL	L1	RDL	M5R	RDL	CW5R	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	<4.9	4.9	<4.9	4.9	14	4.9	7324985
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7324985
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	2.6	1.0	7324985
Dissolved Barium (Ba)	ug/L	17	2.0	17	2.0	26	2.0	11	2.0	7324985
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7324985
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7324985
Dissolved Boron (B)	ug/L	200	10	590	10	260	10	470	10	7324985
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7324985
Dissolved Calcium (Ca)	ug/L	330000	400	650000	1000	130000	200	29000	200	7324985
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7324985
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7324985
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	0.90	<0.90	0.90	<0.90	0.90	7324985
Dissolved Iron (Fe)	ug/L	450	100	<100	100	1200	100	<100	100	7324985
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7324985
Dissolved Lithium (Li)	ug/L	81	5.0	130	5.0	32	5.0	27	5.0	7324985
Dissolved Magnesium (Mg)	ug/L	160000	50	79000	50	43000	50	13000	50	7324985
Dissolved Manganese (Mn)	ug/L	47	2.0	71	2.0	170	2.0	<2.0	2.0	7324985
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	<0.50	0.50	7.0	0.50	52	0.50	7324985
Dissolved Nickel (Ni)	ug/L	1.1	1.0	<1.0	1.0	5.4	1.0	17	1.0	7324985
Dissolved Phosphorus (P)	ug/L	<100	100	<100	100	<100	100	130	100	7324985
Dissolved Potassium (K)	ug/L	14000	200	38000	200	42000	200	110000	200	7324985
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	2.0	<2.0	2.0	8.2	2.0	7324985
Dissolved Silicon (Si)	ug/L	7100	50	4500	50	7100	50	5400	50	7324985
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7324985
Dissolved Sodium (Na)	ug/L	360000	100	560000	500	490000	100	1700000	500	7324985
Dissolved Strontium (Sr)	ug/L	6900	1.0	9000	1.0	2000	1.0	1400	1.0	7324985
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7324985
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	<0.050	0.050	<0.050	0.050	7324985
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7324985
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7324985
Dissolved Tungsten (W)	ug/L	29	1.0	<1.0	1.0	1.1	1.0	19	1.0	7324985
Dissolved Uranium (U)	ug/L	2.0	0.10	<0.10	0.10	0.19	0.10	<0.10	0.10	7324985
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	0.74	0.50	7324985
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	5.0	12	5.0	<5.0	5.0	7324985
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7324985
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C1B2190
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PKS422	PKS423	PKS424		PKS425	PKS426		
Sampling Date		2021/04/23	2021/04/23	2021/04/23		2021/04/23	2021/04/23		
COC Number		819873-16-01	819873-16-01	819873-16-01		819873-16-01	819873-16-01		
	UNITS	M4	CW3	CW16	RDL	61-II	12-II	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<4.9	<4.9	<4.9	4.9	<4.9	<4.9	4.9	7324985
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	0.50	<0.50	<0.50	0.50	7324985
Dissolved Arsenic (As)	ug/L	<1.0	1.8	<1.0	1.0	<1.0	<1.0	1.0	7324985
Dissolved Barium (Ba)	ug/L	24	24	20	2.0	13	14	2.0	7324985
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	<0.40	0.40	<0.40	<0.40	0.40	7324985
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	1.0	7324985
Dissolved Boron (B)	ug/L	580	240	250	10	2800	2700	10	7324985
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	<0.090	0.090	<0.090	<0.090	0.090	7324985
Dissolved Calcium (Ca)	ug/L	400000	22000	190000	200	470000	460000	1000	7324985
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	<5.0	5.0	<5.0	<5.0	5.0	7324985
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	<0.50	0.50	<0.50	<0.50	0.50	7324985
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	<0.90	0.90	<0.90	1.5	0.90	7324985
Dissolved Iron (Fe)	ug/L	820	<100	240	100	110	350	100	7324985
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	<0.50	0.50	<0.50	<0.50	0.50	7324985
Dissolved Lithium (Li)	ug/L	61	23	22	5.0	410	390	5.0	7324985
Dissolved Magnesium (Mg)	ug/L	77000	5400	99000	50	92000	91000	50	7324985
Dissolved Manganese (Mn)	ug/L	240	<2.0	95	2.0	74	93	2.0	7324985
Dissolved Molybdenum (Mo)	ug/L	2.2	3.8	6.9	0.50	<0.50	<0.50	0.50	7324985
Dissolved Nickel (Ni)	ug/L	2.7	3.7	<1.0	1.0	<1.0	33	1.0	7324985
Dissolved Phosphorus (P)	ug/L	<100	<100	<100	100	<100	<100	100	7324985
Dissolved Potassium (K)	ug/L	34000	53000	23000	200	20000	19000	200	7324985
Dissolved Selenium (Se)	ug/L	<2.0	5.0	<2.0	2.0	<2.0	<2.0	2.0	7324985
Dissolved Silicon (Si)	ug/L	6300	10000	5200	50	6300	6300	50	7324985
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	<0.090	0.090	<0.090	<0.090	0.090	7324985
Dissolved Sodium (Na)	ug/L	420000	270000	83000	100	390000	390000	100	7324985
Dissolved Strontium (Sr)	ug/L	3900	1100	2100	1.0	5900	5700	1.0	7324985
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	1.0	7324985
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	<0.050	0.050	<0.050	<0.050	0.050	7324985
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	1.0	7324985
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	5.0	<5.0	<5.0	5.0	7324985
Dissolved Tungsten (W)	ug/L	<1.0	2.7	<1.0	1.0	<1.0	<1.0	1.0	7324985
Dissolved Uranium (U)	ug/L	0.68	<0.10	1.0	0.10	0.25	0.27	0.10	7324985
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	<0.50	0.50	<0.50	<0.50	0.50	7324985
Dissolved Zinc (Zn)	ug/L	10	<5.0	<5.0	5.0	<5.0	<5.0	5.0	7324985
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	1.0	7324985
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



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VERITAS

BV Labs Job #: C1B2190
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PKS427	PKS427			PKS430	PKS431	PKS431		
Sampling Date		2021/04/23	2021/04/23			2021/04/23	2021/04/26	2021/04/26		
COC Number		819873-16-01	819873-16-01			819873-20-01	819873-20-01	819873-20-01		
	UNITS	52-II	52-II Lab-Dup	RDL	QC Batch	52-III	P10-V	P10-V Lab-Dup	RDL	QC Batch

Metals										
Dissolved Aluminum (Al)	ug/L	24	25	4.9	7334831	21	13	10	4.9	7324985
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	7334831	<0.50	<0.50	<0.50	0.50	7324985
Dissolved Arsenic (As)	ug/L	1.3	1.2	1.0	7334831	<1.0	<1.0	<1.0	1.0	7324985
Dissolved Barium (Ba)	ug/L	11	12	2.0	7334831	38	35	35	2.0	7324985
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	7334831	<0.40	<0.40	<0.40	0.40	7324985
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	7334831	<1.0	<1.0	<1.0	1.0	7324985
Dissolved Boron (B)	ug/L	720	730	10	7334831	23	79	80	10	7324985
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	7334831	1.7	1.1	1.1	0.090	7324985
Dissolved Calcium (Ca)	ug/L	12000	13000	200	7334831	100000	99000	99000	200	7324985
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	7334831	<5.0	<5.0	<5.0	5.0	7324985
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	7334831	<0.50	<0.50	<0.50	0.50	7324985
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	7334831	3.2	4.7	4.5	0.90	7324985
Dissolved Iron (Fe)	ug/L	<100	<100	100	7334831	<100	<100	<100	100	7324985
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	7334831	<0.50	5.6	5.6	0.50	7324985
Dissolved Lithium (Li)	ug/L	31	32	5.0	7334831	<5.0	<5.0	<5.0	5.0	7324985
Dissolved Magnesium (Mg)	ug/L	3900	3900	50	7334831	33000	32000	32000	50	7324985
Dissolved Manganese (Mn)	ug/L	2.3	2.4	2.0	7334831	2.8	8.5	8.1	2.0	7324985
Dissolved Molybdenum (Mo)	ug/L	26	25	0.50	7334831	1.6	1.4	1.4	0.50	7324985
Dissolved Nickel (Ni)	ug/L	5.8	5.7	1.0	7334831	3.9	4.6	4.6	1.0	7324985
Dissolved Phosphorus (P)	ug/L	<100	<100	100	7334831	<100	120	110	100	7324985
Dissolved Potassium (K)	ug/L	80000	82000	200	7334831	1200	7700	7600	200	7324985
Dissolved Selenium (Se)	ug/L	2.2	<2.0	2.0	7334831	<2.0	<2.0	<2.0	2.0	7324985
Dissolved Silicon (Si)	ug/L	5500	5600	50	7334831	3200	5100	5100	50	7324985
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	7334831	<0.090	<0.090	<0.090	0.090	7324985
Dissolved Sodium (Na)	ug/L	1500000	1500000	500	7334831	29000	23000	23000	100	7324985
Dissolved Strontium (Sr)	ug/L	1400	1400	1.0	7334831	410	600	590	1.0	7324985
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	7334831	<1.0	<1.0	<1.0	1.0	7324985
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	7334831	<0.050	0.10	0.11	0.050	7324985
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	7334831	<1.0	<1.0	<1.0	1.0	7324985
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	7334831	<5.0	<5.0	<5.0	5.0	7324985
Dissolved Tungsten (W)	ug/L	7.6	7.7	1.0	7334831	<1.0	<1.0	<1.0	1.0	7324985
Dissolved Uranium (U)	ug/L	<0.10	<0.10	0.10	7334831	3.2	3.0	3.0	0.10	7324985
Dissolved Vanadium (V)	ug/L	1.8	1.5	0.50	7334831	<0.50	<0.50	<0.50	0.50	7324985
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	7334831	370	530	530	5.0	7324985
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	7334831	<1.0	<1.0	<1.0	1.0	7324985

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



BUREAU
VERITAS

BV Labs Job #: C1B2190
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

BV Labs ID		PKS418		
Sampling Date		2021/04/27		
COC Number		819873-16-01		
	UNITS	75-IV	RDL	QC Batch
Semivolatile Organics				
Acenaphthene	ug/L	<0.20	0.20	7330362
Acenaphthylene	ug/L	<0.20	0.20	7330362
Anthracene	ug/L	<0.20	0.20	7330362
Benzo(a)anthracene	ug/L	<0.20	0.20	7330362
Benzo(a)pyrene	ug/L	<0.20	0.20	7330362
Benzo(b/j)fluoranthene	ug/L	<0.20	0.20	7330362
Benzo(g,h,i)perylene	ug/L	<0.20	0.20	7330362
Benzo(k)fluoranthene	ug/L	<0.20	0.20	7330362
1-Chloronaphthalene	ug/L	<1.0	1.0	7330362
2-Chloronaphthalene	ug/L	<0.50	0.50	7330362
Chrysene	ug/L	<0.20	0.20	7330362
Dibenzo(a,h)anthracene	ug/L	<0.20	0.20	7330362
Fluoranthene	ug/L	<0.20	0.20	7330362
Fluorene	ug/L	<0.20	0.20	7330362
Indeno(1,2,3-cd)pyrene	ug/L	<0.20	0.20	7330362
1-Methylnaphthalene	ug/L	<0.20	0.20	7330362
2-Methylnaphthalene	ug/L	<0.20	0.20	7330362
Naphthalene	ug/L	<0.20	0.20	7330362
5-Nitroacenaphthene	ug/L	<1.0	1.0	7330362
Perylene	ug/L	<0.20	0.20	7330362
Phenanthrene	ug/L	<0.20	0.20	7330362
Pyrene	ug/L	<0.20	0.20	7330362
1,2-Dichlorobenzene	ug/L	<0.50	0.50	7330362
1,3-Dichlorobenzene	ug/L	<0.50	0.50	7330362
1,4-Dichlorobenzene	ug/L	<0.50	0.50	7330362
Hexachlorobenzene	ug/L	<0.50	0.50	7330362
Pentachlorobenzene	ug/L	<0.50	0.50	7330362
1,2,3,5-Tetrachlorobenzene	ug/L	<0.50	0.50	7330362
1,2,4,5-Tetrachlorobenzene	ug/L	<0.50	0.50	7330362
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	7330362
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	7330362
1,3,5-Trichlorobenzene	ug/L	<0.50	0.50	7330362
2-Chlorophenol	ug/L	<0.30	0.30	7330362
4-Chloro-3-Methylphenol	ug/L	<0.50	0.50	7330362
m/p-Cresol	ug/L	<0.50	0.50	7330362
o-Cresol	ug/L	<0.50	0.50	7330362
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
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BV Labs Job #: C1B2190
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Terrapure Environmental
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Sampler Initials: BM

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

BV Labs ID		PKS418		
Sampling Date		2021/04/27		
COC Number		819873-16-01		
	UNITS	75-IV	RDL	QC Batch
1,2,3,4-Tetrachlorobenzene	ug/L	<0.50	0.50	7330362
2,3-Dichlorophenol	ug/L	<0.50	0.50	7330362
2,4-Dichlorophenol	ug/L	<0.30	0.30	7330362
2,5-Dichlorophenol	ug/L	<0.50	0.50	7330362
2,6-Dichlorophenol	ug/L	<0.50	0.50	7330362
3,4-Dichlorophenol	ug/L	<0.50	0.50	7330362
3,5-Dichlorophenol	ug/L	<0.50	0.50	7330362
2,4-Dimethylphenol	ug/L	<0.50	0.50	7330362
2,4-Dinitrophenol	ug/L	<2.0	2.0	7330362
4,6-Dinitro-2-methylphenol	ug/L	<2.0	2.0	7330362
2-Nitrophenol	ug/L	<0.50	0.50	7330362
4-Nitrophenol	ug/L	<1.4	1.4	7330362
Pentachlorophenol	ug/L	<1.0	1.0	7330362
Phenol	ug/L	<0.50	0.50	7330362
2,3,4,5-Tetrachlorophenol	ug/L	<0.40	0.40	7330362
2,3,4,6-Tetrachlorophenol	ug/L	<0.50	0.50	7330362
2,3,5,6-Tetrachlorophenol	ug/L	<0.50	0.50	7330362
2,3,4-Trichlorophenol	ug/L	<0.50	0.50	7330362
2,3,5-Trichlorophenol	ug/L	<0.50	0.50	7330362
2,3,6-Trichlorophenol	ug/L	<0.50	0.50	7330362
2,4,5-Trichlorophenol	ug/L	<0.50	0.50	7330362
2,4,6-Trichlorophenol	ug/L	<0.50	0.50	7330362
3,4,5-Trichlorophenol	ug/L	<0.50	0.50	7330362
Benzyl butyl phthalate	ug/L	<0.50	0.50	7330362
Biphenyl	ug/L	<0.50	0.50	7330362
Bis(2-chloroethyl)ether	ug/L	<0.50	0.50	7330362
Bis(2-chloroethoxy)methane	ug/L	<0.50	0.50	7330362
Bis(2-chloroisopropyl)ether	ug/L	<0.50	0.50	7330362
Bis(2-ethylhexyl)phthalate	ug/L	<2.0	2.0	7330362
4-Bromophenyl phenyl ether	ug/L	<0.30	0.30	7330362
p-Chloroaniline	ug/L	<1.0	1.0	7330362
4-Chlorophenyl phenyl ether	ug/L	<0.50	0.50	7330362
Di-N-butyl phthalate	ug/L	<2.0	2.0	7330362
di-n-octyl phthalate	ug/L	<0.80	0.80	7330362
2,4-Dinitrotoluene	ug/L	<0.50	0.50	7330362
Diethyl phthalate	ug/L	<1.0	1.0	7330362
3,3'-Dichlorobenzidine	ug/L	<0.50	0.50	7330362
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



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BV Labs Job #: C1B2190
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Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

BV Labs ID		PKS418		
Sampling Date		2021/04/27		
COC Number		819873-16-01		
	UNITS	75-IV	RDL	QC Batch
Dimethyl phthalate	ug/L	<1.0	1.0	7330362
2,6-Dinitrotoluene	ug/L	<0.50	0.50	7330362
Diphenyl Ether	ug/L	<0.30	0.30	7330362
Hexachlorobutadiene	ug/L	<0.40	0.40	7330362
Hexachlorocyclopentadiene	ug/L	<2.0	2.0	7330362
Hexachloroethane	ug/L	<0.50	0.50	7330362
Isophorone	ug/L	<0.50	0.50	7330362
Nitrobenzene	ug/L	<0.50	0.50	7330362
Nitrosodiphenylamine/Diphenylamine	ug/L	<1.0	1.0	7330362
N-Nitroso-di-n-propylamine	ug/L	<0.50	0.50	7330362
Surrogate Recovery (%)				
2,4,6-Tribromophenol	%	86		7330362
2-Fluorobiphenyl	%	58		7330362
2-Fluorophenol	%	43		7330362
D14-Terphenyl	%	95		7330362
D5-Nitrobenzene	%	80		7330362
D5-Phenol	%	29		7330362
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



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Terrapure Environmental
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Sampler Initials: BM

VOLATILE ORGANICS BY GC/MS (WATER)

BV Labs ID		PKS418		
Sampling Date		2021/04/27		
COC Number		819873-16-01		
	UNITS	75-IV	RDL	QC Batch
Volatile Organics				
Acetone (2-Propanone)	ug/L	<10	10	7322492
Benzene	ug/L	<0.10	0.10	7322492
Bromodichloromethane	ug/L	<0.10	0.10	7322492
Acrolein	ug/L	<10	10	7322750
Bromoform	ug/L	<0.20	0.20	7322492
Bromomethane	ug/L	<0.50	0.50	7322492
Carbon Tetrachloride	ug/L	<0.10	0.10	7322492
Chlorobenzene	ug/L	<0.10	0.10	7322492
Chloroethane	ug/L	<0.20	0.20	7322492
Chloroform	ug/L	<0.10	0.10	7322492
Acrylonitrile	ug/L	<5.0	5.0	7322750
Chloromethane	ug/L	<0.50	0.50	7322492
Dibromochloromethane	ug/L	<0.20	0.20	7322492
1,2-Dichlorobenzene	ug/L	<0.20	0.20	7322492
1,3-Dichlorobenzene	ug/L	<0.20	0.20	7322492
1,4-Dichlorobenzene	ug/L	<0.20	0.20	7322492
1,1-Dichloroethane	ug/L	<0.10	0.10	7322492
1,2-Dichloroethane	ug/L	<0.20	0.20	7322492
1,1-Dichloroethylene	ug/L	<0.10	0.10	7322492
cis-1,2-Dichloroethylene	ug/L	<0.10	0.10	7322492
trans-1,2-Dichloroethylene	ug/L	<0.10	0.10	7322492
1,2-Dichloropropane	ug/L	<0.10	0.10	7322492
cis-1,3-Dichloropropene	ug/L	<0.20	0.20	7322492
trans-1,3-Dichloropropene	ug/L	<0.20	0.20	7322492
Ethylbenzene	ug/L	<0.10	0.10	7322492
Ethylene Dibromide	ug/L	<0.20	0.20	7322492
Methylene Chloride(Dichloromethane)	ug/L	<0.50	0.50	7322492
Methyl Ethyl Ketone (2-Butanone)	ug/L	<5.0	5.0	7322492
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	7322492
Methyl t-butyl ether (MTBE)	ug/L	<0.20	0.20	7322492
Styrene	ug/L	<0.20	0.20	7322492
1,1,1,2-Tetrachloroethane	ug/L	<0.20	0.20	7322492
1,1,1,2-Tetrachloroethane	ug/L	<0.20	0.20	7322492
Tetrachloroethylene	ug/L	<0.10	0.10	7322492
Toluene	ug/L	0.25	0.20	7322492
1,1,1-Trichloroethane	ug/L	<0.10	0.10	7322492
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1B2190
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

VOLATILE ORGANICS BY GC/MS (WATER)

BV Labs ID		PKS418		
Sampling Date		2021/04/27		
COC Number		819873-16-01		
	UNITS	75-IV	RDL	QC Batch
1,1,2-Trichloroethane	ug/L	<0.20	0.20	7322492
Trichloroethylene	ug/L	<0.10	0.10	7322492
Trichlorofluoromethane (FREON 11)	ug/L	<0.20	0.20	7322492
Vinyl Chloride	ug/L	<0.20	0.20	7322492
p+m-Xylene	ug/L	0.10	0.10	7322492
Methyl Butyl Ketone (2-Hexanone)	ug/L	<5.0	5.0	7322750
o-Xylene	ug/L	<0.10	0.10	7322492
Total Xylenes	ug/L	0.10	0.10	7322492
Total Trihalomethanes	ug/L	<0.20	0.20	7322492
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	103		7322492
D4-1,2-Dichloroethane	%	98		7322492
D8-Toluene	%	98		7322492
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1B2190
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

O.REG 153 OC PESTICIDES (WATER)

BV Labs ID		PKS418		
Sampling Date		2021/04/27		
COC Number		819873-16-01		
	UNITS	75-IV	RDL	QC Batch
Calculated Parameters				
Chlordane (Total)	ug/L	<0.005	0.005	7321782
o,p-DDD + p,p-DDD	ug/L	<0.005	0.005	7321782
o,p-DDE + p,p-DDE	ug/L	<0.005	0.005	7321782
o,p-DDT + p,p-DDT	ug/L	<0.005	0.005	7321782
Total Endosulfan	ug/L	<0.005	0.005	7321782
Total PCB	ug/L	<0.05	0.05	7321782
Pesticides & Herbicides				
Aldrin	ug/L	<0.005	0.005	7322724
Dieldrin	ug/L	<0.005	0.005	7322724
a-Chlordane	ug/L	<0.005	0.005	7322724
g-Chlordane	ug/L	<0.005	0.005	7322724
o,p-DDD	ug/L	<0.005	0.005	7322724
p,p-DDD	ug/L	<0.005	0.005	7322724
o,p-DDE	ug/L	<0.005	0.005	7322724
p,p-DDE	ug/L	<0.005	0.005	7322724
o,p-DDT	ug/L	<0.005	0.005	7322724
p,p-DDT	ug/L	<0.005	0.005	7322724
Lindane	ug/L	<0.003	0.003	7322724
Endosulfan I (alpha)	ug/L	<0.005	0.005	7322724
Endosulfan II (beta)	ug/L	<0.005	0.005	7322724
Endrin	ug/L	<0.005	0.005	7322724
Heptachlor	ug/L	<0.005	0.005	7322724
Heptachlor epoxide	ug/L	<0.005	0.005	7322724
Hexachlorobenzene	ug/L	<0.005	0.005	7322724
Hexachlorobutadiene	ug/L	<0.009	0.009	7322724
Hexachloroethane	ug/L	<0.01	0.01	7322724
Methoxychlor	ug/L	<0.01	0.01	7322724
Aroclor 1242	ug/L	<0.05	0.05	7322724
Aroclor 1248	ug/L	<0.05	0.05	7322724
Aroclor 1254	ug/L	<0.05	0.05	7322724
Aroclor 1260	ug/L	<0.05	0.05	7322724
alpha-BHC	ug/L	<0.005	0.005	7322724
beta-BHC	ug/L	<0.005	0.005	7322724
Endrin aldehyde	ug/L	<0.005	0.005	7322724
Endrin ketone	ug/L	<0.005	0.005	7322724
Mirex	ug/L	<0.005	0.005	7322724
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1B2190
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

O.REG 153 OC PESTICIDES (WATER)

BV Labs ID		PKS418		
Sampling Date		2021/04/27		
COC Number		819873-16-01		
	UNITS	75-IV	RDL	QC Batch
Toxaphene	ug/L	<0.2	0.2	7322724
Surrogate Recovery (%)				
2,4,5,6-Tetrachloro-m-xylene	%	76		7322724
Decachlorobiphenyl	%	88		7322724
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1B2190
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PKS418
Sample ID: 75-IV
Matrix: Water

Collected: 2021/04/27
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7330362	2021/05/03	2021/05/04	Anh Lieu
Alkalinity	AT	7324197	N/A	2021/04/29	Surinder Rai
Anions	IC	7324604	N/A	2021/04/30	Fari Dehdezi
Conductivity	AT	7324198	N/A	2021/04/29	Surinder Rai
Fluoride	ISE	7324167	2021/04/28	2021/04/29	Surinder Rai
Hardness (calculated as CaCO3)		7322203	N/A	2021/05/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7324985	N/A	2021/04/30	Nan Raykha
Total Ammonia-N	LACH/NH4	7325874	N/A	2021/04/30	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7324269	N/A	2021/04/29	Chandra Nandlal
OC Pesticides (Selected) & PCB	GC/ECD	7322724	2021/04/28	2021/04/29	Li Peng
OC Pesticides Summed Parameters	CALC	7321782	N/A	2021/04/29	Automated Statchk
pH	AT	7324183	2021/04/28	2021/04/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7324854	N/A	2021/04/29	Bramdeo Motiram
Orthophosphate	KONE	7324272	N/A	2021/04/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7324509	2021/04/28	2021/04/29	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7326605	2021/04/29	2021/05/04	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7326194	N/A	2021/04/30	Nimarta Singh
Volatile Organic Compounds in Water	P&T/MS	7322492	N/A	2021/04/30	Dina Wang
Non-Routine Volatile Organic Compounds	P&T/MS	7322750	N/A	2021/04/29	Dina Wang

BV Labs ID: PKS418 Dup
Sample ID: 75-IV
Matrix: Water

Collected: 2021/04/27
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7324509	2021/04/28	2021/04/29	Shivani Desai

BV Labs ID: PKS419
Sample ID: L1
Matrix: Water

Collected: 2021/04/23
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7324197	N/A	2021/04/29	Surinder Rai
Anions	IC	7324604	N/A	2021/04/30	Fari Dehdezi
Conductivity	AT	7324198	N/A	2021/04/29	Surinder Rai
Fluoride	ISE	7324167	2021/04/28	2021/04/29	Surinder Rai
Hardness (calculated as CaCO3)		7322203	N/A	2021/05/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7324985	N/A	2021/05/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7325874	N/A	2021/04/30	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7324269	N/A	2021/04/29	Chandra Nandlal
pH	AT	7324183	2021/04/28	2021/04/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7324868	N/A	2021/04/29	Bramdeo Motiram
Orthophosphate	KONE	7324272	N/A	2021/04/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7323441	2021/04/29	2021/04/30	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7325871	2021/04/29	2021/04/30	Massarat Jan



BUREAU
VERITAS

BV Labs Job #: C1B2190
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PKS419
Sample ID: L1
Matrix: Water

Collected: 2021/04/23
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Organic Carbon (TOC)	TOCV/NDIR	7325866	N/A	2021/04/29	Anna-Kay Gooden

BV Labs ID: PKS419 Dup
Sample ID: L1
Matrix: Water

Collected: 2021/04/23
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7324868	N/A	2021/04/29	Bramdeo Motiram

BV Labs ID: PKS420
Sample ID: M5R
Matrix: Water

Collected: 2021/04/23
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7324197	N/A	2021/04/29	Surinder Rai
Anions	IC	7324604	N/A	2021/04/30	Fari Dehdezi
Conductivity	AT	7324198	N/A	2021/04/29	Surinder Rai
Fluoride	ISE	7324167	2021/04/28	2021/04/29	Surinder Rai
Hardness (calculated as CaCO3)		7322203	N/A	2021/05/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7324985	N/A	2021/04/30	Nan Raykha
Total Ammonia-N	LACH/NH4	7325874	N/A	2021/04/30	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7324269	N/A	2021/04/29	Chandra Nandlal
pH	AT	7324183	2021/04/28	2021/04/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7324854	N/A	2021/04/30	Bramdeo Motiram
Orthophosphate	KONE	7324272	N/A	2021/04/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7323441	2021/04/29	2021/04/30	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7326605	2021/04/29	2021/05/04	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7325866	N/A	2021/04/29	Anna-Kay Gooden

BV Labs ID: PKS421
Sample ID: CW5R
Matrix: Water

Collected: 2021/04/23
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7324197	N/A	2021/04/29	Surinder Rai
Anions	IC	7324604	N/A	2021/04/30	Fari Dehdezi
Conductivity	AT	7324198	N/A	2021/04/29	Surinder Rai
Fluoride	ISE	7324167	2021/04/28	2021/04/29	Surinder Rai
Hardness (calculated as CaCO3)		7322203	N/A	2021/05/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7324985	N/A	2021/05/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7325874	N/A	2021/04/30	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7324269	N/A	2021/04/29	Chandra Nandlal
pH	AT	7324183	2021/04/28	2021/04/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7324868	N/A	2021/04/29	Bramdeo Motiram
Orthophosphate	KONE	7324272	N/A	2021/04/29	Avneet Kour Sudan



BUREAU
VERITAS

BV Labs Job #: C1B2190
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PKS421
Sample ID: CW5R
Matrix: Water

Collected: 2021/04/23
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7323441	2021/04/29	2021/04/30	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7326605	2021/04/29	2021/05/04	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7325866	N/A	2021/04/29	Anna-Kay Gooden

BV Labs ID: PKS422
Sample ID: M4
Matrix: Water

Collected: 2021/04/23
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7324197	N/A	2021/04/29	Surinder Rai
Anions	IC	7324604	N/A	2021/04/30	Fari Dehdezi
Conductivity	AT	7324198	N/A	2021/04/29	Surinder Rai
Fluoride	ISE	7324167	2021/04/28	2021/04/29	Surinder Rai
Hardness (calculated as CaCO3)		7322203	N/A	2021/05/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7324985	N/A	2021/04/30	Nan Raykha
Total Ammonia-N	LACH/NH4	7325874	N/A	2021/04/30	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7324269	N/A	2021/04/29	Chandra Nandlal
pH	AT	7324183	2021/04/28	2021/04/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7324868	N/A	2021/04/29	Bramdeo Motiram
Orthophosphate	KONE	7324272	N/A	2021/04/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7323441	2021/04/29	2021/04/30	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7326605	2021/04/29	2021/05/04	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7326194	N/A	2021/04/30	Nimarta Singh

BV Labs ID: PKS423
Sample ID: CW3
Matrix: Water

Collected: 2021/04/23
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7324197	N/A	2021/04/29	Surinder Rai
Anions	IC	7324604	N/A	2021/04/30	Fari Dehdezi
Conductivity	AT	7324198	N/A	2021/04/29	Surinder Rai
Fluoride	ISE	7324167	2021/04/28	2021/04/29	Surinder Rai
Hardness (calculated as CaCO3)		7322203	N/A	2021/05/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7324985	N/A	2021/04/30	Nan Raykha
Total Ammonia-N	LACH/NH4	7325874	N/A	2021/04/30	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7324269	N/A	2021/04/29	Chandra Nandlal
pH	AT	7324183	2021/04/28	2021/04/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7324868	N/A	2021/04/29	Bramdeo Motiram
Orthophosphate	KONE	7324272	N/A	2021/04/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7323441	2021/04/29	2021/04/30	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7326605	2021/04/29	2021/05/04	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7326194	N/A	2021/04/30	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C1B2190
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PKS423 Dup
Sample ID: CW3
Matrix: Water

Collected: 2021/04/23
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7324272	N/A	2021/04/29	Avneet Kour Sudan
Total Organic Carbon (TOC)	TOCV/NDIR	7326194	N/A	2021/04/30	Nimarta Singh

BV Labs ID: PKS424
Sample ID: CW16
Matrix: Water

Collected: 2021/04/23
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7324197	N/A	2021/04/29	Surinder Rai
Anions	IC	7324604	N/A	2021/04/30	Fari Dehdezi
Conductivity	AT	7324198	N/A	2021/04/29	Surinder Rai
Fluoride	ISE	7324167	2021/04/28	2021/04/29	Surinder Rai
Hardness (calculated as CaCO3)		7322203	N/A	2021/05/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7324985	N/A	2021/04/30	Nan Raykha
Total Ammonia-N	LACH/NH4	7325874	N/A	2021/04/30	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7325681	N/A	2021/04/29	Chandra Nandlal
pH	AT	7324183	2021/04/28	2021/04/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7324802	N/A	2021/04/29	Bramdeo Motiram
Orthophosphate	KONE	7324272	N/A	2021/04/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7323441	2021/04/29	2021/04/30	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7325871	2021/04/29	2021/04/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7325866	N/A	2021/04/29	Anna-Kay Gooden

BV Labs ID: PKS424 Dup
Sample ID: CW16
Matrix: Water

Collected: 2021/04/23
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7324197	N/A	2021/04/29	Surinder Rai
Conductivity	AT	7324198	N/A	2021/04/29	Surinder Rai
Fluoride	ISE	7324167	2021/04/28	2021/04/29	Surinder Rai
Total Ammonia-N	LACH/NH4	7325874	N/A	2021/04/30	Alina Dobreanu
pH	AT	7324183	2021/04/28	2021/04/29	Surinder Rai

BV Labs ID: PKS425
Sample ID: 61-II
Matrix: Water

Collected: 2021/04/23
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7324197	N/A	2021/04/29	Surinder Rai
Anions	IC	7324604	N/A	2021/04/30	Fari Dehdezi
Conductivity	AT	7324198	N/A	2021/04/29	Surinder Rai
Fluoride	ISE	7324167	2021/04/28	2021/04/29	Surinder Rai
Hardness (calculated as CaCO3)		7322203	N/A	2021/05/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7324985	N/A	2021/05/03	Nan Raykha



BUREAU
VERITAS

BV Labs Job #: C1B2190
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PKS425
Sample ID: 61-II
Matrix: Water

Collected: 2021/04/23
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7325874	N/A	2021/04/30	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7324269	N/A	2021/04/29	Chandra Nandlal
pH	AT	7324183	2021/04/28	2021/04/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7324854	N/A	2021/04/29	Bramdeo Motiram
Orthophosphate	KONE	7324272	N/A	2021/04/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7323441	2021/04/29	2021/04/30	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7325871	2021/04/29	2021/04/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7325866	N/A	2021/04/29	Anna-Kay Gooden

BV Labs ID: PKS425 Dup
Sample ID: 61-II
Matrix: Water

Collected: 2021/04/23
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7324604	N/A	2021/04/30	Fari Dehdezi
Total Dissolved Solids	BAL	7323441	2021/04/29	2021/04/30	Sandeep Kaur

BV Labs ID: PKS426
Sample ID: 12-II
Matrix: Water

Collected: 2021/04/23
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7324197	N/A	2021/04/29	Surinder Rai
Anions	IC	7324604	N/A	2021/04/30	Fari Dehdezi
Conductivity	AT	7324198	N/A	2021/04/29	Surinder Rai
Fluoride	ISE	7324167	2021/04/28	2021/04/29	Surinder Rai
Hardness (calculated as CaCO3)		7322203	N/A	2021/05/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7324985	N/A	2021/05/03	Nan Raykha
Total Ammonia-N	LACH/NH4	7325874	N/A	2021/04/30	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7324269	N/A	2021/04/29	Chandra Nandlal
pH	AT	7324183	2021/04/28	2021/04/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7324868	N/A	2021/04/29	Bramdeo Motiram
Orthophosphate	KONE	7324272	N/A	2021/04/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7323441	2021/04/29	2021/04/30	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7325871	2021/04/29	2021/04/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7325866	N/A	2021/04/29	Anna-Kay Gooden

BV Labs ID: PKS426 Dup
Sample ID: 12-II
Matrix: Water

Collected: 2021/04/23
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7324269	N/A	2021/04/29	Chandra Nandlal



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BV Labs Job #: C1B2190
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PKS427
Sample ID: 52-II
Matrix: Water

Collected: 2021/04/23
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7324197	N/A	2021/04/29	Surinder Rai
Anions	IC	7324604	N/A	2021/04/30	Fari Dehdezi
Conductivity	AT	7324198	N/A	2021/04/29	Surinder Rai
Fluoride	ISE	7324167	2021/04/28	2021/04/29	Surinder Rai
Hardness (calculated as CaCO3)		7322203	N/A	2021/05/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7334831	N/A	2021/05/05	Azita Fazaeli
Total Ammonia-N	LACH/NH4	7325874	N/A	2021/04/30	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7324269	N/A	2021/04/29	Chandra Nandlal
pH	AT	7324183	2021/04/28	2021/04/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7324854	N/A	2021/04/29	Bramdeo Motiram
Orthophosphate	KONE	7324272	N/A	2021/04/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7323441	2021/04/29	2021/04/30	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7325871	2021/04/29	2021/04/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7325866	N/A	2021/04/29	Anna-Kay Gooden

BV Labs ID: PKS427 Dup
Sample ID: 52-II
Matrix: Water

Collected: 2021/04/23
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7334831	N/A	2021/05/05	Azita Fazaeli

BV Labs ID: PKS430
Sample ID: 52-III
Matrix: Water

Collected: 2021/04/23
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7324197	N/A	2021/04/29	Surinder Rai
Anions	IC	7324604	N/A	2021/04/30	Fari Dehdezi
Conductivity	AT	7324198	N/A	2021/04/29	Surinder Rai
Fluoride	ISE	7324167	2021/04/28	2021/04/29	Surinder Rai
Hardness (calculated as CaCO3)		7322203	N/A	2021/05/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7324985	N/A	2021/04/30	Nan Raykha
Total Ammonia-N	LACH/NH4	7325874	N/A	2021/04/30	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7325681	N/A	2021/04/29	Chandra Nandlal
pH	AT	7324183	2021/04/28	2021/04/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7324854	N/A	2021/04/29	Bramdeo Motiram
Orthophosphate	KONE	7324272	N/A	2021/04/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7323441	2021/04/29	2021/04/30	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7326605	2021/04/29	2021/05/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7325866	N/A	2021/04/29	Anna-Kay Gooden



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BV Labs Job #: C1B2190
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PKS430 Dup
Sample ID: 52-III
Matrix: Water

Collected: 2021/04/23
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7325681	N/A	2021/04/29	Chandra Nandlal

BV Labs ID: PKS431
Sample ID: P10-V
Matrix: Water

Collected: 2021/04/26
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7324197	N/A	2021/04/29	Surinder Rai
Anions	IC	7324604	N/A	2021/04/30	Fari Dehdezi
Conductivity	AT	7324198	N/A	2021/04/29	Surinder Rai
Fluoride	ISE	7324167	2021/04/28	2021/04/29	Surinder Rai
Hardness (calculated as CaCO3)		7322203	N/A	2021/05/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7324985	N/A	2021/04/30	Nan Raykha
Total Ammonia-N	LACH/NH4	7325874	N/A	2021/04/30	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7324269	N/A	2021/04/29	Chandra Nandlal
pH	AT	7324183	2021/04/28	2021/04/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7324854	N/A	2021/04/29	Bramdeo Motiram
Orthophosphate	KONE	7324272	N/A	2021/04/29	Avneet Kour Sudan
Total Dissolved Solids	BAL	7323441	2021/04/29	2021/04/30	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7325871	2021/04/29	2021/04/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7325866	N/A	2021/04/29	Anna-Kay Gooden

BV Labs ID: PKS431 Dup
Sample ID: P10-V
Matrix: Water

Collected: 2021/04/26
Shipped:
Received: 2021/04/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7324985	N/A	2021/04/30	Nan Raykha
Phenols (4AAP)	TECH/PHEN	7324854	N/A	2021/04/29	Bramdeo Motiram



GENERAL COMMENTS

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

Package 1	1.0°C
Package 2	2.3°C
Package 3	2.0°C
Package 4	1.7°C

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

Results relate only to the items tested.



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BV Labs Job #: C1B2190
Report Date: 2021/05/05

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
7322492	4-Bromofluorobenzene	2021/04/29	106	70 - 130	104	70 - 130	94	%				
7322492	D4-1,2-Dichloroethane	2021/04/29	98	70 - 130	98	70 - 130	101	%				
7322492	D8-Toluene	2021/04/29	98	70 - 130	97	70 - 130	76	%				
7322724	2,4,5,6-Tetrachloro-m-xylene	2021/04/28	81	50 - 130	70	50 - 130	65	%				
7322724	Decachlorobiphenyl	2021/04/28	102	50 - 130	88	50 - 130	80	%				
7330362	2,4,6-Tribromophenol	2021/05/04	85	10 - 130	80	10 - 130	71	%				
7330362	2-Fluorobiphenyl	2021/05/04	71	30 - 130	62	30 - 130	76	%				
7330362	2-Fluorophenol	2021/05/04	49	10 - 130	45	10 - 130	44	%				
7330362	D14-Terphenyl	2021/05/04	103	30 - 130	97	30 - 130	92	%				
7330362	D5-Nitrobenzene	2021/05/04	89	30 - 130	79	30 - 130	92	%				
7330362	D5-Phenol	2021/05/04	33	10 - 130	33	10 - 130	32	%				
7322492	1,1,1,2-Tetrachloroethane	2021/04/30	89	70 - 130	86	70 - 130	<0.20	ug/L	NC	30		
7322492	1,1,1-Trichloroethane	2021/04/30	92	70 - 130	89	70 - 130	<0.10	ug/L	NC	30		
7322492	1,1,2,2-Tetrachloroethane	2021/04/30	91	70 - 130	86	70 - 130	<0.20	ug/L	NC	30		
7322492	1,1,2-Trichloroethane	2021/04/30	93	70 - 130	89	70 - 130	<0.20	ug/L	NC	30		
7322492	1,1-Dichloroethane	2021/04/30	83	70 - 130	82	70 - 130	<0.10	ug/L	NC	30		
7322492	1,1-Dichloroethylene	2021/04/30	86	70 - 130	84	70 - 130	<0.10	ug/L	NC	30		
7322492	1,2-Dichlorobenzene	2021/04/30	91	70 - 130	88	70 - 130	<0.20	ug/L	NC	30		
7322492	1,2-Dichloroethane	2021/04/30	86	70 - 130	84	70 - 130	<0.20	ug/L	NC	30		
7322492	1,2-Dichloropropane	2021/04/30	87	70 - 130	85	70 - 130	<0.10	ug/L	NC	30		
7322492	1,3-Dichlorobenzene	2021/04/30	90	70 - 130	87	70 - 130	<0.20	ug/L	NC	30		
7322492	1,4-Dichlorobenzene	2021/04/30	103	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
7322492	Acetone (2-Propanone)	2021/04/30	94	60 - 140	91	60 - 140	<10	ug/L	NC	30		
7322492	Benzene	2021/04/30	86	70 - 130	84	70 - 130	<0.10	ug/L	NC	30		
7322492	Bromodichloromethane	2021/04/30	93	70 - 130	90	70 - 130	<0.10	ug/L	NC	30		
7322492	Bromoform	2021/04/30	96	70 - 130	92	70 - 130	<0.20	ug/L	NC	30		
7322492	Bromomethane	2021/04/30	71	60 - 140	68	60 - 140	<0.50	ug/L	NC	30		
7322492	Carbon Tetrachloride	2021/04/30	90	70 - 130	86	70 - 130	<0.10	ug/L	NC	30		
7322492	Chlorobenzene	2021/04/30	91	70 - 130	88	70 - 130	<0.10	ug/L	NC	30		
7322492	Chloroethane	2021/04/30	131 (1)	70 - 130	84	70 - 130	<0.20	ug/L	NC	30		
7322492	Chloroform	2021/04/30	89	70 - 130	87	70 - 130	<0.10	ug/L	NC	30		



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BV Labs Job #: C1B2190
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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
7322492	Chloromethane	2021/04/30	48 (2)	60 - 140	54 (2)	60 - 140	<0.50	ug/L	NC	30		
7322492	cis-1,2-Dichloroethylene	2021/04/30	90	70 - 130	89	70 - 130	<0.10	ug/L	NC	30		
7322492	cis-1,3-Dichloropropene	2021/04/30	87	70 - 130	86	70 - 130	<0.20	ug/L	NC	30		
7322492	Dibromochloromethane	2021/04/30	91	70 - 130	87	70 - 130	<0.20	ug/L	NC	30		
7322492	Ethylbenzene	2021/04/30	82	70 - 130	78	70 - 130	<0.10	ug/L	NC	30		
7322492	Ethylene Dibromide	2021/04/30	91	70 - 130	88	70 - 130	<0.20	ug/L	NC	30		
7322492	Methyl Ethyl Ketone (2-Butanone)	2021/04/30	92	60 - 140	88	60 - 140	<5.0	ug/L	NC	30		
7322492	Methyl Isobutyl Ketone	2021/04/30	100	70 - 130	87	70 - 130	<5.0	ug/L	NC	30		
7322492	Methyl t-butyl ether (MTBE)	2021/04/30	90	70 - 130	88	70 - 130	<0.20	ug/L	NC	30		
7322492	Methylene Chloride(Dichloromethane)	2021/04/30	90	70 - 130	91	70 - 130	<0.50	ug/L	NC	30		
7322492	o-Xylene	2021/04/30	85	70 - 130	81	70 - 130	<0.10	ug/L	NC	30		
7322492	p+m-Xylene	2021/04/30	89	70 - 130	86	70 - 130	<0.10	ug/L	NC	30		
7322492	Styrene	2021/04/30	96	70 - 130	92	70 - 130	<0.20	ug/L	NC	30		
7322492	Tetrachloroethylene	2021/04/30	85	70 - 130	83	70 - 130	<0.10	ug/L	NC	30		
7322492	Toluene	2021/04/30	88	70 - 130	84	70 - 130	<0.20	ug/L	NC	30		
7322492	Total Trihalomethanes	2021/04/29					<0.20	ug/L				
7322492	Total Xylenes	2021/04/30					<0.10	ug/L	NC	30		
7322492	trans-1,2-Dichloroethylene	2021/04/30	89	70 - 130	88	70 - 130	<0.10	ug/L	NC	30		
7322492	trans-1,3-Dichloropropene	2021/04/30	88	70 - 130	86	70 - 130	<0.20	ug/L	NC	30		
7322492	Trichloroethylene	2021/04/30	97	70 - 130	92	70 - 130	<0.10	ug/L	NC	30		
7322492	Trichlorofluoromethane (FREON 11)	2021/04/30	82	70 - 130	85	70 - 130	<0.20	ug/L	NC	30		
7322492	Vinyl Chloride	2021/04/30	81	70 - 130	79	70 - 130	<0.20	ug/L	NC	30		
7322724	a-Chlordane	2021/04/28	87	50 - 130	90	50 - 130	<0.005	ug/L	NC	30		
7322724	Aldrin	2021/04/28	80	50 - 130	77	50 - 130	<0.005	ug/L	NC	30		
7322724	alpha-BHC	2021/04/28	84	30 - 130	89	30 - 130	<0.005	ug/L	NC	40		
7322724	Aroclor 1242	2021/04/28					<0.05	ug/L	NC	30		
7322724	Aroclor 1248	2021/04/28					<0.05	ug/L	NC	30		
7322724	Aroclor 1254	2021/04/28					<0.05	ug/L	NC	30		
7322724	Aroclor 1260	2021/04/28					<0.05	ug/L	NC	30		
7322724	beta-BHC	2021/04/28	79	30 - 130	82	30 - 130	<0.005	ug/L	NC	40		
7322724	Dieldrin	2021/04/28	103	50 - 130	109	50 - 130	<0.005	ug/L	NC	30		



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QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: GW
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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
7322724	Endosulfan I (alpha)	2021/04/28	79	50 - 130	82	50 - 130	<0.005	ug/L	NC	30		
7322724	Endosulfan II (beta)	2021/04/28	87	50 - 130	92	50 - 130	<0.005	ug/L	NC	30		
7322724	Endrin aldehyde	2021/04/28	92	30 - 130	101	30 - 130	<0.005	ug/L	NC	40		
7322724	Endrin ketone	2021/04/28	98	30 - 130	104	30 - 130	<0.005	ug/L	NC	40		
7322724	Endrin	2021/04/28	92	50 - 130	97	50 - 130	<0.005	ug/L	NC	30		
7322724	g-Chlordane	2021/04/28	89	50 - 130	92	50 - 130	<0.005	ug/L	NC	30		
7322724	Heptachlor epoxide	2021/04/28	86	50 - 130	92	50 - 130	<0.005	ug/L	NC	30		
7322724	Heptachlor	2021/04/28	86	50 - 130	85	50 - 130	<0.005	ug/L	NC	30		
7322724	Hexachlorobenzene	2021/04/28	83	50 - 130	83	50 - 130	<0.005	ug/L	NC	30		
7322724	Hexachlorobutadiene	2021/04/28	85	50 - 130	82	50 - 130	<0.009	ug/L	NC	30		
7322724	Hexachloroethane	2021/04/28	79	50 - 130	70	50 - 130	<0.01	ug/L	NC	30		
7322724	Lindane	2021/04/28	86	50 - 130	90	50 - 130	<0.003	ug/L	NC	30		
7322724	Methoxychlor	2021/04/28	104	50 - 130	111	50 - 130	<0.01	ug/L	NC	30		
7322724	Mirex	2021/04/28	99	30 - 130	91	30 - 130	<0.005	ug/L	NC	40		
7322724	o,p-DDD	2021/04/28	102	50 - 130	106	50 - 130	<0.005	ug/L	NC	30		
7322724	o,p-DDE	2021/04/28	88	50 - 130	90	50 - 130	<0.005	ug/L	NC	30		
7322724	o,p-DDT	2021/04/28	96	50 - 130	97	50 - 130	<0.005	ug/L	NC	30		
7322724	p,p-DDD	2021/04/28	103	50 - 130	107	50 - 130	<0.005	ug/L	NC	30		
7322724	p,p-DDE	2021/04/28	83	50 - 130	81	50 - 130	<0.005	ug/L	NC	30		
7322724	p,p-DDT	2021/04/28	95	50 - 130	100	50 - 130	<0.005	ug/L	NC	30		
7322724	Toxaphene	2021/04/28					<0.2	ug/L	NC	40		
7322750	Acrolein	2021/04/29	91	60 - 140	104	60 - 140	<10	ug/L	NC	30		
7322750	Acrylonitrile	2021/04/29	100	60 - 140	102	60 - 140	<5.0	ug/L	NC	30		
7322750	Methyl Butyl Ketone (2-Hexanone)	2021/04/29			94	60 - 140	<5.0	ug/L	NC	30		
7323441	Total Dissolved Solids	2021/04/30					<10	mg/L	0.31	25	97	90 - 110
7324167	Fluoride (F-)	2021/04/29	88	80 - 120	94	80 - 120	<0.10	mg/L	0.47	20		
7324183	pH	2021/04/29			102	98 - 103			0.37	N/A		
7324197	Alkalinity (Total as CaCO3)	2021/04/29			95	85 - 115	<1.0	mg/L	1.1	20		
7324198	Conductivity	2021/04/29			101	85 - 115	<1.0	umho/cm	0.28	25		
7324269	Nitrate (N)	2021/04/29	98	80 - 120	98	80 - 120	<0.10	mg/L	NC	20		



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QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
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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
7324269	Nitrite (N)	2021/04/29	105	80 - 120	104	80 - 120	<0.010	mg/L	NC	20		
7324272	Orthophosphate (P)	2021/04/29	108	75 - 125	101	80 - 120	<0.010	mg/L	5.2	25		
7324509	Total Dissolved Solids	2021/04/29					<10	mg/L	2.8	25	98	90 - 110
7324604	Dissolved Bromide (Br-)	2021/04/30	100	80 - 120	111	80 - 120	<1.0	mg/L	NC	20		
7324604	Dissolved Chloride (Cl-)	2021/04/30	NC	80 - 120	97	70 - 130	<1.0	mg/L	7.0	20		
7324604	Dissolved Sulphate (SO4)	2021/04/30	NC	80 - 120	100	80 - 120	<1.0	mg/L	0.0084	20		
7324802	Phenols-4AAP	2021/04/29	100	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20		
7324854	Phenols-4AAP	2021/04/29	99	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
7324868	Phenols-4AAP	2021/04/29	100	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20		
7324985	Dissolved Aluminum (Al)	2021/04/30	102	80 - 120	106	80 - 120	<4.9	ug/L	NC	20		
7324985	Dissolved Antimony (Sb)	2021/04/30	101	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7324985	Dissolved Arsenic (As)	2021/04/30	96	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7324985	Dissolved Barium (Ba)	2021/04/30	98	80 - 120	100	80 - 120	<2.0	ug/L	0.91	20		
7324985	Dissolved Beryllium (Be)	2021/04/30	94	80 - 120	94	80 - 120	<0.40	ug/L	NC	20		
7324985	Dissolved Bismuth (Bi)	2021/04/30	96	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7324985	Dissolved Boron (B)	2021/04/30	89	80 - 120	87	80 - 120	<10	ug/L	0.73	20		
7324985	Dissolved Cadmium (Cd)	2021/04/30	98	80 - 120	98	80 - 120	<0.090	ug/L	2.5	20		
7324985	Dissolved Calcium (Ca)	2021/04/30	NC	80 - 120	102	80 - 120	<200	ug/L	0.068	20		
7324985	Dissolved Chromium (Cr)	2021/04/30	94	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7324985	Dissolved Cobalt (Co)	2021/04/30	92	80 - 120	95	80 - 120	<0.50	ug/L	NC	20		
7324985	Dissolved Copper (Cu)	2021/04/30	97	80 - 120	101	80 - 120	<0.90	ug/L	4.7	20		
7324985	Dissolved Iron (Fe)	2021/04/30	96	80 - 120	99	80 - 120	<100	ug/L	NC	20		
7324985	Dissolved Lead (Pb)	2021/04/30	96	80 - 120	97	80 - 120	<0.50	ug/L	0.14	20		
7324985	Dissolved Lithium (Li)	2021/04/30	99	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
7324985	Dissolved Magnesium (Mg)	2021/04/30	NC	80 - 120	105	80 - 120	<50	ug/L	0.22	20		
7324985	Dissolved Manganese (Mn)	2021/04/30	95	80 - 120	98	80 - 120	<2.0	ug/L	4.9	20		
7324985	Dissolved Molybdenum (Mo)	2021/04/30	99	80 - 120	98	80 - 120	<0.50	ug/L	3.8	20		
7324985	Dissolved Nickel (Ni)	2021/04/30	90	80 - 120	95	80 - 120	<1.0	ug/L	0.28	20		
7324985	Dissolved Phosphorus (P)	2021/04/30	115	80 - 120	110	80 - 120	<100	ug/L	8.4	20		
7324985	Dissolved Potassium (K)	2021/04/30	104	80 - 120	107	80 - 120	<200	ug/L	0.58	20		
7324985	Dissolved Selenium (Se)	2021/04/30	91	80 - 120	94	80 - 120	<2.0	ug/L	NC	20		



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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
7324985	Dissolved Silicon (Si)	2021/04/30	100	80 - 120	106	80 - 120	<50	ug/L	0.24	20		
7324985	Dissolved Silver (Ag)	2021/04/30	91	80 - 120	95	80 - 120	<0.090	ug/L	NC	20		
7324985	Dissolved Sodium (Na)	2021/04/30	97	80 - 120	103	80 - 120	<100	ug/L	1.0	20		
7324985	Dissolved Strontium (Sr)	2021/04/30	NC	80 - 120	96	80 - 120	<1.0	ug/L	0.54	20		
7324985	Dissolved Tellurium (Te)	2021/04/30	98	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7324985	Dissolved Thallium (Tl)	2021/04/30	97	80 - 120	98	80 - 120	<0.050	ug/L	4.9	20		
7324985	Dissolved Tin (Sn)	2021/04/30	98	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7324985	Dissolved Titanium (Ti)	2021/04/30	92	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7324985	Dissolved Tungsten (W)	2021/04/30	96	80 - 120	96	80 - 120	<1.0	ug/L	NC	20		
7324985	Dissolved Uranium (U)	2021/04/30	94	80 - 120	95	80 - 120	<0.10	ug/L	0.13	20		
7324985	Dissolved Vanadium (V)	2021/04/30	95	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7324985	Dissolved Zinc (Zn)	2021/04/30	NC	80 - 120	95	80 - 120	<5.0	ug/L	0.79	20		
7324985	Dissolved Zirconium (Zr)	2021/04/30	104	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7325681	Nitrate (N)	2021/04/29	93	80 - 120	94	80 - 120	<0.10	mg/L	0.93	20		
7325681	Nitrite (N)	2021/04/29	104	80 - 120	103	80 - 120	<0.010	mg/L	NC	20		
7325866	Total Organic Carbon (TOC)	2021/04/29	96	80 - 120	97	80 - 120	<0.40	mg/L	1.4	20		
7325871	Total Kjeldahl Nitrogen (TKN)	2021/04/30	105	80 - 120	96	80 - 120	<0.10	mg/L	4.9	20	90	80 - 120
7325874	Total Ammonia-N	2021/04/30	95	75 - 125	99	80 - 120	<0.050	mg/L	1.1	20		
7326194	Total Organic Carbon (TOC)	2021/04/30	NC	80 - 120	96	80 - 120	<0.40	mg/L	0.25	20		
7326605	Total Kjeldahl Nitrogen (TKN)	2021/05/03	101	80 - 120	97	80 - 120	<0.10	mg/L	17	20	100	80 - 120
7330362	1,2,3,4-Tetrachlorobenzene	2021/05/04	62	30 - 130	52	30 - 130	<0.50	ug/L				
7330362	1,2,3,5-Tetrachlorobenzene	2021/05/04	68	30 - 130	54	30 - 130	<0.50	ug/L				
7330362	1,2,3-Trichlorobenzene	2021/05/04	70	30 - 130	59	30 - 130	<0.50	ug/L				
7330362	1,2,4,5-Tetrachlorobenzene	2021/05/04	67	30 - 130	54	30 - 130	<0.50	ug/L				
7330362	1,2,4-Trichlorobenzene	2021/05/04	68	30 - 130	55	30 - 130	<0.50	ug/L				
7330362	1,2-Dichlorobenzene	2021/05/04	65	30 - 130	54	30 - 130	<0.50	ug/L				
7330362	1,3,5-Trichlorobenzene	2021/05/04	65	30 - 130	54	30 - 130	<0.50	ug/L				
7330362	1,3-Dichlorobenzene	2021/05/04	58	30 - 130	48	30 - 130	<0.50	ug/L				
7330362	1,4-Dichlorobenzene	2021/05/04	63	30 - 130	52	30 - 130	<0.50	ug/L				
7330362	1-Chloronaphthalene	2021/05/04	65	30 - 130	55	30 - 130	<1.0	ug/L				
7330362	1-Methylnaphthalene	2021/05/04	92	30 - 130	79	30 - 130	<0.20	ug/L				



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7330362	2,3,4,5-Tetrachlorophenol	2021/05/04	90	10 - 130	86	10 - 130	<0.40	ug/L				
7330362	2,3,4,6-Tetrachlorophenol	2021/05/04	95	10 - 130	83	10 - 130	<0.50	ug/L				
7330362	2,3,4-Trichlorophenol	2021/05/04	82	10 - 130	78	10 - 130	<0.50	ug/L				
7330362	2,3,5,6-Tetrachlorophenol	2021/05/04	85	10 - 130	81	10 - 130	<0.50	ug/L				
7330362	2,3,5-Trichlorophenol	2021/05/04	89	10 - 130	80	10 - 130	<0.50	ug/L				
7330362	2,3,6-Trichlorophenol	2021/05/04	81	10 - 130	76	10 - 130	<0.50	ug/L				
7330362	2,3-Dichlorophenol	2021/05/04	80	10 - 130	72	10 - 130	<0.50	ug/L				
7330362	2,4,5-Trichlorophenol	2021/05/04	87	10 - 130	81	10 - 130	<0.50	ug/L				
7330362	2,4,6-Trichlorophenol	2021/05/04	80	10 - 130	75	10 - 130	<0.50	ug/L				
7330362	2,4-Dichlorophenol	2021/05/04	85	10 - 130	72	10 - 130	<0.30	ug/L				
7330362	2,4-Dimethylphenol	2021/05/04	25	10 - 130	40	10 - 130	<0.50	ug/L				
7330362	2,4-Dinitrophenol	2021/05/04	82	10 - 130	79	10 - 130	<2.0	ug/L				
7330362	2,4-Dinitrotoluene	2021/05/04	104	30 - 130	97	30 - 130	<0.50	ug/L				
7330362	2,5-Dichlorophenol	2021/05/04	76	10 - 130	74	10 - 130	<0.50	ug/L				
7330362	2,6-Dichlorophenol	2021/05/04	89	10 - 130	80	10 - 130	<0.50	ug/L				
7330362	2,6-Dinitrotoluene	2021/05/04	90	30 - 130	85	30 - 130	<0.50	ug/L				
7330362	2-Chloronaphthalene	2021/05/04	76	30 - 130	72	30 - 130	<0.50	ug/L				
7330362	2-Chlorophenol	2021/05/04	78	10 - 130	73	10 - 130	<0.30	ug/L				
7330362	2-Methylnaphthalene	2021/05/04	86	30 - 130	74	30 - 130	<0.20	ug/L				
7330362	2-Nitrophenol	2021/05/04	84	10 - 130	77	10 - 130	<0.50	ug/L				
7330362	3,3'-Dichlorobenzidine	2021/05/04	46	30 - 130	82	30 - 130	<0.50	ug/L				
7330362	3,4,5-Trichlorophenol	2021/05/04	96	10 - 130	93	10 - 130	<0.50	ug/L				
7330362	3,4-Dichlorophenol	2021/05/04	102	10 - 130	98	10 - 130	<0.50	ug/L				
7330362	3,5-Dichlorophenol	2021/05/04	118	10 - 130	107	10 - 130	<0.50	ug/L				
7330362	4,6-Dinitro-2-methylphenol	2021/05/04	113	10 - 130	112	10 - 130	<2.0	ug/L				
7330362	4-Bromophenyl phenyl ether	2021/05/04	85	30 - 130	76	30 - 130	<0.30	ug/L				
7330362	4-Chloro-3-Methylphenol	2021/05/04	93	10 - 130	87	10 - 130	<0.50	ug/L				
7330362	4-Chlorophenyl phenyl ether	2021/05/04	84	30 - 130	76	30 - 130	<0.50	ug/L				
7330362	4-Nitrophenol	2021/05/04	44	10 - 130	49	10 - 130	<1.4	ug/L				
7330362	5-Nitroacenaphthene	2021/05/04	105	30 - 130	100	30 - 130	<1.0	ug/L				
7330362	Acenaphthene	2021/05/04	93	30 - 130	84	30 - 130	<0.20	ug/L				



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7330362	Acenaphthylene	2021/05/04	89	30 - 130	79	30 - 130	<0.20	ug/L				
7330362	Anthracene	2021/05/04	97	30 - 130	89	30 - 130	<0.20	ug/L				
7330362	Benzo(a)anthracene	2021/05/04	104	30 - 130	99	30 - 130	<0.20	ug/L				
7330362	Benzo(a)pyrene	2021/05/04	97	30 - 130	94	30 - 130	<0.20	ug/L				
7330362	Benzo(b/j)fluoranthene	2021/05/04	101	30 - 130	98	30 - 130	<0.20	ug/L				
7330362	Benzo(g,h,i)perylene	2021/05/04	103	30 - 130	100	30 - 130	<0.20	ug/L				
7330362	Benzo(k)fluoranthene	2021/05/04	100	30 - 130	101	30 - 130	<0.20	ug/L				
7330362	Benzyl butyl phthalate	2021/05/04	105	30 - 130	101	30 - 130	<0.50	ug/L				
7330362	Biphenyl	2021/05/04	79	30 - 130	71	30 - 130	<0.50	ug/L				
7330362	Bis(2-chloroethoxy)methane	2021/05/04	70	30 - 130	65	30 - 130	<0.50	ug/L				
7330362	Bis(2-chloroethyl)ether	2021/05/04	75	30 - 130	69	30 - 130	<0.50	ug/L				
7330362	Bis(2-chloroisopropyl)ether	2021/05/04	74	30 - 130	68	30 - 130	<0.50	ug/L				
7330362	Bis(2-ethylhexyl)phthalate	2021/05/04	103	30 - 130	100	30 - 130	<2.0	ug/L	NC	40		
7330362	Chrysene	2021/05/04	111	30 - 130	107	30 - 130	<0.20	ug/L				
7330362	Dibenzo(a,h)anthracene	2021/05/04	104	30 - 130	103	30 - 130	<0.20	ug/L				
7330362	Diethyl phthalate	2021/05/04	93	30 - 130	90	30 - 130	<1.0	ug/L				
7330362	Dimethyl phthalate	2021/05/04	88	30 - 130	84	30 - 130	<1.0	ug/L				
7330362	Di-N-butyl phthalate	2021/05/04	103	30 - 130	100	30 - 130	<2.0	ug/L	NC	40		
7330362	di-n-octyl phthalate	2021/05/04	104	30 - 130	99	30 - 130	<0.80	ug/L				
7330362	Diphenyl Ether	2021/05/04	66	30 - 130	59	30 - 130	<0.30	ug/L				
7330362	Fluoranthene	2021/05/04	104	30 - 130	96	30 - 130	<0.20	ug/L				
7330362	Fluorene	2021/05/04	97	30 - 130	90	30 - 130	<0.20	ug/L				
7330362	Hexachlorobenzene	2021/05/04	87	30 - 130	82	30 - 130	<0.50	ug/L				
7330362	Hexachlorobutadiene	2021/05/04	55	30 - 130	46	30 - 130	<0.40	ug/L				
7330362	Hexachlorocyclopentadiene	2021/05/04	60	30 - 130	47	30 - 130	<2.0	ug/L				
7330362	Hexachloroethane	2021/05/04	55	30 - 130	47	30 - 130	<0.50	ug/L				
7330362	Indeno(1,2,3-cd)pyrene	2021/05/04	102	30 - 130	99	30 - 130	<0.20	ug/L				
7330362	Isophorone	2021/05/04	98	30 - 130	88	30 - 130	<0.50	ug/L				
7330362	m/p-Cresol	2021/05/04	61	10 - 130	64	10 - 130	<0.50	ug/L				
7330362	Naphthalene	2021/05/04	94	30 - 130	82	30 - 130	<0.20	ug/L				
7330362	Nitrobenzene	2021/05/04	80	30 - 130	72	30 - 130	<0.50	ug/L				



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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
7330362	Nitrosodiphenylamine/Diphenylamine	2021/05/04	102	30 - 130	101	30 - 130	<1.0	ug/L				
7330362	N-Nitroso-di-n-propylamine	2021/05/04	105	30 - 130	93	30 - 130	<0.50	ug/L				
7330362	o-Cresol	2021/05/04	56	10 - 130	65	10 - 130	<0.50	ug/L				
7330362	p-Chloroaniline	2021/05/04	73	30 - 130	77	30 - 130	<1.0	ug/L				
7330362	Pentachlorobenzene	2021/05/04	77	30 - 130	66	30 - 130	<0.50	ug/L				
7330362	Pentachlorophenol	2021/05/04	60	10 - 130	52	10 - 130	<1.0	ug/L				
7330362	Perylene	2021/05/04	103	30 - 130	99	30 - 130	<0.20	ug/L				
7330362	Phenanthrene	2021/05/04	99	30 - 130	93	30 - 130	<0.20	ug/L				
7330362	Phenol	2021/05/04	36	10 - 130	34	10 - 130	<0.50	ug/L				
7330362	Pyrene	2021/05/04	116	30 - 130	108	30 - 130	<0.20	ug/L				
7334831	Dissolved Aluminum (Al)	2021/05/05	101	80 - 120	99	80 - 120	<4.9	ug/L	5.8	20		
7334831	Dissolved Antimony (Sb)	2021/05/05	101	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7334831	Dissolved Arsenic (As)	2021/05/05	98	80 - 120	99	80 - 120	<1.0	ug/L	7.7	20		
7334831	Dissolved Barium (Ba)	2021/05/05	98	80 - 120	98	80 - 120	<2.0	ug/L	2.5	20		
7334831	Dissolved Beryllium (Be)	2021/05/05	99	80 - 120	100	80 - 120	<0.40	ug/L	NC	20		
7334831	Dissolved Bismuth (Bi)	2021/05/05	79 (3)	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7334831	Dissolved Boron (B)	2021/05/05	NC	80 - 120	98	80 - 120	<10	ug/L	1.3	20		
7334831	Dissolved Cadmium (Cd)	2021/05/05	94	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
7334831	Dissolved Calcium (Ca)	2021/05/05	103	80 - 120	101	80 - 120	<200	ug/L	0.84	20		
7334831	Dissolved Chromium (Cr)	2021/05/05	100	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7334831	Dissolved Cobalt (Co)	2021/05/05	98	80 - 120	97	80 - 120	<0.50	ug/L	NC	20		
7334831	Dissolved Copper (Cu)	2021/05/05	97	80 - 120	100	80 - 120	<0.90	ug/L	NC	20		
7334831	Dissolved Iron (Fe)	2021/05/05	97	80 - 120	97	80 - 120	<100	ug/L	NC	20		
7334831	Dissolved Lead (Pb)	2021/05/05	91	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
7334831	Dissolved Lithium (Li)	2021/05/05	100	80 - 120	98	80 - 120	<5.0	ug/L	1.3	20		
7334831	Dissolved Magnesium (Mg)	2021/05/05	98	80 - 120	95	80 - 120	<50	ug/L	0.89	20		
7334831	Dissolved Manganese (Mn)	2021/05/05	98	80 - 120	99	80 - 120	<2.0	ug/L	3.5	20		
7334831	Dissolved Molybdenum (Mo)	2021/05/05	107	80 - 120	101	80 - 120	<0.50	ug/L	5.6	20		
7334831	Dissolved Nickel (Ni)	2021/05/05	94	80 - 120	98	80 - 120	<1.0	ug/L	1.5	20		
7334831	Dissolved Phosphorus (P)	2021/05/05	106	80 - 120	108	80 - 120	<100	ug/L	NC	20		
7334831	Dissolved Potassium (K)	2021/05/05	NC	80 - 120	96	80 - 120	<200	ug/L	2.4	20		



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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
7334831	Dissolved Selenium (Se)	2021/05/05	87	80 - 120	100	80 - 120	<2.0	ug/L	11	20		
7334831	Dissolved Silicon (Si)	2021/05/05	106	80 - 120	101	80 - 120	<50	ug/L	1.8	20		
7334831	Dissolved Silver (Ag)	2021/05/05	77 (3)	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		
7334831	Dissolved Sodium (Na)	2021/05/05	NC	80 - 120	96	80 - 120	<100	ug/L	2.2	20		
7334831	Dissolved Strontium (Sr)	2021/05/05	NC	80 - 120	95	80 - 120	<1.0	ug/L	0.38	20		
7334831	Dissolved Tellurium (Te)	2021/05/05	77 (3)	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7334831	Dissolved Thallium (Tl)	2021/05/05	91	80 - 120	96	80 - 120	<0.050	ug/L	NC	20		
7334831	Dissolved Tin (Sn)	2021/05/05	102	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7334831	Dissolved Titanium (Ti)	2021/05/05	102	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7334831	Dissolved Tungsten (W)	2021/05/05	100	80 - 120	100	80 - 120	<1.0	ug/L	0.90	20		
7334831	Dissolved Uranium (U)	2021/05/05	101	80 - 120	100	80 - 120	<0.10	ug/L	NC	20		
7334831	Dissolved Vanadium (V)	2021/05/05	103	80 - 120	98	80 - 120	<0.50	ug/L	14	20		
7334831	Dissolved Zinc (Zn)	2021/05/05	91	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7334831	Dissolved Zirconium (Zr)	2021/05/05	108	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.

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) The recovery was above the upper control limit. This may represent a high bias in some results for this specific analyte. For results that were not detected (ND), this potential bias has no impact.

(2) The recovery was below the lower control limit. This may represent a low bias in some results for this specific analyte.

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



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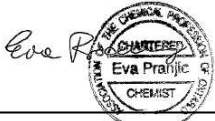
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VALIDATION SIGNATURE PAGE

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

27-Apr-21 15:45

Jolanta Goralczyk
C1B2190

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Only:	
Company Name: #16786 Terrapure Environmental		Company Name: Brad Mullin - GHD Reporting		Quotation #: B60569		Bottle Order #:	
Attention: Accounting		Attention: Brad Mullin - GHD Reporting		P.O. #:		819873	
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5		Address:		Project: GW		Project Manager:	
Tel: (905) 561-0305 Fax: (905) 561-1674		Tel: Fax:		Site Name: GW		Jolanta Goralczyk	
Email: kbailey@terrapureenv.com		Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		Site #: ENM 1191		COC #:	
				Sampled By:		C#619873-16-01	

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 X Hg / Cr VI	List "A" - GW Monitoring	List "B" - GW Monitoring	List "C" - GW Monitoring	List "D" - GW Monitoring	List "E" - GW Monitoring	List "F" - GW Monitoring	List "G" - GW Monitoring	List "H" - GW Monitoring	List "I" - GW Monitoring	List "J" - GW Monitoring	List "K" - GW Monitoring	List "L" - GW Monitoring	List "M" - GW Monitoring	List "N" - GW Monitoring	List "O" - GW Monitoring	List "P" - GW Monitoring	List "Q" - GW Monitoring	List "R" - GW Monitoring	List "S" - GW Monitoring	List "T" - GW Monitoring	List "U" - GW Monitoring	List "V" - GW Monitoring	List "W" - GW Monitoring	List "X" - GW Monitoring	List "Y" - GW Monitoring	List "Z" - GW Monitoring	Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests.	<input checked="" type="checkbox"/>
Include Criteria on Certificate of Analysis (Y/N)?																																			
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered	List "A"	List "B"	List "C"	List "D"	List "E"	List "F"	List "G"	List "H"	List "I"	List "J"	List "K"	List "L"	List "M"	List "N"	List "O"	List "P"	List "Q"	List "R"	List "S"	List "T"	List "U"	List "V"	List "W"	List "X"	List "Y"	List "Z"	# of Bottles	Comments		
	75-IV	21/04/27	AM	GW	Y	✓	✓																										13	Sampled today / low vol	
	L1	21/04/23	AM	GW	Y	✓																											6		
	M5R			GW	Y	✓																											6		
	CW5R			GW	Y	✓																											6		
	M4			GW	Y	✓																											6		
	CW3			GW	Y	✓																											6		
	CW16			GW	Y	✓																											6		
	61-II			GW	Y	✓																											6		
	12-II			GW	Y	✓																											6		
	52-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				
		21/04/27	AM			2021/04/27	15:45		Time Sensitive	Temperature (°C) on Receipt	Custody Seal Present	Yes	No
										Refer to 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.

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: 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>GW</u> Site #: _____ Sampled By: _____		Laboratory Use Only: BV Labs Job #: _____ Bottle Order #: 819873 COC #: C#819873-20-01 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

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"/> PIWCO <input type="checkbox"/> Reg 405 Table _____ <input type="checkbox"/> Other _____	Special Instructions _____
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Include Criteria on Certificate of Analysis (Y/N)? _____

Field Filtered (please circle):	Metals	Hg / Cr VI	Lead: A: GW Monitoring	Lead: B: GW Monitoring	Hexachlorocyclopentadiene (HCCD)	Hexachlorocyclopentadiene (HCCD)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)
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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	Metals	Hg / Cr VI	Lead: A: GW Monitoring	Lead: B: GW Monitoring	Hexachlorocyclopentadiene (HCCD)	Hexachlorocyclopentadiene (HCCD)	ANALYSIS REQUESTED	# of Bottles	Comments
1	52-III	2/10/23	AM	GW	Y	✓							6	
2	P10-V	2/10/26	AM	GW	Y	✓							6	
3														
4														
5														
6														
7														
8														
9														
10														

* RELINQUISHED BY: (Signature/Print) 	Date: (YY/MM/DD) 2/10/27 AM	Time AM	RECEIVED BY: (Signature/Print) Sec Page 1	Date: (YY/MM/DD) _____	Time _____	# Jars used and not submitted _____	Laboratory Use Only Time Sensitive: _____ Temperature (°C) on Receipt: _____	Custody Seal Present: _____ Intact: _____	Yes _____	No _____
-------------------------------------------------	---------------------------------------	-------------------	-----------------------------------------------------	----------------------------------	----------------------	-----------------------------------------------	-------------------------------------------------------------------------------------------	--------------------------------------------------------	---------------------	--------------------

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** 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
Your C.O.C. #: 819873-23-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/05/05
Report #: R6622072
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1B3328

Received: 2021/04/28, 15:30

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
ABN Compounds in Water by GC/MS	1	2021/05/03	2021/05/04	CAM SOP-00301	EPA 8270 m
OC Pesticides (Selected) & PCB (1)	1	2021/04/30	2021/05/01	CAM SOP-00307	EPA 8081A/8082B m
OC Pesticides Summed Parameters	1	N/A	2021/05/01	CAM SOP-00307	EPA 8081A/8082B m
Volatile Organic Compounds in Water	1	N/A	2021/04/30	CAM SOP-00226	EPA 8260C m
Non-Routine Volatile Organic Compounds	1	N/A	2021/04/29	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) Chlordane (Total) = Alpha Chlordane + Gamma Chlordane

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
05 May 2021 14:22:46

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 #: C1B3328
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

BV Labs ID		PKY829		
Sampling Date		2021/04/27		
COC Number		819873-23-01		
	UNITS	P10-V	RDL	QC Batch
Semivolatile Organics				
Acenaphthene	ug/L	<0.20	0.20	7330362
Acenaphthylene	ug/L	<0.20	0.20	7330362
Anthracene	ug/L	<0.20	0.20	7330362
Benzo(a)anthracene	ug/L	<0.20	0.20	7330362
Benzo(a)pyrene	ug/L	<0.20	0.20	7330362
Benzo(b/j)fluoranthene	ug/L	<0.20	0.20	7330362
Benzo(g,h,i)perylene	ug/L	<0.20	0.20	7330362
Benzo(k)fluoranthene	ug/L	<0.20	0.20	7330362
1-Chloronaphthalene	ug/L	<1.0	1.0	7330362
2-Chloronaphthalene	ug/L	<0.50	0.50	7330362
Chrysene	ug/L	<0.20	0.20	7330362
Dibenzo(a,h)anthracene	ug/L	<0.20	0.20	7330362
Fluoranthene	ug/L	<0.20	0.20	7330362
Fluorene	ug/L	<0.20	0.20	7330362
Indeno(1,2,3-cd)pyrene	ug/L	<0.20	0.20	7330362
1-Methylnaphthalene	ug/L	<0.20	0.20	7330362
2-Methylnaphthalene	ug/L	<0.20	0.20	7330362
Naphthalene	ug/L	<0.20	0.20	7330362
5-Nitroacenaphthene	ug/L	<1.0	1.0	7330362
Perylene	ug/L	<0.20	0.20	7330362
Phenanthrene	ug/L	<0.20	0.20	7330362
Pyrene	ug/L	<0.20	0.20	7330362
1,2-Dichlorobenzene	ug/L	<0.50	0.50	7330362
1,3-Dichlorobenzene	ug/L	<0.50	0.50	7330362
1,4-Dichlorobenzene	ug/L	<0.50	0.50	7330362
Hexachlorobenzene	ug/L	<0.50	0.50	7330362
Pentachlorobenzene	ug/L	<0.50	0.50	7330362
1,2,3,5-Tetrachlorobenzene	ug/L	<0.50	0.50	7330362
1,2,4,5-Tetrachlorobenzene	ug/L	<0.50	0.50	7330362
1,2,3-Trichlorobenzene	ug/L	<0.50	0.50	7330362
1,2,4-Trichlorobenzene	ug/L	<0.50	0.50	7330362
1,3,5-Trichlorobenzene	ug/L	<0.50	0.50	7330362
2-Chlorophenol	ug/L	<0.30	0.30	7330362
4-Chloro-3-Methylphenol	ug/L	<0.50	0.50	7330362
m/p-Cresol	ug/L	<0.50	0.50	7330362
o-Cresol	ug/L	<0.50	0.50	7330362
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1B3328
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

BV Labs ID		PKY829		
Sampling Date		2021/04/27		
COC Number		819873-23-01		
	UNITS	P10-V	RDL	QC Batch
1,2,3,4-Tetrachlorobenzene	ug/L	<0.50	0.50	7330362
2,3-Dichlorophenol	ug/L	<0.50	0.50	7330362
2,4-Dichlorophenol	ug/L	<0.30	0.30	7330362
2,5-Dichlorophenol	ug/L	<0.50	0.50	7330362
2,6-Dichlorophenol	ug/L	<0.50	0.50	7330362
3,4-Dichlorophenol	ug/L	<0.50	0.50	7330362
3,5-Dichlorophenol	ug/L	<0.50	0.50	7330362
2,4-Dimethylphenol	ug/L	<0.50	0.50	7330362
2,4-Dinitrophenol	ug/L	<2.0	2.0	7330362
4,6-Dinitro-2-methylphenol	ug/L	<2.0	2.0	7330362
2-Nitrophenol	ug/L	<0.50	0.50	7330362
4-Nitrophenol	ug/L	<1.4	1.4	7330362
Pentachlorophenol	ug/L	<1.0	1.0	7330362
Phenol	ug/L	<0.50	0.50	7330362
2,3,4,5-Tetrachlorophenol	ug/L	<0.40	0.40	7330362
2,3,4,6-Tetrachlorophenol	ug/L	<0.50	0.50	7330362
2,3,5,6-Tetrachlorophenol	ug/L	<0.50	0.50	7330362
2,3,4-Trichlorophenol	ug/L	<0.50	0.50	7330362
2,3,5-Trichlorophenol	ug/L	<0.50	0.50	7330362
2,3,6-Trichlorophenol	ug/L	<0.50	0.50	7330362
2,4,5-Trichlorophenol	ug/L	<0.50	0.50	7330362
2,4,6-Trichlorophenol	ug/L	<0.50	0.50	7330362
3,4,5-Trichlorophenol	ug/L	<0.50	0.50	7330362
Benzyl butyl phthalate	ug/L	<0.50	0.50	7330362
Biphenyl	ug/L	<0.50	0.50	7330362
Bis(2-chloroethyl)ether	ug/L	<0.50	0.50	7330362
Bis(2-chloroethoxy)methane	ug/L	<0.50	0.50	7330362
Bis(2-chloroisopropyl)ether	ug/L	<0.50	0.50	7330362
Bis(2-ethylhexyl)phthalate	ug/L	<2.0	2.0	7330362
4-Bromophenyl phenyl ether	ug/L	<0.30	0.30	7330362
p-Chloroaniline	ug/L	<1.0	1.0	7330362
4-Chlorophenyl phenyl ether	ug/L	<0.50	0.50	7330362
Di-N-butyl phthalate	ug/L	<2.0	2.0	7330362
di-n-octyl phthalate	ug/L	<0.80	0.80	7330362
2,4-Dinitrotoluene	ug/L	<0.50	0.50	7330362
Diethyl phthalate	ug/L	<1.0	1.0	7330362
3,3'-Dichlorobenzidine	ug/L	<0.50	0.50	7330362
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1B3328
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

BV Labs ID		PKY829		
Sampling Date		2021/04/27		
COC Number		819873-23-01		
	UNITS	P10-V	RDL	QC Batch
Dimethyl phthalate	ug/L	<1.0	1.0	7330362
2,6-Dinitrotoluene	ug/L	<0.50	0.50	7330362
Diphenyl Ether	ug/L	<0.30	0.30	7330362
Hexachlorobutadiene	ug/L	<0.40	0.40	7330362
Hexachlorocyclopentadiene	ug/L	<2.0	2.0	7330362
Hexachloroethane	ug/L	<0.50	0.50	7330362
Isophorone	ug/L	<0.50	0.50	7330362
Nitrobenzene	ug/L	<0.50	0.50	7330362
Nitrosodiphenylamine/Diphenylamine	ug/L	<1.0	1.0	7330362
N-Nitroso-di-n-propylamine	ug/L	<0.50	0.50	7330362
Surrogate Recovery (%)				
2,4,6-Tribromophenol	%	66		7330362
2-Fluorobiphenyl	%	71		7330362
2-Fluorophenol	%	34		7330362
D14-Terphenyl	%	91		7330362
D5-Nitrobenzene	%	88		7330362
D5-Phenol	%	26		7330362
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1B3328
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

VOLATILE ORGANICS BY GC/MS (WATER)

BV Labs ID		PKY829		
Sampling Date		2021/04/27		
COC Number		819873-23-01		
	UNITS	P10-V	RDL	QC Batch
Volatile Organics				
Acetone (2-Propanone)	ug/L	<10	10	7322492
Benzene	ug/L	<0.10	0.10	7322492
Bromodichloromethane	ug/L	<0.10	0.10	7322492
Acrolein	ug/L	<10	10	7322750
Bromoform	ug/L	<0.20	0.20	7322492
Bromomethane	ug/L	<0.50	0.50	7322492
Carbon Tetrachloride	ug/L	<0.10	0.10	7322492
Chlorobenzene	ug/L	<0.10	0.10	7322492
Chloroethane	ug/L	<0.20	0.20	7322492
Chloroform	ug/L	<0.10	0.10	7322492
Acrylonitrile	ug/L	<5.0	5.0	7322750
Chloromethane	ug/L	<0.50	0.50	7322492
Dibromochloromethane	ug/L	<0.20	0.20	7322492
1,2-Dichlorobenzene	ug/L	<0.20	0.20	7322492
1,3-Dichlorobenzene	ug/L	<0.20	0.20	7322492
1,4-Dichlorobenzene	ug/L	<0.20	0.20	7322492
1,1-Dichloroethane	ug/L	<0.10	0.10	7322492
1,2-Dichloroethane	ug/L	<0.20	0.20	7322492
1,1-Dichloroethylene	ug/L	<0.10	0.10	7322492
cis-1,2-Dichloroethylene	ug/L	<0.10	0.10	7322492
trans-1,2-Dichloroethylene	ug/L	<0.10	0.10	7322492
1,2-Dichloropropane	ug/L	<0.10	0.10	7322492
cis-1,3-Dichloropropene	ug/L	<0.20	0.20	7322492
trans-1,3-Dichloropropene	ug/L	<0.20	0.20	7322492
Ethylbenzene	ug/L	<0.10	0.10	7322492
Ethylene Dibromide	ug/L	<0.20	0.20	7322492
Methylene Chloride(Dichloromethane)	ug/L	<0.50	0.50	7322492
Methyl Ethyl Ketone (2-Butanone)	ug/L	<5.0	5.0	7322492
Methyl Isobutyl Ketone	ug/L	<5.0	5.0	7322492
Methyl t-butyl ether (MTBE)	ug/L	<0.20	0.20	7322492
Styrene	ug/L	<0.20	0.20	7322492
1,1,1,2-Tetrachloroethane	ug/L	<0.20	0.20	7322492
1,1,1,2-Tetrachloroethane	ug/L	<0.20	0.20	7322492
Tetrachloroethylene	ug/L	<0.10	0.10	7322492
Toluene	ug/L	<0.20	0.20	7322492
1,1,1-Trichloroethane	ug/L	<0.10	0.10	7322492
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1B3328
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

VOLATILE ORGANICS BY GC/MS (WATER)

BV Labs ID		PKY829		
Sampling Date		2021/04/27		
COC Number		819873-23-01		
	UNITS	P10-V	RDL	QC Batch
1,1,2-Trichloroethane	ug/L	<0.20	0.20	7322492
Trichloroethylene	ug/L	<0.10	0.10	7322492
Trichlorofluoromethane (FREON 11)	ug/L	<0.20	0.20	7322492
Vinyl Chloride	ug/L	<0.20	0.20	7322492
p+m-Xylene	ug/L	<0.10	0.10	7322492
Methyl Butyl Ketone (2-Hexanone)	ug/L	<5.0	5.0	7322750
o-Xylene	ug/L	<0.10	0.10	7322492
Total Xylenes	ug/L	<0.10	0.10	7322492
Total Trihalomethanes	ug/L	<0.20	0.20	7322492
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	103		7322492
D4-1,2-Dichloroethane	%	101		7322492
D8-Toluene	%	99		7322492
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1B3328
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

O.REG 153 OC PESTICIDES (WATER)

BV Labs ID		PKY829			PKY829		
Sampling Date		2021/04/27			2021/04/27		
COC Number		819873-23-01			819873-23-01		
	UNITS	P10-V	RDL	QC Batch	P10-V Lab-Dup	RDL	QC Batch
Calculated Parameters							
Chlordane (Total)	ug/L	<0.005	0.005	7323173			
o,p-DDD + p,p-DDD	ug/L	<0.005	0.005	7323173			
o,p-DDE + p,p-DDE	ug/L	<0.005	0.005	7323173			
o,p-DDT + p,p-DDT	ug/L	<0.005	0.005	7323173			
Total Endosulfan	ug/L	<0.005	0.005	7323173			
Total PCB	ug/L	<0.05	0.05	7323173			
Pesticides & Herbicides							
Aldrin	ug/L	<0.005	0.005	7329271	<0.005	0.005	7329271
Dieldrin	ug/L	<0.005	0.005	7329271	<0.005	0.005	7329271
a-Chlordane	ug/L	<0.005	0.005	7329271	<0.005	0.005	7329271
g-Chlordane	ug/L	<0.005	0.005	7329271	<0.005	0.005	7329271
o,p-DDD	ug/L	<0.005	0.005	7329271	<0.005	0.005	7329271
p,p-DDD	ug/L	<0.005	0.005	7329271	<0.005	0.005	7329271
o,p-DDE	ug/L	<0.005	0.005	7329271	<0.005	0.005	7329271
p,p-DDE	ug/L	<0.005	0.005	7329271	<0.005	0.005	7329271
o,p-DDT	ug/L	<0.005	0.005	7329271	<0.005	0.005	7329271
p,p-DDT	ug/L	<0.005	0.005	7329271	<0.005	0.005	7329271
Lindane	ug/L	<0.003	0.003	7329271	<0.003	0.003	7329271
Endosulfan I (alpha)	ug/L	<0.005	0.005	7329271	<0.005	0.005	7329271
Endosulfan II (beta)	ug/L	<0.005	0.005	7329271	<0.005	0.005	7329271
Endrin	ug/L	<0.005	0.005	7329271	<0.005	0.005	7329271
Heptachlor	ug/L	<0.005	0.005	7329271	<0.005	0.005	7329271
Heptachlor epoxide	ug/L	<0.005	0.005	7329271	<0.005	0.005	7329271
Hexachlorobenzene	ug/L	<0.005	0.005	7329271	<0.005	0.005	7329271
Hexachlorobutadiene	ug/L	<0.009	0.009	7329271	<0.009	0.009	7329271
Hexachloroethane	ug/L	<0.01	0.01	7329271	<0.01	0.01	7329271
Methoxychlor	ug/L	<0.01	0.01	7329271	<0.01	0.01	7329271
Aroclor 1242	ug/L	<0.05	0.05	7329271	<0.05	0.05	7329271
Aroclor 1248	ug/L	<0.05	0.05	7329271	<0.05	0.05	7329271
Aroclor 1254	ug/L	<0.05	0.05	7329271	<0.05	0.05	7329271
Aroclor 1260	ug/L	<0.05	0.05	7329271	<0.05	0.05	7329271
alpha-BHC	ug/L	<0.005	0.005	7329271	<0.005	0.005	7329271
beta-BHC	ug/L	<0.005	0.005	7329271	<0.005	0.005	7329271
Endrin aldehyde	ug/L	<0.005	0.005	7329271	<0.005	0.005	7329271
Endrin ketone	ug/L	<0.005	0.005	7329271	<0.005	0.005	7329271
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

BV Labs Job #: C1B3328
Report Date: 2021/05/05

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

O.REG 153 OC PESTICIDES (WATER)

BV Labs ID		PKY829			PKY829		
Sampling Date		2021/04/27			2021/04/27		
COC Number		819873-23-01			819873-23-01		
	UNITS	P10-V	RDL	QC Batch	P10-V Lab-Dup	RDL	QC Batch
Mirex	ug/L	<0.005	0.005	7329271	<0.005	0.005	7329271
Toxaphene	ug/L	<0.2	0.2	7329271	<0.2	0.2	7329271
Surrogate Recovery (%)							
2,4,5,6-Tetrachloro-m-xylene	%	63		7329271	58		7329271
Decachlorobiphenyl	%	94		7329271	90		7329271
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



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BV Labs Job #: C1B3328
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Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: PKY829
Sample ID: P10-V
Matrix: Water

Collected: 2021/04/27
Shipped:
Received: 2021/04/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7330362	2021/05/03	2021/05/04	Anh Lieu
OC Pesticides (Selected) & PCB	GC/ECD	7329271	2021/04/30	2021/05/01	Li Peng
OC Pesticides Summed Parameters	CALC	7323173	N/A	2021/05/01	Automated Statchk
Volatile Organic Compounds in Water	P&T/MS	7322492	N/A	2021/04/30	Dina Wang
Non-Routine Volatile Organic Compounds	P&T/MS	7322750	N/A	2021/04/29	Dina Wang

BV Labs ID: PKY829 Dup
Sample ID: P10-V
Matrix: Water

Collected: 2021/04/27
Shipped:
Received: 2021/04/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
OC Pesticides (Selected) & PCB	GC/ECD	7329271	2021/04/30	2021/05/01	Li Peng



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Terrapure Environmental
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Sampler Initials: BM

GENERAL COMMENTS

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

Package 1	2.3°C
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Results relate only to the items tested.



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BV Labs Job #: C1B3328

Report Date: 2021/05/05

QUALITY ASSURANCE REPORT

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7322492	4-Bromofluorobenzene	2021/04/29	106	70 - 130	104	70 - 130	94	%		
7322492	D4-1,2-Dichloroethane	2021/04/29	98	70 - 130	98	70 - 130	101	%		
7322492	D8-Toluene	2021/04/29	98	70 - 130	97	70 - 130	76	%		
7329271	2,4,5,6-Tetrachloro-m-xylene	2021/05/01	68	50 - 130	72	50 - 130	60	%		
7329271	Decachlorobiphenyl	2021/05/01	99	50 - 130	117	50 - 130	96	%		
7330362	2,4,6-Tribromophenol	2021/05/04	85	10 - 130	80	10 - 130	71	%		
7330362	2-Fluorobiphenyl	2021/05/04	71	30 - 130	62	30 - 130	76	%		
7330362	2-Fluorophenol	2021/05/04	49	10 - 130	45	10 - 130	44	%		
7330362	D14-Terphenyl	2021/05/04	103	30 - 130	97	30 - 130	92	%		
7330362	D5-Nitrobenzene	2021/05/04	89	30 - 130	79	30 - 130	92	%		
7330362	D5-Phenol	2021/05/04	33	10 - 130	33	10 - 130	32	%		
7322492	1,1,1,2-Tetrachloroethane	2021/04/30	89	70 - 130	86	70 - 130	<0.20	ug/L	NC	30
7322492	1,1,1-Trichloroethane	2021/04/30	92	70 - 130	89	70 - 130	<0.10	ug/L	NC	30
7322492	1,1,2,2-Tetrachloroethane	2021/04/30	91	70 - 130	86	70 - 130	<0.20	ug/L	NC	30
7322492	1,1,2-Trichloroethane	2021/04/30	93	70 - 130	89	70 - 130	<0.20	ug/L	NC	30
7322492	1,1-Dichloroethane	2021/04/30	83	70 - 130	82	70 - 130	<0.10	ug/L	NC	30
7322492	1,1-Dichloroethylene	2021/04/30	86	70 - 130	84	70 - 130	<0.10	ug/L	NC	30
7322492	1,2-Dichlorobenzene	2021/04/30	91	70 - 130	88	70 - 130	<0.20	ug/L	NC	30
7322492	1,2-Dichloroethane	2021/04/30	86	70 - 130	84	70 - 130	<0.20	ug/L	NC	30
7322492	1,2-Dichloropropane	2021/04/30	87	70 - 130	85	70 - 130	<0.10	ug/L	NC	30
7322492	1,3-Dichlorobenzene	2021/04/30	90	70 - 130	87	70 - 130	<0.20	ug/L	NC	30
7322492	1,4-Dichlorobenzene	2021/04/30	103	70 - 130	100	70 - 130	<0.20	ug/L	NC	30
7322492	Acetone (2-Propanone)	2021/04/30	94	60 - 140	91	60 - 140	<10	ug/L	NC	30
7322492	Benzene	2021/04/30	86	70 - 130	84	70 - 130	<0.10	ug/L	NC	30
7322492	Bromodichloromethane	2021/04/30	93	70 - 130	90	70 - 130	<0.10	ug/L	NC	30
7322492	Bromoform	2021/04/30	96	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
7322492	Bromomethane	2021/04/30	71	60 - 140	68	60 - 140	<0.50	ug/L	NC	30
7322492	Carbon Tetrachloride	2021/04/30	90	70 - 130	86	70 - 130	<0.10	ug/L	NC	30
7322492	Chlorobenzene	2021/04/30	91	70 - 130	88	70 - 130	<0.10	ug/L	NC	30
7322492	Chloroethane	2021/04/30	131 (1)	70 - 130	84	70 - 130	<0.20	ug/L	NC	30
7322492	Chloroform	2021/04/30	89	70 - 130	87	70 - 130	<0.10	ug/L	NC	30



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QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7322492	Chloromethane	2021/04/30	48 (2)	60 - 140	54 (2)	60 - 140	<0.50	ug/L	NC	30
7322492	cis-1,2-Dichloroethylene	2021/04/30	90	70 - 130	89	70 - 130	<0.10	ug/L	NC	30
7322492	cis-1,3-Dichloropropene	2021/04/30	87	70 - 130	86	70 - 130	<0.20	ug/L	NC	30
7322492	Dibromochloromethane	2021/04/30	91	70 - 130	87	70 - 130	<0.20	ug/L	NC	30
7322492	Ethylbenzene	2021/04/30	82	70 - 130	78	70 - 130	<0.10	ug/L	NC	30
7322492	Ethylene Dibromide	2021/04/30	91	70 - 130	88	70 - 130	<0.20	ug/L	NC	30
7322492	Methyl Ethyl Ketone (2-Butanone)	2021/04/30	92	60 - 140	88	60 - 140	<5.0	ug/L	NC	30
7322492	Methyl Isobutyl Ketone	2021/04/30	100	70 - 130	87	70 - 130	<5.0	ug/L	NC	30
7322492	Methyl t-butyl ether (MTBE)	2021/04/30	90	70 - 130	88	70 - 130	<0.20	ug/L	NC	30
7322492	Methylene Chloride(Dichloromethane)	2021/04/30	90	70 - 130	91	70 - 130	<0.50	ug/L	NC	30
7322492	o-Xylene	2021/04/30	85	70 - 130	81	70 - 130	<0.10	ug/L	NC	30
7322492	p+m-Xylene	2021/04/30	89	70 - 130	86	70 - 130	<0.10	ug/L	NC	30
7322492	Styrene	2021/04/30	96	70 - 130	92	70 - 130	<0.20	ug/L	NC	30
7322492	Tetrachloroethylene	2021/04/30	85	70 - 130	83	70 - 130	<0.10	ug/L	NC	30
7322492	Toluene	2021/04/30	88	70 - 130	84	70 - 130	<0.20	ug/L	NC	30
7322492	Total Trihalomethanes	2021/04/29					<0.20	ug/L		
7322492	Total Xylenes	2021/04/30					<0.10	ug/L	NC	30
7322492	trans-1,2-Dichloroethylene	2021/04/30	89	70 - 130	88	70 - 130	<0.10	ug/L	NC	30
7322492	trans-1,3-Dichloropropene	2021/04/30	88	70 - 130	86	70 - 130	<0.20	ug/L	NC	30
7322492	Trichloroethylene	2021/04/30	97	70 - 130	92	70 - 130	<0.10	ug/L	NC	30
7322492	Trichlorofluoromethane (FREON 11)	2021/04/30	82	70 - 130	85	70 - 130	<0.20	ug/L	NC	30
7322492	Vinyl Chloride	2021/04/30	81	70 - 130	79	70 - 130	<0.20	ug/L	NC	30
7322750	Acrolein	2021/04/29	91	60 - 140	104	60 - 140	<10	ug/L	NC	30
7322750	Acrylonitrile	2021/04/29	100	60 - 140	102	60 - 140	<5.0	ug/L	NC	30
7322750	Methyl Butyl Ketone (2-Hexanone)	2021/04/29			94	60 - 140	<5.0	ug/L	NC	30
7329271	a-Chlordane	2021/05/01	84	50 - 130	102	50 - 130	<0.005	ug/L	NC	30
7329271	Aldrin	2021/05/01	79	50 - 130	82	50 - 130	<0.005	ug/L	NC	30
7329271	alpha-BHC	2021/05/01	83	30 - 130	94	30 - 130	<0.005	ug/L	NC	40
7329271	Aroclor 1242	2021/05/01					<0.05	ug/L	NC	30
7329271	Aroclor 1248	2021/05/01					<0.05	ug/L	NC	30
7329271	Aroclor 1254	2021/05/01					<0.05	ug/L	NC	30



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QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7329271	Aroclor 1260	2021/05/01					<0.05	ug/L	NC	30
7329271	beta-BHC	2021/05/01	76	30 - 130	88	30 - 130	<0.005	ug/L	NC	40
7329271	Dieldrin	2021/05/01	98	50 - 130	114	50 - 130	<0.005	ug/L	NC	30
7329271	Endosulfan I (alpha)	2021/05/01	77	50 - 130	90	50 - 130	<0.005	ug/L	NC	30
7329271	Endosulfan II (beta)	2021/05/01	82	50 - 130	96	50 - 130	<0.005	ug/L	NC	30
7329271	Endrin aldehyde	2021/05/01	89	30 - 130	102	30 - 130	<0.005	ug/L	NC	40
7329271	Endrin ketone	2021/05/01	92	30 - 130	110	30 - 130	<0.005	ug/L	NC	40
7329271	Endrin	2021/05/01	93	50 - 130	106	50 - 130	<0.005	ug/L	NC	30
7329271	g-Chlordane	2021/05/01	86	50 - 130	97	50 - 130	<0.005	ug/L	NC	30
7329271	Heptachlor epoxide	2021/05/01	95	50 - 130	118	50 - 130	<0.005	ug/L	NC	30
7329271	Heptachlor	2021/05/01	81	50 - 130	87	50 - 130	<0.005	ug/L	NC	30
7329271	Hexachlorobenzene	2021/05/01	85	50 - 130	91	50 - 130	<0.005	ug/L	NC	30
7329271	Hexachlorobutadiene	2021/05/01	87	50 - 130	87	50 - 130	<0.009	ug/L	NC	30
7329271	Hexachloroethane	2021/05/01	78	50 - 130	80	50 - 130	<0.01	ug/L	NC	30
7329271	Lindane	2021/05/01	79	50 - 130	90	50 - 130	<0.003	ug/L	NC	30
7329271	Methoxychlor	2021/05/01	98	50 - 130	120	50 - 130	<0.01	ug/L	NC	30
7329271	Mirex	2021/05/01	81	30 - 130	96	30 - 130	<0.005	ug/L	NC	40
7329271	o,p-DDD	2021/05/01	93	50 - 130	109	50 - 130	<0.005	ug/L	NC	30
7329271	o,p-DDE	2021/05/01	91	50 - 130	105	50 - 130	<0.005	ug/L	NC	30
7329271	o,p-DDT	2021/05/01	91	50 - 130	103	50 - 130	<0.005	ug/L	NC	30
7329271	p,p-DDD	2021/05/01	90	50 - 130	106	50 - 130	<0.005	ug/L	NC	30
7329271	p,p-DDE	2021/05/01	88	50 - 130	98	50 - 130	<0.005	ug/L	NC	30
7329271	p,p-DDT	2021/05/01	93	50 - 130	104	50 - 130	<0.005	ug/L	NC	30
7329271	Toxaphene	2021/05/01					<0.2	ug/L	NC	40
7330362	1,2,3,4-Tetrachlorobenzene	2021/05/04	62	30 - 130	52	30 - 130	<0.50	ug/L		
7330362	1,2,3,5-Tetrachlorobenzene	2021/05/04	68	30 - 130	54	30 - 130	<0.50	ug/L		
7330362	1,2,3-Trichlorobenzene	2021/05/04	70	30 - 130	59	30 - 130	<0.50	ug/L		
7330362	1,2,4,5-Tetrachlorobenzene	2021/05/04	67	30 - 130	54	30 - 130	<0.50	ug/L		
7330362	1,2,4-Trichlorobenzene	2021/05/04	68	30 - 130	55	30 - 130	<0.50	ug/L		
7330362	1,2-Dichlorobenzene	2021/05/04	65	30 - 130	54	30 - 130	<0.50	ug/L		
7330362	1,3,5-Trichlorobenzene	2021/05/04	65	30 - 130	54	30 - 130	<0.50	ug/L		



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QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7330362	1,3-Dichlorobenzene	2021/05/04	58	30 - 130	48	30 - 130	<0.50	ug/L		
7330362	1,4-Dichlorobenzene	2021/05/04	63	30 - 130	52	30 - 130	<0.50	ug/L		
7330362	1-Chloronaphthalene	2021/05/04	65	30 - 130	55	30 - 130	<1.0	ug/L		
7330362	1-Methylnaphthalene	2021/05/04	92	30 - 130	79	30 - 130	<0.20	ug/L		
7330362	2,3,4,5-Tetrachlorophenol	2021/05/04	90	10 - 130	86	10 - 130	<0.40	ug/L		
7330362	2,3,4,6-Tetrachlorophenol	2021/05/04	95	10 - 130	83	10 - 130	<0.50	ug/L		
7330362	2,3,4-Trichlorophenol	2021/05/04	82	10 - 130	78	10 - 130	<0.50	ug/L		
7330362	2,3,5,6-Tetrachlorophenol	2021/05/04	85	10 - 130	81	10 - 130	<0.50	ug/L		
7330362	2,3,5-Trichlorophenol	2021/05/04	89	10 - 130	80	10 - 130	<0.50	ug/L		
7330362	2,3,6-Trichlorophenol	2021/05/04	81	10 - 130	76	10 - 130	<0.50	ug/L		
7330362	2,3-Dichlorophenol	2021/05/04	80	10 - 130	72	10 - 130	<0.50	ug/L		
7330362	2,4,5-Trichlorophenol	2021/05/04	87	10 - 130	81	10 - 130	<0.50	ug/L		
7330362	2,4,6-Trichlorophenol	2021/05/04	80	10 - 130	75	10 - 130	<0.50	ug/L		
7330362	2,4-Dichlorophenol	2021/05/04	85	10 - 130	72	10 - 130	<0.30	ug/L		
7330362	2,4-Dimethylphenol	2021/05/04	25	10 - 130	40	10 - 130	<0.50	ug/L		
7330362	2,4-Dinitrophenol	2021/05/04	82	10 - 130	79	10 - 130	<2.0	ug/L		
7330362	2,4-Dinitrotoluene	2021/05/04	104	30 - 130	97	30 - 130	<0.50	ug/L		
7330362	2,5-Dichlorophenol	2021/05/04	76	10 - 130	74	10 - 130	<0.50	ug/L		
7330362	2,6-Dichlorophenol	2021/05/04	89	10 - 130	80	10 - 130	<0.50	ug/L		
7330362	2,6-Dinitrotoluene	2021/05/04	90	30 - 130	85	30 - 130	<0.50	ug/L		
7330362	2-Chloronaphthalene	2021/05/04	76	30 - 130	72	30 - 130	<0.50	ug/L		
7330362	2-Chlorophenol	2021/05/04	78	10 - 130	73	10 - 130	<0.30	ug/L		
7330362	2-Methylnaphthalene	2021/05/04	86	30 - 130	74	30 - 130	<0.20	ug/L		
7330362	2-Nitrophenol	2021/05/04	84	10 - 130	77	10 - 130	<0.50	ug/L		
7330362	3,3'-Dichlorobenzidine	2021/05/04	46	30 - 130	82	30 - 130	<0.50	ug/L		
7330362	3,4,5-Trichlorophenol	2021/05/04	96	10 - 130	93	10 - 130	<0.50	ug/L		
7330362	3,4-Dichlorophenol	2021/05/04	102	10 - 130	98	10 - 130	<0.50	ug/L		
7330362	3,5-Dichlorophenol	2021/05/04	118	10 - 130	107	10 - 130	<0.50	ug/L		
7330362	4,6-Dinitro-2-methylphenol	2021/05/04	113	10 - 130	112	10 - 130	<2.0	ug/L		
7330362	4-Bromophenyl phenyl ether	2021/05/04	85	30 - 130	76	30 - 130	<0.30	ug/L		
7330362	4-Chloro-3-Methylphenol	2021/05/04	93	10 - 130	87	10 - 130	<0.50	ug/L		



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QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7330362	4-Chlorophenyl phenyl ether	2021/05/04	84	30 - 130	76	30 - 130	<0.50	ug/L		
7330362	4-Nitrophenol	2021/05/04	44	10 - 130	49	10 - 130	<1.4	ug/L		
7330362	5-Nitroacenaphthene	2021/05/04	105	30 - 130	100	30 - 130	<1.0	ug/L		
7330362	Acenaphthene	2021/05/04	93	30 - 130	84	30 - 130	<0.20	ug/L		
7330362	Acenaphthylene	2021/05/04	89	30 - 130	79	30 - 130	<0.20	ug/L		
7330362	Anthracene	2021/05/04	97	30 - 130	89	30 - 130	<0.20	ug/L		
7330362	Benzo(a)anthracene	2021/05/04	104	30 - 130	99	30 - 130	<0.20	ug/L		
7330362	Benzo(a)pyrene	2021/05/04	97	30 - 130	94	30 - 130	<0.20	ug/L		
7330362	Benzo(b/j)fluoranthene	2021/05/04	101	30 - 130	98	30 - 130	<0.20	ug/L		
7330362	Benzo(g,h,i)perylene	2021/05/04	103	30 - 130	100	30 - 130	<0.20	ug/L		
7330362	Benzo(k)fluoranthene	2021/05/04	100	30 - 130	101	30 - 130	<0.20	ug/L		
7330362	Benzyl butyl phthalate	2021/05/04	105	30 - 130	101	30 - 130	<0.50	ug/L		
7330362	Biphenyl	2021/05/04	79	30 - 130	71	30 - 130	<0.50	ug/L		
7330362	Bis(2-chloroethoxy)methane	2021/05/04	70	30 - 130	65	30 - 130	<0.50	ug/L		
7330362	Bis(2-chloroethyl)ether	2021/05/04	75	30 - 130	69	30 - 130	<0.50	ug/L		
7330362	Bis(2-chloroisopropyl)ether	2021/05/04	74	30 - 130	68	30 - 130	<0.50	ug/L		
7330362	Bis(2-ethylhexyl)phthalate	2021/05/04	103	30 - 130	100	30 - 130	<2.0	ug/L	NC	40
7330362	Chrysene	2021/05/04	111	30 - 130	107	30 - 130	<0.20	ug/L		
7330362	Dibenzo(a,h)anthracene	2021/05/04	104	30 - 130	103	30 - 130	<0.20	ug/L		
7330362	Diethyl phthalate	2021/05/04	93	30 - 130	90	30 - 130	<1.0	ug/L		
7330362	Dimethyl phthalate	2021/05/04	88	30 - 130	84	30 - 130	<1.0	ug/L		
7330362	Di-N-butyl phthalate	2021/05/04	103	30 - 130	100	30 - 130	<2.0	ug/L	NC	40
7330362	di-n-octyl phthalate	2021/05/04	104	30 - 130	99	30 - 130	<0.80	ug/L		
7330362	Diphenyl Ether	2021/05/04	66	30 - 130	59	30 - 130	<0.30	ug/L		
7330362	Fluoranthene	2021/05/04	104	30 - 130	96	30 - 130	<0.20	ug/L		
7330362	Fluorene	2021/05/04	97	30 - 130	90	30 - 130	<0.20	ug/L		
7330362	Hexachlorobenzene	2021/05/04	87	30 - 130	82	30 - 130	<0.50	ug/L		
7330362	Hexachlorobutadiene	2021/05/04	55	30 - 130	46	30 - 130	<0.40	ug/L		
7330362	Hexachlorocyclopentadiene	2021/05/04	60	30 - 130	47	30 - 130	<2.0	ug/L		
7330362	Hexachloroethane	2021/05/04	55	30 - 130	47	30 - 130	<0.50	ug/L		
7330362	Indeno(1,2,3-cd)pyrene	2021/05/04	102	30 - 130	99	30 - 130	<0.20	ug/L		



BUREAU
VERITAS

BV Labs Job #: C1B3328

Report Date: 2021/05/05

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental

Client Project #: GW

Sampler Initials: BM

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
7330362	Isophorone	2021/05/04	98	30 - 130	88	30 - 130	<0.50	ug/L		
7330362	m/p-Cresol	2021/05/04	61	10 - 130	64	10 - 130	<0.50	ug/L		
7330362	Naphthalene	2021/05/04	94	30 - 130	82	30 - 130	<0.20	ug/L		
7330362	Nitrobenzene	2021/05/04	80	30 - 130	72	30 - 130	<0.50	ug/L		
7330362	Nitrosodiphenylamine/Diphenylamine	2021/05/04	102	30 - 130	101	30 - 130	<1.0	ug/L		
7330362	N-Nitroso-di-n-propylamine	2021/05/04	105	30 - 130	93	30 - 130	<0.50	ug/L		
7330362	o-Cresol	2021/05/04	56	10 - 130	65	10 - 130	<0.50	ug/L		
7330362	p-Chloroaniline	2021/05/04	73	30 - 130	77	30 - 130	<1.0	ug/L		
7330362	Pentachlorobenzene	2021/05/04	77	30 - 130	66	30 - 130	<0.50	ug/L		
7330362	Pentachlorophenol	2021/05/04	60	10 - 130	52	10 - 130	<1.0	ug/L		
7330362	Perylene	2021/05/04	103	30 - 130	99	30 - 130	<0.20	ug/L		
7330362	Phenanthrene	2021/05/04	99	30 - 130	93	30 - 130	<0.20	ug/L		
7330362	Phenol	2021/05/04	36	10 - 130	34	10 - 130	<0.50	ug/L		
7330362	Pyrene	2021/05/04	116	30 - 130	108	30 - 130	<0.20	ug/L		

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.

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 (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) The recovery was above the upper control limit. This may represent a high bias in some results for this specific analyte. For results that were not detected (ND), this potential bias has no impact.

(2) The recovery was below the lower control limit. This may represent a low bias in some results for this specific analyte.



BUREAU
VERITAS

BV Labs Job #: C1B3328
Report Date: 2021/05/05

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).

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.



Bureau Veritas Laboratories
6740 Campbell 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: Brad Mullin GHD Reporting		Quotation #: B60569		BV Labs Job #:	
Attention: Accounting		Attention: Brad Mullin		P.O. #:		Bottle Order #:	
Address: 65 Green Mountain Rd West		Address:		Project: GW		819873	
Stoney Creek ON L8J 1X5				Project Name: Gw		COC #:	
Tel: (905) 561-0305 Fax: (905) 561-1674		Tel: Fax:		Site #:		Project Manager:	
Email: kbailey@terrapureenv.com		Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		Sampled By:		Jolanta Goralczyk	

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

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr / VI	List "B" GW Monitoring	Biodegradable Organic Carbon (BDOC)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)					# of Bottles	Comments	
1	P10-V	21/04/27	Am	GW	N/A	✓								8	
2															
3															
4															
5															
6															
7															
8															
9															
10															

28-Apr-21 15:30
Jolanta Goralczyk
C1B3328
TUD ENV 012

* 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			
		21/04/28	Am	TRUSHNA PATEL		20210428	15:30		Time Sensitive	Temperature (°C) on Recept	Custody Seal Present	Yes No
										04/3	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

BV#372268



Your Project #: SW
Your C.O.C. #: 820175-01-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/05/10
Report #: R6628266
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1B7866

Received: 2021/05/03, 15:44

Sample Matrix: Water
Samples Received: 12

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Dissolved Aluminum (0.2 u, clay free)	12	N/A	2021/05/06	CAM SOP-00447	EPA 6020B m
Alkalinity	9	N/A	2021/05/04	CAM SOP-00448	SM 23 2320 B m
Alkalinity	3	N/A	2021/05/05	CAM SOP-00448	SM 23 2320 B m
Biochemical Oxygen Demand (BOD)	12	2021/05/04	2021/05/09	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry	12	N/A	2021/05/05	CAM SOP-00463	SM 23 4500-Cl E m
Dissolved Organic Carbon (DOC) (1)	10	N/A	2021/05/05	CAM SOP-00446	SM 23 5310 B m
Dissolved Organic Carbon (DOC) (1)	2	N/A	2021/05/06	CAM SOP-00446	SM 23 5310 B m
Hardness (calculated as CaCO3)	12	N/A	2021/05/07	CAM SOP 00102/00408/00447	SM 2340 B
Mercury in Water by CVAA	5	2021/05/05	2021/05/05	CAM SOP-00453	EPA 7470A m
Mercury in Water by CVAA	7	2021/05/06	2021/05/06	CAM SOP-00453	EPA 7470A m
Total Metals Analysis by ICPMS	11	N/A	2021/05/06	CAM SOP-00447	EPA 6020B m
Total Metals Analysis by ICPMS	1	N/A	2021/05/07	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	12	N/A	2021/05/06	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (2)	12	N/A	2021/05/05	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	9	2021/05/04	2021/05/04	CAM SOP-00413	SM 4500H+ B m
pH	3	2021/05/04	2021/05/05	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	12	N/A	2021/05/05	CAM SOP-00444	OMOE E3179 m
Sulphate by Automated Colourimetry	12	N/A	2021/05/05	CAM SOP-00464	EPA 375.4 m
Total Kjeldahl Nitrogen in Water	1	2021/05/06	2021/05/06	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (3)	1	N/A	2021/05/06	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric)	12	2021/05/05	2021/05/06	CAM SOP-00407	SM 23 4500 P B H m
Total Suspended Solids	12	2021/05/05	2021/05/06	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.
- (3) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



Your Project #: SW
Your C.O.C. #: 820175-01-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/05/10
Report #: R6628266
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1B7866

Received: 2021/05/03, 15:44

Encryption Key

Hongmei Zhao (Grace)
Project Manager
10 May 2021 15:38:19

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

=====
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.



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BV Labs Job #: C1B7866
Report Date: 2021/05/10

Terrapure Environmental
Client Project #: SW
Sampler Initials: DM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PLX672				PLX672				PLX673			
Sampling Date		2021/04/30				2021/04/30				2021/04/30			
COC Number		820175-01-01				820175-01-01				820175-01-01			
	UNITS	T-1R	RDL	QC Batch	T-1R Lab-Dup	RDL	QC Batch	T-3A	RDL	QC Batch			
Calculated Parameters													
Hardness (CaCO3)	mg/L	660	1.0	7330927				1200	1.0	7330927			
Inorganics													
Total Ammonia-N	mg/L	54	0.25	7335882	54	0.25	7335882	3.8	0.050	7335882			
Total BOD	mg/L	16	2	7332297	17	2	7332297	3	2	7332297			
Dissolved Organic Carbon	mg/L	19	0.40	7333176				4.0	0.40	7333176			
pH	pH	8.28		7333630				7.93		7333630			
Phenols-4AAP	mg/L	0.14	0.010	7334650				<0.0010	0.0010	7334650			
Total Phosphorus	mg/L	0.035	0.004	7336223				0.068	0.004	7336223			
Total Suspended Solids	mg/L	<10	10	7333859	<10	10	7333859	39	10	7333859			
Dissolved Sulphate (SO4)	mg/L	760	5.0	7333430				860	5.0	7334150			
Alkalinity (Total as CaCO3)	mg/L	120	1.0	7333642				210	1.0	7333642			
Dissolved Chloride (Cl-)	mg/L	1300	15	7333414				480	5.0	7334144			
Nitrite (N)	mg/L	<0.010	0.010	7333940				0.067	0.010	7333940			
Nitrate (N)	mg/L	<0.10	0.10	7333940				0.47	0.10	7333940			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7333940				0.54	0.10	7333940			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate													



BUREAU
VERITAS

BV Labs Job #: C1B7866
Report Date: 2021/05/10

Terrapure Environmental
Client Project #: SW
Sampler Initials: DM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PLX673			PLX675		PLX676		PLX677		
Sampling Date		2021/04/30			2021/04/30		2021/04/30		2021/04/30		
COC Number		820175-01-01			820175-01-01		820175-01-01		820175-01-01		
	UNITS	T-3A Lab-Dup	RDL	QC Batch	T-12	RDL	T-13	RDL	T-15R	RDL	QC Batch

Calculated Parameters

Hardness (CaCO3)	mg/L				420	1.0	390	1.0	470	1.0	7330927
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Inorganics

Total Ammonia-N	mg/L				<0.050	0.050	<0.050	0.050	<0.050	0.050	7335882
Total BOD	mg/L				<2	2	<2	2	<2	2	7332297
Dissolved Organic Carbon	mg/L				3.2	0.40	3.4	0.40	3.4	0.40	7333168
pH	pH				8.38		8.30		7.94		7333630
Phenols-4AAP	mg/L				<0.0010	0.0010	<0.0010	0.0010	<0.0010	0.0010	7334650
Total Phosphorus	mg/L				0.054	0.004	0.036	0.004	0.013	0.004	7336223
Total Suspended Solids	mg/L				<10	10	<10	10	<10	10	7333859
Dissolved Sulphate (SO4)	mg/L				200	1.0	180	1.0	270	1.0	7333430
Alkalinity (Total as CaCO3)	mg/L				200	1.0	180	1.0	170	1.0	7333642
Dissolved Chloride (Cl-)	mg/L				270	3.0	290	4.0	230	3.0	7333414
Nitrite (N)	mg/L	0.067	0.010	7333940	0.011	0.010	<0.010	0.010	<0.010	0.010	7333940
Nitrate (N)	mg/L	0.48	0.10	7333940	0.90	0.10	1.03	0.10	0.51	0.10	7333940
Nitrate + Nitrite (N)	mg/L	0.54	0.10	7333940	0.92	0.10	1.03	0.10	0.51	0.10	7333940

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate



BUREAU
VERITAS

BV Labs Job #: C1B7866
Report Date: 2021/05/10

Terrapure Environmental
Client Project #: SW
Sampler Initials: DM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PLX678		PLX679			PLX679		
Sampling Date		2021/04/30		2021/04/30			2021/04/30		
COC Number		820175-01-01		820175-01-01			820175-01-01		
	UNITS	T-16	QC Batch	T-29	RDL	QC Batch	T-29 Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	330	7330927	440	1.0	7330927			
Inorganics									
Total Ammonia-N	mg/L	<0.050	7335882	<0.050	0.050	7335882			
Total BOD	mg/L	<2	7332297	<2	2	7332297			
Dissolved Organic Carbon	mg/L	3.5	7333168	3.3	0.40	7333176			
pH	pH	8.26	7333630	8.34		7333921	8.39		7333921
Phenols-4AAP	mg/L	<0.0010	7334647	<0.0010	0.0010	7334647			
Total Phosphorus	mg/L	0.033	7336223	0.052	0.004	7336223			
Total Suspended Solids	mg/L	<10	7333859	<10	10	7333859			
Dissolved Sulphate (SO4)	mg/L	140	7334150	200	1.0	7333430			
Alkalinity (Total as CaCO3)	mg/L	160	7333642	200	1.0	7333914	200	1.0	7333914
Dissolved Chloride (Cl-)	mg/L	220	7334144	270	3.0	7333414			
Nitrite (N)	mg/L	0.022	7333940	0.011	0.010	7333940			
Nitrate (N)	mg/L	1.11	7333940	0.89	0.10	7333940			
Nitrate + Nitrite (N)	mg/L	1.13	7333940	0.90	0.10	7333940			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

BV Labs Job #: C1B7866
Report Date: 2021/05/10

Terrapure Environmental
Client Project #: SW
Sampler Initials: DM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PLX680			PLX681			PLX682		
Sampling Date		2021/04/30			2021/04/30			2021/04/30		
COC Number		820175-01-01			820175-01-01			820175-01-01		
	UNITS	T-30	RDL	QC Batch	T-31	QC Batch	T-32	RDL	QC Batch	
Calculated Parameters										
Hardness (CaCO ₃)	mg/L	440	1.0	7330927	440	7330927	440	1.0	7330927	
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7335882	<0.050	7335882	0.086	0.050	7335882	
Total BOD	mg/L	4	2	7332297	<2	7332297	<2	2	7332297	
Dissolved Organic Carbon	mg/L	3.4	0.40	7333168	3.7	7333176	3.5	0.40	7333176	
pH	pH	8.24		7333630	8.33	7333921	8.21		7333630	
Phenols-4AAP	mg/L	<0.0010	0.0010	7334647	<0.0010	7334650	<0.0010	0.0010	7334650	
Total Phosphorus	mg/L	0.13	0.02	7336223	0.043	7336223	0.041	0.004	7336223	
Total Suspended Solids	mg/L	110	10	7333859	<10	7333859	<10	10	7333859	
Dissolved Sulphate (SO ₄)	mg/L	200	1.0	7333430	220	7333430	210	1.0	7333430	
Alkalinity (Total as CaCO ₃)	mg/L	190	1.0	7333642	190	7333914	200	1.0	7333642	
Dissolved Chloride (Cl ⁻)	mg/L	320	4.0	7333414	320	7333414	330	4.0	7333414	
Nitrite (N)	mg/L	0.025	0.010	7333940	0.015	7333940	0.017	0.010	7333940	
Nitrate (N)	mg/L	1.38	0.10	7333940	0.95	7333940	1.02	0.10	7333940	
Nitrate + Nitrite (N)	mg/L	1.40	0.10	7333940	0.96	7333940	1.03	0.10	7333940	
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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VERITAS

BV Labs Job #: C1B7866
Report Date: 2021/05/10

Terrapure Environmental
Client Project #: SW
Sampler Initials: DM

RESULTS OF ANALYSES OF WATER

BV Labs ID		PLX683			PLX684			PLX684		
Sampling Date		2021/04/30			2021/04/30			2021/04/30		
COC Number		820175-01-01			820175-01-01			820175-01-01		
	UNITS	T-35	RDL	QC Batch	TS-1	RDL	QC Batch	TS-1 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	330	1.0	7330927	180	1.0	7330927			
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7335882	<0.050	0.050	7335882			
Total BOD	mg/L	<2	2	7332297	<2	2	7332297			
Total Kjeldahl Nitrogen (TKN)	mg/L				0.32	0.10	7335873	0.36	0.10	7335873
Dissolved Organic Carbon	mg/L	3.5	0.40	7333176	6.6	0.40	7333176			
Total Organic Carbon (TOC)	mg/L				7.2	0.40	7333720			
pH	pH	8.20		7333921	8.72		7333630			
Phenols-4AAP	mg/L	<0.0010	0.0010	7334650	<0.0010	0.0010	7334647			
Total Phosphorus	mg/L	0.035	0.004	7336223	0.018	0.004	7336223			
Total Suspended Solids	mg/L	<10	10	7333859	<10	10	7333859			
Dissolved Sulphate (SO4)	mg/L	140	1.0	7334150	110	1.0	7333430			
Alkalinity (Total as CaCO3)	mg/L	160	1.0	7333914	92	1.0	7333642			
Dissolved Chloride (Cl-)	mg/L	230	3.0	7334144	27	1.0	7333414			
Nitrite (N)	mg/L	0.022	0.010	7333940	<0.010	0.010	7333940			
Nitrate (N)	mg/L	1.10	0.10	7333940	<0.10	0.10	7333940			
Nitrate + Nitrite (N)	mg/L	1.12	0.10	7333940	<0.10	0.10	7333940			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



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VERITAS

BV Labs Job #: C1B7866
Report Date: 2021/05/10

Terrapure Environmental
Client Project #: SW
Sampler Initials: DM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PLX672		PLX673		PLX675		
Sampling Date		2021/04/30		2021/04/30		2021/04/30		
COC Number		820175-01-01		820175-01-01		820175-01-01		
	UNITS	T-1R	RDL	T-3A	QC Batch	T-12	RDL	QC Batch
Metals								
Dissolved (0.2u) Aluminum (Al)	ug/L	31	5	<5	7336017	6	5	7336017
Mercury (Hg)	mg/L	<0.00010	0.00010	<0.00010	7334624	<0.00010	0.00010	7337163
Total Aluminum (Al)	mg/L	0.044	0.0049	0.95	7336979	0.13	0.0049	7336979
Total Arsenic (As)	mg/L	0.0031	0.0010	<0.0010	7336979	<0.0010	0.0010	7336979
Total Beryllium (Be)	mg/L	<0.00040	0.00040	<0.00040	7336979	<0.00040	0.00040	7336979
Total Boron (B)	mg/L	0.47	0.010	0.53	7336979	0.050	0.010	7336979
Total Cadmium (Cd)	mg/L	<0.000090	0.000090	<0.000090	7336979	0.00011	0.000090	7336979
Total Calcium (Ca)	mg/L	220	0.20	350	7336979	110	0.20	7336979
Total Chromium (Cr)	mg/L	<0.0050	0.0050	<0.0050	7336979	<0.0050	0.0050	7336979
Total Cobalt (Co)	mg/L	<0.00050	0.00050	0.0014	7336979	<0.00050	0.00050	7336979
Total Copper (Cu)	mg/L	<0.00090	0.00090	0.0026	7336979	0.0017	0.00090	7336979
Total Iron (Fe)	mg/L	0.19	0.10	1.9	7336979	0.13	0.10	7336979
Total Lead (Pb)	mg/L	<0.00050	0.00050	0.0051	7336979	<0.00050	0.00050	7336979
Total Magnesium (Mg)	mg/L	38	0.050	81	7336979	40	0.050	7336979
Total Manganese (Mn)	mg/L	0.031	0.0020	0.31	7336979	0.014	0.0020	7336979
Total Molybdenum (Mo)	mg/L	0.027	0.00050	0.0043	7336979	0.0040	0.00050	7336979
Total Nickel (Ni)	mg/L	0.0079	0.0010	0.0067	7336979	0.0027	0.0010	7336979
Total Selenium (Se)	mg/L	<0.0020	0.0020	<0.0020	7336979	<0.0020	0.0020	7336979
Total Silver (Ag)	mg/L	<0.000090	0.000090	<0.000090	7336979	<0.000090	0.000090	7336979
Total Sodium (Na)	mg/L	930	0.50	300	7336979	160	0.10	7336979
Total Strontium (Sr)	mg/L	3.7	0.0010	3.8	7336979	2.1	0.0010	7336979
Total Vanadium (V)	mg/L	0.0014	0.00050	0.0025	7336979	0.00078	0.00050	7336979
Total Zinc (Zn)	mg/L	<0.0050	0.0050	0.053	7336979	0.10	0.0050	7336979
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



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VERITAS

BV Labs Job #: C1B7866
Report Date: 2021/05/10

Terrapure Environmental
Client Project #: SW
Sampler Initials: DM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PLX676			PLX676			PLX677		
Sampling Date		2021/04/30			2021/04/30			2021/04/30		
COC Number		820175-01-01			820175-01-01			820175-01-01		
	UNITS	T-13	RDL	QC Batch	T-13 Lab-Dup	RDL	QC Batch	T-15R	RDL	QC Batch
Metals										
Dissolved (0.2u) Aluminum (Al)	ug/L	6	5	7336017	6	5	7336017	8	5	7336017
Mercury (Hg)	mg/L	<0.00010	0.00010	7334624				<0.00010	0.00010	7337163
Total Aluminum (Al)	mg/L	0.16	0.0049	7336979				0.032	0.0049	7336979
Total Arsenic (As)	mg/L	<0.0010	0.0010	7336979				<0.0010	0.0010	7336979
Total Beryllium (Be)	mg/L	<0.00040	0.00040	7336979				<0.00040	0.00040	7336979
Total Boron (B)	mg/L	0.062	0.010	7336979				0.076	0.010	7336979
Total Cadmium (Cd)	mg/L	0.00010	0.000090	7336979				0.00018	0.000090	7336979
Total Calcium (Ca)	mg/L	100	0.20	7336979				130	0.20	7336979
Total Chromium (Cr)	mg/L	<0.0050	0.0050	7336979				<0.0050	0.0050	7336979
Total Cobalt (Co)	mg/L	<0.00050	0.00050	7336979				<0.00050	0.00050	7336979
Total Copper (Cu)	mg/L	0.0033	0.00090	7336979				0.0010	0.00090	7336979
Total Iron (Fe)	mg/L	0.22	0.10	7336979				<0.10	0.10	7336979
Total Lead (Pb)	mg/L	0.00071	0.00050	7336979				<0.00050	0.00050	7336979
Total Magnesium (Mg)	mg/L	35	0.050	7336979				36	0.050	7336979
Total Manganese (Mn)	mg/L	0.0091	0.0020	7336979				0.021	0.0020	7336979
Total Molybdenum (Mo)	mg/L	0.0032	0.00050	7336979				0.0015	0.00050	7336979
Total Nickel (Ni)	mg/L	0.0022	0.0010	7336979				0.0020	0.0010	7336979
Total Selenium (Se)	mg/L	<0.0020	0.0020	7336979				<0.0020	0.0020	7336979
Total Silver (Ag)	mg/L	<0.000090	0.000090	7336979				<0.000090	0.000090	7336979
Total Sodium (Na)	mg/L	180	0.10	7336979				150	0.10	7336979
Total Strontium (Sr)	mg/L	1.9	0.0010	7336979				2.9	0.0010	7336979
Total Vanadium (V)	mg/L	0.0010	0.00050	7336979				<0.00050	0.00050	7336979
Total Zinc (Zn)	mg/L	0.061	0.0050	7336979				0.083	0.0050	7336979
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



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VERITAS

BV Labs Job #: C1B7866
Report Date: 2021/05/10

Terrapure Environmental
Client Project #: SW
Sampler Initials: DM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PLX678	PLX679			PLX679		
Sampling Date		2021/04/30	2021/04/30			2021/04/30		
COC Number		820175-01-01	820175-01-01			820175-01-01		
	UNITS	T-16	T-29	RDL	QC Batch	T-29 Lab-Dup	RDL	QC Batch
Metals								
Dissolved (0.2u) Aluminum (Al)	ug/L	8	7	5	7336017			
Mercury (Hg)	mg/L	<0.00010	<0.00010	0.00010	7337163			
Total Aluminum (Al)	mg/L	0.070	0.12	0.0049	7336979	0.13	0.0049	7336979
Total Arsenic (As)	mg/L	<0.0010	<0.0010	0.0010	7336979	<0.0010	0.0010	7336979
Total Beryllium (Be)	mg/L	<0.00040	<0.00040	0.00040	7336979	<0.00040	0.00040	7336979
Total Boron (B)	mg/L	0.061	0.050	0.010	7336979	0.051	0.010	7336979
Total Cadmium (Cd)	mg/L	<0.000090	0.00019	0.000090	7336979	0.00014	0.000090	7336979
Total Calcium (Ca)	mg/L	87	110	0.20	7336979	110	0.20	7336979
Total Chromium (Cr)	mg/L	<0.0050	<0.0050	0.0050	7336979	<0.0050	0.0050	7336979
Total Cobalt (Co)	mg/L	<0.00050	<0.00050	0.00050	7336979	<0.00050	0.00050	7336979
Total Copper (Cu)	mg/L	0.0020	0.0017	0.00090	7336979	0.0016	0.00090	7336979
Total Iron (Fe)	mg/L	<0.10	0.13	0.10	7336979	0.14	0.10	7336979
Total Lead (Pb)	mg/L	<0.00050	<0.00050	0.00050	7336979	<0.00050	0.00050	7336979
Total Magnesium (Mg)	mg/L	28	39	0.050	7336979	40	0.050	7336979
Total Manganese (Mn)	mg/L	0.020	0.014	0.0020	7336979	0.014	0.0020	7336979
Total Molybdenum (Mo)	mg/L	0.0020	0.0039	0.00050	7336979	0.0040	0.00050	7336979
Total Nickel (Ni)	mg/L	0.0015	0.0025	0.0010	7336979	0.0023	0.0010	7336979
Total Selenium (Se)	mg/L	<0.0020	<0.0020	0.0020	7336979	<0.0020	0.0020	7336979
Total Silver (Ag)	mg/L	<0.000090	<0.000090	0.000090	7336979	<0.000090	0.000090	7336979
Total Sodium (Na)	mg/L	140	160	0.10	7336979	160	0.10	7336979
Total Strontium (Sr)	mg/L	1.5	2.1	0.0010	7336979	2.1	0.0010	7336979
Total Vanadium (V)	mg/L	0.00079	0.00081	0.00050	7336979	0.00076	0.00050	7336979
Total Zinc (Zn)	mg/L	0.025	0.093	0.0050	7336979	0.098	0.0050	7336979
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate								



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BV Labs Job #: C1B7866
Report Date: 2021/05/10

Terrapure Environmental
Client Project #: SW
Sampler Initials: DM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PLX680		PLX681	PLX682		
Sampling Date		2021/04/30		2021/04/30	2021/04/30		
COC Number		820175-01-01		820175-01-01	820175-01-01		
	UNITS	T-30	QC Batch	T-31	T-32	RDL	QC Batch
Metals							
Dissolved (0.2u) Aluminum (Al)	ug/L	8	7336017	9	7	5	7336017
Mercury (Hg)	mg/L	<0.00010	7334624	<0.00010	<0.00010	0.00010	7337163
Total Aluminum (Al)	mg/L	0.29	7336979	0.097	0.075	0.0049	7336979
Total Arsenic (As)	mg/L	<0.0010	7336979	<0.0010	<0.0010	0.0010	7336979
Total Beryllium (Be)	mg/L	<0.00040	7336979	<0.00040	<0.00040	0.00040	7336979
Total Boron (B)	mg/L	0.053	7336979	0.059	0.063	0.010	7336979
Total Cadmium (Cd)	mg/L	0.00020	7336979	0.00013	0.00015	0.000090	7336979
Total Calcium (Ca)	mg/L	120	7336979	110	120	0.20	7336979
Total Chromium (Cr)	mg/L	<0.0050	7336979	<0.0050	<0.0050	0.0050	7336979
Total Cobalt (Co)	mg/L	<0.00050	7336979	<0.00050	<0.00050	0.00050	7336979
Total Copper (Cu)	mg/L	0.0032	7336979	0.0020	0.0019	0.00090	7336979
Total Iron (Fe)	mg/L	0.48	7336979	0.12	<0.10	0.10	7336979
Total Lead (Pb)	mg/L	0.0019	7336979	<0.00050	<0.00050	0.00050	7336979
Total Magnesium (Mg)	mg/L	40	7336979	41	39	0.050	7336979
Total Manganese (Mn)	mg/L	0.033	7336979	0.018	0.012	0.0020	7336979
Total Molybdenum (Mo)	mg/L	0.0039	7336979	0.0038	0.0034	0.00050	7336979
Total Nickel (Ni)	mg/L	0.0026	7336979	0.0027	0.0028	0.0010	7336979
Total Selenium (Se)	mg/L	<0.0020	7336979	<0.0020	<0.0020	0.0020	7336979
Total Silver (Ag)	mg/L	<0.000090	7336979	<0.000090	<0.000090	0.000090	7336979
Total Sodium (Na)	mg/L	180	7336979	200	210	0.10	7336979
Total Strontium (Sr)	mg/L	2.4	7336979	2.2	2.0	0.0010	7336979
Total Vanadium (V)	mg/L	0.0015	7336979	0.00099	0.00082	0.00050	7336979
Total Zinc (Zn)	mg/L	0.12	7336979	0.095	0.10	0.0050	7336979
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



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BV Labs Job #: C1B7866
Report Date: 2021/05/10

Terrapure Environmental
Client Project #: SW
Sampler Initials: DM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PLX682			PLX683			PLX683		
Sampling Date		2021/04/30			2021/04/30			2021/04/30		
COC Number		820175-01-01			820175-01-01			820175-01-01		
	UNITS	T-32 Lab-Dup	RDL	QC Batch	T-35	RDL	QC Batch	T-35 Lab-Dup	RDL	QC Batch

Metals										
Dissolved (0.2u) Aluminum (Al)	ug/L				<5	5	7336017			
Mercury (Hg)	mg/L	<0.00010	0.00010	7337163	<0.00010	0.00010	7337490	<0.00010	0.00010	7337490
Total Aluminum (Al)	mg/L				0.070	0.0049	7336979			
Total Arsenic (As)	mg/L				<0.0010	0.0010	7336979			
Total Beryllium (Be)	mg/L				<0.00040	0.00040	7336979			
Total Boron (B)	mg/L				0.062	0.010	7336979			
Total Cadmium (Cd)	mg/L				<0.000090	0.000090	7336979			
Total Calcium (Ca)	mg/L				91	0.20	7336979			
Total Chromium (Cr)	mg/L				<0.0050	0.0050	7336979			
Total Cobalt (Co)	mg/L				<0.00050	0.00050	7336979			
Total Copper (Cu)	mg/L				0.0022	0.00090	7336979			
Total Iron (Fe)	mg/L				<0.10	0.10	7336979			
Total Lead (Pb)	mg/L				<0.00050	0.00050	7336979			
Total Magnesium (Mg)	mg/L				29	0.050	7336979			
Total Manganese (Mn)	mg/L				0.021	0.0020	7336979			
Total Molybdenum (Mo)	mg/L				0.0021	0.00050	7336979			
Total Nickel (Ni)	mg/L				0.0013	0.0010	7336979			
Total Selenium (Se)	mg/L				<0.0020	0.0020	7336979			
Total Silver (Ag)	mg/L				<0.000090	0.000090	7336979			
Total Sodium (Na)	mg/L				150	0.10	7336979			
Total Strontium (Sr)	mg/L				1.5	0.0010	7336979			
Total Vanadium (V)	mg/L				0.00074	0.00050	7336979			
Total Zinc (Zn)	mg/L				0.026	0.0050	7336979			

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



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PLX684		
Sampling Date		2021/04/30		
COC Number		820175-01-01		
	UNITS	TS-1	RDL	QC Batch
Metals				
Dissolved (0.2u) Aluminum (Al)	ug/L	11	5	7336017
Mercury (Hg)	mg/L	<0.00010	0.00010	7334624
Total Aluminum (Al)	mg/L	0.10	0.0049	7336979
Total Arsenic (As)	mg/L	<0.0010	0.0010	7336979
Total Beryllium (Be)	mg/L	<0.00040	0.00040	7336979
Total Boron (B)	mg/L	0.11	0.010	7336979
Total Cadmium (Cd)	mg/L	<0.000090	0.000090	7336979
Total Calcium (Ca)	mg/L	44	0.20	7336979
Total Chromium (Cr)	mg/L	<0.0050	0.0050	7336979
Total Cobalt (Co)	mg/L	<0.00050	0.00050	7336979
Total Copper (Cu)	mg/L	0.0020	0.00090	7336979
Total Iron (Fe)	mg/L	0.11	0.10	7336979
Total Lead (Pb)	mg/L	<0.00050	0.00050	7336979
Total Magnesium (Mg)	mg/L	17	0.050	7336979
Total Manganese (Mn)	mg/L	0.0086	0.0020	7336979
Total Molybdenum (Mo)	mg/L	0.0055	0.00050	7336979
Total Nickel (Ni)	mg/L	0.0026	0.0010	7336979
Total Potassium (K)	mg/L	11	0.20	7336979
Total Selenium (Se)	mg/L	<0.0020	0.0020	7336979
Total Silver (Ag)	mg/L	<0.000090	0.000090	7336979
Total Sodium (Na)	mg/L	25	0.10	7336979
Total Strontium (Sr)	mg/L	0.42	0.0010	7336979
Total Vanadium (V)	mg/L	0.00058	0.00050	7336979
Total Zinc (Zn)	mg/L	<0.0050	0.0050	7336979
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



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BV Labs Job #: C1B7866
Report Date: 2021/05/10

Terrapure Environmental
Client Project #: SW
Sampler Initials: DM

TEST SUMMARY

BV Labs ID: PLX672
Sample ID: T-1R
Matrix: Water

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7336017	N/A	2021/05/06	Arefa Dabhad
Alkalinity	AT	7333642	N/A	2021/05/04	Yogesh Patel
Biochemical Oxygen Demand (BOD)	DO	7332297	2021/05/04	2021/05/09	Frank Zhang
Chloride by Automated Colourimetry	KONE	7333414	N/A	2021/05/05	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7333176	N/A	2021/05/05	Nimarta Singh
Hardness (calculated as CaCO3)		7330927	N/A	2021/05/07	Automated Statchk
Mercury in Water by CVAA	CV/AA	7334624	2021/05/05	2021/05/05	Prempal Bhatti
Total Metals Analysis by ICPMS	ICP/MS	7336979	N/A	2021/05/07	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7335882	N/A	2021/05/06	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7333940	N/A	2021/05/05	Chandra Nandlal
pH	AT	7333630	2021/05/04	2021/05/04	Yogesh Patel
Phenols (4AAP)	TECH/PHEN	7334650	N/A	2021/05/05	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7333430	N/A	2021/05/05	Avneet Kour Sudan
Total Phosphorus (Colourimetric)	LACH/P	7336223	2021/05/05	2021/05/06	Shivani Shivani
Total Suspended Solids	BAL	7333859	2021/05/05	2021/05/06	Shivani Desai

BV Labs ID: PLX672 Dup
Sample ID: T-1R
Matrix: Water

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Biochemical Oxygen Demand (BOD)	DO	7332297	2021/05/04	2021/05/09	Frank Zhang
Total Ammonia-N	LACH/NH4	7335882	N/A	2021/05/06	Alina Dobreanu
Total Suspended Solids	BAL	7333859	2021/05/05	2021/05/06	Shivani Desai

BV Labs ID: PLX673
Sample ID: T-3A
Matrix: Water

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7336017	N/A	2021/05/06	Arefa Dabhad
Alkalinity	AT	7333642	N/A	2021/05/04	Yogesh Patel
Biochemical Oxygen Demand (BOD)	DO	7332297	2021/05/04	2021/05/09	Frank Zhang
Chloride by Automated Colourimetry	KONE	7334144	N/A	2021/05/05	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7333176	N/A	2021/05/05	Nimarta Singh
Hardness (calculated as CaCO3)		7330927	N/A	2021/05/07	Automated Statchk
Mercury in Water by CVAA	CV/AA	7334624	2021/05/05	2021/05/05	Prempal Bhatti
Total Metals Analysis by ICPMS	ICP/MS	7336979	N/A	2021/05/06	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7335882	N/A	2021/05/06	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7333940	N/A	2021/05/05	Chandra Nandlal
pH	AT	7333630	2021/05/04	2021/05/04	Yogesh Patel
Phenols (4AAP)	TECH/PHEN	7334650	N/A	2021/05/05	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7334150	N/A	2021/05/05	Avneet Kour Sudan
Total Phosphorus (Colourimetric)	LACH/P	7336223	2021/05/05	2021/05/06	Shivani Shivani
Total Suspended Solids	BAL	7333859	2021/05/05	2021/05/06	Shivani Desai



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BV Labs Job #: C1B7866
Report Date: 2021/05/10

Terrapure Environmental
Client Project #: SW
Sampler Initials: DM

TEST SUMMARY

BV Labs ID: PLX673 Dup
Sample ID: T-3A
Matrix: Water

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7333940	N/A	2021/05/05	Chandra Nandlal

BV Labs ID: PLX675
Sample ID: T-12
Matrix: Water

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7336017	N/A	2021/05/06	Arefa Dabhad
Alkalinity	AT	7333642	N/A	2021/05/04	Yogesh Patel
Biochemical Oxygen Demand (BOD)	DO	7332297	2021/05/04	2021/05/09	Frank Zhang
Chloride by Automated Colourimetry	KONE	7333414	N/A	2021/05/05	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7333168	N/A	2021/05/06	Nimarta Singh
Hardness (calculated as CaCO3)		7330927	N/A	2021/05/07	Automated Statchk
Mercury in Water by CVAA	CV/AA	7337163	2021/05/06	2021/05/06	Prempal Bhatti
Total Metals Analysis by ICPMS	ICP/MS	7336979	N/A	2021/05/06	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7335882	N/A	2021/05/06	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7333940	N/A	2021/05/05	Chandra Nandlal
pH	AT	7333630	2021/05/04	2021/05/04	Yogesh Patel
Phenols (4AAP)	TECH/PHEN	7334650	N/A	2021/05/05	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7333430	N/A	2021/05/05	Avneet Kour Sudan
Total Phosphorus (Colourimetric)	LACH/P	7336223	2021/05/05	2021/05/06	Shivani Shivani
Total Suspended Solids	BAL	7333859	2021/05/05	2021/05/06	Shivani Desai

BV Labs ID: PLX676
Sample ID: T-13
Matrix: Water

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7336017	N/A	2021/05/06	Arefa Dabhad
Alkalinity	AT	7333642	N/A	2021/05/04	Yogesh Patel
Biochemical Oxygen Demand (BOD)	DO	7332297	2021/05/04	2021/05/09	Frank Zhang
Chloride by Automated Colourimetry	KONE	7333414	N/A	2021/05/05	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7333168	N/A	2021/05/06	Nimarta Singh
Hardness (calculated as CaCO3)		7330927	N/A	2021/05/07	Automated Statchk
Mercury in Water by CVAA	CV/AA	7334624	2021/05/05	2021/05/05	Prempal Bhatti
Total Metals Analysis by ICPMS	ICP/MS	7336979	N/A	2021/05/06	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7335882	N/A	2021/05/06	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7333940	N/A	2021/05/05	Chandra Nandlal
pH	AT	7333630	2021/05/04	2021/05/04	Yogesh Patel
Phenols (4AAP)	TECH/PHEN	7334650	N/A	2021/05/05	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7333430	N/A	2021/05/05	Avneet Kour Sudan
Total Phosphorus (Colourimetric)	LACH/P	7336223	2021/05/05	2021/05/06	Shivani Shivani
Total Suspended Solids	BAL	7333859	2021/05/05	2021/05/06	Shivani Desai



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BV Labs Job #: C1B7866
Report Date: 2021/05/10

Terrapure Environmental
Client Project #: SW
Sampler Initials: DM

TEST SUMMARY

BV Labs ID: PLX676 Dup
Sample ID: T-13
Matrix: Water

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7336017	N/A	2021/05/06	Arefa Dabhad

BV Labs ID: PLX677
Sample ID: T-15R
Matrix: Water

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7336017	N/A	2021/05/06	Arefa Dabhad
Alkalinity	AT	7333642	N/A	2021/05/04	Yogesh Patel
Biochemical Oxygen Demand (BOD)	DO	7332297	2021/05/04	2021/05/09	Frank Zhang
Chloride by Automated Colourimetry	KONE	7333414	N/A	2021/05/05	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7333168	N/A	2021/05/05	Nimarta Singh
Hardness (calculated as CaCO3)		7330927	N/A	2021/05/07	Automated Statchk
Mercury in Water by CVAA	CV/AA	7337163	2021/05/06	2021/05/06	Prempal Bhatti
Total Metals Analysis by ICPMS	ICP/MS	7336979	N/A	2021/05/06	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7335882	N/A	2021/05/06	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7333940	N/A	2021/05/05	Chandra Nandlal
pH	AT	7333630	2021/05/04	2021/05/04	Yogesh Patel
Phenols (4AAP)	TECH/PHEN	7334650	N/A	2021/05/05	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7333430	N/A	2021/05/05	Avneet Kour Sudan
Total Phosphorus (Colourimetric)	LACH/P	7336223	2021/05/05	2021/05/06	Shivani Shivani
Total Suspended Solids	BAL	7333859	2021/05/05	2021/05/06	Shivani Desai

BV Labs ID: PLX678
Sample ID: T-16
Matrix: Water

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7336017	N/A	2021/05/06	Arefa Dabhad
Alkalinity	AT	7333642	N/A	2021/05/04	Yogesh Patel
Biochemical Oxygen Demand (BOD)	DO	7332297	2021/05/04	2021/05/09	Frank Zhang
Chloride by Automated Colourimetry	KONE	7334144	N/A	2021/05/05	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7333168	N/A	2021/05/05	Nimarta Singh
Hardness (calculated as CaCO3)		7330927	N/A	2021/05/07	Automated Statchk
Mercury in Water by CVAA	CV/AA	7337163	2021/05/06	2021/05/06	Prempal Bhatti
Total Metals Analysis by ICPMS	ICP/MS	7336979	N/A	2021/05/06	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7335882	N/A	2021/05/06	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7333940	N/A	2021/05/05	Chandra Nandlal
pH	AT	7333630	2021/05/04	2021/05/04	Yogesh Patel
Phenols (4AAP)	TECH/PHEN	7334647	N/A	2021/05/05	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7334150	N/A	2021/05/05	Avneet Kour Sudan
Total Phosphorus (Colourimetric)	LACH/P	7336223	2021/05/05	2021/05/06	Shivani Shivani
Total Suspended Solids	BAL	7333859	2021/05/05	2021/05/06	Shivani Desai



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BV Labs Job #: C1B7866
Report Date: 2021/05/10

Terrapure Environmental
Client Project #: SW
Sampler Initials: DM

TEST SUMMARY

BV Labs ID: PLX679
Sample ID: T-29
Matrix: Water

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7336017	N/A	2021/05/06	Arefa Dabhad
Alkalinity	AT	7333914	N/A	2021/05/05	Yogesh Patel
Biochemical Oxygen Demand (BOD)	DO	7332297	2021/05/04	2021/05/09	Frank Zhang
Chloride by Automated Colourimetry	KONE	7333414	N/A	2021/05/05	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7333176	N/A	2021/05/05	Nimarta Singh
Hardness (calculated as CaCO3)		7330927	N/A	2021/05/07	Automated Statchk
Mercury in Water by CVAA	CV/AA	7337163	2021/05/06	2021/05/06	Prempal Bhatti
Total Metals Analysis by ICPMS	ICP/MS	7336979	N/A	2021/05/06	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7335882	N/A	2021/05/06	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7333940	N/A	2021/05/05	Chandra Nandlal
pH	AT	7333921	2021/05/04	2021/05/05	Yogesh Patel
Phenols (4AAP)	TECH/PHEN	7334647	N/A	2021/05/05	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7333430	N/A	2021/05/05	Avneet Kour Sudan
Total Phosphorus (Colourimetric)	LACH/P	7336223	2021/05/05	2021/05/06	Shivani Shivani
Total Suspended Solids	BAL	7333859	2021/05/05	2021/05/06	Shivani Desai

BV Labs ID: PLX679 Dup
Sample ID: T-29
Matrix: Water

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7333914	N/A	2021/05/05	Yogesh Patel
Total Metals Analysis by ICPMS	ICP/MS	7336979	N/A	2021/05/06	Prempal Bhatti
pH	AT	7333921	2021/05/04	2021/05/05	Yogesh Patel

BV Labs ID: PLX680
Sample ID: T-30
Matrix: Water

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7336017	N/A	2021/05/06	Arefa Dabhad
Alkalinity	AT	7333642	N/A	2021/05/04	Yogesh Patel
Biochemical Oxygen Demand (BOD)	DO	7332297	2021/05/04	2021/05/09	Frank Zhang
Chloride by Automated Colourimetry	KONE	7333414	N/A	2021/05/05	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7333168	N/A	2021/05/05	Nimarta Singh
Hardness (calculated as CaCO3)		7330927	N/A	2021/05/07	Automated Statchk
Mercury in Water by CVAA	CV/AA	7334624	2021/05/05	2021/05/05	Prempal Bhatti
Total Metals Analysis by ICPMS	ICP/MS	7336979	N/A	2021/05/06	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7335882	N/A	2021/05/06	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7333940	N/A	2021/05/05	Chandra Nandlal
pH	AT	7333630	2021/05/04	2021/05/04	Yogesh Patel
Phenols (4AAP)	TECH/PHEN	7334647	N/A	2021/05/05	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7333430	N/A	2021/05/05	Avneet Kour Sudan
Total Phosphorus (Colourimetric)	LACH/P	7336223	2021/05/05	2021/05/06	Shivani Shivani
Total Suspended Solids	BAL	7333859	2021/05/05	2021/05/06	Shivani Desai



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BV Labs Job #: C1B7866
Report Date: 2021/05/10

Terrapure Environmental
Client Project #: SW
Sampler Initials: DM

TEST SUMMARY

BV Labs ID: PLX681
Sample ID: T-31
Matrix: Water

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7336017	N/A	2021/05/06	Arefa Dabhad
Alkalinity	AT	7333914	N/A	2021/05/05	Yogesh Patel
Biochemical Oxygen Demand (BOD)	DO	7332297	2021/05/04	2021/05/09	Frank Zhang
Chloride by Automated Colourimetry	KONE	7333414	N/A	2021/05/05	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7333176	N/A	2021/05/05	Nimarta Singh
Hardness (calculated as CaCO3)		7330927	N/A	2021/05/07	Automated Statchk
Mercury in Water by CVAA	CV/AA	7337163	2021/05/06	2021/05/06	Prempal Bhatti
Total Metals Analysis by ICPMS	ICP/MS	7336979	N/A	2021/05/06	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7335882	N/A	2021/05/06	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7333940	N/A	2021/05/05	Chandra Nandlal
pH	AT	7333921	2021/05/04	2021/05/05	Yogesh Patel
Phenols (4AAP)	TECH/PHEN	7334650	N/A	2021/05/05	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7333430	N/A	2021/05/05	Avneet Kour Sudan
Total Phosphorus (Colourimetric)	LACH/P	7336223	2021/05/05	2021/05/06	Shivani Shivani
Total Suspended Solids	BAL	7333859	2021/05/05	2021/05/06	Shivani Desai

BV Labs ID: PLX682
Sample ID: T-32
Matrix: Water

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7336017	N/A	2021/05/06	Arefa Dabhad
Alkalinity	AT	7333642	N/A	2021/05/04	Yogesh Patel
Biochemical Oxygen Demand (BOD)	DO	7332297	2021/05/04	2021/05/09	Frank Zhang
Chloride by Automated Colourimetry	KONE	7333414	N/A	2021/05/05	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7333176	N/A	2021/05/05	Nimarta Singh
Hardness (calculated as CaCO3)		7330927	N/A	2021/05/07	Automated Statchk
Mercury in Water by CVAA	CV/AA	7337163	2021/05/06	2021/05/06	Prempal Bhatti
Total Metals Analysis by ICPMS	ICP/MS	7336979	N/A	2021/05/06	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7335882	N/A	2021/05/06	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7333940	N/A	2021/05/05	Chandra Nandlal
pH	AT	7333630	2021/05/04	2021/05/04	Yogesh Patel
Phenols (4AAP)	TECH/PHEN	7334650	N/A	2021/05/05	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7333430	N/A	2021/05/05	Avneet Kour Sudan
Total Phosphorus (Colourimetric)	LACH/P	7336223	2021/05/05	2021/05/06	Shivani Shivani
Total Suspended Solids	BAL	7333859	2021/05/05	2021/05/06	Shivani Desai

BV Labs ID: PLX682 Dup
Sample ID: T-32
Matrix: Water

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Water by CVAA	CV/AA	7337163	2021/05/06	2021/05/06	Prempal Bhatti



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BV Labs Job #: C1B7866
Report Date: 2021/05/10

Terrapure Environmental
Client Project #: SW
Sampler Initials: DM

TEST SUMMARY

BV Labs ID: PLX683
Sample ID: T-35
Matrix: Water

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7336017	N/A	2021/05/06	Arefa Dabhad
Alkalinity	AT	7333914	N/A	2021/05/05	Yogesh Patel
Biochemical Oxygen Demand (BOD)	DO	7332297	2021/05/04	2021/05/09	Frank Zhang
Chloride by Automated Colourimetry	KONE	7334144	N/A	2021/05/05	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7333176	N/A	2021/05/05	Nimarta Singh
Hardness (calculated as CaCO3)		7330927	N/A	2021/05/07	Automated Statchk
Mercury in Water by CVAA	CV/AA	7337490	2021/05/06	2021/05/06	Prempal Bhatti
Total Metals Analysis by ICPMS	ICP/MS	7336979	N/A	2021/05/06	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7335882	N/A	2021/05/06	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7333940	N/A	2021/05/05	Chandra Nandlal
pH	AT	7333921	2021/05/04	2021/05/05	Yogesh Patel
Phenols (4AAP)	TECH/PHEN	7334650	N/A	2021/05/05	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7334150	N/A	2021/05/05	Avneet Kour Sudan
Total Phosphorus (Colourimetric)	LACH/P	7336223	2021/05/05	2021/05/06	Shivani Shivani
Total Suspended Solids	BAL	7333859	2021/05/05	2021/05/06	Shivani Desai

BV Labs ID: PLX683 Dup
Sample ID: T-35
Matrix: Water

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Water by CVAA	CV/AA	7337490	2021/05/06	2021/05/06	Prempal Bhatti

BV Labs ID: PLX684
Sample ID: TS-1
Matrix: Water

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7336017	N/A	2021/05/06	Arefa Dabhad
Alkalinity	AT	7333642	N/A	2021/05/04	Yogesh Patel
Biochemical Oxygen Demand (BOD)	DO	7332297	2021/05/04	2021/05/09	Frank Zhang
Chloride by Automated Colourimetry	KONE	7333414	N/A	2021/05/05	Deonarine Ramnarine
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7333176	N/A	2021/05/05	Nimarta Singh
Hardness (calculated as CaCO3)		7330927	N/A	2021/05/07	Automated Statchk
Mercury in Water by CVAA	CV/AA	7334624	2021/05/05	2021/05/05	Prempal Bhatti
Total Metals Analysis by ICPMS	ICP/MS	7336979	N/A	2021/05/06	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7335882	N/A	2021/05/06	Alina Dobreanu
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7333940	N/A	2021/05/05	Chandra Nandlal
pH	AT	7333630	2021/05/04	2021/05/04	Yogesh Patel
Phenols (4AAP)	TECH/PHEN	7334647	N/A	2021/05/05	Bramdeo Motiram
Sulphate by Automated Colourimetry	KONE	7333430	N/A	2021/05/05	Avneet Kour Sudan
Total Kjeldahl Nitrogen in Water	SKAL	7335873	2021/05/06	2021/05/06	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7333720	N/A	2021/05/06	Nimarta Singh
Total Phosphorus (Colourimetric)	LACH/P	7336223	2021/05/05	2021/05/06	Shivani Shivani
Total Suspended Solids	BAL	7333859	2021/05/05	2021/05/06	Shivani Desai



BUREAU
VERITAS

BV Labs Job #: C1B7866
Report Date: 2021/05/10

Terrapure Environmental
Client Project #: SW
Sampler Initials: DM

TEST SUMMARY

BV Labs ID: PLX684 Dup
Sample ID: TS-1
Matrix: Water

Collected: 2021/04/30
Shipped:
Received: 2021/05/03

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Kjeldahl Nitrogen in Water	SKAL	7335873	2021/05/06	2021/05/06	Rajni Tyagi



GENERAL COMMENTS

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

Package 1	2.0°C
Package 2	0.7°C
Package 3	3.0°C

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C1B7866
Report Date: 2021/05/10

QUALITY ASSURANCE REPORT

Terrapure Environmental
Client Project #: SW
Sampler Initials: DM

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
7332297	Total BOD	2021/05/09					<2	mg/L	4.3	30	95	80 - 120
7333168	Dissolved Organic Carbon	2021/05/05	94	80 - 120	98	80 - 120	<0.40	mg/L	3.9	20		
7333176	Dissolved Organic Carbon	2021/05/05	94	80 - 120	96	80 - 120	<0.40	mg/L	5.1	20		
7333414	Dissolved Chloride (Cl-)	2021/05/05	NC	80 - 120	100	80 - 120	<1.0	mg/L	4.3	20		
7333430	Dissolved Sulphate (SO4)	2021/05/05	NC	75 - 125	107	80 - 120	<1.0	mg/L	2.7	20		
7333630	pH	2021/05/04			102	98 - 103			0.49	N/A		
7333642	Alkalinity (Total as CaCO3)	2021/05/04			97	85 - 115	<1.0	mg/L	1.6	20		
7333720	Total Organic Carbon (TOC)	2021/05/06	95	80 - 120	99	80 - 120	<0.40	mg/L	7.5	20		
7333859	Total Suspended Solids	2021/05/06					<10	mg/L	NC	25	96	85 - 115
7333914	Alkalinity (Total as CaCO3)	2021/05/05			95	85 - 115	<1.0	mg/L	0.44	20		
7333921	pH	2021/05/05			102	98 - 103			0.54	N/A		
7333940	Nitrate (N)	2021/05/05	97	80 - 120	99	80 - 120	<0.10	mg/L	0.23	20		
7333940	Nitrite (N)	2021/05/05	106	80 - 120	107	80 - 120	<0.010	mg/L	0	20		
7334144	Dissolved Chloride (Cl-)	2021/05/05	NC	80 - 120	105	80 - 120	<1.0	mg/L	0.18	20		
7334150	Dissolved Sulphate (SO4)	2021/05/05	NC	75 - 125	107	80 - 120	<1.0	mg/L	2.7	20		
7334624	Mercury (Hg)	2021/05/05	97	75 - 125	100	80 - 120	<0.00010	mg/L	NC	20		
7334647	Phenols-4AAP	2021/05/05	100	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20		
7334650	Phenols-4AAP	2021/05/05	99	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20		
7335873	Total Kjeldahl Nitrogen (TKN)	2021/05/06	106	80 - 120	99	80 - 120	<0.10	mg/L	12	20	101	80 - 120
7335882	Total Ammonia-N	2021/05/06	NC	75 - 125	99	80 - 120	<0.050	mg/L	0.14	20		
7336017	Dissolved (0.2u) Aluminum (Al)	2021/05/06	101	80 - 120	102	80 - 120	<5	ug/L	8.2	20		
7336223	Total Phosphorus	2021/05/06	92	80 - 120	101	80 - 120	<0.004	mg/L	10	20	99	80 - 120
7336979	Total Aluminum (Al)	2021/05/06	103	80 - 120	99	80 - 120	<0.0049	mg/L	4.7	20		
7336979	Total Arsenic (As)	2021/05/06	101	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		
7336979	Total Beryllium (Be)	2021/05/06	100	80 - 120	99	80 - 120	<0.00040	mg/L	NC	20		
7336979	Total Boron (B)	2021/05/06	96	80 - 120	99	80 - 120	<0.010	mg/L	1.9	20		
7336979	Total Cadmium (Cd)	2021/05/06	99	80 - 120	101	80 - 120	<0.000090	mg/L	NC	20		
7336979	Total Calcium (Ca)	2021/05/06	NC	80 - 120	99	80 - 120	<0.20	mg/L	1.5	20		
7336979	Total Chromium (Cr)	2021/05/06	97	80 - 120	98	80 - 120	<0.0050	mg/L	NC	20		
7336979	Total Cobalt (Co)	2021/05/06	96	80 - 120	97	80 - 120	<0.00050	mg/L	NC	20		
7336979	Total Copper (Cu)	2021/05/06	99	80 - 120	100	80 - 120	<0.00090	mg/L	8.6	20		



BUREAU
VERITAS

BV Labs Job #: C1B7866
Report Date: 2021/05/10

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: SW
Sampler Initials: DM

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
7336979	Total Iron (Fe)	2021/05/06	95	80 - 120	98	80 - 120	<0.10	mg/L	0.64	20		
7336979	Total Lead (Pb)	2021/05/06	94	80 - 120	96	80 - 120	<0.00050	mg/L	NC	20		
7336979	Total Magnesium (Mg)	2021/05/06	NC	80 - 120	98	80 - 120	<0.050	mg/L	1.4	20		
7336979	Total Manganese (Mn)	2021/05/06	96	80 - 120	99	80 - 120	<0.0020	mg/L	3.5	20		
7336979	Total Molybdenum (Mo)	2021/05/06	103	80 - 120	101	80 - 120	<0.00050	mg/L	2.8	20		
7336979	Total Nickel (Ni)	2021/05/06	96	80 - 120	97	80 - 120	<0.0010	mg/L	8.9	20		
7336979	Total Potassium (K)	2021/05/06	95	80 - 120	96	80 - 120	<0.20	mg/L				
7336979	Total Selenium (Se)	2021/05/06	101	80 - 120	104	80 - 120	<0.0020	mg/L	NC	20		
7336979	Total Silver (Ag)	2021/05/06	98	80 - 120	99	80 - 120	<0.000090	mg/L	NC	20		
7336979	Total Sodium (Na)	2021/05/06	NC	80 - 120	95	80 - 120	<0.10	mg/L	2.2	20		
7336979	Total Strontium (Sr)	2021/05/06	NC	80 - 120	99	80 - 120	<0.0010	mg/L	0.0082	20		
7336979	Total Vanadium (V)	2021/05/06	99	80 - 120	99	80 - 120	<0.00050	mg/L	5.9	20		
7336979	Total Zinc (Zn)	2021/05/06	98	80 - 120	103	80 - 120	<0.0050	mg/L	6.0	20		
7337163	Mercury (Hg)	2021/05/06	90	75 - 125	95	80 - 120	<0.00010	mg/L	NC	20		
7337490	Mercury (Hg)	2021/05/06	99	75 - 125	96	80 - 120	<0.00010	mg/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).



BUREAU
VERITAS

BV Labs Job #: C1B7866
Report Date: 2021/05/10

Terrapure Environmental
Client Project #: SW
Sampler Initials: DM

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 "Anastassia 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.



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

03-May-21 15:44

Jolanta Goralczyk
C1B7866

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Only:	
Company Name: #16786 Terrapure Environmental	Company Name: Brad Mullin GHD Reporting	Quotation #: B60569	Bottle Order #: 820175		Project Manager: Jolanta Goralczyk		
Attention: Accounting	Attention: Brad Mullin	P.O. #: SW	COC #: C#820175-01-01				
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address:	Project: SW					
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel: bmmullin@terrapureenv.com; dtaylor2@terrapureenv.com	Project Name: SW					
Email: kbailey@terrapureenv.com	Email:	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					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 (Fig Cr VI) List 'C' SW Water Quality (Full)										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 406 Table																
<input type="checkbox"/> Table			<input type="checkbox"/> Other																	
Include Criteria on Certificate of Analysis (Y/N)?																				
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered	Metals														
1	T-1R	20/04/30	AM	SW	Y	✓												9		
2	T-3A			SW	Y	✓												9		
3	T-3R			SW	Y	✓												9		
4	T-12			SW	Y	✓												9		
5	T-13			SW	Y	✓												9		
6	T-15R			SW	Y	✓												9		
7	T-16			SW	Y	✓												9		
8	T-29			SW	Y	✓												9		
9	T-30			SW	Y	✓												9		
10	T-31			SW	Y	✓												9		

* 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				
	21/05/03	AM		06/05/03	15:44		Time Sensitive	Temperature (°C) on Receipt	Custody Seal Present	Yes	No
								4/20 2/10 1/315	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



INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental		Company Name: <u>Accounting</u>		Quotation #: B60569		BV Labs Job #:	
Attention: Accounting		Attention: Brad Mullin <u>GHD Reporting</u>		P.O. #:		Bottle Order #:	
Address: 65 Green Mountain Rd West		Address:		Project: SW		820175	
Stoney Creek ON L8J 1X5				Project Name: <u>SW</u>		COC #:	
Tel: (905) 561-0305 Fax: (905) 561-1674		Tel:		Site #:		Project Manager:	
Email: kbailey@terrapureenv.com		Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		Sampled By:		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): Metals / <u>Ag</u> / Cr VI	List "C" SW Water Quality (Full)											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 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 _____																			
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	T-32	2/04/30	AM	SW	Y	✓																9	
2	T-35	↓	↓	SW	Y	✓																9	
3	T-32 TS-1	↓	↓	SW	Y	✓	✓	✓	✓													9	
4				SW																			
5				SW																			
6				SW																			
7				SW																			
8				SW																			
9				SW																			
10				SW																			

* 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				
	2/10/03	AM		02/10/03	15144		Time Sensitive	Temperature (°C) on Recept	Custody Seal Present	Yes	No
								7.210 2/10 1/31	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



Your Project #: GW
Your C.O.C. #: 819873-28-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/05/14
Report #: R6634367
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1C4981

Received: 2021/05/10, 15:35

Sample Matrix: Water
Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	3	N/A	2021/05/13	CAM SOP-00448	SM 23 2320 B m
Anions	3	N/A	2021/05/12	CAM SOP-00435	SM 23 4110 B m
Conductivity	3	N/A	2021/05/13	CAM SOP-00414	SM 23 2510 m
Fluoride	3	2021/05/12	2021/05/13	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	3	N/A	2021/05/13	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	3	N/A	2021/05/13	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	3	N/A	2021/05/13	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	3	N/A	2021/05/13	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	3	2021/05/12	2021/05/13	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	3	N/A	2021/05/12	CAM SOP-00444	OMOE E3179 m
Orthophosphate	3	N/A	2021/05/13	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	3	2021/05/12	2021/05/13	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	1	2021/05/11	2021/05/12	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	2	2021/05/11	2021/05/13	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	3	N/A	2021/05/13	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
14 May 2021 15:35:42

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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Total Cover Pages : 1
Page 1 of 12



BUREAU
VERITAS

BV Labs Job #: C1C4981
Report Date: 2021/05/14

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		PNI983			PNI983			PNI984		
Sampling Date		2021/05/07			2021/05/07			2021/05/07		
COC Number		819873-28-01			819873-28-01			819873-28-01		
	UNITS	77-I	RDL	QC Batch	77-I Lab-Dup	RDL	QC Batch	77-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	67000	1.0	7343433				53000	1.0	7343433
Inorganics										
Total Ammonia-N	mg/L	40	0.25	7345916	40	0.25	7345916	30	0.050	7345916
Conductivity	umho/cm	>100000	1.0	7348099				>100000	1.0	7348099
Total Dissolved Solids	mg/L	129000	20	7348676				95900	20	7348676
Fluoride (F-)	mg/L	0.15	0.10	7348083				0.19	0.10	7348083
Total Kjeldahl Nitrogen (TKN)	mg/L	40	1.0	7345912				35	1.0	7345862
Total Organic Carbon (TOC)	mg/L	1.3	0.40	7345974				2.7	0.40	7345974
Orthophosphate (P)	mg/L	<0.010	0.010	7348101				<0.010	0.010	7348101
pH	pH	6.71		7348098				6.80		7348098
Phenols-4AAP	mg/L	<0.0050 (1)	0.0050	7347058				<0.0020 (1)	0.0020	7347058
Alkalinity (Total as CaCO3)	mg/L	64	1.0	7348093				92	1.0	7348093
Nitrite (N)	mg/L	<0.10	0.10	7347899				<0.10	0.10	7347899
Dissolved Chloride (Cl-)	mg/L	82000	500	7346585				62000	500	7346585
Nitrate (N)	mg/L	<1.0	1.0	7347899				<1.0	1.0	7347899
Nitrate + Nitrite (N)	mg/L	<1.0	1.0	7347899				<1.0	1.0	7347899
Dissolved Bromide (Br-)	mg/L	850	50	7346585				620	50	7346585
Dissolved Sulphate (SO4)	mg/L	900	50	7346585				1000	50	7346585

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 Lab-Dup = Laboratory Initiated Duplicate
 (1) Detection Limit was raised due to matrix interferences.



BUREAU
VERITAS

BV Labs Job #: C1C4981
Report Date: 2021/05/14

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		PNI984			PNI985			PNI985		
Sampling Date		2021/05/07			2021/05/07			2021/05/07		
COC Number		819873-28-01			819873-28-01			819873-28-01		
	UNITS	77-II Lab-Dup	RDL	QC Batch	77-III	RDL	QC Batch	77-III Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				1400	1.0	7343433			
Inorganics										
Total Ammonia-N	mg/L				0.22	0.050	7345922			
Conductivity	umho/cm	>100000	1.0	7348099	3400	1.0	7348099			
Total Dissolved Solids	mg/L				2450	10	7348676			
Fluoride (F-)	mg/L	0.20	0.10	7348083	0.97	0.10	7348083			
Total Kjeldahl Nitrogen (TKN)	mg/L				0.52	0.10	7345862			
Total Organic Carbon (TOC)	mg/L				3.5	0.40	7345974			
Orthophosphate (P)	mg/L				<0.010	0.010	7348101			
pH	pH	6.81		7348098	7.62		7348098			
Phenols-4AAP	mg/L				<0.0010	0.0010	7347058			
Alkalinity (Total as CaCO3)	mg/L	94	1.0	7348093	310	1.0	7348093			
Nitrite (N)	mg/L				<0.010	0.010	7347899	<0.010	0.010	7347899
Dissolved Chloride (Cl-)	mg/L				540	10	7346585			
Nitrate (N)	mg/L				<0.10	0.10	7347899	<0.10	0.10	7347899
Nitrate + Nitrite (N)	mg/L				<0.10	0.10	7347899	<0.10	0.10	7347899
Dissolved Bromide (Br-)	mg/L				<10	10	7346585			
Dissolved Sulphate (SO4)	mg/L				890	10	7346585			

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



BUREAU
VERITAS

BV Labs Job #: C1C4981
Report Date: 2021/05/14

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PNI983		PNI984		PNI985		
Sampling Date		2021/05/07		2021/05/07		2021/05/07		
COC Number		819873-28-01		819873-28-01		819873-28-01		
	UNITS	77-I	RDL	77-II	RDL	77-III	RDL	QC Batch
Metals								
Dissolved Aluminum (Al)	ug/L	<250	250	<250	250	<4.9	4.9	7347981
Dissolved Antimony (Sb)	ug/L	<25	25	<25	25	<0.50	0.50	7347981
Dissolved Arsenic (As)	ug/L	<50	50	<50	50	<1.0	1.0	7347981
Dissolved Barium (Ba)	ug/L	160	100	140	100	46	2.0	7347981
Dissolved Beryllium (Be)	ug/L	<20	20	<20	20	<0.40	0.40	7347981
Dissolved Bismuth (Bi)	ug/L	<50	50	<50	50	<1.0	1.0	7347981
Dissolved Boron (B)	ug/L	6600	500	7900	500	130	10	7347981
Dissolved Cadmium (Cd)	ug/L	<4.5	4.5	<4.5	4.5	<0.090	0.090	7347981
Dissolved Calcium (Ca)	ug/L	19000000	20000	15000000	20000	260000	200	7347981
Dissolved Chromium (Cr)	ug/L	<250	250	<250	250	<5.0	5.0	7347981
Dissolved Cobalt (Co)	ug/L	<25	25	<25	25	<0.50	0.50	7347981
Dissolved Copper (Cu)	ug/L	72	45	<45	45	<0.90	0.90	7347981
Dissolved Iron (Fe)	ug/L	<5000	5000	<5000	5000	660	100	7347981
Dissolved Lead (Pb)	ug/L	<25	25	<25	25	<0.50	0.50	7347981
Dissolved Lithium (Li)	ug/L	27000	500	25000	250	54	5.0	7347981
Dissolved Magnesium (Mg)	ug/L	4900000	2500	4000000	2500	190000	50	7347981
Dissolved Manganese (Mn)	ug/L	2700	100	1700	100	110	2.0	7347981
Dissolved Molybdenum (Mo)	ug/L	<25	25	<25	25	0.67	0.50	7347981
Dissolved Nickel (Ni)	ug/L	<50	50	<50	50	<1.0	1.0	7347981
Dissolved Phosphorus (P)	ug/L	<5000	5000	<5000	5000	<100	100	7347981
Dissolved Potassium (K)	ug/L	380000	10000	330000	10000	5200	200	7347981
Dissolved Selenium (Se)	ug/L	<100	100	<100	100	<2.0	2.0	7347981
Dissolved Silicon (Si)	ug/L	<2500	2500	3600	2500	6800	50	7347981
Dissolved Silver (Ag)	ug/L	<4.5	4.5	<4.5	4.5	<0.090	0.090	7347981
Dissolved Sodium (Na)	ug/L	27000000	5000	23000000	5000	390000	100	7347981
Dissolved Strontium (Sr)	ug/L	320000	50	250000	50	3800	1.0	7347981
Dissolved Tellurium (Te)	ug/L	<50	50	<50	50	<1.0	1.0	7347981
Dissolved Thallium (Tl)	ug/L	<2.5	2.5	<2.5	2.5	<0.050	0.050	7347981
Dissolved Tin (Sn)	ug/L	<50	50	<50	50	<1.0	1.0	7347981
Dissolved Titanium (Ti)	ug/L	<250	250	<250	250	<5.0	5.0	7347981
Dissolved Tungsten (W)	ug/L	<50	50	<50	50	<1.0	1.0	7347981
Dissolved Uranium (U)	ug/L	<5.0	5.0	<5.0	5.0	2.9	0.10	7347981
Dissolved Vanadium (V)	ug/L	<25	25	<25	25	<0.50	0.50	7347981
Dissolved Zinc (Zn)	ug/L	<250	250	<250	250	<5.0	5.0	7347981
Dissolved Zirconium (Zr)	ug/L	<50	50	<50	50	<1.0	1.0	7347981
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BUREAU
VERITAS

BV Labs Job #: C1C4981
Report Date: 2021/05/14

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: PNI983
Sample ID: 77-I
Matrix: Water

Collected: 2021/05/07
Shipped:
Received: 2021/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7348093	N/A	2021/05/13	Surinder Rai
Anions	IC	7346585	N/A	2021/05/12	Fari Dehdezi
Conductivity	AT	7348099	N/A	2021/05/13	Surinder Rai
Fluoride	ISE	7348083	2021/05/12	2021/05/13	Surinder Rai
Hardness (calculated as CaCO3)		7343433	N/A	2021/05/13	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7347981	N/A	2021/05/13	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7345916	N/A	2021/05/13	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7347899	N/A	2021/05/13	Chandra Nandlal
pH	AT	7348098	2021/05/12	2021/05/13	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7347058	N/A	2021/05/12	Bramdeo Motiram
Orthophosphate	KONE	7348101	N/A	2021/05/13	Avneet Kour Sudan
Total Dissolved Solids	BAL	7348676	2021/05/12	2021/05/13	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7345912	2021/05/11	2021/05/13	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7345974	N/A	2021/05/13	Nimarta Singh

BV Labs ID: PNI983 Dup
Sample ID: 77-I
Matrix: Water

Collected: 2021/05/07
Shipped:
Received: 2021/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7345916	N/A	2021/05/13	Amanpreet Sappal

BV Labs ID: PNI984
Sample ID: 77-II
Matrix: Water

Collected: 2021/05/07
Shipped:
Received: 2021/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7348093	N/A	2021/05/13	Surinder Rai
Anions	IC	7346585	N/A	2021/05/12	Fari Dehdezi
Conductivity	AT	7348099	N/A	2021/05/13	Surinder Rai
Fluoride	ISE	7348083	2021/05/12	2021/05/13	Surinder Rai
Hardness (calculated as CaCO3)		7343433	N/A	2021/05/13	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7347981	N/A	2021/05/13	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7345916	N/A	2021/05/13	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7347899	N/A	2021/05/13	Chandra Nandlal
pH	AT	7348098	2021/05/12	2021/05/13	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7347058	N/A	2021/05/12	Bramdeo Motiram
Orthophosphate	KONE	7348101	N/A	2021/05/13	Avneet Kour Sudan
Total Dissolved Solids	BAL	7348676	2021/05/12	2021/05/13	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7345862	2021/05/11	2021/05/13	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7345974	N/A	2021/05/13	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C1C4981
Report Date: 2021/05/14

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: PNI984 Dup
Sample ID: 77-II
Matrix: Water

Collected: 2021/05/07
Shipped:
Received: 2021/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7348093	N/A	2021/05/13	Surinder Rai
Conductivity	AT	7348099	N/A	2021/05/13	Surinder Rai
Fluoride	ISE	7348083	2021/05/12	2021/05/13	Surinder Rai
pH	AT	7348098	2021/05/12	2021/05/13	Surinder Rai

BV Labs ID: PNI985
Sample ID: 77-III
Matrix: Water

Collected: 2021/05/07
Shipped:
Received: 2021/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7348093	N/A	2021/05/13	Surinder Rai
Anions	IC	7346585	N/A	2021/05/12	Fari Dehdezi
Conductivity	AT	7348099	N/A	2021/05/13	Surinder Rai
Fluoride	ISE	7348083	2021/05/12	2021/05/13	Surinder Rai
Hardness (calculated as CaCO3)		7343433	N/A	2021/05/13	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7347981	N/A	2021/05/13	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7345922	N/A	2021/05/13	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7347899	N/A	2021/05/13	Chandra Nandlal
pH	AT	7348098	2021/05/12	2021/05/13	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7347058	N/A	2021/05/12	Bramdeo Motiram
Orthophosphate	KONE	7348101	N/A	2021/05/13	Avneet Kour Sudan
Total Dissolved Solids	BAL	7348676	2021/05/12	2021/05/13	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7345862	2021/05/11	2021/05/12	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7345974	N/A	2021/05/13	Nimarta Singh

BV Labs ID: PNI985 Dup
Sample ID: 77-III
Matrix: Water

Collected: 2021/05/07
Shipped:
Received: 2021/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7347899	N/A	2021/05/13	Chandra Nandlal



GENERAL COMMENTS

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

Package 1	3.3°C
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Sample PNI983 [77-I] : Nitrite/Nitrate: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

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

Sample PNI984 [77-II] : Nitrite/Nitrate: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

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

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C1C4981

Report Date: 2021/05/14

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
7345862	Total Kjeldahl Nitrogen (TKN)	2021/05/12	NC	80 - 120	92	80 - 120	<0.10	mg/L	10	20	92	80 - 120
7345912	Total Kjeldahl Nitrogen (TKN)	2021/05/12	104	80 - 120	98	80 - 120	<0.10	mg/L	5.9	20	95	80 - 120
7345916	Total Ammonia-N	2021/05/13	NC	75 - 125	98	80 - 120	<0.050	mg/L	0.16	20		
7345922	Total Ammonia-N	2021/05/13	100	75 - 125	98	80 - 120	<0.050	mg/L	NC	20		
7345974	Total Organic Carbon (TOC)	2021/05/13	99	80 - 120	96	80 - 120	<0.40	mg/L	0.86	20		
7346585	Dissolved Bromide (Br-)	2021/05/12	109	80 - 120	110	80 - 120	<1.0	mg/L	NC	20		
7346585	Dissolved Chloride (Cl-)	2021/05/12	NC	80 - 120	97	70 - 130	<1.0	mg/L	0.73	20		
7346585	Dissolved Sulphate (SO4)	2021/05/12	103	80 - 120	100	80 - 120	<1.0	mg/L	0.56	20		
7347058	Phenols-4AAP	2021/05/12	100	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20		
7347899	Nitrate (N)	2021/05/13	97	80 - 120	98	80 - 120	<0.10	mg/L	NC	20		
7347899	Nitrite (N)	2021/05/13	106	80 - 120	107	80 - 120	<0.010	mg/L	NC	20		
7347981	Dissolved Aluminum (Al)	2021/05/13	100	80 - 120	96	80 - 120	<4.9	ug/L				
7347981	Dissolved Antimony (Sb)	2021/05/13	109	80 - 120	104	80 - 120	<0.50	ug/L	NC	20		
7347981	Dissolved Arsenic (As)	2021/05/13	100	80 - 120	99	80 - 120	<1.0	ug/L	3.8	20		
7347981	Dissolved Barium (Ba)	2021/05/13	98	80 - 120	100	80 - 120	<2.0	ug/L	2.2	20		
7347981	Dissolved Beryllium (Be)	2021/05/13	101	80 - 120	102	80 - 120	<0.40	ug/L	NC	20		
7347981	Dissolved Bismuth (Bi)	2021/05/13	93	80 - 120	99	80 - 120	<1.0	ug/L				
7347981	Dissolved Boron (B)	2021/05/13	99	80 - 120	99	80 - 120	<10	ug/L	0.36	20		
7347981	Dissolved Cadmium (Cd)	2021/05/13	101	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7347981	Dissolved Calcium (Ca)	2021/05/13	NC	80 - 120	98	80 - 120	<200	ug/L				
7347981	Dissolved Chromium (Cr)	2021/05/13	103	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
7347981	Dissolved Cobalt (Co)	2021/05/13	99	80 - 120	98	80 - 120	<0.50	ug/L	0.51	20		
7347981	Dissolved Copper (Cu)	2021/05/13	105	80 - 120	100	80 - 120	<0.90	ug/L	0.90	20		
7347981	Dissolved Iron (Fe)	2021/05/13	97	80 - 120	97	80 - 120	<100	ug/L				
7347981	Dissolved Lead (Pb)	2021/05/13	94	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7347981	Dissolved Lithium (Li)	2021/05/13	103	80 - 120	105	80 - 120	<5.0	ug/L				
7347981	Dissolved Magnesium (Mg)	2021/05/13	100	80 - 120	98	80 - 120	<50	ug/L				
7347981	Dissolved Manganese (Mn)	2021/05/13	NC	80 - 120	98	80 - 120	<2.0	ug/L				
7347981	Dissolved Molybdenum (Mo)	2021/05/13	110	80 - 120	102	80 - 120	<0.50	ug/L	2.5	20		
7347981	Dissolved Nickel (Ni)	2021/05/13	95	80 - 120	96	80 - 120	<1.0	ug/L	0.85	20		
7347981	Dissolved Phosphorus (P)	2021/05/13	110	80 - 120	108	80 - 120	<100	ug/L				



BUREAU
VERITAS

BV Labs Job #: C1C4981
Report Date: 2021/05/14

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
7347981	Dissolved Potassium (K)	2021/05/13	104	80 - 120	100	80 - 120	<200	ug/L				
7347981	Dissolved Selenium (Se)	2021/05/13	98	80 - 120	100	80 - 120	<2.0	ug/L	NC	20		
7347981	Dissolved Silicon (Si)	2021/05/13	103	80 - 120	98	80 - 120	<50	ug/L				
7347981	Dissolved Silver (Ag)	2021/05/13	96	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		
7347981	Dissolved Sodium (Na)	2021/05/13	NC	80 - 120	98	80 - 120	<100	ug/L	2.2	20		
7347981	Dissolved Strontium (Sr)	2021/05/13	103	80 - 120	96	80 - 120	<1.0	ug/L				
7347981	Dissolved Tellurium (Te)	2021/05/13	100	80 - 120	97	80 - 120	<1.0	ug/L				
7347981	Dissolved Thallium (Tl)	2021/05/13	98	80 - 120	100	80 - 120	<0.050	ug/L	NC	20		
7347981	Dissolved Tin (Sn)	2021/05/13	106	80 - 120	104	80 - 120	<1.0	ug/L				
7347981	Dissolved Titanium (Ti)	2021/05/13	101	80 - 120	97	80 - 120	<5.0	ug/L				
7347981	Dissolved Tungsten (W)	2021/05/13	99	80 - 120	99	80 - 120	<1.0	ug/L				
7347981	Dissolved Uranium (U)	2021/05/13	99	80 - 120	99	80 - 120	<0.10	ug/L	1.1	20		
7347981	Dissolved Vanadium (V)	2021/05/13	101	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
7347981	Dissolved Zinc (Zn)	2021/05/13	96	80 - 120	99	80 - 120	<5.0	ug/L	3.1	20		
7347981	Dissolved Zirconium (Zr)	2021/05/13	106	80 - 120	98	80 - 120	<1.0	ug/L				
7348083	Fluoride (F-)	2021/05/13	12 (1)	80 - 120	100	80 - 120	<0.10	mg/L	2.9	20		
7348093	Alkalinity (Total as CaCO3)	2021/05/13			95	85 - 115	<1.0	mg/L	1.9	20		
7348098	pH	2021/05/13			102	98 - 103			0.24	N/A		
7348099	Conductivity	2021/05/13			100	85 - 115	<1.0	umho/cm	NC	25		
7348101	Orthophosphate (P)	2021/05/13	115	75 - 125	99	80 - 120	<0.010	mg/L	0.043	25		



BUREAU
VERITAS

BV Labs Job #: C1C4981

Report Date: 2021/05/14

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
7348676	Total Dissolved Solids	2021/05/13					<10	mg/L	10	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 #: C1C4981
Report Date: 2021/05/14

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).

A handwritten signature in black ink, appearing to read "B. Newman", written over a horizontal line.

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		P.O. #:		Bottle Order #:	
Address: 65 Green Mountain Rd West		Address:		Project: GW		819873	
Stoney Creek ON L8J 1X5		Address:		Project Name: GW		COC #:	
Tel: (905) 561-0305 Fax: (905) 561-1674		Tel:		Site #:		Project Manager:	
Email: kbailey@terrapureenv.com		Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		Sampled By:		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			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					Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)			
<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					# of Bottles: _____ Comments: _____			
<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 _____								
			<input type="checkbox"/> Other _____									
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	Lead-Ar GW Monitoring	Lead-Pb GW Monitoring	Copper-GW Monitoring				
1	77-I	May 7/21	AM	GW	Y	X			6			
2	77-II	↓	↓	↓	Y	X			6			
3	77-III	↓	↓	↓	Y	X			6			
4												
5												
6												
7												
8												
9												
10												

10-May-21 15:35
Jolanta Goralczyk
C1C4981

DSG ENV-1185

* RELINQUISHED BY: (Signature/Print) Don Taylor		Date: (YY/MM/DD) 21/05/10	Time AM	RECEIVED BY: (Signature/Print) Jolanta Goralczyk		Date: (YY/MM/DD) 20/05/10	Time 15:35	# jars used and not submitted	Laboratory Use Only			
								Time Sensitive	Temperature (°C) on Receiving	Custody Seal Present	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.
SAMPLER MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS
White: BV Labs Yellow: Client



Your Project #: COMPLIANCE
 Site Location: STELCO
 Your C.O.C. #: 808571-32-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2022/01/10
 Report #: R6956209
 Version: 3 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C1D9128

Received: 2021/05/21, 15:40

Sample Matrix: Soil
 # Samples Received: 7

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Cyanide (WAD) in Leachates	7	N/A	2021/05/26	CAM SOP-00457	OMOE 3015 m
Fluoride by ISE in Leachates	7	2021/05/26	2021/05/27	CAM SOP-00449	SM 23 4500-F- C m
Total Metals in TCLP Leachate by ICPMS	1	2021/05/26	2021/05/26	CAM SOP-00447	EPA 6020B m
Total Metals in TCLP Leachate by ICPMS	6	2021/05/26	2021/05/27	CAM SOP-00447	EPA 6020B m
Nitrate& Nitrite as Nitrogen in Leachate	7	N/A	2021/05/27	CAM SOP-00440	SM 23 4500-NO3I/NO2B
TCLP - % Solids	7	2021/05/25	2021/05/26	CAM SOP-00401	EPA 1311 Update I m
TCLP - Extraction Fluid	7	N/A	2021/05/26	CAM SOP-00401	EPA 1311 Update I m
TCLP - Initial and final pH	7	N/A	2021/05/26	CAM SOP-00401	EPA 1311 Update I m
TCLP Zero Headspace Extraction	6	2021/05/25	2021/05/26	CAM SOP-00430	EPA 1311 m
TCLP Zero Headspace Extraction	1	2021/05/26	2021/05/26	CAM SOP-00430	EPA 1311 m
VOCs in ZHE Leachates	6	2021/05/26	2021/05/26	CAM SOP-00228	EPA 8260C m
VOCs in ZHE Leachates	1	2021/05/26	2021/05/27	CAM SOP-00228	EPA 8260C 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.

Encryption Key

Jolanta Goralczyk
 Project Manager
 10 Jan 2022 17:09:28

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

=====
 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

Bureau Veritas Job #: C1D9128
Report Date: 2022/01/10

Terrapure Environmental
Client Project #: COMPLIANCE
Site Location: STELCO
Sampler Initials: DT

O.REG 558 TCLP INORGANICS PACKAGE (SOIL)

Bureau Veritas ID		PQG831		PQG832	PQG832		
Sampling Date		2021/05/20		2021/05/20	2021/05/20		
COC Number		808571-32-01		808571-32-01	808571-32-01		
	UNITS	BREAKER BUILDING SOUTH	QC Batch	CM57	CM57 Lab-Dup	RDL	QC Batch
Inorganics							
Leachable Fluoride (F-)	mg/L	1.2	7371830	1.4	1.4	0.10	7371732
Leachable WAD Cyanide (Free)	mg/L	<0.010	7371856	<0.010	<0.010	0.010	7371735
Leachable Nitrite (N)	mg/L	<0.10	7371841	<0.10	<0.10	0.10	7371736
Leachable Nitrate (N)	mg/L	<1.0	7371841	<1.0	<1.0	1.0	7371736
Leachable Nitrate + Nitrite (N)	mg/L	<1.0	7371841	<1.0	<1.0	1.0	7371736
Metals							
Leachable Arsenic (As)	mg/L	<0.2	7372218	<0.2	<0.2	0.2	7371996
Leachable Barium (Ba)	mg/L	0.2	7372218	<0.2	<0.2	0.2	7371996
Leachable Boron (B)	mg/L	0.2	7372218	0.5	0.5	0.1	7371996
Leachable Cadmium (Cd)	mg/L	<0.05	7372218	<0.05	<0.05	0.05	7371996
Leachable Chromium (Cr)	mg/L	<0.1	7372218	<0.1	<0.1	0.1	7371996
Leachable Lead (Pb)	mg/L	<0.1	7372218	<0.1	<0.1	0.1	7371996
Leachable Mercury (Hg)	mg/L	<0.001	7372218	<0.001	<0.001	0.001	7371996
Leachable Selenium (Se)	mg/L	<0.1	7372218	<0.1	<0.1	0.1	7371996
Leachable Silver (Ag)	mg/L	<0.01	7372218	<0.01	<0.01	0.01	7371996
Leachable Uranium (U)	mg/L	<0.01	7372218	<0.01	<0.01	0.01	7371996
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							



BUREAU
VERITAS

Bureau Veritas Job #: C1D9128
Report Date: 2022/01/10

Terrapure Environmental
Client Project #: COMPLIANCE
Site Location: STELCO
Sampler Initials: DT

O.REG 558 TCLP INORGANICS PACKAGE (SOIL)

Bureau Veritas ID		PQG833	PQG834	PQG835	PQG836		
Sampling Date		2021/05/20	2021/05/20	2021/05/20	2021/05/20		
COC Number		808571-32-01	808571-32-01	808571-32-01	808571-32-01		
	UNITS	BREAKER BUILDING MID	LOADING DOCK SW	LOADING DOCK MID	LOADING DOCK NW	RDL	QC Batch
Inorganics							
Leachable Fluoride (F-)	mg/L	0.55	1.0	1.3	1.0	0.10	7371830
Leachable WAD Cyanide (Free)	mg/L	<0.010	<0.010	<0.010	<0.010	0.010	7371856
Leachable Nitrite (N)	mg/L	<0.10	<0.10	<0.10	<0.10	0.10	7371841
Leachable Nitrate (N)	mg/L	2.0	<1.0	<1.0	<1.0	1.0	7371841
Leachable Nitrate + Nitrite (N)	mg/L	2.0	<1.0	<1.0	<1.0	1.0	7371841
Metals							
Leachable Arsenic (As)	mg/L	<0.2	<0.2	<0.2	<0.2	0.2	7372218
Leachable Barium (Ba)	mg/L	<0.2	0.3	<0.2	0.3	0.2	7372218
Leachable Boron (B)	mg/L	0.2	0.2	0.3	0.3	0.1	7372218
Leachable Cadmium (Cd)	mg/L	<0.05	<0.05	<0.05	<0.05	0.05	7372218
Leachable Chromium (Cr)	mg/L	<0.1	<0.1	<0.1	<0.1	0.1	7372218
Leachable Lead (Pb)	mg/L	<0.1	<0.1	<0.1	<0.1	0.1	7372218
Leachable Mercury (Hg)	mg/L	<0.001	<0.001	<0.001	<0.001	0.001	7372218
Leachable Selenium (Se)	mg/L	<0.1	<0.1	<0.1	<0.1	0.1	7372218
Leachable Silver (Ag)	mg/L	<0.01	<0.01	<0.01	<0.01	0.01	7372218
Leachable Uranium (U)	mg/L	<0.01	<0.01	<0.01	<0.01	0.01	7372218
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							



BUREAU
VERITAS

Bureau Veritas Job #: C1D9128
Report Date: 2022/01/10

Terrapure Environmental
Client Project #: COMPLIANCE
Site Location: STELCO
Sampler Initials: DT

O.REG 558 TCLP INORGANICS PACKAGE (SOIL)

Bureau Veritas ID		PQG837		
Sampling Date		2021/05/20		
COC Number		808571-32-01		
	UNITS	BREAKER BUILDING NORTH	RDL	QC Batch
Inorganics				
Leachable Fluoride (F-)	mg/L	1.0	0.10	7371830
Leachable WAD Cyanide (Free)	mg/L	<0.010	0.010	7371856
Leachable Nitrite (N)	mg/L	<0.10	0.10	7371841
Leachable Nitrate (N)	mg/L	11	1.0	7371841
Leachable Nitrate + Nitrite (N)	mg/L	11	1.0	7371841
Metals				
Leachable Arsenic (As)	mg/L	<0.2	0.2	7372218
Leachable Barium (Ba)	mg/L	0.2	0.2	7372218
Leachable Boron (B)	mg/L	0.2	0.1	7372218
Leachable Cadmium (Cd)	mg/L	<0.05	0.05	7372218
Leachable Chromium (Cr)	mg/L	<0.1	0.1	7372218
Leachable Lead (Pb)	mg/L	<0.1	0.1	7372218
Leachable Mercury (Hg)	mg/L	<0.001	0.001	7372218
Leachable Selenium (Se)	mg/L	<0.1	0.1	7372218
Leachable Silver (Ag)	mg/L	<0.01	0.01	7372218
Leachable Uranium (U)	mg/L	<0.01	0.01	7372218
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

Bureau Veritas Job #: C1D9128
Report Date: 2022/01/10

Terrapure Environmental
Client Project #: COMPLIANCE
Site Location: STELCO
Sampler Initials: DT

TCLP LEACHATE PREPARATION (SOIL)

Bureau Veritas ID		PQG831	PQG832	PQG832	PQG833		
Sampling Date		2021/05/20	2021/05/20	2021/05/20	2021/05/20		
COC Number		808571-32-01	808571-32-01	808571-32-01	808571-32-01		
	UNITS	BREAKER BUILDING SOUTH	CM57	CM57 Lab-Dup	BREAKER BUILDING MID	RDL	QC Batch
Inorganics							
Final pH	pH	6.86	6.66	6.62	6.92		7370325
Initial pH	pH	9.42	9.91	9.40	9.72		7370325
TCLP - % Solids	%	100	100	100	100	0.2	7370323
TCLP Extraction Fluid	N/A	FLUID 1	FLUID 1	FLUID 1	FLUID 1		7370324
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate							

Bureau Veritas ID		PQG834	PQG835	PQG836	PQG837		
Sampling Date		2021/05/20	2021/05/20	2021/05/20	2021/05/20		
COC Number		808571-32-01	808571-32-01	808571-32-01	808571-32-01		
	UNITS	LOADING DOCK SW	LOADING DOCK MID	LOADING DOCK NW	BREAKER BUILDING NORTH	RDL	QC Batch
Inorganics							
Final pH	pH	6.64	6.97	6.64	6.43		7370325
Initial pH	pH	9.25	9.48	9.44	8.96		7370325
TCLP - % Solids	%	100	100	100	100	0.2	7370323
TCLP Extraction Fluid	N/A	FLUID 1	FLUID 1	FLUID 1	FLUID 1		7370324
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							



BUREAU
VERITAS

Bureau Veritas Job #: C1D9128
Report Date: 2022/01/10

Terrapure Environmental
Client Project #: COMPLIANCE
Site Location: STELCO
Sampler Initials: DT

O.REG 558 TCLP VOCS BY HS (SOIL)

Bureau Veritas ID		PQG831	PQG832	PQG833		
Sampling Date		2021/05/20	2021/05/20	2021/05/20		
COC Number		808571-32-01	808571-32-01	808571-32-01		
	UNITS	BREAKER BUILDING SOUTH	CM57	BREAKER BUILDING MID	RDL	QC Batch
Charge/Prep Analysis						
Amount Extracted (Wet Weight) (g)	N/A	23	23	23	N/A	7369318
Volatile Organics						
Leachable Benzene	mg/L	<0.020	<0.020	<0.020	0.020	7371253
Leachable Carbon Tetrachloride	mg/L	<0.020	<0.020	<0.020	0.020	7371253
Leachable Chlorobenzene	mg/L	<0.020	<0.020	<0.020	0.020	7371253
Leachable Chloroform	mg/L	<0.020	<0.020	<0.020	0.020	7371253
Leachable 1,2-Dichlorobenzene	mg/L	<0.050	<0.050	<0.050	0.050	7371253
Leachable 1,4-Dichlorobenzene	mg/L	<0.050	<0.050	<0.050	0.050	7371253
Leachable 1,2-Dichloroethane	mg/L	<0.050	<0.050	<0.050	0.050	7371253
Leachable 1,1-Dichloroethylene	mg/L	<0.020	<0.020	<0.020	0.020	7371253
Leachable Methylene Chloride(Dichloromethane)	mg/L	<0.20	<0.20	<0.20	0.20	7371253
Leachable Methyl Ethyl Ketone (2-Butanone)	mg/L	<1.0	<1.0	<1.0	1.0	7371253
Leachable Tetrachloroethylene	mg/L	<0.020	<0.020	<0.020	0.020	7371253
Leachable Trichloroethylene	mg/L	<0.020	<0.020	<0.020	0.020	7371253
Leachable Vinyl Chloride	mg/L	<0.020	<0.020	<0.020	0.020	7371253
Surrogate Recovery (%)						
Leachable 4-Bromofluorobenzene	%	92	93	92		7371253
Leachable D4-1,2-Dichloroethane	%	108	110	108		7371253
Leachable D8-Toluene	%	96	95	96		7371253
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable						



BUREAU
VERITAS

Bureau Veritas Job #: C1D9128
Report Date: 2022/01/10

Terrapure Environmental
Client Project #: COMPLIANCE
Site Location: STELCO
Sampler Initials: DT

O.REG 558 TCLP VOCs BY HS (SOIL)

Bureau Veritas ID		PQG834		PQG835	PQG836		
Sampling Date		2021/05/20		2021/05/20	2021/05/20		
COC Number		808571-32-01		808571-32-01	808571-32-01		
	UNITS	LOADING DOCK SW	QC Batch	LOADING DOCK MID	LOADING DOCK NW	RDL	QC Batch
Charge/Prep Analysis							
Amount Extracted (Wet Weight) (g)	N/A	23	7371723	25	25	N/A	7369318
Volatile Organics							
Leachable Benzene	mg/L	<0.020	7373863	<0.020	<0.020	0.020	7371253
Leachable Carbon Tetrachloride	mg/L	<0.020	7373863	<0.020	<0.020	0.020	7371253
Leachable Chlorobenzene	mg/L	<0.020	7373863	<0.020	<0.020	0.020	7371253
Leachable Chloroform	mg/L	<0.020	7373863	<0.020	<0.020	0.020	7371253
Leachable 1,2-Dichlorobenzene	mg/L	<0.050	7373863	<0.050	<0.050	0.050	7371253
Leachable 1,4-Dichlorobenzene	mg/L	<0.050	7373863	<0.050	<0.050	0.050	7371253
Leachable 1,2-Dichloroethane	mg/L	<0.050	7373863	<0.050	<0.050	0.050	7371253
Leachable 1,1-Dichloroethylene	mg/L	<0.020	7373863	<0.020	<0.020	0.020	7371253
Leachable Methylene Chloride(Dichloromethane)	mg/L	<0.20	7373863	<0.20	<0.20	0.20	7371253
Leachable Methyl Ethyl Ketone (2-Butanone)	mg/L	<1.0	7373863	<1.0	<1.0	1.0	7371253
Leachable Tetrachloroethylene	mg/L	<0.020	7373863	<0.020	<0.020	0.020	7371253
Leachable Trichloroethylene	mg/L	<0.020	7373863	<0.020	<0.020	0.020	7371253
Leachable Vinyl Chloride	mg/L	<0.020	7373863	<0.020	<0.020	0.020	7371253
Surrogate Recovery (%)							
Leachable 4-Bromofluorobenzene	%	96	7373863	91	92		7371253
Leachable D4-1,2-Dichloroethane	%	95	7373863	106	107		7371253
Leachable D8-Toluene	%	98	7373863	97	96		7371253
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable							



O.REG 558 TCLP VOCS BY HS (SOIL)

Bureau Veritas ID		PQG837		
Sampling Date		2021/05/20		
COC Number		808571-32-01		
	UNITS	BREAKER BUILDING NORTH	RDL	QC Batch
Charge/Prep Analysis				
Amount Extracted (Wet Weight) (g)	N/A	25	N/A	7369318
Volatile Organics				
Leachable Benzene	mg/L	<0.020	0.020	7371253
Leachable Carbon Tetrachloride	mg/L	<0.020	0.020	7371253
Leachable Chlorobenzene	mg/L	<0.020	0.020	7371253
Leachable Chloroform	mg/L	<0.020	0.020	7371253
Leachable 1,2-Dichlorobenzene	mg/L	<0.050	0.050	7371253
Leachable 1,4-Dichlorobenzene	mg/L	<0.050	0.050	7371253
Leachable 1,2-Dichloroethane	mg/L	<0.050	0.050	7371253
Leachable 1,1-Dichloroethylene	mg/L	<0.020	0.020	7371253
Leachable Methylene Chloride(Dichloromethane)	mg/L	<0.20	0.20	7371253
Leachable Methyl Ethyl Ketone (2-Butanone)	mg/L	<1.0	1.0	7371253
Leachable Tetrachloroethylene	mg/L	<0.020	0.020	7371253
Leachable Trichloroethylene	mg/L	<0.020	0.020	7371253
Leachable Vinyl Chloride	mg/L	<0.020	0.020	7371253
Surrogate Recovery (%)				
Leachable 4-Bromofluorobenzene	%	91		7371253
Leachable D4-1,2-Dichloroethane	%	106		7371253
Leachable D8-Toluene	%	96		7371253
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable				



BUREAU
VERITAS

Bureau Veritas Job #: C1D9128
Report Date: 2022/01/10

Terrapure Environmental
Client Project #: COMPLIANCE
Site Location: STELCO
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: PQG831
Sample ID: BREAKER BUILDING SOUTH
Matrix: Soil

Collected: 2021/05/20
Shipped:
Received: 2021/05/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Cyanide (WAD) in Leachates	SKAL/CN	7371856	N/A	2021/05/26	Louise Harding
Fluoride by ISE in Leachates	ISE	7371830	2021/05/26	2021/05/27	Surinder Rai
Total Metals in TCLP Leachate by ICPMS	ICP1/MS	7372218	2021/05/26	2021/05/27	Arefa Dabhad
Nitrate& Nitrite as Nitrogen in Leachate	LACH	7371841	N/A	2021/05/27	Chandra Nandlal
TCLP - % Solids	BAL	7370323	2021/05/25	2021/05/26	Jian (Ken) Wang
TCLP - Extraction Fluid		7370324	N/A	2021/05/26	Jian (Ken) Wang
TCLP - Initial and final pH	PH	7370325	N/A	2021/05/26	Jian (Ken) Wang
TCLP Zero Headspace Extraction		7369318	2021/05/25	2021/05/26	Daruish Karimi
VOCs in ZHE Leachates	GC/MS	7371253	2021/05/26	2021/05/26	Blair Gannon

Bureau Veritas ID: PQG832
Sample ID: CM57
Matrix: Soil

Collected: 2021/05/20
Shipped:
Received: 2021/05/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Cyanide (WAD) in Leachates	SKAL/CN	7371735	N/A	2021/05/26	Louise Harding
Fluoride by ISE in Leachates	ISE	7371732	2021/05/26	2021/05/27	Surinder Rai
Total Metals in TCLP Leachate by ICPMS	ICP1/MS	7371996	2021/05/26	2021/05/26	Azita Fazaeli
Nitrate& Nitrite as Nitrogen in Leachate	LACH	7371736	N/A	2021/05/27	Chandra Nandlal
TCLP - % Solids	BAL	7370323	2021/05/25	2021/05/26	Jian (Ken) Wang
TCLP - Extraction Fluid		7370324	N/A	2021/05/26	Jian (Ken) Wang
TCLP - Initial and final pH	PH	7370325	N/A	2021/05/26	Jian (Ken) Wang
TCLP Zero Headspace Extraction		7369318	2021/05/25	2021/05/26	Daruish Karimi
VOCs in ZHE Leachates	GC/MS	7371253	2021/05/26	2021/05/26	Blair Gannon

Bureau Veritas ID: PQG832 Dup
Sample ID: CM57
Matrix: Soil

Collected: 2021/05/20
Shipped:
Received: 2021/05/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Cyanide (WAD) in Leachates	SKAL/CN	7371735	N/A	2021/05/26	Louise Harding
Fluoride by ISE in Leachates	ISE	7371732	2021/05/26	2021/05/27	Surinder Rai
Total Metals in TCLP Leachate by ICPMS	ICP1/MS	7371996	2021/05/26	2021/05/26	Azita Fazaeli
Nitrate& Nitrite as Nitrogen in Leachate	LACH	7371736	N/A	2021/05/27	Chandra Nandlal
TCLP - % Solids	BAL	7370323	2021/05/25	2021/05/26	Jian (Ken) Wang
TCLP - Extraction Fluid		7370324	N/A	2021/05/26	Jian (Ken) Wang
TCLP - Initial and final pH	PH	7370325	N/A	2021/05/26	Jian (Ken) Wang

Bureau Veritas ID: PQG833
Sample ID: BREAKER BUILDING MID
Matrix: Soil

Collected: 2021/05/20
Shipped:
Received: 2021/05/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Cyanide (WAD) in Leachates	SKAL/CN	7371856	N/A	2021/05/26	Louise Harding



BUREAU
VERITAS

Bureau Veritas Job #: C1D9128
Report Date: 2022/01/10

Terrapure Environmental
Client Project #: COMPLIANCE
Site Location: STELCO
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: PQG833
Sample ID: BREAKER BUILDING MID
Matrix: Soil

Collected: 2021/05/20
Shipped:
Received: 2021/05/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Fluoride by ISE in Leachates	ISE	7371830	2021/05/26	2021/05/27	Surinder Rai
Total Metals in TCLP Leachate by ICPMS	ICP1/MS	7372218	2021/05/26	2021/05/27	Arefa Dabhad
Nitrate& Nitrite as Nitrogen in Leachate	LACH	7371841	N/A	2021/05/27	Chandra Nandlal
TCLP - % Solids	BAL	7370323	2021/05/25	2021/05/26	Jian (Ken) Wang
TCLP - Extraction Fluid		7370324	N/A	2021/05/26	Jian (Ken) Wang
TCLP - Initial and final pH	PH	7370325	N/A	2021/05/26	Jian (Ken) Wang
TCLP Zero Headspace Extraction		7369318	2021/05/25	2021/05/26	Daruish Karimi
VOCs in ZHE Leachates	GC/MS	7371253	2021/05/26	2021/05/26	Blair Gannon

Bureau Veritas ID: PQG834
Sample ID: LOADING DOCK SW
Matrix: Soil

Collected: 2021/05/20
Shipped:
Received: 2021/05/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Cyanide (WAD) in Leachates	SKAL/CN	7371856	N/A	2021/05/26	Louise Harding
Fluoride by ISE in Leachates	ISE	7371830	2021/05/26	2021/05/27	Surinder Rai
Total Metals in TCLP Leachate by ICPMS	ICP1/MS	7372218	2021/05/26	2021/05/27	Arefa Dabhad
Nitrate& Nitrite as Nitrogen in Leachate	LACH	7371841	N/A	2021/05/27	Chandra Nandlal
TCLP - % Solids	BAL	7370323	2021/05/25	2021/05/26	Jian (Ken) Wang
TCLP - Extraction Fluid		7370324	N/A	2021/05/26	Jian (Ken) Wang
TCLP - Initial and final pH	PH	7370325	N/A	2021/05/26	Jian (Ken) Wang
TCLP Zero Headspace Extraction		7371723	2021/05/26	2021/05/26	Jared King
VOCs in ZHE Leachates	GC/MS	7373863	2021/05/26	2021/05/27	Juan Pangilinan

Bureau Veritas ID: PQG835
Sample ID: LOADING DOCK MID
Matrix: Soil

Collected: 2021/05/20
Shipped:
Received: 2021/05/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Cyanide (WAD) in Leachates	SKAL/CN	7371856	N/A	2021/05/26	Louise Harding
Fluoride by ISE in Leachates	ISE	7371830	2021/05/26	2021/05/27	Surinder Rai
Total Metals in TCLP Leachate by ICPMS	ICP1/MS	7372218	2021/05/26	2021/05/27	Arefa Dabhad
Nitrate& Nitrite as Nitrogen in Leachate	LACH	7371841	N/A	2021/05/27	Chandra Nandlal
TCLP - % Solids	BAL	7370323	2021/05/25	2021/05/26	Jian (Ken) Wang
TCLP - Extraction Fluid		7370324	N/A	2021/05/26	Jian (Ken) Wang
TCLP - Initial and final pH	PH	7370325	N/A	2021/05/26	Jian (Ken) Wang
TCLP Zero Headspace Extraction		7369318	2021/05/25	2021/05/26	Daruish Karimi
VOCs in ZHE Leachates	GC/MS	7371253	2021/05/26	2021/05/26	Blair Gannon



BUREAU
VERITAS

Bureau Veritas Job #: C1D9128
Report Date: 2022/01/10

Terrapure Environmental
Client Project #: COMPLIANCE
Site Location: STELCO
Sampler Initials: DT

TEST SUMMARY

Bureau Veritas ID: PQG836
Sample ID: LOADING DOCK NW
Matrix: Soil

Collected: 2021/05/20
Shipped:
Received: 2021/05/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Cyanide (WAD) in Leachates	SKAL/CN	7371856	N/A	2021/05/26	Louise Harding
Fluoride by ISE in Leachates	ISE	7371830	2021/05/26	2021/05/27	Surinder Rai
Total Metals in TCLP Leachate by ICPMS	ICP1/MS	7372218	2021/05/26	2021/05/27	Arefa Dabhad
Nitrate& Nitrite as Nitrogen in Leachate	LACH	7371841	N/A	2021/05/27	Chandra Nandlal
TCLP - % Solids	BAL	7370323	2021/05/25	2021/05/26	Jian (Ken) Wang
TCLP - Extraction Fluid		7370324	N/A	2021/05/26	Jian (Ken) Wang
TCLP - Initial and final pH	PH	7370325	N/A	2021/05/26	Jian (Ken) Wang
TCLP Zero Headspace Extraction		7369318	2021/05/25	2021/05/26	Daruish Karimi
VOCs in ZHE Leachates	GC/MS	7371253	2021/05/26	2021/05/26	Blair Gannon

Bureau Veritas ID: PQG837
Sample ID: BREAKER BUILDING NORTH
Matrix: Soil

Collected: 2021/05/20
Shipped:
Received: 2021/05/21

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Cyanide (WAD) in Leachates	SKAL/CN	7371856	N/A	2021/05/26	Louise Harding
Fluoride by ISE in Leachates	ISE	7371830	2021/05/26	2021/05/27	Surinder Rai
Total Metals in TCLP Leachate by ICPMS	ICP1/MS	7372218	2021/05/26	2021/05/27	Arefa Dabhad
Nitrate& Nitrite as Nitrogen in Leachate	LACH	7371841	N/A	2021/05/27	Chandra Nandlal
TCLP - % Solids	BAL	7370323	2021/05/25	2021/05/26	Jian (Ken) Wang
TCLP - Extraction Fluid		7370324	N/A	2021/05/26	Jian (Ken) Wang
TCLP - Initial and final pH	PH	7370325	N/A	2021/05/26	Jian (Ken) Wang
TCLP Zero Headspace Extraction		7369318	2021/05/25	2021/05/26	Daruish Karimi
VOCs in ZHE Leachates	GC/MS	7371253	2021/05/26	2021/05/26	Blair Gannon



GENERAL COMMENTS

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

Package 1	7.3°C
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Revised Report (2022/01/10): EDD has been included with this report

Results relate only to the items tested.



BUREAU
VERITAS

Bureau Veritas Job #: C1D9128

Report Date: 2022/01/10

QUALITY ASSURANCE REPORT

Terrapure Environmental
Client Project #: COMPLIANCE
Site Location: STELCO
Sampler Initials: DT

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		Leachate Blank	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	Value	UNITS
7371253	Leachable 4-Bromofluorobenzene	2021/05/26	100	70 - 130	100	70 - 130	93	%				
7371253	Leachable D4-1,2-Dichloroethane	2021/05/26	101	70 - 130	103	70 - 130	107	%				
7371253	Leachable D8-Toluene	2021/05/26	104	70 - 130	103	70 - 130	96	%				
7373863	Leachable 4-Bromofluorobenzene	2021/05/27	98	70 - 130	98	70 - 130	97	%				
7373863	Leachable D4-1,2-Dichloroethane	2021/05/27	92	70 - 130	92	70 - 130	93	%				
7373863	Leachable D8-Toluene	2021/05/27	102	70 - 130	102	70 - 130	99	%				
7371253	Leachable 1,1-Dichloroethylene	2021/05/26	93	70 - 130	101	70 - 130	<0.020	mg/L	NC	30		
7371253	Leachable 1,2-Dichlorobenzene	2021/05/26	90	70 - 130	101	70 - 130	<0.050	mg/L	NC	30		
7371253	Leachable 1,2-Dichloroethane	2021/05/26	88	70 - 130	101	70 - 130	<0.050	mg/L	NC	30		
7371253	Leachable 1,4-Dichlorobenzene	2021/05/26	104	70 - 130	114	70 - 130	<0.050	mg/L	NC	30		
7371253	Leachable Benzene	2021/05/26	88	70 - 130	97	70 - 130	<0.020	mg/L	NC	30		
7371253	Leachable Carbon Tetrachloride	2021/05/26	96	70 - 130	105	70 - 130	<0.020	mg/L	NC	30		
7371253	Leachable Chlorobenzene	2021/05/26	93	70 - 130	102	70 - 130	<0.020	mg/L	NC	30		
7371253	Leachable Chloroform	2021/05/26	94	70 - 130	104	70 - 130	<0.020	mg/L	NC	30		
7371253	Leachable Methyl Ethyl Ketone (2-Butanone)	2021/05/26	93	60 - 140	103	60 - 140	<1.0	mg/L	NC	30		
7371253	Leachable Methylene Chloride (Dichloromethane)	2021/05/26	91	70 - 130	103	70 - 130	<0.20	mg/L	NC	30		
7371253	Leachable Tetrachloroethylene	2021/05/26	89	70 - 130	97	70 - 130	<0.020	mg/L	NC	30		
7371253	Leachable Trichloroethylene	2021/05/26	98	70 - 130	108	70 - 130	<0.020	mg/L	NC	30		
7371253	Leachable Vinyl Chloride	2021/05/26	91	70 - 130	98	70 - 130	<0.020	mg/L	NC	30		
7371732	Leachable Fluoride (F-)	2021/05/27	94	80 - 120	103	80 - 120	<0.10	mg/L	1.4	25	<0.10	mg/L
7371735	Leachable WAD Cyanide (Free)	2021/05/26	89	80 - 120	100	80 - 120	<0.0020	mg/L	NC	20	<0.010	mg/L
7371736	Leachable Nitrate (N)	2021/05/27	101	80 - 120	106	80 - 120	<1.0	mg/L	NC	25	<1.0	mg/L
7371736	Leachable Nitrate + Nitrite (N)	2021/05/27	104	80 - 120	107	80 - 120	<1.0	mg/L	NC	25	<1.0	mg/L
7371736	Leachable Nitrite (N)	2021/05/27	117	80 - 120	108	80 - 120	<0.10	mg/L	NC	25	<0.10	mg/L
7371830	Leachable Fluoride (F-)	2021/05/27	98	80 - 120	104	80 - 120	<0.10	mg/L	18	25	<0.10	mg/L
7371841	Leachable Nitrate (N)	2021/05/27	103	80 - 120	103	80 - 120	<1.0	mg/L	NC	25	<1.0	mg/L
7371841	Leachable Nitrate + Nitrite (N)	2021/05/27	105	80 - 120	104	80 - 120	<1.0	mg/L	NC	25	<1.0	mg/L
7371841	Leachable Nitrite (N)	2021/05/27	116	80 - 120	106	80 - 120	<0.10	mg/L	NC	25	<0.10	mg/L
7371856	Leachable WAD Cyanide (Free)	2021/05/26	84	80 - 120	96	80 - 120	<0.0020	mg/L	NC	20	<0.010	mg/L
7371996	Leachable Arsenic (As)	2021/05/26	97	80 - 120	99	80 - 120	<0.2	mg/L	NC	35	<0.2	mg/L



BUREAU
VERITAS

Bureau Veritas Job #: C1D9128

Report Date: 2022/01/10

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: COMPLIANCE
Site Location: STELCO
Sampler Initials: DT

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		Leachate Blank	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	Value	UNITS
7371996	Leachable Barium (Ba)	2021/05/26	100	80 - 120	97	80 - 120	<0.2	mg/L	NC	35	<0.2	mg/L
7371996	Leachable Boron (B)	2021/05/26	NC	80 - 120	97	80 - 120	<0.1	mg/L	0.12	35	<0.1	mg/L
7371996	Leachable Cadmium (Cd)	2021/05/26	99	80 - 120	99	80 - 120	<0.05	mg/L	NC	35	<0.05	mg/L
7371996	Leachable Chromium (Cr)	2021/05/26	98	80 - 120	98	80 - 120	<0.1	mg/L	NC	35	<0.1	mg/L
7371996	Leachable Lead (Pb)	2021/05/26	94	80 - 120	96	80 - 120	<0.1	mg/L	NC	35	<0.1	mg/L
7371996	Leachable Mercury (Hg)	2021/05/26	101	80 - 120	96	80 - 120	<0.001	mg/L	NC	35	<0.001	mg/L
7371996	Leachable Selenium (Se)	2021/05/26	98	80 - 120	100	80 - 120	<0.1	mg/L	NC	35	<0.1	mg/L
7371996	Leachable Silver (Ag)	2021/05/26	96	80 - 120	99	80 - 120	<0.01	mg/L	NC	35	<0.01	mg/L
7371996	Leachable Uranium (U)	2021/05/26	98	80 - 120	96	80 - 120	<0.01	mg/L	NC	35	<0.01	mg/L
7372218	Leachable Arsenic (As)	2021/05/27	100	80 - 120	98	80 - 120	<0.2	mg/L	NC	35	<0.2	mg/L
7372218	Leachable Barium (Ba)	2021/05/27	NC	80 - 120	103	80 - 120	<0.2	mg/L	2.5	35	<0.2	mg/L
7372218	Leachable Boron (B)	2021/05/27	93	80 - 120	97	80 - 120	<0.1	mg/L	20	35	<0.1	mg/L
7372218	Leachable Cadmium (Cd)	2021/05/27	100	80 - 120	100	80 - 120	<0.05	mg/L	NC	35	<0.05	mg/L
7372218	Leachable Chromium (Cr)	2021/05/27	97	80 - 120	95	80 - 120	<0.1	mg/L	NC	35	<0.1	mg/L
7372218	Leachable Lead (Pb)	2021/05/27	93	80 - 120	94	80 - 120	<0.1	mg/L	NC	35	<0.1	mg/L
7372218	Leachable Mercury (Hg)	2021/05/27	99	80 - 120	103	80 - 120	<0.001	mg/L	NC	35	<0.001	mg/L
7372218	Leachable Selenium (Se)	2021/05/27	99	80 - 120	101	80 - 120	<0.1	mg/L	NC	35	<0.1	mg/L
7372218	Leachable Silver (Ag)	2021/05/27	93	80 - 120	94	80 - 120	<0.01	mg/L	NC	35	<0.01	mg/L
7372218	Leachable Uranium (U)	2021/05/27	92	80 - 120	92	80 - 120	<0.01	mg/L	NC	35	<0.01	mg/L
7373863	Leachable 1,1-Dichloroethylene	2021/05/27	93	70 - 130	94	70 - 130	<0.020	mg/L	NC	30		
7373863	Leachable 1,2-Dichlorobenzene	2021/05/27	90	70 - 130	91	70 - 130	<0.050	mg/L	NC	30		
7373863	Leachable 1,2-Dichloroethane	2021/05/27	84	70 - 130	85	70 - 130	<0.050	mg/L	NC	30		
7373863	Leachable 1,4-Dichlorobenzene	2021/05/27	105	70 - 130	106	70 - 130	<0.050	mg/L	NC	30		
7373863	Leachable Benzene	2021/05/27	90	70 - 130	90	70 - 130	<0.020	mg/L	NC	30		
7373863	Leachable Carbon Tetrachloride	2021/05/27	82	70 - 130	83	70 - 130	<0.020	mg/L	NC	30		
7373863	Leachable Chlorobenzene	2021/05/27	92	70 - 130	94	70 - 130	<0.020	mg/L	NC	30		
7373863	Leachable Chloroform	2021/05/27	88	70 - 130	90	70 - 130	<0.020	mg/L	NC	30		
7373863	Leachable Methyl Ethyl Ketone (2-Butanone)	2021/05/27	118	60 - 140	119	60 - 140	<1.0	mg/L	NC	30		
7373863	Leachable Methylene Chloride (Dichloromethane)	2021/05/27	92	70 - 130	91	70 - 130	<0.20	mg/L	NC	30		
7373863	Leachable Tetrachloroethylene	2021/05/27	81	70 - 130	83	70 - 130	<0.020	mg/L	NC	30		



BUREAU
VERITAS

Bureau Veritas Job #: C1D9128

Report Date: 2022/01/10

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: COMPLIANCE
Site Location: STELCO
Sampler Initials: DT

QC Batch	Parameter	Date	Matrix Spike		SPIKED BLANK		Method Blank		RPD		Leachate Blank	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	Value	UNITS
7373863	Leachable Trichloroethylene	2021/05/27	92	70 - 130	93	70 - 130	<0.020	mg/L	NC	30		
7373863	Leachable Vinyl Chloride	2021/05/27	93	70 - 130	94	70 - 130	<0.020	mg/L	NC	30		

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.

Leachate Blank: A blank matrix containing all reagents used in the leaching procedure. Used to determine any process contamination.

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).



BUREAU
VERITAS

Bureau Veritas Job #: C1D9128
Report Date: 2022/01/10

Terrapure Environmental
Client Project #: COMPLIANCE
Site Location: STELCO
Sampler Initials: DT

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist

Ewa Pranjić, 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

21-May-21 15:40

Jolanta Goralczyk
C1D9128

Page 1 of 1

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: <u>Compliance KSE ENV-637</u> Project Name: <u>Stelco</u> Site #: Sampled By:		Barcode Only: Bottle Order #: 808571 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: Please provide advance notice for rush projects		
Regulation 153 (2011)		Other Regulations		Special Instructions		Field Filtered (please circle): Metals / Hg / Cr VI											Regular (Standard) TAT: <small>(will be applied if Rush TAT is not specified)</small> Standard TAT = 5-7 Working days for most tests. <small>Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.</small>	
<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 checked="" 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	<input type="checkbox"/> Municipality														
<input type="checkbox"/> Table			<input type="checkbox"/> PWQO	<input type="checkbox"/> Reg 405 Table														
<input type="checkbox"/> Other																		
Include Criteria on Certificate of Analysis (Y/N)?																		
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix														
1	Breaker Building South	05/20/21	AM	Solid	NA	X	X										2	
2	CM57					X	X										2	
3	Breaker Building Mid					X	X										2	
4	Loading Dock SW					X	X										2	
5	Loading Dock Mid					X	X										2	
6	Loading Dock NW					X	X										2	
7	Breaker Building North					X	X										2	
8																		
9																		
10																		

* RELINQUISHED BY: (Signature/Print) <i>D. Taylor</i> Dan Taylor	Date: (YY/MM/DD) 21/05/21	Time AM	RECEIVED BY: (Signature/Print) <i>[Signature]</i>	Date: (YY/MM/DD) 2021/05/21	Time 15:40	# jars used and not submitted	Laboratory Use Only			Custody Seal	
							Time Sensitive	Temperature (°C) on Recept 15/12	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.

* 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

Bureau Veritas Canada (2019) Inc. *BV [Signature]*



Your Project #: EQ Leach
Your C.O.C. #: 827569-01-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/06/23
Report #: R6688736
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1G0945

Received: 2021/06/11, 16:57

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
ABN Compounds in Water by GC/MS	1	2021/06/22	2021/06/23	CAM SOP-00301	EPA 8270 m
Alkalinity	1	N/A	2021/06/16	CAM SOP-00448	SM 23 2320 B m
Anions	1	N/A	2021/06/15	CAM SOP-00435	SM 23 4110 B m
Biochemical Oxygen Demand (BOD)	1	2021/06/12	2021/06/17	CAM SOP-00427	SM 23 5210B m
Conductivity	1	N/A	2021/06/15	CAM SOP-00414	SM 23 2510 m
Fluoride	1	2021/06/14	2021/06/15	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	1	N/A	2021/06/17	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Calcium and Magnesium	1	2021/06/15	2021/06/16	CAM SOP-00408	EPA 6010D m
Total Metals Analysis by ICPMS	1	N/A	2021/06/16	CAM SOP-00447	EPA 6020B m
Resin and Fatty Acids (1)	1	2021/06/16	2021/06/17	STL SOP-00152	MA414-Aci-g-r-1.0R3m
Neutral Chlorinated in Water by GC/ECD	1	2021/06/15	2021/06/16	CAM SOP-00317	EPA 8121 m
Total Ammonia-N	1	N/A	2021/06/15	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (2)	1	N/A	2021/06/15	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Polychlorinated Biphenyl in Water	1	2021/06/14	2021/06/15	CAM SOP-00309	EPA 8082A m
pH	1	2021/06/14	2021/06/15	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	1	N/A	2021/06/15	CAM SOP-00444	OMOE E3179 m
Orthophosphate	1	N/A	2021/06/15	CAM SOP-00461	EPA 365.1 m
Total Kjeldahl Nitrogen in Water	1	2021/06/14	2021/06/15	CAM SOP-00938	OMOE E3516 m
Tot./Min./ Animal & Veg. Oil and Grease	1	2021/06/16	2021/06/16	CAM SOP-00326	EPA 821/R-98-002 m
Total Organic Carbon (TOC) (3)	1	N/A	2021/06/15	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric)	1	2021/06/15	2021/06/15	CAM SOP-00407	SM 23 4500 P B H m
Total Suspended Solids	1	2021/06/14	2021/06/15	CAM SOP-00428	SM 23 2540D m
Volatile Organic Compounds in Water	1	N/A	2021/06/17	CAM SOP-00226	EPA 8260C m
Non-Routine Volatile Organic Compounds	1	N/A	2021/06/17	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 Bureau Veritas 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. #: 827569-01-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/06/23
Report #: R6688736
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1G0945
Received: 2021/06/11, 16:57

Encryption Key



AUTHORIZED REPORT
RAPPORT AUTORISÉ

Bureau Veritas
23 Jun 2021 13:53:22

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 #: C1G0945
Report Date: 2021/06/23

Terrapure Environmental
Client Project #: EQ Leach
Sampler Initials: DT

MISA ATG 19 & 20 (ABNS)

BV Labs ID		PUV679		
Sampling Date		2021/06/11		
COC Number		827569-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
Semivolatile Organics				
Acenaphthene	ug/L	<8.0	8.0	7422968
Acenaphthylene	ug/L	<8.0	8.0	7422968
Anthracene	ug/L	<8.0	8.0	7422968
Benzo(a)anthracene	ug/L	<8.0	8.0	7422968
Benzo(a)pyrene	ug/L	<8.0	8.0	7422968
Benzo(b/j)fluoranthene	ug/L	<8.0	8.0	7422968
Benzo(g,h,i)perylene	ug/L	<8.0	8.0	7422968
Benzo(k)fluoranthene	ug/L	<8.0	8.0	7422968
1-Chloronaphthalene	ug/L	<40	40	7422968
2-Chloronaphthalene	ug/L	<20	20	7422968
Chrysene	ug/L	<8.0	8.0	7422968
Dibenzo(a,h)anthracene	ug/L	<8.0	8.0	7422968
Fluoranthene	ug/L	<8.0	8.0	7422968
Fluorene	ug/L	<8.0	8.0	7422968
Indeno(1,2,3-cd)pyrene	ug/L	<8.0	8.0	7422968
1-Methylnaphthalene	ug/L	<8.0	8.0	7422968
2-Methylnaphthalene	ug/L	<8.0	8.0	7422968
Naphthalene	ug/L	<18 (1)	18	7422968
5-Nitroacenaphthene	ug/L	<40	40	7422968
Perylene	ug/L	<8.0	8.0	7422968
Phenanthrene	ug/L	<8.0	8.0	7422968
Pyrene	ug/L	<8.0	8.0	7422968
2-Chlorophenol	ug/L	<12	12	7422968
4-Chloro-3-Methylphenol	ug/L	<40 (1)	40	7422968
m/p-Cresol	ug/L	140	20	7422968
o-Cresol	ug/L	26	20	7422968
2,4-Dichlorophenol	ug/L	<12	12	7422968
2,6-Dichlorophenol	ug/L	<20	20	7422968
2,4-Dimethylphenol	ug/L	57	20	7422968
2,4-Dinitrophenol	ug/L	<80	80	7422968
4,6-Dinitro-2-methylphenol	ug/L	<80	80	7422968
4-Nitrophenol	ug/L	<56	56	7422968
Pentachlorophenol	ug/L	<40	40	7422968
Phenol	ug/L	60	20	7422968
2,3,4,5-Tetrachlorophenol	ug/L	<16	16	7422968
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Detection limit was raised due to matrix interference.				



BUREAU
VERITAS

BV Labs Job #: C1G0945
Report Date: 2021/06/23

Terrapure Environmental
Client Project #: EQ Leach
Sampler Initials: DT

MISA ATG 19 & 20 (ABNS)

BV Labs ID		PUV679		
Sampling Date		2021/06/11		
COC Number		827569-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
2,3,4,6-Tetrachlorophenol	ug/L	<20	20	7422968
2,3,5,6-Tetrachlorophenol	ug/L	<20	20	7422968
2,3,4-Trichlorophenol	ug/L	<20	20	7422968
2,3,5-Trichlorophenol	ug/L	<20	20	7422968
2,4,5-Trichlorophenol	ug/L	<20	20	7422968
2,4,6-Trichlorophenol	ug/L	<20	20	7422968
Benzyl butyl phthalate	ug/L	<20	20	7422968
Biphenyl	ug/L	<20	20	7422968
Bis(2-chloroethyl)ether	ug/L	<20	20	7422968
Bis(2-chloroethoxy)methane	ug/L	<20	20	7422968
Bis(2-chloroisopropyl)ether	ug/L	<20	20	7422968
Bis(2-ethylhexyl)phthalate	ug/L	<80	80	7422968
4-Bromophenyl phenyl ether	ug/L	<12	12	7422968
Camphene	ug/L	<40	40	7422968
4-Chlorophenyl phenyl ether	ug/L	<20	20	7422968
Di-N-butyl phthalate	ug/L	<80	80	7422968
di-n-octyl phthalate	ug/L	<32	32	7422968
2,4-Dinitrotoluene	ug/L	<20	20	7422968
2,6-Dinitrotoluene	ug/L	<20	20	7422968
Diphenyl Ether	ug/L	<12	12	7422968
Indole	ug/L	<40	40	7422968
Nitrosodiphenylamine/Diphenylamine	ug/L	<40	40	7422968
N-Nitroso-di-n-propylamine	ug/L	<20	20	7422968
Surrogate Recovery (%)				
2,4,6-Tribromophenol	%	88		7422968
2-Fluorobiphenyl	%	66		7422968
2-Fluorophenol	%	31		7422968
D14-Terphenyl	%	85		7422968
D5-Nitrobenzene	%	72		7422968
D5-Phenol	%	24		7422968
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



MISA ATG23 NEUTRAL CHLORINATED COMPOUNDS (WATER)

BV Labs ID		PUV679		
Sampling Date		2021/06/11		
COC Number		827569-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
Pesticides & Herbicides				
1,2,3,4-Tetrachlorobenzene	ug/L	<0.10	0.10	7408153
1,2,3,5-Tetrachlorobenzene	ug/L	<0.10	0.10	7408153
1,2,3-Trichlorobenzene	ug/L	<0.10	0.10	7408153
1,2,4,5-Tetrachlorobenzene	ug/L	<0.10	0.10	7408153
1,2,4-Trichlorobenzene	ug/L	<0.10	0.10	7408153
2,4,5-Trichlorotoluene	ug/L	<0.10	0.10	7408153
Hexachlorobenzene	ug/L	<0.10	0.10	7408153
Hexachlorobutadiene	ug/L	<0.090	0.090	7408153
Hexachlorocyclopentadiene	ug/L	<0.25	0.25	7408153
Hexachloroethane	ug/L	<0.10	0.10	7408153
Octachlorostyrene	ug/L	<0.10	0.10	7408153
Pentachlorobenzene	ug/L	<0.050	0.050	7408153
Surrogate Recovery (%)				
1,3,5-Tribromobenzene	%	79		7408153
2,4,5,6-Tetrachloro-m-xylene	%	114		7408153
Decachlorobiphenyl	%	72		7408153
Hexabromobenzene	%	99		7408153
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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VERITAS

BV Labs Job #: C1G0945
Report Date: 2021/06/23

Terrapure Environmental
Client Project #: EQ Leach
Sampler Initials: DT

MISA ATG 16-18 VOLATILE ORGANICS (WATER)

BV Labs ID		PUV679		
Sampling Date		2021/06/11		
COC Number		827569-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
Volatile Organics				
Acetone (2-Propanone)	ug/L	<1000	1000	7405209
Benzene	ug/L	14	10	7405209
Bromodichloromethane	ug/L	<10	10	7405209
Acrolein	ug/L	<1000	1000	7405382
Bromoform	ug/L	<20	20	7405209
Bromomethane	ug/L	<50	50	7405209
Carbon Tetrachloride	ug/L	<10	10	7405209
Chlorobenzene	ug/L	<10	10	7405209
Chloroform	ug/L	<10	10	7405209
Acrylonitrile	ug/L	<500	500	7405382
Chloromethane	ug/L	<50	50	7405209
Dibromochloromethane	ug/L	<20	20	7405209
1,2-Dichlorobenzene	ug/L	<20	20	7405209
1,3-Dichlorobenzene	ug/L	<20	20	7405209
1,4-Dichlorobenzene	ug/L	<20	20	7405209
1,1-Dichloroethane	ug/L	<10	10	7405209
1,2-Dichloroethane	ug/L	<20	20	7405209
1,1-Dichloroethylene	ug/L	<10	10	7405209
cis-1,2-Dichloroethylene	ug/L	<10	10	7405209
trans-1,2-Dichloroethylene	ug/L	<10	10	7405209
1,2-Dichloropropane	ug/L	<10	10	7405209
cis-1,3-Dichloropropene	ug/L	<20	20	7405209
trans-1,3-Dichloropropene	ug/L	<20	20	7405209
Ethylbenzene	ug/L	34	10	7405209
Ethylene Dibromide	ug/L	<20	20	7405209
Methylene Chloride(Dichloromethane)	ug/L	<50	50	7405209
Methyl Ethyl Ketone (2-Butanone)	ug/L	<500	500	7405209
Methyl Isobutyl Ketone	ug/L	<500	500	7405209
Methyl t-butyl ether (MTBE)	ug/L	22	20	7405209
Styrene	ug/L	<20	20	7405209
1,1,1,2-Tetrachloroethane	ug/L	<20	20	7405209
1,1,2,2-Tetrachloroethane	ug/L	<20	20	7405209
Tetrachloroethylene	ug/L	<10	10	7405209
Toluene	ug/L	270	20	7405209
1,1,1-Trichloroethane	ug/L	<10	10	7405209
1,1,2-Trichloroethane	ug/L	<20	20	7405209
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1G0945
Report Date: 2021/06/23

Terrapure Environmental
Client Project #: EQ Leach
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MISA ATG 16-18 VOLATILE ORGANICS (WATER)

BV Labs ID		PUV679		
Sampling Date		2021/06/11		
COC Number		827569-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
Trichloroethylene	ug/L	<10	10	7405209
Trichlorofluoromethane (FREON 11)	ug/L	<20	20	7405209
Vinyl Chloride	ug/L	<20	20	7405209
p+m-Xylene	ug/L	54	10	7405209
o-Xylene	ug/L	28	10	7405209
Total Xylenes	ug/L	81	10	7405209
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	103		7405209
D4-1,2-Dichloroethane	%	104		7405209
D8-Toluene	%	99		7405209
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1G0945
Report Date: 2021/06/23

Terrapure Environmental
Client Project #: EQ Leach
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RESULTS OF ANALYSES OF WATER

BV Labs ID		PUV679		
Sampling Date		2021/06/11		
COC Number		827569-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
Calculated Parameters				
Hardness (CaCO3)	mg/L	350	1.0	7402459
Inorganics				
Total Ammonia-N	mg/L	200	0.50	7406445
Total BOD	mg/L	180	2	7404555
Conductivity	umho/cm	15000	1.0	7407324
Fluoride (F-)	mg/L	2.6	0.10	7407310
Total Kjeldahl Nitrogen (TKN)	mg/L	230	10	7406510
Total Organic Carbon (TOC)	mg/L	370	4.0	7406080
Orthophosphate (P)	mg/L	1.2	0.10	7407381
pH	pH	8.20		7407327
Phenols-4AAP	mg/L	0.47	0.050	7405988
Total Phosphorus	mg/L	4.0	0.40	7408039
Total Suspended Solids	mg/L	10	10	7406033
Alkalinity (Total as CaCO3)	mg/L	2800	5.0	7407320
Nitrite (N)	mg/L	<0.050	0.050	7407257
Dissolved Chloride (Cl-)	mg/L	2800	20	7407418
Nitrate (N)	mg/L	<0.50	0.50	7407257
Dissolved Bromide (Br-)	mg/L	62	20	7407418
Dissolved Sulphate (SO4)	mg/L	59	20	7407418
Petroleum Hydrocarbons				
Animal/Vegetable Oil and Grease	mg/L	84	1	7412213
Mineral Oil and Grease	mg/L	3	1	7412213
Oil & Grease	mg/L	87	1	7412213
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PUV679		
Sampling Date		2021/06/11		
COC Number		827569-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
Metals				
Dissolved Calcium (Ca)	mg/L	28	0.050	7409034
Dissolved Magnesium (Mg)	mg/L	67	0.050	7409034
Total Aluminum (Al)	mg/L	0.029	0.025	7410451
Total Barium (Ba)	mg/L	0.18	0.010	7410451
Total Beryllium (Be)	mg/L	<0.0020	0.0020	7410451
Total Boron (B)	mg/L	3.5	0.050	7410451
Total Cadmium (Cd)	mg/L	<0.00045	0.00045	7410451
Total Calcium (Ca)	mg/L	29	1.0	7410451
Total Chromium (Cr)	mg/L	<0.025	0.025	7410451
Total Cobalt (Co)	mg/L	0.0039	0.0025	7410451
Total Copper (Cu)	mg/L	<0.0045	0.0045	7410451
Total Iron (Fe)	mg/L	<0.50	0.50	7410451
Total Lead (Pb)	mg/L	<0.0025	0.0025	7410451
Total Magnesium (Mg)	mg/L	72	0.25	7410451
Total Manganese (Mn)	mg/L	0.12	0.010	7410451
Total Molybdenum (Mo)	mg/L	0.31	0.0025	7410451
Total Nickel (Ni)	mg/L	0.17	0.0050	7410451
Total Potassium (K)	mg/L	1500	2.0	7410451
Total Silicon (Si)	mg/L	17	0.25	7410451
Total Sodium (Na)	mg/L	2100	0.50	7410451
Total Strontium (Sr)	mg/L	3.9	0.0050	7410451
Total Titanium (Ti)	mg/L	0.033	0.025	7410451
Total Vanadium (V)	mg/L	0.072	0.0025	7410451
Total Zinc (Zn)	mg/L	<0.025	0.025	7410451
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



POLYCHLORINATED BIPHENYLS BY GC-ECD (WATER)

BV Labs ID		PUV679		
Sampling Date		2021/06/11		
COC Number		827569-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
PCBs				
Aroclor 1016	ug/L	<3	3	7406664
Aroclor 1221	ug/L	<3	3	7406664
Aroclor 1232	ug/L	<3	3	7406664
Aroclor 1242	ug/L	<3	3	7406664
Aroclor 1248	ug/L	<3	3	7406664
Aroclor 1254	ug/L	<3	3	7406664
Aroclor 1260	ug/L	<3	3	7406664
Aroclor 1262	ug/L	<3	3	7406664
Aroclor 1268	ug/L	<3	3	7406664
Total PCB	ug/L	<3	3	7406664
Surrogate Recovery (%)				
Decachlorobiphenyl	%	87		7406664
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



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VERITAS

BV Labs Job #: C1G0945
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Terrapure Environmental
Client Project #: EQ Leach
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RESIN AND FATTY ACIDS BY GC-MS (WATER)

BV Labs ID		PUV679		
Sampling Date		2021/06/11		
COC Number		827569-01-01		
	UNITS	EQ LEACH	RDL	QC Batch
Fatty Acids				
9,10-Dichlorostearic acid	ug/L	<16 (1)	16	7417094
Linoleic acid (C18:2)	ug/L	<3.0	3.0	7417094
Linolenic acid (C18:3)	ug/L	<3.0	3.0	7417094
Oleic acid (C18:1)	ug/L	<3.0	3.0	7417094
Resin Acids				
12,14-Dichlorodehydroabiatic acid	ug/L	<3.0	3.0	7417094
12-Chlorodehydroabiatic acid	ug/L	<3.0	3.0	7417094
14-Chlorodehydroabiatic acid	ug/L	<3.0	3.0	7417094
Abiatic acid	ug/L	<5.0	5.0	7417094
Dehydroabiatic acid	ug/L	160	5.0	7417094
Isopimaric acid	ug/L	4.3	3.0	7417094
Neoabiatic acid	ug/L	<3.0	3.0	7417094
Palustric acid	ug/L	<3.0	3.0	7417094
Pimaric acid	ug/L	4.3	3.0	7417094
Sandaracopimaric acid	ug/L	<3.0	3.0	7417094
Resin and Fatty Acids				
Levopimaric acid	ug/L	<3.0	3.0	7417094
Palmitic acid	ug/L	<30	30	7417094
Palmitoleic acid	ug/L	<10 (1)	10	7417094
Stearic acid	ug/L	<270 (1)	270	7417094
Total Resin and Fatty Acids (RRPPM)	ug/L	<270	270	7417094
Surrogate Recovery (%)				
o-Methylpodocarpic Acid (sur.)	%	70		7417094
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Detection limit raised due to matrix interference.				



BUREAU
VERITAS

BV Labs Job #: C1G0945
Report Date: 2021/06/23

Terrapure Environmental
Client Project #: EQ Leach
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: PUV679
Sample ID: EQ LEACH
Matrix: Water

Collected: 2021/06/11
Shipped:
Received: 2021/06/11

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
ABN Compounds in Water by GC/MS	GC/MS	7422968	2021/06/22	2021/06/23	Anh Lieu
Alkalinity	AT	7407320	N/A	2021/06/16	Surinder Rai
Anions	IC	7407418	N/A	2021/06/15	Fari Dehdezi
Biochemical Oxygen Demand (BOD)	DO	7404555	2021/06/12	2021/06/17	Surleen Kaur Romana
Conductivity	AT	7407324	N/A	2021/06/15	Surinder Rai
Fluoride	ISE	7407310	2021/06/14	2021/06/15	Surinder Rai
Hardness (calculated as CaCO3)		7402459	N/A	2021/06/17	Automated Statchk
Dissolved Calcium and Magnesium	ICP	7409034	2021/06/15	2021/06/16	Suban Kanapathipplai
Total Metals Analysis by ICPMS	ICP/MS	7410451	N/A	2021/06/16	Nan Raykha
Resin and Fatty Acids	GC/MS	7417094	2021/06/16	2021/06/17	Caroline Bougie
Neutral Chlorinated in Water by GC/ECD	GC/ECD	7408153	2021/06/15	2021/06/16	Mahmudul Khan
Total Ammonia-N	LACH/NH4	7406445	N/A	2021/06/15	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7407257	N/A	2021/06/15	Chandra Nandlal
Polychlorinated Biphenyl in Water	GC/ECD	7406664	2021/06/14	2021/06/15	Li Peng
pH	AT	7407327	2021/06/14	2021/06/15	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7405988	N/A	2021/06/15	Deonarine Ramnarine
Orthophosphate	KONE	7407381	N/A	2021/06/15	Avneet Kour Sudan
Total Kjeldahl Nitrogen in Water	SKAL	7406510	2021/06/14	2021/06/15	Rajni Tyagi
Tot./Min./ Animal & Veg. Oil and Grease	/BAL	7412213	2021/06/16	2021/06/16	Karamjeet Randhawa
Total Organic Carbon (TOC)	TOCV/NDIR	7406080	N/A	2021/06/15	Nimarta Singh
Total Phosphorus (Colourimetric)	LACH/P	7408039	2021/06/15	2021/06/15	Shivani Shivani
Total Suspended Solids	BAL	7406033	2021/06/14	2021/06/15	Sandeep Kaur
Volatile Organic Compounds in Water	P&T/MS	7405209	N/A	2021/06/17	Dina Wang
Non-Routine Volatile Organic Compounds	P&T/MS	7405382	N/A	2021/06/17	Dina Wang



GENERAL COMMENTS

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

Package 1	7.7°C
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Sample PUV679 [EQ LEACH] : PCB Analysis: Due to the nature of the sample matrix, a smaller portion of the sample was extracted. DLs were adjusted accordingly.

Nitrite/Nitrate: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

NC Analysis: Due to the nature of the sample matrix, a smaller portion of the sample was extracted. DLs were adjusted accordingly.

Metal Analysis: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

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

VOC Water Analysis: Due to foaming, sample required dilution. The detection limits were adjusted accordingly.

ABN analysis: Due to the nature of the sample matrix, a smaller than usual portion of the sample was used for extraction and a further dilution was required. Detection limits were adjusted accordingly.

Results relate only to the items tested.



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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
7405209	4-Bromofluorobenzene	2021/06/17	104	70 - 130	103	70 - 130	101	%				
7405209	D4-1,2-Dichloroethane	2021/06/17	101	70 - 130	102	70 - 130	103	%				
7405209	D8-Toluene	2021/06/17	100	70 - 130	101	70 - 130	98	%				
7406664	Decachlorobiphenyl	2021/06/15	97	60 - 130	93	60 - 130	83	%				
7408153	1,3,5-Tribromobenzene	2021/06/16			98	30 - 130	96	%				
7408153	2,4,5,6-Tetrachloro-m-xylene	2021/06/16			93	30 - 130	89	%				
7408153	Decachlorobiphenyl	2021/06/16			78	30 - 130	71	%				
7408153	Hexabromobenzene	2021/06/16			112	30 - 130	111	%				
7417094	o-Methylpodocarpic Acid (sur.)	2021/06/17			98	60 - 130	93	%				
7422968	2,4,6-Tribromophenol	2021/06/23	97	10 - 130	103	10 - 130	91	%				
7422968	2-Fluorobiphenyl	2021/06/23	74	30 - 130	80	30 - 130	87	%				
7422968	2-Fluorophenol	2021/06/23	56	10 - 130	57	10 - 130	49	%				
7422968	D14-Terphenyl	2021/06/23	98	30 - 130	108	30 - 130	103	%				
7422968	D5-Nitrobenzene	2021/06/23	88	30 - 130	96	30 - 130	97	%				
7422968	D5-Phenol	2021/06/23	48	10 - 130	40	10 - 130	33	%				
7404555	Total BOD	2021/06/17					<2	mg/L	9.5	30	90	80 - 120
7405209	1,1,1,2-Tetrachloroethane	2021/06/17	106	70 - 130	111	70 - 130	<0.20	ug/L	NC	30		
7405209	1,1,1-Trichloroethane	2021/06/17	104	70 - 130	110	70 - 130	<0.10	ug/L	NC	30		
7405209	1,1,2,2-Tetrachloroethane	2021/06/17	100	70 - 130	103	70 - 130	<0.20	ug/L	NC	30		
7405209	1,1,2-Trichloroethane	2021/06/17	104	70 - 130	108	70 - 130	<0.20	ug/L	NC	30		
7405209	1,1-Dichloroethane	2021/06/17	95	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		
7405209	1,1-Dichloroethylene	2021/06/17	98	70 - 130	105	70 - 130	<0.10	ug/L	NC	30		
7405209	1,2-Dichlorobenzene	2021/06/17	100	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7405209	1,2-Dichloroethane	2021/06/17	96	70 - 130	101	70 - 130	<0.20	ug/L	NC	30		
7405209	1,2-Dichloropropane	2021/06/17	99	70 - 130	102	70 - 130	<0.10	ug/L	NC	30		
7405209	1,3-Dichlorobenzene	2021/06/17	100	70 - 130	102	70 - 130	<0.20	ug/L	NC	30		
7405209	1,4-Dichlorobenzene	2021/06/17	115	70 - 130	117	70 - 130	<0.20	ug/L	NC	30		
7405209	Acetone (2-Propanone)	2021/06/17	95	60 - 140	101	60 - 140	<10	ug/L	NC	30		
7405209	Benzene	2021/06/17	94	70 - 130	96	70 - 130	<0.10	ug/L	NC	30		
7405209	Bromodichloromethane	2021/06/17	105	70 - 130	110	70 - 130	<0.10	ug/L	NC	30		
7405209	Bromoform	2021/06/17	105	70 - 130	112	70 - 130	<0.20	ug/L	NC	30		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7405209	Bromomethane	2021/06/17	96	60 - 140	116	60 - 140	<0.50	ug/L	NC	30		
7405209	Carbon Tetrachloride	2021/06/17	105	70 - 130	110	70 - 130	<0.10	ug/L	NC	30		
7405209	Chlorobenzene	2021/06/17	101	70 - 130	104	70 - 130	<0.10	ug/L	NC	30		
7405209	Chloroform	2021/06/17	99	70 - 130	104	70 - 130	<0.10	ug/L	NC	30		
7405209	Chloromethane	2021/06/17	83	60 - 140	90	60 - 140	<0.50	ug/L	NC	30		
7405209	cis-1,2-Dichloroethylene	2021/06/17	100	70 - 130	105	70 - 130	<0.10	ug/L	NC	30		
7405209	cis-1,3-Dichloropropene	2021/06/17	104	70 - 130	106	70 - 130	<0.20	ug/L	NC	30		
7405209	Dibromochloromethane	2021/06/17	105	70 - 130	110	70 - 130	<0.20	ug/L	NC	30		
7405209	Ethylbenzene	2021/06/17	95	70 - 130	98	70 - 130	<0.10	ug/L	NC	30		
7405209	Ethylene Dibromide	2021/06/17	96	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
7405209	Methyl Ethyl Ketone (2-Butanone)	2021/06/17	102	60 - 140	107	60 - 140	<5.0	ug/L	NC	30		
7405209	Methyl Isobutyl Ketone	2021/06/17	104	70 - 130	106	70 - 130	<5.0	ug/L	NC	30		
7405209	Methyl t-butyl ether (MTBE)	2021/06/17	100	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
7405209	Methylene Chloride(Dichloromethane)	2021/06/17	99	70 - 130	103	70 - 130	<0.50	ug/L	NC	30		
7405209	o-Xylene	2021/06/17	97	70 - 130	100	70 - 130	<0.10	ug/L	NC	30		
7405209	p+m-Xylene	2021/06/17	101	70 - 130	103	70 - 130	<0.10	ug/L	NC	30		
7405209	Styrene	2021/06/17	109	70 - 130	113	70 - 130	<0.20	ug/L	NC	30		
7405209	Tetrachloroethylene	2021/06/17	97	70 - 130	99	70 - 130	<0.10	ug/L	NC	30		
7405209	Toluene	2021/06/17	97	70 - 130	100	70 - 130	<0.20	ug/L	NC	30		
7405209	Total Xylenes	2021/06/17					<0.10	ug/L	NC	30		
7405209	trans-1,2-Dichloroethylene	2021/06/17	100	70 - 130	104	70 - 130	<0.10	ug/L	NC	30		
7405209	trans-1,3-Dichloropropene	2021/06/17	107	70 - 130	111	70 - 130	<0.20	ug/L	NC	30		
7405209	Trichloroethylene	2021/06/17	105	70 - 130	110	70 - 130	<0.10	ug/L	NC	30		
7405209	Trichlorofluoromethane (FREON 11)	2021/06/17	102	70 - 130	108	70 - 130	<0.20	ug/L	NC	30		
7405209	Vinyl Chloride	2021/06/17	97	70 - 130	104	70 - 130	<0.20	ug/L	NC	30		
7405382	Acrolein	2021/06/17	97	60 - 140	113	60 - 140	<10	ug/L	NC	30		
7405382	Acrylonitrile	2021/06/17	104	60 - 140	110	60 - 140	<5.0	ug/L	NC	30		
7405988	Phenols-4AAP	2021/06/15	97	80 - 120	96	80 - 120	<0.0010	mg/L	0	20		
7406033	Total Suspended Solids	2021/06/15					<10	mg/L	NC	25	98	85 - 115
7406080	Total Organic Carbon (TOC)	2021/06/15	91	80 - 120	96	80 - 120	<0.40	mg/L	1.9	20		
7406445	Total Ammonia-N	2021/06/15	98	75 - 125	98	80 - 120	<0.050	mg/L	0.78	20		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7406510	Total Kjeldahl Nitrogen (TKN)	2021/06/15	112	80 - 120	104	80 - 120	<0.10	mg/L	5.0	20	106	80 - 120
7406664	Aroclor 1016	2021/06/15					<0.05	ug/L	NC	40		
7406664	Aroclor 1221	2021/06/15					<0.05	ug/L	NC	40		
7406664	Aroclor 1232	2021/06/15					<0.05	ug/L	NC	40		
7406664	Aroclor 1242	2021/06/15					<0.05	ug/L	NC	30		
7406664	Aroclor 1248	2021/06/15					<0.05	ug/L	5.5	30		
7406664	Aroclor 1254	2021/06/15					<0.05	ug/L	NC	30		
7406664	Aroclor 1260	2021/06/15	107	60 - 130	91	60 - 130	<0.05	ug/L	NC	30		
7406664	Aroclor 1262	2021/06/15					<0.05	ug/L	NC	40		
7406664	Aroclor 1268	2021/06/15					<0.05	ug/L	NC	40		
7406664	Total PCB	2021/06/15	107	60 - 130	91	60 - 130	<0.05	ug/L	5.5	40		
7407257	Nitrate (N)	2021/06/15	98	80 - 120	95	80 - 120	<0.10	mg/L	1.7	20		
7407257	Nitrite (N)	2021/06/15	107	80 - 120	106	80 - 120	<0.010	mg/L	5.3	20		
7407310	Fluoride (F-)	2021/06/15	91	80 - 120	96	80 - 120	<0.10	mg/L	0.51	20		
7407320	Alkalinity (Total as CaCO3)	2021/06/15			99	85 - 115	<1.0	mg/L	3.3	20		
7407324	Conductivity	2021/06/15			99	85 - 115	<1.0	umho/cm	0	25		
7407327	pH	2021/06/15			102	98 - 103			1.3	N/A		
7407381	Orthophosphate (P)	2021/06/15	NC	75 - 125	101	80 - 120	<0.010	mg/L	0.12	25		
7407418	Dissolved Bromide (Br-)	2021/06/15	102	80 - 120	102	80 - 120	<1.0	mg/L	NC	20		
7407418	Dissolved Chloride (Cl-)	2021/06/15	102	80 - 120	99	70 - 130	<1.0	mg/L	1.1	20		
7407418	Dissolved Sulphate (SO4)	2021/06/15	98	80 - 120	98	80 - 120	<1.0	mg/L	0.13	20		
7408039	Total Phosphorus	2021/06/15	104	80 - 120	106	80 - 120	<0.020	mg/L	0.044	20	105	80 - 120
7408153	1,2,3,4-Tetrachlorobenzene	2021/06/16			96	50 - 130	<0.010	ug/L	6.2	40		
7408153	1,2,3,5-Tetrachlorobenzene	2021/06/16			88	30 - 130	<0.010	ug/L	3.4	40		
7408153	1,2,3-Trichlorobenzene	2021/06/16			97	50 - 130	<0.010	ug/L	2.1	40		
7408153	1,2,4,5-Tetrachlorobenzene	2021/06/16			76	30 - 130	<0.010	ug/L	7.5	40		
7408153	1,2,4-Trichlorobenzene	2021/06/16			88	50 - 130	<0.010	ug/L	2.5	40		
7408153	2,4,5-Trichlorotoluene	2021/06/16			89	30 - 130	<0.010	ug/L	0.49	40		
7408153	Hexachlorobenzene	2021/06/16			89	50 - 130	<0.0050	ug/L	0.67	40		
7408153	Hexachlorobutadiene	2021/06/16			71	30 - 130	<0.0090	ug/L	2.4	40		



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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
7408153	Hexachlorocyclopentadiene	2021/06/16			89	30 - 130	<0.025	ug/L	0.034	40		
7408153	Hexachloroethane	2021/06/16			100	30 - 130	<0.010	ug/L	16	40		
7408153	Octachlorostyrene	2021/06/16			105	30 - 130	<0.0050	ug/L	7.5	40		
7408153	Pentachlorobenzene	2021/06/16			101	50 - 130	<0.0050	ug/L	2.7	40		
7409034	Dissolved Calcium (Ca)	2021/06/16	NC	80 - 120	101	80 - 120	<0.050	mg/L	0.67	25		
7409034	Dissolved Magnesium (Mg)	2021/06/16	101	80 - 120	98	80 - 120	<0.050	mg/L	0.40	25		
7410451	Total Aluminum (Al)	2021/06/16	101	80 - 120	94	80 - 120	<0.0049	mg/L	7.3	20		
7410451	Total Barium (Ba)	2021/06/16	101	80 - 120	97	80 - 120	<0.0020	mg/L				
7410451	Total Beryllium (Be)	2021/06/16	103	80 - 120	97	80 - 120	<0.00040	mg/L				
7410451	Total Boron (B)	2021/06/16	NC	80 - 120	96	80 - 120	<0.010	mg/L				
7410451	Total Cadmium (Cd)	2021/06/16	98	80 - 120	98	80 - 120	<0.000090	mg/L	NC	20		
7410451	Total Calcium (Ca)	2021/06/16	NC	80 - 120	94	80 - 120	<0.20	mg/L				
7410451	Total Chromium (Cr)	2021/06/16	96	80 - 120	93	80 - 120	<0.0050	mg/L	NC	20		
7410451	Total Cobalt (Co)	2021/06/16	97	80 - 120	95	80 - 120	<0.00050	mg/L	NC	20		
7410451	Total Copper (Cu)	2021/06/16	102	80 - 120	99	80 - 120	<0.00090	mg/L	NC	20		
7410451	Total Iron (Fe)	2021/06/16	94	80 - 120	95	80 - 120	<0.10	mg/L	0.99	20		
7410451	Total Lead (Pb)	2021/06/16	93	80 - 120	95	80 - 120	<0.00050	mg/L	NC	20		
7410451	Total Magnesium (Mg)	2021/06/16	95	80 - 120	93	80 - 120	<0.050	mg/L				
7410451	Total Manganese (Mn)	2021/06/16	96	80 - 120	94	80 - 120	<0.0020	mg/L	2.0	20		
7410451	Total Molybdenum (Mo)	2021/06/16	105	80 - 120	99	80 - 120	<0.00050	mg/L	5.4	20		
7410451	Total Nickel (Ni)	2021/06/16	92	80 - 120	92	80 - 120	<0.0010	mg/L	2.3	20		
7410451	Total Potassium (K)	2021/06/16	98	80 - 120	95	80 - 120	<0.20	mg/L				
7410451	Total Silicon (Si)	2021/06/16	100	80 - 120	93	80 - 120	<0.050	mg/L				
7410451	Total Sodium (Na)	2021/06/16	NC	80 - 120	92	80 - 120	<0.10	mg/L				
7410451	Total Strontium (Sr)	2021/06/16	97	80 - 120	95	80 - 120	<0.0010	mg/L				
7410451	Total Titanium (Ti)	2021/06/16	96	80 - 120	93	80 - 120	<0.0050	mg/L	NC	20		
7410451	Total Vanadium (V)	2021/06/16	97	80 - 120	94	80 - 120	<0.00050	mg/L				
7410451	Total Zinc (Zn)	2021/06/16	98	80 - 120	99	80 - 120	<0.0050	mg/L	7.1	20		
7412213	Animal/Vegetable Oil and Grease	2021/06/16			96	75 - 125	<1	mg/L	3.6	25		
7412213	Mineral Oil and Grease	2021/06/16			96	75 - 125	<1	mg/L	2.3	25		
7412213	Oil & Grease	2021/06/16			96	85 - 115	<1	mg/L	2.9	25		



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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
7417094	12,14-Dichlorodehydroabiatic acid	2021/06/17			163 (1)	60 - 130	<3.0	ug/L				
7417094	12-Chlorodehydroabiatic acid	2021/06/17			130	60 - 130	<3.0	ug/L				
7417094	14-Chlorodehydroabiatic acid	2021/06/17			130	60 - 130	<3.0	ug/L				
7417094	9,10-Dichlorostearic acid	2021/06/17			120	60 - 130	<3.0	ug/L				
7417094	Abiatic acid	2021/06/17			138 (1)	60 - 130	<5.0	ug/L				
7417094	Dehydroabiatic acid	2021/06/17			130	60 - 130	<5.0	ug/L				
7417094	Isopimaric acid	2021/06/17			125	60 - 130	<3.0	ug/L				
7417094	Levopimaric acid	2021/06/17			99	60 - 130	<3.0	ug/L				
7417094	Linoleic acid (C18:2)	2021/06/17			107	60 - 130	<3.0	ug/L				
7417094	Linolenic acid (C18:3)	2021/06/17			111	60 - 130	<3.0	ug/L				
7417094	Neoabiatic acid	2021/06/17			114	60 - 130	<3.0	ug/L				
7417094	Oleic acid (C18:1)	2021/06/17			124	60 - 130	<3.0	ug/L				
7417094	Palmitic acid	2021/06/17			165 (1)	60 - 130	<30	ug/L				
7417094	Palmitoleic acid	2021/06/17			115	60 - 130	<3.0	ug/L				
7417094	Palustric acid	2021/06/17			116	60 - 130	<3.0	ug/L				
7417094	Pimaric acid	2021/06/17			114	60 - 130	<3.0	ug/L				
7417094	Sandaracopimaric acid	2021/06/17			117	60 - 130	<3.0	ug/L				
7417094	Stearic acid	2021/06/17			169 (1)	60 - 130	<30	ug/L				
7417094	Total Resin and Fatty Acids (RRPPM)	2021/06/17					<30	ug/L				
7422968	1-Chloronaphthalene	2021/06/23	70	30 - 130	69	30 - 130	<1.0	ug/L	NC	40		
7422968	1-Methylnaphthalene	2021/06/23	96	30 - 130	91	30 - 130	<0.20	ug/L	NC	40		
7422968	2,3,4,5-Tetrachlorophenol	2021/06/23	95	10 - 130	102	10 - 130	<0.40	ug/L	NC	40		
7422968	2,3,4,6-Tetrachlorophenol	2021/06/23	107	10 - 130	103	10 - 130	<0.50	ug/L	NC	40		
7422968	2,3,4-Trichlorophenol	2021/06/23	100	10 - 130	99	10 - 130	<0.50	ug/L	NC	40		
7422968	2,3,5,6-Tetrachlorophenol	2021/06/23	114	10 - 130	109	10 - 130	<0.50	ug/L	NC	40		
7422968	2,3,5-Trichlorophenol	2021/06/23	115	10 - 130	105	10 - 130	<0.50	ug/L	NC	40		
7422968	2,4,5-Trichlorophenol	2021/06/23	111	10 - 130	106	10 - 130	<0.50	ug/L	NC	40		
7422968	2,4,6-Trichlorophenol	2021/06/23	103	10 - 130	97	10 - 130	<0.50	ug/L	NC	40		
7422968	2,4-Dichlorophenol	2021/06/23	99	10 - 130	101	10 - 130	<0.30	ug/L	NC	40		
7422968	2,4-Dimethylphenol	2021/06/23	63	10 - 130	67	10 - 130	<0.50	ug/L	NC	40		
7422968	2,4-Dinitrophenol	2021/06/23	116	10 - 130	114	10 - 130	<2.0	ug/L	NC	40		



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			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits	% Recovery	QC Limits
7422968	2,4-Dinitrotoluene	2021/06/23	98	30 - 130	101	30 - 130	<0.50	ug/L	NC	40		
7422968	2,6-Dichlorophenol	2021/06/23	100	10 - 130	101	10 - 130	<0.50	ug/L	NC	40		
7422968	2,6-Dinitrotoluene	2021/06/23	93	30 - 130	91	30 - 130	<0.50	ug/L	NC	40		
7422968	2-Chloronaphthalene	2021/06/23	96	30 - 130	91	30 - 130	<0.50	ug/L	NC	40		
7422968	2-Chlorophenol	2021/06/23	94	10 - 130	95	10 - 130	<0.30	ug/L	NC	40		
7422968	2-Methylnaphthalene	2021/06/23	86	30 - 130	84	30 - 130	<0.20	ug/L	NC	40		
7422968	4,6-Dinitro-2-methylphenol	2021/06/23	107	10 - 130	110	10 - 130	<2.0	ug/L	NC	40		
7422968	4-Bromophenyl phenyl ether	2021/06/23	97	30 - 130	100	30 - 130	<0.30	ug/L	NC	40		
7422968	4-Chloro-3-Methylphenol	2021/06/23	107	10 - 130	102	10 - 130	<0.50	ug/L	NC	40		
7422968	4-Chlorophenyl phenyl ether	2021/06/23	93	30 - 130	90	30 - 130	<0.50	ug/L	NC	40		
7422968	4-Nitrophenol	2021/06/23	59	10 - 130	47	10 - 130	<1.4	ug/L	NC	40		
7422968	5-Nitroacenaphthene	2021/06/23	98	30 - 130	94	30 - 130	<1.0	ug/L				
7422968	Acenaphthene	2021/06/23	92	30 - 130	91	30 - 130	<0.20	ug/L	NC	40		
7422968	Acenaphthylene	2021/06/23	90	30 - 130	92	30 - 130	<0.20	ug/L	NC	40		
7422968	Anthracene	2021/06/23	91	30 - 130	89	30 - 130	<0.20	ug/L	NC	40		
7422968	Benzo(a)anthracene	2021/06/23	106	30 - 130	105	30 - 130	<0.20	ug/L	NC	40		
7422968	Benzo(a)pyrene	2021/06/23	92	30 - 130	92	30 - 130	<0.20	ug/L	NC	40		
7422968	Benzo(b,j)fluoranthene	2021/06/23	105	30 - 130	106	30 - 130	<0.20	ug/L	NC	40		
7422968	Benzo(g,h,i)perylene	2021/06/23	103	30 - 130	104	30 - 130	<0.20	ug/L	NC	40		
7422968	Benzo(k)fluoranthene	2021/06/23	105	30 - 130	102	30 - 130	<0.20	ug/L	NC	40		
7422968	Benzyl butyl phthalate	2021/06/23	102	30 - 130	107	30 - 130	<0.50	ug/L	NC	40		
7422968	Biphenyl	2021/06/23	90	30 - 130	87	30 - 130	<0.50	ug/L	NC	40		
7422968	Bis(2-chloroethoxy)methane	2021/06/23	81	30 - 130	85	30 - 130	<0.50	ug/L	NC	40		
7422968	Bis(2-chloroethyl)ether	2021/06/23	89	30 - 130	88	30 - 130	<0.50	ug/L	NC	40		
7422968	Bis(2-chloroisopropyl)ether	2021/06/23	68	30 - 130	79	30 - 130	<0.50	ug/L	NC	40		
7422968	Bis(2-ethylhexyl)phthalate	2021/06/23	96	30 - 130	99	30 - 130	<2.0	ug/L	NC	40		
7422968	Camphene	2021/06/23	71	30 - 130	65	30 - 130	<1.0	ug/L				
7422968	Chrysene	2021/06/23	106	30 - 130	104	30 - 130	<0.20	ug/L	NC	40		
7422968	Dibenzo(a,h)anthracene	2021/06/23	107	30 - 130	104	30 - 130	<0.20	ug/L	NC	40		
7422968	Di-N-butyl phthalate	2021/06/23	104	30 - 130	106	30 - 130	<2.0	ug/L	NC	40		
7422968	di-n-octyl phthalate	2021/06/23	101	30 - 130	102	30 - 130	<0.80	ug/L	NC	40		



BUREAU
VERITAS

BV Labs Job #: C1G0945
Report Date: 2021/06/23

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: EQ Leach
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
7422968	Diphenyl Ether	2021/06/23	88	30 - 130	90	30 - 130	<0.30	ug/L	NC	40		
7422968	Fluoranthene	2021/06/23	107	30 - 130	100	30 - 130	<0.20	ug/L	NC	40		
7422968	Fluorene	2021/06/23	96	30 - 130	96	30 - 130	<0.20	ug/L	NC	40		
7422968	Indeno(1,2,3-cd)pyrene	2021/06/23	107	30 - 130	106	30 - 130	<0.20	ug/L	NC	40		
7422968	Indole	2021/06/23	65	30 - 130	85	30 - 130	<1.0	ug/L				
7422968	m/p-Cresol	2021/06/23	79	10 - 130	75	10 - 130	<0.50	ug/L	NC	40		
7422968	Naphthalene	2021/06/23	66	30 - 130	66	30 - 130	<0.20	ug/L	NC	40		
7422968	Nitrosodiphenylamine/Diphenylamine	2021/06/23	116	30 - 130	123	30 - 130	<1.0	ug/L	NC	40		
7422968	N-Nitroso-di-n-propylamine	2021/06/23	96	30 - 130	95	30 - 130	<0.50	ug/L	NC	40		
7422968	o-Cresol	2021/06/23	79	10 - 130	76	10 - 130	<0.50	ug/L	NC	40		
7422968	Pentachlorophenol	2021/06/23	94	10 - 130	83	10 - 130	<1.0	ug/L	NC	40		
7422968	Perylene	2021/06/23	102	30 - 130	104	30 - 130	<0.20	ug/L	NC	40		
7422968	Phenanthrene	2021/06/23	99	30 - 130	98	30 - 130	<0.20	ug/L	NC	40		
7422968	Phenol	2021/06/23	50	10 - 130	42	10 - 130	<0.50	ug/L	NC	40		
7422968	Pyrene	2021/06/23	103	30 - 130	105	30 - 130	<0.20	ug/L	NC	40		

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 #: C1G0945
Report Date: 2021/06/23

Terrapure Environmental
Client Project #: EQ Leach
Sampler Initials: DT

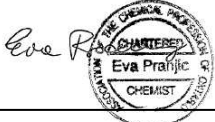
VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Anastassia Hamanov, Scientific Specialist



Caroline Bougie, B.Sc. Chemist



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
 8740 Campbell Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free: 800-563-6266 Fax: (905) 817-5777 www.bvlab.com

11-Jun-21 16:57

Jolanta Goralczyk
C1G0945

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: EQ Leach
 Project Name:
 Site #:
 Sampled By:

Only:

Bottle Order #:
 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

Regulation 153 (2011)	Other Regulations	Special Instructions
<input type="checkbox"/> Table 1 <input type="checkbox"/> Table 2 <input type="checkbox"/> Table 3 <input type="checkbox"/> Table	<input type="checkbox"/> Res/Park <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Agri/Other <input type="checkbox"/> Medium/Fine <input type="checkbox"/> Coarse <input type="checkbox"/> For RSC <input type="checkbox"/> CCME <input type="checkbox"/> Reg 558 <input type="checkbox"/> MISA <input type="checkbox"/> PWQO <input type="checkbox"/> Other	<input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> Municipality <input type="checkbox"/> Reg 406 Table

Include Criteria on Certificate of Analysis (Y/N)?

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Field Filtered (please circle): Metals / Hg / Cr / V	EO Leachate MISA Scan - List "C"																				
NA	X																				

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 / V	EO Leachate MISA Scan - List "C"															
	EQ LEACH	June 11 2021	AM	water	NA	X															

of Bottles 18
Comments * Sampled same day Attempt to cool was made

* RELINQUISHED BY: (Signature/Print) Dan Taylor	Date: (YY/MM/DD) 21/06/11	Time AM	RECEIVED BY: (Signature/Print) Fu/AG/TH/PT Parker	Date: (YY/MM/DD) 20/06/11	Time 16:57	# jars used and not submitted	Laboratory Use Only				
							Time Sensitive	Temperature (°C) on Recept	Custody Seal Present	Yes	No
								7/18/18	Intact	<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.

** 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



Confirmation of Sample Receipt

BV Labs Job Number: C114695
 Job Received: 2021/07/05 15:45
 Final Report Due: 2021/07/12 18:00
 Disposal Date: 2021/08/04

Invoice Information

Attn: Accounting
 Terrapure Environmental
 65 Green Mountain Rd West
 Stoney Creek, ON, L8J 1X5
 Email to:
 kbailey@terrapureenv.com

Report Information

Attn: Brad Mullin - GHD Reporting
 Terrapure Environmental
 65 Green Mountain Rd West
 Stoney Creek, ON, L8J 1X5
 Email to:
 bmullin@terrapureenv.com
 dtaylor2@terrapureenv.com
 nationaledsupport@maxxam.ca
 allan.molenhuis@ghd.com
 timothy.harris@ghd.com
 laurie.clark@ghd.com
 crichardson@terrapureenv.com

Project Information

Quote #: B60569
PO/AFE#:
Project #: SW
Site Location:
Sampled By: CR

Analytical Summary

A: Due On 2021/07/12 18:00

Lab ID	Client Sample ID	Sampling Date/Time	Matrix	List "C" SW Water Quality (Full)	Total Kjeldahl Nitrogen in Water	Total Organic Carbon (TOC)	Set Number
COC# 830760-02-01							
PZW389	T-1R	2021/07/02	SW	A			1
PZW390	T-3A	2021/07/02	SW	A			1
PZW391	T-12	2021/07/02	SW	A			1
PZW392	T-13	2021/07/02	SW	A			1
PZW393	T-16	2021/07/02	SW	A			1
PZW394	T-15R	2021/07/02	SW	A			1
PZW395	T-29	2021/07/02	SW	A			1
PZW396	T-30	2021/07/02	SW	A			1
PZW397	T-31	2021/07/02	SW	A			1
PZW398	T-32	2021/07/02	SW	A			1
COC# 830760-01-01							
PZW399	TS-1	2021/07/02	SW	A	A	A	2
PZW400	TS-35	2021/07/02	SW	A			1

Include Criteria on CofA: No



Confirmation of Sample Receipt

BV Labs Job Number: C114695
Job Received: 2021/07/05 15:45
Final Report Due: 2021/07/12 18:00
Disposal Date: 2021/08/04

Sample Inspection Observations & Comments

of Samples Received: 12

Details: Sample(s) received in good condition.

Average Temperature: Package 1: 0.7 °C
Package 2: 1.7 °C
Package 3: 1.0 °C

Additional Notes

- Unless special storage arrangements are made, all samples will be disposed 30 days after receipt. Additional fees may be applied for extended storage.
- Additional fees may be applied for the disposal of hazardous samples.

The contents of this report are subject to change. For up to date information, please refer to the Customer Portal.



Confirmation of Sample Receipt

BV Labs Job Number: C1I4695
 Job Received: 2021/07/05 15:45
 Final Report Due: 2021/07/12 18:00
 Disposal Date: 2021/08/04

Sample Set Listing

Set 1 (11 Samples)	Set 2 (1 Sample)
T-1R T-3A T-12 T-13 T-16 T-15R T-29 T-30 T-31 T-32 TS-35	TS-1

Parameter Summary

Package/Test	Parameter	RDL	Unit	Set 1	Set 2
List "C" SW Water Quality (Full)	Alkalinity (Total as CaCO3)	1	mg/L	X	X
	Total BOD	2	mg/L	X	X
	Dissolved Chloride (Cl-)	1	mg/L	X	X
	Dissolved (0.2u) Aluminum (Al)	5	ug/L	X	X
	Dissolved Organic Carbon	0.4	mg/L	X	X
	Hardness (CaCO3)	1	mg/L	X	X
	Mercury (Hg)	0.0001	mg/L	X	X
	Nitrite (N)	0.01	mg/L	X	X
	Nitrate (N)	0.1	mg/L	X	X
	Nitrate + Nitrite (N)	0.1	mg/L	X	X
	pH	N/A	pH	X	X
	Phenols-4AAP	0.001	mg/L	X	X
	Dissolved Sulphate (SO4)	1	mg/L	X	X
	Total Ammonia-N	0.05	mg/L	X	X
	Total Aluminum (Al)	0.0049	mg/L	X	X
	Total Arsenic (As)	0.001	mg/L	X	X
	Total Beryllium (Be)	0.0004	mg/L	X	X
	Total Boron (B)	0.01	mg/L	X	X
	Total Cadmium (Cd)	0.00009	mg/L	X	X
	Total Calcium (Ca)	0.2	mg/L	X	X
	Total Chromium (Cr)	0.005	mg/L	X	X
	Total Cobalt (Co)	0.0005	mg/L	X	X
	Total Copper (Cu)	0.0009	mg/L	X	X
	Total Iron (Fe)	0.1	mg/L	X	X
	Total Lead (Pb)	0.0005	mg/L	X	X
	Total Magnesium (Mg)	0.05	mg/L	X	X
	Total Manganese (Mn)	0.002	mg/L	X	X
	Total Molybdenum (Mo)	0.0005	mg/L	X	X



Confirmation of Sample Receipt

BV Labs Job Number: C114695
Job Received: 2021/07/05 15:45
Final Report Due: 2021/07/12 18:00
Disposal Date: 2021/08/04

Parameter Summary



Package/Test	Parameter	RDL	Unit	Set 1	Set 2
List "C" SW Water Quality (Full)	Total Nickel (Ni)	0.001	mg/L	X	X
	Total Potassium (K)	0.2	mg/L		X
	Total Selenium (Se)	0.002	mg/L	X	X
	Total Silver (Ag)	0.00009	mg/L	X	X
	Total Sodium (Na)	0.1	mg/L	X	X
	Total Strontium (Sr)	0.001	mg/L	X	X
	Total Vanadium (V)	0.0005	mg/L	X	X
	Total Zinc (Zn)	0.005	mg/L	X	X
	Total Phosphorus	0.004	mg/L	X	X
	Total Suspended Solids	10	mg/L	X	X
Total Kjeldahl Nitrogen in Water	Total Kjeldahl Nitrogen (TKN)	0.1	mg/L		X
Total Organic Carbon (TOC)	Total Organic Carbon (TOC)	0.4	mg/L		X

**RDLs are subject to change based on interferences present at the time of analysis.*

CHAIN OF CUSTODY RECORD

IMMEDIATE

Bureau Veritas Laboratories
 13740 Campobello Road, Mississauga, Ontario Canada L5N 2L8 Tel: (905) 817-5700 Toll-free 800-563-6266 Fax: (905) 817-5777 www.bvlabs.com

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: Fax: Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		PROJECT INFORMATION: Quotation #: B60569 P.O. #: Project: SW Project Name: SW Site #: Sampled By:		Laboratory Use Only: BV Labs Job #:  Bottle Order #: 830760 COC #:  C#830760-02-01 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 Please provide advance notice for rush projects		
Regulation 153 (2011)			Other Regulations		Special Instructions		Field Filtered (please circle): Metals (Hg, Cr, V)	Lut-C: SW Water Quality (Full)	Lut-E: SW: Free Chlorine-Compounds	Lut-F: SW: Water Quality (Elemental)	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 Diatoms/Furans are > 5 days - contact your Project Manager for details.	
Table 1	Res/Park	Medium/Fine	CCME	Sanitary Sewer Bylaw							Job Specific Rush TAT (if applies to entire submission) Date Required: _____ Time Required: _____ Rush Confirmation Number: _____ (call lab for #)	
<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"/>	<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								
1	T-1R	21/07/02	AM	SW	Y	✓						9
2	T-3A			SW	Y	✓						9
3	T-12			SW	Y	✓						9
4	T-13			SW	Y	✓						9
5	T-16			SW	Y	✓						9
6	T-15R			SW	Y	✓						9
7	T-29			SW	Y	✓						9
8	T-30			SW	Y	✓						9
9	T-31			SW	Y	✓						9
10	T-32			SW	Y	✓						9

* RELINQUISHED BY: (Signature/Print) C. Richardson / Cooper Richardson		Date: (YY/MM/DD) 21/07/05	Time	RECEIVED BY: (Signature/Print) [Signature]		Date: (YY/MM/DD) 10/10/15	Time 15:45	# jars used and not submitted	Laboratory Use Only		Custody Seal Present	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
									Time Sensitive	Temperature (°C) on Receipt 11/01 9/11/0 2/11/0	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.

** 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



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

Page 2 of 2

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 #:	830760		
Attention: Accounting	Attention:	P.O. #:	COC #:		Project Manager:		
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address:	Project: SW	C#830760-01-01		Jolanta Goralczyk		
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel: Fax:	Project Name: SW	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) <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 (Pb) Cr VI		Last 10° SW Water Quality (Full)		Last 10° SW Water Quality (Components)		Last 10° SW Water Quality (Trace Metals)		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 checked="" type="checkbox"/>	
Include Criteria on Certificate of Analysis (Y/N)?						Date Required: _____ Time Required: _____		Rush Confirmation Number: _____ (call lab for #)		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	Cr VI	TOC	K	TKN	# of Bottles	Comments						
1	TS-1	21/07/02	AM	SW	Y	✓		✓	✓	✓	9							
2	T:35	↓	↓	SW	Y	✓					9							
3				SW														
4				SW														
5				SW														
6				SW														
7				SW														
8				SW														
9				SW														
10				SW														

RELINQUISHED BY: (Signature/Print) C. Richardson/Cooper Richardson	Date: (YY/MM/DD) 21/07/05	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD) 21/07/05	Time 15:15	# jars used and not submitted	Laboratory Use Only		Time Sensitive	Temperature (°C) on Receipt 1/01 7/11/0 2/11/0	Custody Seal Present/Intact	Yes/No	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.



Your Project #: SW
 Your C.O.C. #: 830760-02-01, 830760-01-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/07/12
 Report #: R6715288
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C114695

Received: 2021/07/05, 15:45

Sample Matrix: Water
 # Samples Received: 12

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Dissolved Aluminum (0.2 u, clay free)	12	N/A	2021/07/08	CAM SOP-00447	EPA 6020B m
Alkalinity	12	N/A	2021/07/08	CAM SOP-00448	SM 23 2320 B m
Biochemical Oxygen Demand (BOD)	12	2021/07/06	2021/07/11	CAM SOP-00427	SM 23 5210B m
Chloride by Automated Colourimetry	12	N/A	2021/07/08	CAM SOP-00463	SM 23 4500-Cl E m
Dissolved Organic Carbon (DOC) (1)	12	N/A	2021/07/07	CAM SOP-00446	SM 23 5310 B m
Hardness (calculated as CaCO3)	12	N/A	2021/07/09	CAM SOP 00102/00408/00447	SM 2340 B
Mercury in Water by CVAA	12	2021/07/07	2021/07/07	CAM SOP-00453	EPA 7470A m
Total Metals Analysis by ICPMS	12	N/A	2021/07/08	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	12	N/A	2021/07/08	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (2)	12	N/A	2021/07/08	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	12	2021/07/07	2021/07/08	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	12	N/A	2021/07/06	CAM SOP-00444	OMOE E3179 m
Sulphate by Automated Colourimetry	12	N/A	2021/07/08	CAM SOP-00464	EPA 375.4 m
Total Kjeldahl Nitrogen in Water	1	2021/07/06	2021/07/08	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (3)	1	N/A	2021/07/06	CAM SOP-00446	SM 23 5310B m
Total Phosphorus (Colourimetric)	5	2021/07/07	2021/07/07	CAM SOP-00407	SM 23 4500 P B H m
Total Phosphorus (Colourimetric)	7	2021/07/07	2021/07/08	CAM SOP-00407	SM 23 4500 P B H m
Total Suspended Solids	12	2021/07/07	2021/07/08	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.
- (3) Total Organic Carbon (TOC) present in the sample should be considered as non-purgeable TOC.



Your Project #: SW
Your C.O.C. #: 830760-02-01, 830760-01-01

Attention: Brad Mullin - GHD Reporting

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

Report Date: 2021/07/12
Report #: R6715288
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C114695

Received: 2021/07/05, 15:45

Encryption Key



**AUTHORIZED REPORT
RAPPORT AUTORISÉ**

Bureau Veritas
12 Jul 2021 14:04:50

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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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 #: C114695
Report Date: 2021/07/12

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

BV Labs ID		PZW389			PZW389			PZW390		
Sampling Date		2021/07/02			2021/07/02			2021/07/02		
COC Number		830760-02-01			830760-02-01			830760-02-01		
	UNITS	T-1R	RDL	QC Batch	T-1R Lab-Dup	RDL	QC Batch	T-3A	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO ₃)	mg/L	240	1.0	7444417				1100	1.0	7444417
Inorganics										
Total Ammonia-N	mg/L	86	0.50	7446552				0.82	0.050	7446552
Total BOD	mg/L	25	2	7445443				<2	2	7445443
Dissolved Organic Carbon	mg/L	29	0.40	7448584	30	0.40	7448584	4.8	0.40	7448584
pH	pH	9.18		7449381				7.83		7449381
Phenols-4AAP	mg/L	0.22	0.0050	7446113				<0.0010	0.0010	7446113
Total Phosphorus	mg/L	0.080	0.004	7448612				0.024	0.004	7448612
Total Suspended Solids	mg/L	<10	10	7448469				<10	10	7448469
Dissolved Sulphate (SO ₄)	mg/L	560	5.0	7449327				880	5.0	7449327
Alkalinity (Total as CaCO ₃)	mg/L	170	1.0	7449374				110	1.0	7449374
Dissolved Chloride (Cl ⁻)	mg/L	1800	25	7449294				520	6.0	7449294
Nitrite (N)	mg/L	<0.010	0.010	7449346				0.299	0.010	7449346
Nitrate (N)	mg/L	<0.10	0.10	7449346				0.66	0.10	7449346
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7449346				0.96	0.10	7449346
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C114695
Report Date: 2021/07/12

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

BV Labs ID		PZW390			PZW391			PZW391		
Sampling Date		2021/07/02			2021/07/02			2021/07/02		
COC Number		830760-02-01			830760-02-01			830760-02-01		
	UNITS	T-3A Lab-Dup	RDL	QC Batch	T-12	RDL	QC Batch	T-12 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				320	1.0	7444417			
Inorganics										
Total Ammonia-N	mg/L	0.81	0.050	7446552	<0.050	0.050	7446552			
Total BOD	mg/L				<2	2	7445443			
Dissolved Organic Carbon	mg/L				3.8	0.40	7448584			
pH	pH				8.22		7449381			
Phenols-4AAP	mg/L				<0.0010	0.0010	7445760			
Total Phosphorus	mg/L				0.069	0.004	7448284			
Total Suspended Solids	mg/L				16	10	7448464			
Dissolved Sulphate (SO4)	mg/L				170	1.0	7449327	160	1.0	7449327
Alkalinity (Total as CaCO3)	mg/L				170	1.0	7449374			
Dissolved Chloride (Cl-)	mg/L				140	2.0	7449294	150	2.0	7449294
Nitrite (N)	mg/L				0.020	0.010	7449346			
Nitrate (N)	mg/L				0.97	0.10	7449346			
Nitrate + Nitrite (N)	mg/L				0.99	0.10	7449346			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C114695
Report Date: 2021/07/12

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

BV Labs ID		PZW392			PZW393			PZW394		
Sampling Date		2021/07/02			2021/07/02			2021/07/02		
COC Number		830760-02-01			830760-02-01			830760-02-01		
	UNITS	T-13	RDL	QC Batch	T-16	RDL	QC Batch	T-15R	RDL	QC Batch

Calculated Parameters

Hardness (CaCO ₃)	mg/L	310	1.0	7444417	310	1.0	7444417	280	1.0	7444417
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Inorganics

Total Ammonia-N	mg/L	<0.050	0.050	7446552	0.22	0.050	7446552	<0.050	0.050	7446552
Total BOD	mg/L	<2	2	7445443	2	2	7445443	3	2	7445443
Dissolved Organic Carbon	mg/L	4.1	0.40	7448584	4.4	0.40	7448584	6.0	0.40	7448584
pH	pH	8.29		7449381	8.23		7449381	7.95		7449381
Phenols-4AAP	mg/L	<0.0010	0.0010	7446113	<0.0010	0.0010	7445760	<0.0010	0.0010	7446113
Total Phosphorus	mg/L	0.067	0.004	7448612	0.16	0.02	7448612	0.055	0.004	7448284
Total Suspended Solids	mg/L	18	10	7448464	17	10	7448469	35	10	7448469
Dissolved Sulphate (SO ₄)	mg/L	160	1.0	7449327	150	1.0	7449327	150	1.0	7449327
Alkalinity (Total as CaCO ₃)	mg/L	160	1.0	7449374	160	1.0	7449374	140	1.0	7449374
Dissolved Chloride (Cl ⁻)	mg/L	160	2.0	7449294	190	2.0	7449294	130	2.0	7449294
Nitrite (N)	mg/L	<0.010	0.010	7449346	0.019	0.010	7449346	<0.010	0.010	7449346
Nitrate (N)	mg/L	1.10	0.10	7449346	1.44	0.10	7449346	0.31	0.10	7449346
Nitrate + Nitrite (N)	mg/L	1.10	0.10	7449346	1.46	0.10	7449346	0.31	0.10	7449346

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C114695
Report Date: 2021/07/12

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

BV Labs ID		PZW395		PZW396			PZW396		
Sampling Date		2021/07/02		2021/07/02			2021/07/02		
COC Number		830760-02-01		830760-02-01			830760-02-01		
	UNITS	T-29	QC Batch	T-30	RDL	QC Batch	T-30 Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO ₃)	mg/L	310	7444417	320	1.0	7444417			
Inorganics									
Total Ammonia-N	mg/L	<0.050	7446552	0.097	0.050	7446552			
Total BOD	mg/L	<2	7445443	<2	2	7445443			
Dissolved Organic Carbon	mg/L	3.8	7448584	4.0	0.40	7448584			
pH	pH	8.23	7449381	8.20		7449828	8.28		7449828
Phenols-4AAP	mg/L	<0.0010	7446113	<0.0010	0.0010	7446113	<0.0010	0.0010	7446113
Total Phosphorus	mg/L	0.075	7448284	0.081	0.004	7448284			
Total Suspended Solids	mg/L	15	7448464	14	10	7448469			
Dissolved Sulphate (SO ₄)	mg/L	160	7449327	170	1.0	7449327			
Alkalinity (Total as CaCO ₃)	mg/L	170	7449374	160	1.0	7449825	170	1.0	7449825
Dissolved Chloride (Cl ⁻)	mg/L	150	7449294	150	2.0	7449294			
Nitrite (N)	mg/L	0.022	7449346	0.025	0.010	7449346			
Nitrate (N)	mg/L	1.00	7449346	0.98	0.10	7449346			
Nitrate + Nitrite (N)	mg/L	1.02	7449346	1.01	0.10	7449346			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

BV Labs Job #: C114695
Report Date: 2021/07/12

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

BV Labs ID		PZW397			PZW397			PZW398		
Sampling Date		2021/07/02			2021/07/02			2021/07/02		
COC Number		830760-02-01			830760-02-01			830760-02-01		
	UNITS	T-31	RDL	QC Batch	T-31 Lab-Dup	RDL	QC Batch	T-32	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	320	1.0	7444417				320	1.0	7444417
Inorganics										
Total Ammonia-N	mg/L	0.085	0.050	7446552				0.072	0.050	7446552
Total BOD	mg/L	<2	2	7445443				4	2	7445443
Dissolved Organic Carbon	mg/L	4.3	0.40	7448584				4.2	0.40	7448584
pH	pH	8.26		7449381				8.33		7449381
Phenols-4AAP	mg/L	<0.0010	0.0010	7445760				<0.0010	0.0010	7445760
Total Phosphorus	mg/L	0.078	0.004	7448612				0.078	0.004	7448612
Total Suspended Solids	mg/L	14	10	7448469				12	10	7448469
Dissolved Sulphate (SO4)	mg/L	170	1.0	7449327				170	1.0	7449327
Alkalinity (Total as CaCO3)	mg/L	160	1.0	7449374				170	1.0	7449374
Dissolved Chloride (Cl-)	mg/L	180	2.0	7449294				170	2.0	7449294
Nitrite (N)	mg/L	0.033	0.010	7449346	0.032	0.010	7449346	0.025	0.010	7449346
Nitrate (N)	mg/L	1.03	0.10	7449346	1.01	0.10	7449346	1.03	0.10	7449346
Nitrate + Nitrite (N)	mg/L	1.07	0.10	7449346	1.05	0.10	7449346	1.05	0.10	7449346
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C114695
Report Date: 2021/07/12

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

RESULTS OF ANALYSES OF WATER

BV Labs ID		PZW399			PZW400			PZW400		
Sampling Date		2021/07/02			2021/07/02			2021/07/02		
COC Number		830760-01-01			830760-01-01			830760-01-01		
	UNITS	TS-1	RDL	QC Batch	TS-35	RDL	QC Batch	TS-35 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	130	1.0	7444417	130	1.0	7444417			
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7446552	<0.050	0.050	7446552			
Total BOD	mg/L	<2	2	7445443	<2	2	7445443			
Total Kjeldahl Nitrogen (TKN)	mg/L	0.47	0.10	7446914						
Dissolved Organic Carbon	mg/L	5.9	0.40	7448584	5.9	0.40	7448584			
Total Organic Carbon (TOC)	mg/L	6.3	0.40	7446962						
pH	pH	8.92		7449381	8.60		7449381	8.75		7449381
Phenols-4AAP	mg/L	<0.0010	0.0010	7446113	<0.0010	0.0010	7446113			
Total Phosphorus	mg/L	0.059	0.004	7448284	0.041	0.004	7448612			
Total Suspended Solids	mg/L	10	10	7448464	<10	10	7448469			
Dissolved Sulphate (SO4)	mg/L	100	1.0	7449327	100	1.0	7449327			
Alkalinity (Total as CaCO3)	mg/L	61	1.0	7449374	57	1.0	7449374	58	1.0	7449374
Dissolved Chloride (Cl-)	mg/L	32	1.0	7449294	32	1.0	7449294			
Nitrite (N)	mg/L	<0.010	0.010	7449346	<0.010	0.010	7449346			
Nitrate (N)	mg/L	<0.10	0.10	7449346	<0.10	0.10	7449346			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7449346	<0.10	0.10	7449346			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C114695
Report Date: 2021/07/12

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PZW389		PZW390		PZW391		
Sampling Date		2021/07/02		2021/07/02		2021/07/02		
COC Number		830760-02-01		830760-02-01		830760-02-01		
	UNITS	T-1R	RDL	T-3A	QC Batch	T-12	RDL	QC Batch
Metals								
Dissolved (0.2u) Aluminum (Al)	ug/L	25	5	<5	7449440	6	5	7449440
Mercury (Hg)	mg/L	<0.00010	0.00010	<0.00010	7448192	<0.00010	0.00010	7448688
Total Aluminum (Al)	mg/L	0.027	0.0049	0.050	7450556	0.52	0.0049	7450556
Total Arsenic (As)	mg/L	0.0050	0.0010	<0.0010	7450556	<0.0010	0.0010	7450556
Total Beryllium (Be)	mg/L	<0.00040	0.00040	<0.00040	7450556	<0.00040	0.00040	7450556
Total Boron (B)	mg/L	0.39	0.010	0.57	7450556	0.061	0.010	7450556
Total Cadmium (Cd)	mg/L	<0.000090	0.000090	<0.000090	7450556	0.00014	0.000090	7450556
Total Calcium (Ca)	mg/L	100	0.20	310	7450556	88	0.20	7450556
Total Chromium (Cr)	mg/L	<0.0050	0.0050	<0.0050	7450556	<0.0050	0.0050	7450556
Total Cobalt (Co)	mg/L	<0.00050	0.00050	<0.00050	7450556	<0.00050	0.00050	7450556
Total Copper (Cu)	mg/L	0.0019	0.00090	0.0017	7450556	0.0038	0.00090	7450556
Total Iron (Fe)	mg/L	0.23	0.10	0.12	7450556	0.65	0.10	7450556
Total Lead (Pb)	mg/L	0.00053	0.00050	0.00068	7450556	0.0011	0.00050	7450556
Total Magnesium (Mg)	mg/L	13	0.050	75	7450556	27	0.050	7450556
Total Manganese (Mn)	mg/L	0.045	0.0020	0.14	7450556	0.025	0.0020	7450556
Total Molybdenum (Mo)	mg/L	0.055	0.00050	0.0064	7450556	0.0034	0.00050	7450556
Total Nickel (Ni)	mg/L	0.011	0.0010	0.0039	7450556	0.0029	0.0010	7450556
Total Selenium (Se)	mg/L	<0.0020	0.0020	<0.0020	7450556	<0.0020	0.0020	7450556
Total Silver (Ag)	mg/L	<0.000090	0.000090	<0.000090	7450556	<0.000090	0.000090	7450556
Total Sodium (Na)	mg/L	1300	0.50	300	7450556	100	0.10	7450556
Total Strontium (Sr)	mg/L	1.8	0.0010	3.6	7450556	1.9	0.0010	7450556
Total Vanadium (V)	mg/L	0.0022	0.00050	0.00062	7450556	0.0016	0.00050	7450556
Total Zinc (Zn)	mg/L	<0.0050	0.0050	0.018	7450556	0.099	0.0050	7450556
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BUREAU
VERITAS

BV Labs Job #: C1I4695
Report Date: 2021/07/12

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PZW392	PZW393	PZW394	PZW395		
Sampling Date		2021/07/02	2021/07/02	2021/07/02	2021/07/02		
COC Number		830760-02-01	830760-02-01	830760-02-01	830760-02-01		
	UNITS	T-13	T-16	T-15R	T-29	RDL	QC Batch
Metals							
Dissolved (0.2u) Aluminum (Al)	ug/L	8	9	6	6	5	7449440
Mercury (Hg)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	7448192
Total Aluminum (Al)	mg/L	0.53	0.40	0.57	0.51	0.0049	7450556
Total Arsenic (As)	mg/L	<0.0010	<0.0010	0.0011	<0.0010	0.0010	7450556
Total Beryllium (Be)	mg/L	<0.00040	<0.00040	<0.00040	<0.00040	0.00040	7450556
Total Boron (B)	mg/L	0.065	0.081	0.065	0.059	0.010	7450556
Total Cadmium (Cd)	mg/L	0.00012	<0.000090	0.00011	0.00013	0.000090	7450556
Total Calcium (Ca)	mg/L	83	82	83	84	0.20	7450556
Total Chromium (Cr)	mg/L	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7450556
Total Cobalt (Co)	mg/L	<0.00050	<0.00050	0.00051	<0.00050	0.00050	7450556
Total Copper (Cu)	mg/L	0.0042	0.0040	0.0030	0.0038	0.00090	7450556
Total Iron (Fe)	mg/L	0.68	0.52	0.72	0.65	0.10	7450556
Total Lead (Pb)	mg/L	0.0015	0.0011	0.0010	0.0010	0.00050	7450556
Total Magnesium (Mg)	mg/L	25	25	21	26	0.050	7450556
Total Manganese (Mn)	mg/L	0.017	0.023	0.17	0.024	0.0020	7450556
Total Molybdenum (Mo)	mg/L	0.0032	0.0025	0.0019	0.0033	0.00050	7450556
Total Nickel (Ni)	mg/L	0.0024	0.0020	0.0027	0.0027	0.0010	7450556
Total Selenium (Se)	mg/L	<0.0020	<0.0020	<0.0020	<0.0020	0.0020	7450556
Total Silver (Ag)	mg/L	<0.000090	<0.000090	<0.000090	<0.000090	0.000090	7450556
Total Sodium (Na)	mg/L	110	120	85	100	0.10	7450556
Total Strontium (Sr)	mg/L	1.6	1.4	1.7	1.8	0.0010	7450556
Total Vanadium (V)	mg/L	0.0019	0.0016	0.0018	0.0016	0.00050	7450556
Total Zinc (Zn)	mg/L	0.053	0.029	0.050	0.094	0.0050	7450556
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



BUREAU
VERITAS

BV Labs Job #: C114695
Report Date: 2021/07/12

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PZW395			PZW396			PZW396		
Sampling Date		2021/07/02			2021/07/02			2021/07/02		
COC Number		830760-02-01			830760-02-01			830760-02-01		
	UNITS	T-29 Lab-Dup	RDL	QC Batch	T-30	RDL	QC Batch	T-30 Lab-Dup	RDL	QC Batch
Metals										
Dissolved (0.2u) Aluminum (Al)	ug/L	7	5	7449440	7	5	7449440			
Mercury (Hg)	mg/L				<0.00010	0.00010	7448192			
Total Aluminum (Al)	mg/L				0.57	0.0049	7450556	0.63	0.0049	7450556
Total Arsenic (As)	mg/L				<0.0010	0.0010	7450556	<0.0010	0.0010	7450556
Total Beryllium (Be)	mg/L				<0.00040	0.00040	7450556	<0.00040	0.00040	7450556
Total Boron (B)	mg/L				0.061	0.010	7450556	0.062	0.010	7450556
Total Cadmium (Cd)	mg/L				0.00017	0.000090	7450556	0.00015	0.000090	7450556
Total Calcium (Ca)	mg/L				89	0.20	7450556	89	0.20	7450556
Total Chromium (Cr)	mg/L				<0.0050	0.0050	7450556	<0.0050	0.0050	7450556
Total Cobalt (Co)	mg/L				<0.00050	0.00050	7450556	<0.00050	0.00050	7450556
Total Copper (Cu)	mg/L				0.0046	0.00090	7450556	0.0045	0.00090	7450556
Total Iron (Fe)	mg/L				0.66	0.10	7450556	0.72	0.10	7450556
Total Lead (Pb)	mg/L				0.0012	0.00050	7450556	0.0012	0.00050	7450556
Total Magnesium (Mg)	mg/L				27	0.050	7450556	27	0.050	7450556
Total Manganese (Mn)	mg/L				0.035	0.0020	7450556	0.036	0.0020	7450556
Total Molybdenum (Mo)	mg/L				0.0033	0.00050	7450556	0.0033	0.00050	7450556
Total Nickel (Ni)	mg/L				0.0030	0.0010	7450556	0.0029	0.0010	7450556
Total Selenium (Se)	mg/L				<0.0020	0.0020	7450556	<0.0020	0.0020	7450556
Total Silver (Ag)	mg/L				<0.000090	0.000090	7450556	<0.000090	0.000090	7450556
Total Sodium (Na)	mg/L				110	0.10	7450556	110	0.10	7450556
Total Strontium (Sr)	mg/L				1.8	0.0010	7450556	1.8	0.0010	7450556
Total Vanadium (V)	mg/L				0.0018	0.00050	7450556	0.0019	0.00050	7450556
Total Zinc (Zn)	mg/L				0.088	0.0050	7450556	0.089	0.0050	7450556
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C114695
Report Date: 2021/07/12

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PZW397	PZW398			PZW398		
Sampling Date		2021/07/02	2021/07/02			2021/07/02		
COC Number		830760-02-01	830760-02-01			830760-02-01		
	UNITS	T-31	T-32	RDL	QC Batch	T-32 Lab-Dup	RDL	QC Batch

Metals								
Dissolved (0.2u) Aluminum (Al)	ug/L	9	8	5	7449440			
Mercury (Hg)	mg/L	<0.00010	<0.00010	0.00010	7448192	<0.00010	0.00010	7448192
Total Aluminum (Al)	mg/L	0.41	0.50	0.0049	7450556			
Total Arsenic (As)	mg/L	<0.0010	<0.0010	0.0010	7450556			
Total Beryllium (Be)	mg/L	<0.00040	<0.00040	0.00040	7450556			
Total Boron (B)	mg/L	0.074	0.066	0.010	7450556			
Total Cadmium (Cd)	mg/L	0.00011	0.00017	0.000090	7450556			
Total Calcium (Ca)	mg/L	84	88	0.20	7450556			
Total Chromium (Cr)	mg/L	<0.0050	<0.0050	0.0050	7450556			
Total Cobalt (Co)	mg/L	<0.00050	<0.00050	0.00050	7450556			
Total Copper (Cu)	mg/L	0.0037	0.0053	0.00090	7450556			
Total Iron (Fe)	mg/L	0.51	0.61	0.10	7450556			
Total Lead (Pb)	mg/L	0.00096	0.0012	0.00050	7450556			
Total Magnesium (Mg)	mg/L	25	27	0.050	7450556			
Total Manganese (Mn)	mg/L	0.034	0.030	0.0020	7450556			
Total Molybdenum (Mo)	mg/L	0.0031	0.0029	0.00050	7450556			
Total Nickel (Ni)	mg/L	0.0025	0.0028	0.0010	7450556			
Total Selenium (Se)	mg/L	<0.0020	<0.0020	0.0020	7450556			
Total Silver (Ag)	mg/L	<0.000090	<0.000090	0.000090	7450556			
Total Sodium (Na)	mg/L	120	120	0.10	7450556			
Total Strontium (Sr)	mg/L	1.7	1.7	0.0010	7450556			
Total Vanadium (V)	mg/L	0.0015	0.0017	0.00050	7450556			
Total Zinc (Zn)	mg/L	0.071	0.076	0.0050	7450556			

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



BUREAU
VERITAS

BV Labs Job #: C114695
Report Date: 2021/07/12

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		PZW399			PZW400		
Sampling Date		2021/07/02			2021/07/02		
COC Number		830760-01-01			830760-01-01		
	UNITS	TS-1	RDL	QC Batch	TS-35	RDL	QC Batch
Metals							
Dissolved (0.2u) Aluminum (Al)	ug/L	10	5	7449440	11	5	7449440
Mercury (Hg)	mg/L	<0.00010	0.00010	7448688	<0.00010	0.00010	7448192
Total Aluminum (Al)	mg/L	0.95	0.0049	7450556	0.38	0.0049	7450556
Total Arsenic (As)	mg/L	0.0025	0.0010	7450556	0.0024	0.0010	7450556
Total Beryllium (Be)	mg/L	<0.00040	0.00040	7450556	<0.00040	0.00040	7450556
Total Boron (B)	mg/L	0.12	0.010	7450556	0.13	0.010	7450556
Total Cadmium (Cd)	mg/L	<0.000090	0.000090	7450556	<0.000090	0.000090	7450556
Total Calcium (Ca)	mg/L	31	0.20	7450556	28	0.20	7450556
Total Chromium (Cr)	mg/L	<0.0050	0.0050	7450556	<0.0050	0.0050	7450556
Total Cobalt (Co)	mg/L	0.00073	0.00050	7450556	<0.00050	0.00050	7450556
Total Copper (Cu)	mg/L	0.0044	0.00090	7450556	0.0032	0.00090	7450556
Total Iron (Fe)	mg/L	1.5	0.10	7450556	0.56	0.10	7450556
Total Lead (Pb)	mg/L	0.0028	0.00050	7450556	0.0012	0.00050	7450556
Total Magnesium (Mg)	mg/L	17	0.050	7450556	16	0.050	7450556
Total Manganese (Mn)	mg/L	0.063	0.0020	7450556	0.054	0.0020	7450556
Total Molybdenum (Mo)	mg/L	0.0059	0.00050	7450556	0.0066	0.00050	7450556
Total Nickel (Ni)	mg/L	0.0036	0.0010	7450556	0.0026	0.0010	7450556
Total Potassium (K)	mg/L	12	0.20	7450556			
Total Selenium (Se)	mg/L	<0.0020	0.0020	7450556	<0.0020	0.0020	7450556
Total Silver (Ag)	mg/L	<0.000090	0.000090	7450556	<0.000090	0.000090	7450556
Total Sodium (Na)	mg/L	28	0.10	7450556	29	0.10	7450556
Total Strontium (Sr)	mg/L	0.37	0.0010	7450556	0.36	0.0010	7450556
Total Vanadium (V)	mg/L	0.0032	0.00050	7450556	0.0021	0.00050	7450556
Total Zinc (Zn)	mg/L	0.015	0.0050	7450556	0.0097	0.0050	7450556
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							



BUREAU
VERITAS

BV Labs Job #: C114695
Report Date: 2021/07/12

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

TEST SUMMARY

BV Labs ID: PZW389
Sample ID: T-1R
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7449440	N/A	2021/07/08	Nan Raykha
Alkalinity	AT	7449374	N/A	2021/07/08	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7445443	2021/07/06	2021/07/11	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7449294	N/A	2021/07/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7448584	N/A	2021/07/07	Nimarta Singh
Hardness (calculated as CaCO3)		7444417	N/A	2021/07/09	Automated Statchk
Mercury in Water by CVAA	CV/AA	7448192	2021/07/07	2021/07/07	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7450556	N/A	2021/07/08	Nan Raykha
Total Ammonia-N	LACH/NH4	7446552	N/A	2021/07/08	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7449346	N/A	2021/07/08	Chandra Nandlal
pH	AT	7449381	2021/07/07	2021/07/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7446113	N/A	2021/07/06	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7449327	N/A	2021/07/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7448612	2021/07/07	2021/07/08	Shivani Shivani
Total Suspended Solids	BAL	7448469	2021/07/07	2021/07/08	Sandeep Kaur

BV Labs ID: PZW389 Dup
Sample ID: T-1R
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7448584	N/A	2021/07/07	Nimarta Singh

BV Labs ID: PZW390
Sample ID: T-3A
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7449440	N/A	2021/07/08	Nan Raykha
Alkalinity	AT	7449374	N/A	2021/07/08	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7445443	2021/07/06	2021/07/11	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7449294	N/A	2021/07/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7448584	N/A	2021/07/07	Nimarta Singh
Hardness (calculated as CaCO3)		7444417	N/A	2021/07/09	Automated Statchk
Mercury in Water by CVAA	CV/AA	7448192	2021/07/07	2021/07/07	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7450556	N/A	2021/07/08	Nan Raykha
Total Ammonia-N	LACH/NH4	7446552	N/A	2021/07/08	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7449346	N/A	2021/07/08	Chandra Nandlal
pH	AT	7449381	2021/07/07	2021/07/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7446113	N/A	2021/07/06	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7449327	N/A	2021/07/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7448612	2021/07/07	2021/07/08	Shivani Shivani
Total Suspended Solids	BAL	7448469	2021/07/07	2021/07/08	Sandeep Kaur



BUREAU
VERITAS

BV Labs Job #: C114695
Report Date: 2021/07/12

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

TEST SUMMARY

BV Labs ID: PZW390 Dup
Sample ID: T-3A
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7446552	N/A	2021/07/08	Amanpreet Sappal

BV Labs ID: PZW391
Sample ID: T-12
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7449440	N/A	2021/07/08	Nan Raykha
Alkalinity	AT	7449374	N/A	2021/07/08	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7445443	2021/07/06	2021/07/11	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7449294	N/A	2021/07/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7448584	N/A	2021/07/07	Nimarta Singh
Hardness (calculated as CaCO3)		7444417	N/A	2021/07/09	Automated Statchk
Mercury in Water by CVAA	CV/AA	7448688	2021/07/07	2021/07/07	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7450556	N/A	2021/07/08	Nan Raykha
Total Ammonia-N	LACH/NH4	7446552	N/A	2021/07/08	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7449346	N/A	2021/07/08	Chandra Nandlal
pH	AT	7449381	2021/07/07	2021/07/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7445760	N/A	2021/07/06	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7449327	N/A	2021/07/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7448284	2021/07/07	2021/07/07	Shivani Shivani
Total Suspended Solids	BAL	7448464	2021/07/07	2021/07/08	Sandeep Kaur

BV Labs ID: PZW391 Dup
Sample ID: T-12
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride by Automated Colourimetry	KONE	7449294	N/A	2021/07/08	Alina Dobreanu
Sulphate by Automated Colourimetry	KONE	7449327	N/A	2021/07/08	Alina Dobreanu

BV Labs ID: PZW392
Sample ID: T-13
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7449440	N/A	2021/07/08	Nan Raykha
Alkalinity	AT	7449374	N/A	2021/07/08	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7445443	2021/07/06	2021/07/11	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7449294	N/A	2021/07/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7448584	N/A	2021/07/07	Nimarta Singh
Hardness (calculated as CaCO3)		7444417	N/A	2021/07/09	Automated Statchk
Mercury in Water by CVAA	CV/AA	7448192	2021/07/07	2021/07/07	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7450556	N/A	2021/07/08	Nan Raykha
Total Ammonia-N	LACH/NH4	7446552	N/A	2021/07/08	Amanpreet Sappal



BUREAU
VERITAS

BV Labs Job #: C114695
Report Date: 2021/07/12

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

TEST SUMMARY

BV Labs ID: PZW392
Sample ID: T-13
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7449346	N/A	2021/07/08	Chandra Nandlal
pH	AT	7449381	2021/07/07	2021/07/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7446113	N/A	2021/07/06	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7449327	N/A	2021/07/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7448612	2021/07/07	2021/07/08	Shivani Shivani
Total Suspended Solids	BAL	7448464	2021/07/07	2021/07/08	Sandeep Kaur

BV Labs ID: PZW393
Sample ID: T-16
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7449440	N/A	2021/07/08	Nan Raykha
Alkalinity	AT	7449374	N/A	2021/07/08	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7445443	2021/07/06	2021/07/11	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7449294	N/A	2021/07/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7448584	N/A	2021/07/07	Nimarta Singh
Hardness (calculated as CaCO3)		7444417	N/A	2021/07/09	Automated Statchk
Mercury in Water by CVAA	CV/AA	7448192	2021/07/07	2021/07/07	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7450556	N/A	2021/07/08	Nan Raykha
Total Ammonia-N	LACH/NH4	7446552	N/A	2021/07/08	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7449346	N/A	2021/07/08	Chandra Nandlal
pH	AT	7449381	2021/07/07	2021/07/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7445760	N/A	2021/07/06	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7449327	N/A	2021/07/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7448612	2021/07/07	2021/07/08	Shivani Shivani
Total Suspended Solids	BAL	7448469	2021/07/07	2021/07/08	Sandeep Kaur

BV Labs ID: PZW394
Sample ID: T-15R
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7449440	N/A	2021/07/08	Nan Raykha
Alkalinity	AT	7449374	N/A	2021/07/08	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7445443	2021/07/06	2021/07/11	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7449294	N/A	2021/07/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7448584	N/A	2021/07/07	Nimarta Singh
Hardness (calculated as CaCO3)		7444417	N/A	2021/07/09	Automated Statchk
Mercury in Water by CVAA	CV/AA	7448192	2021/07/07	2021/07/07	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7450556	N/A	2021/07/08	Nan Raykha
Total Ammonia-N	LACH/NH4	7446552	N/A	2021/07/08	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7449346	N/A	2021/07/08	Chandra Nandlal
pH	AT	7449381	2021/07/07	2021/07/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7446113	N/A	2021/07/06	Deonarine Ramnarine



BUREAU
VERITAS

BV Labs Job #: C114695
Report Date: 2021/07/12

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

TEST SUMMARY

BV Labs ID: PZW394
Sample ID: T-15R
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sulphate by Automated Colourimetry	KONE	7449327	N/A	2021/07/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7448284	2021/07/07	2021/07/07	Shivani Shivani
Total Suspended Solids	BAL	7448469	2021/07/07	2021/07/08	Sandeep Kaur

BV Labs ID: PZW395
Sample ID: T-29
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7449440	N/A	2021/07/08	Nan Raykha
Alkalinity	AT	7449374	N/A	2021/07/08	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7445443	2021/07/06	2021/07/11	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7449294	N/A	2021/07/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7448584	N/A	2021/07/07	Nimarta Singh
Hardness (calculated as CaCO3)		7444417	N/A	2021/07/09	Automated Statchk
Mercury in Water by CVAA	CV/AA	7448192	2021/07/07	2021/07/07	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7450556	N/A	2021/07/08	Nan Raykha
Total Ammonia-N	LACH/NH4	7446552	N/A	2021/07/08	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7449346	N/A	2021/07/08	Chandra Nandlal
pH	AT	7449381	2021/07/07	2021/07/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7446113	N/A	2021/07/06	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7449327	N/A	2021/07/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7448284	2021/07/07	2021/07/07	Shivani Shivani
Total Suspended Solids	BAL	7448464	2021/07/07	2021/07/08	Sandeep Kaur

BV Labs ID: PZW395 Dup
Sample ID: T-29
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7449440	N/A	2021/07/08	Nan Raykha

BV Labs ID: PZW396
Sample ID: T-30
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7449440	N/A	2021/07/08	Nan Raykha
Alkalinity	AT	7449825	N/A	2021/07/08	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7445443	2021/07/06	2021/07/11	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7449294	N/A	2021/07/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7448584	N/A	2021/07/07	Nimarta Singh
Hardness (calculated as CaCO3)		7444417	N/A	2021/07/09	Automated Statchk
Mercury in Water by CVAA	CV/AA	7448192	2021/07/07	2021/07/07	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7450556	N/A	2021/07/08	Nan Raykha



BUREAU
VERITAS

BV Labs Job #: C114695
Report Date: 2021/07/12

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

TEST SUMMARY

BV Labs ID: PZW396
Sample ID: T-30
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7446552	N/A	2021/07/08	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7449346	N/A	2021/07/08	Chandra Nandlal
pH	AT	7449828	2021/07/07	2021/07/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7446113	N/A	2021/07/06	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7449327	N/A	2021/07/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7448284	2021/07/07	2021/07/07	Shivani Shivani
Total Suspended Solids	BAL	7448469	2021/07/07	2021/07/08	Sandeep Kaur

BV Labs ID: PZW396 Dup
Sample ID: T-30
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7449825	N/A	2021/07/08	Surinder Rai
Total Metals Analysis by ICPMS	ICP/MS	7450556	N/A	2021/07/08	Nan Raykha
pH	AT	7449828	2021/07/07	2021/07/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7446113	N/A	2021/07/06	Deonarine Ramnarine

BV Labs ID: PZW397
Sample ID: T-31
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7449440	N/A	2021/07/08	Nan Raykha
Alkalinity	AT	7449374	N/A	2021/07/08	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7445443	2021/07/06	2021/07/11	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7449294	N/A	2021/07/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7448584	N/A	2021/07/07	Nimarta Singh
Hardness (calculated as CaCO3)		7444417	N/A	2021/07/09	Automated Statchk
Mercury in Water by CVAA	CV/AA	7448192	2021/07/07	2021/07/07	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7450556	N/A	2021/07/08	Nan Raykha
Total Ammonia-N	LACH/NH4	7446552	N/A	2021/07/08	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7449346	N/A	2021/07/08	Chandra Nandlal
pH	AT	7449381	2021/07/07	2021/07/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7445760	N/A	2021/07/06	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7449327	N/A	2021/07/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7448612	2021/07/07	2021/07/08	Shivani Shivani
Total Suspended Solids	BAL	7448469	2021/07/07	2021/07/08	Sandeep Kaur

BV Labs ID: PZW397 Dup
Sample ID: T-31
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7449346	N/A	2021/07/08	Chandra Nandlal



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VERITAS

BV Labs Job #: C114695
Report Date: 2021/07/12

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

TEST SUMMARY

BV Labs ID: PZW398
Sample ID: T-32
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7449440	N/A	2021/07/08	Nan Raykha
Alkalinity	AT	7449374	N/A	2021/07/08	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7445443	2021/07/06	2021/07/11	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7449294	N/A	2021/07/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7448584	N/A	2021/07/07	Nimarta Singh
Hardness (calculated as CaCO3)		7444417	N/A	2021/07/09	Automated Statchk
Mercury in Water by CVAA	CV/AA	7448192	2021/07/07	2021/07/07	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7450556	N/A	2021/07/08	Nan Raykha
Total Ammonia-N	LACH/NH4	7446552	N/A	2021/07/08	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7449346	N/A	2021/07/08	Chandra Nandlal
pH	AT	7449381	2021/07/07	2021/07/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7445760	N/A	2021/07/06	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7449327	N/A	2021/07/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7448612	2021/07/07	2021/07/08	Shivani Shivani
Total Suspended Solids	BAL	7448469	2021/07/07	2021/07/08	Sandeep Kaur

BV Labs ID: PZW398 Dup
Sample ID: T-32
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury in Water by CVAA	CV/AA	7448192	2021/07/07	2021/07/07	Gagandeep Rai

BV Labs ID: PZW399
Sample ID: TS-1
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7449440	N/A	2021/07/08	Nan Raykha
Alkalinity	AT	7449374	N/A	2021/07/08	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7445443	2021/07/06	2021/07/11	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7449294	N/A	2021/07/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7448584	N/A	2021/07/07	Nimarta Singh
Hardness (calculated as CaCO3)		7444417	N/A	2021/07/09	Automated Statchk
Mercury in Water by CVAA	CV/AA	7448688	2021/07/07	2021/07/07	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7450556	N/A	2021/07/08	Nan Raykha
Total Ammonia-N	LACH/NH4	7446552	N/A	2021/07/08	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7449346	N/A	2021/07/08	Chandra Nandlal
pH	AT	7449381	2021/07/07	2021/07/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7446113	N/A	2021/07/06	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7449327	N/A	2021/07/08	Alina Dobreanu
Total Kjeldahl Nitrogen in Water	SKAL	7446914	2021/07/06	2021/07/08	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7446962	N/A	2021/07/06	Nimarta Singh
Total Phosphorus (Colourimetric)	LACH/P	7448284	2021/07/07	2021/07/07	Shivani Shivani
Total Suspended Solids	BAL	7448464	2021/07/07	2021/07/08	Sandeep Kaur



BUREAU
VERITAS

BV Labs Job #: C114695
Report Date: 2021/07/12

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

TEST SUMMARY

BV Labs ID: PZW400
Sample ID: TS-35
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Aluminum (0.2 u, clay free)	ICP/MS	7449440	N/A	2021/07/08	Nan Raykha
Alkalinity	AT	7449374	N/A	2021/07/08	Surinder Rai
Biochemical Oxygen Demand (BOD)	DO	7445443	2021/07/06	2021/07/11	Nusrat Naz
Chloride by Automated Colourimetry	KONE	7449294	N/A	2021/07/08	Alina Dobreanu
Dissolved Organic Carbon (DOC)	TOCV/NDIR	7448584	N/A	2021/07/07	Nimarta Singh
Hardness (calculated as CaCO3)		7444417	N/A	2021/07/09	Automated Statchk
Mercury in Water by CVAA	CV/AA	7448192	2021/07/07	2021/07/07	Gagandeep Rai
Total Metals Analysis by ICPMS	ICP/MS	7450556	N/A	2021/07/08	Nan Raykha
Total Ammonia-N	LACH/NH4	7446552	N/A	2021/07/08	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7449346	N/A	2021/07/08	Chandra Nandlal
pH	AT	7449381	2021/07/07	2021/07/08	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7446113	N/A	2021/07/06	Deonarine Ramnarine
Sulphate by Automated Colourimetry	KONE	7449327	N/A	2021/07/08	Alina Dobreanu
Total Phosphorus (Colourimetric)	LACH/P	7448612	2021/07/07	2021/07/08	Shivani Shivani
Total Suspended Solids	BAL	7448469	2021/07/07	2021/07/08	Sandeep Kaur

BV Labs ID: PZW400 Dup
Sample ID: TS-35
Matrix: Water

Collected: 2021/07/02
Shipped:
Received: 2021/07/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7449374	N/A	2021/07/08	Surinder Rai
pH	AT	7449381	2021/07/07	2021/07/08	Surinder Rai



GENERAL COMMENTS

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

Package 1	0.7°C
Package 2	1.7°C
Package 3	1.0°C

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: C114695
Report Date: 2021/07/12

QUALITY ASSURANCE REPORT

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

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
7445443	Total BOD	2021/07/11					<2	mg/L	20	30	93	80 - 120
7445760	Phenols-4AAP	2021/07/06	94	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
7446113	Phenols-4AAP	2021/07/06	99	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20		
7446552	Total Ammonia-N	2021/07/08	105	75 - 125	101	80 - 120	<0.050	mg/L	2.0	20		
7446914	Total Kjeldahl Nitrogen (TKN)	2021/07/07	102	80 - 120	104	80 - 120	<0.10	mg/L	NC	20	105	80 - 120
7446962	Total Organic Carbon (TOC)	2021/07/06	92	80 - 120	95	80 - 120	<0.40	mg/L	1.6	20		
7448192	Mercury (Hg)	2021/07/07	95	75 - 125	96	80 - 120	<0.00010	mg/L	NC	20		
7448284	Total Phosphorus	2021/07/07	94	80 - 120	101	80 - 120	<0.004	mg/L	16	20	98	80 - 120
7448464	Total Suspended Solids	2021/07/08					<10	mg/L	7.4	25	98	85 - 115
7448469	Total Suspended Solids	2021/07/08					<10	mg/L	NC	25	100	85 - 115
7448584	Dissolved Organic Carbon	2021/07/07	NC	80 - 120	97	80 - 120	<0.40	mg/L	0.88	20		
7448612	Total Phosphorus	2021/07/08	NC	80 - 120	99	80 - 120	<0.004	mg/L	2.3	20	88	80 - 120
7448688	Mercury (Hg)	2021/07/07	95	75 - 125	97	80 - 120	<0.00010	mg/L	NC	20		
7449294	Dissolved Chloride (Cl-)	2021/07/08	NC	80 - 120	99	80 - 120	<1.0	mg/L	7.3	20		
7449327	Dissolved Sulphate (SO4)	2021/07/08	NC	75 - 125	100	80 - 120	<1.0	mg/L	3.0	20		
7449346	Nitrate (N)	2021/07/08	98	80 - 120	101	80 - 120	<0.10	mg/L	1.9	20		
7449346	Nitrite (N)	2021/07/08	102	80 - 120	104	80 - 120	<0.010	mg/L	3.1	20		
7449374	Alkalinity (Total as CaCO3)	2021/07/08			96	85 - 115	<1.0	mg/L	1.8	20		
7449381	pH	2021/07/08			102	98 - 103			1.7	N/A		
7449440	Dissolved (0.2u) Aluminum (Al)	2021/07/08	103	80 - 120	102	80 - 120	<5	ug/L	8.5	20		
7449825	Alkalinity (Total as CaCO3)	2021/07/08			97	85 - 115	<1.0	mg/L	3.3	20		
7449828	pH	2021/07/08			102	98 - 103			0.97	N/A		
7450556	Total Aluminum (Al)	2021/07/08	NC	80 - 120	99	80 - 120	<0.0049	mg/L	10	20		
7450556	Total Arsenic (As)	2021/07/08	101	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20		
7450556	Total Beryllium (Be)	2021/07/08	102	80 - 120	98	80 - 120	<0.00040	mg/L	NC	20		
7450556	Total Boron (B)	2021/07/08	101	80 - 120	94	80 - 120	<0.010	mg/L	2.0	20		
7450556	Total Cadmium (Cd)	2021/07/08	101	80 - 120	98	80 - 120	<0.000090	mg/L	12	20		
7450556	Total Calcium (Ca)	2021/07/08	NC	80 - 120	96	80 - 120	<0.20	mg/L	0.30	20		
7450556	Total Chromium (Cr)	2021/07/08	97	80 - 120	97	80 - 120	<0.0050	mg/L	NC	20		
7450556	Total Cobalt (Co)	2021/07/08	98	80 - 120	99	80 - 120	<0.00050	mg/L	NC	20		
7450556	Total Copper (Cu)	2021/07/08	99	80 - 120	99	80 - 120	<0.00090	mg/L	1.8	20		



BUREAU
VERITAS

BV Labs Job #: C114695
Report Date: 2021/07/12

QUALITY ASSURANCE REPORT(CONT'D)

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

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
7450556	Total Iron (Fe)	2021/07/08	97	80 - 120	96	80 - 120	<0.10	mg/L	7.8	20		
7450556	Total Lead (Pb)	2021/07/08	96	80 - 120	95	80 - 120	<0.00050	mg/L	1.9	20		
7450556	Total Magnesium (Mg)	2021/07/08	NC	80 - 120	98	80 - 120	<0.050	mg/L	1.7	20		
7450556	Total Manganese (Mn)	2021/07/08	97	80 - 120	97	80 - 120	<0.0020	mg/L	1.3	20		
7450556	Total Molybdenum (Mo)	2021/07/08	102	80 - 120	99	80 - 120	<0.00050	mg/L	0.090	20		
7450556	Total Nickel (Ni)	2021/07/08	96	80 - 120	97	80 - 120	<0.0010	mg/L	4.5	20		
7450556	Total Potassium (K)	2021/07/08	96	80 - 120	96	80 - 120	<0.20	mg/L				
7450556	Total Selenium (Se)	2021/07/08	103	80 - 120	102	80 - 120	<0.0020	mg/L	NC	20		
7450556	Total Silver (Ag)	2021/07/08	102	80 - 120	101	80 - 120	<0.000090	mg/L	NC	20		
7450556	Total Sodium (Na)	2021/07/08	NC	80 - 120	98	80 - 120	<0.10	mg/L	2.7	20		
7450556	Total Strontium (Sr)	2021/07/08	NC	80 - 120	93	80 - 120	<0.0010	mg/L	1.9	20		
7450556	Total Vanadium (V)	2021/07/08	98	80 - 120	96	80 - 120	<0.00050	mg/L	0.97	20		
7450556	Total Zinc (Zn)	2021/07/08	100	80 - 120	101	80 - 120	<0.0050	mg/L	0.89	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).



BUREAU
VERITAS

BV Labs Job #: C114695
Report Date: 2021/07/12

Terrapure Environmental
Client Project #: SW
Sampler Initials: CR

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

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.

IMMEDIATE

Bureau Veritas Laboratories
13740 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: 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: Fax: Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		PROJECT INFORMATION: Quotation #: B60569 P.O. #: Project: SW Project Name: SW Site #: Sampled By:		Laboratory Use Only: BV Labs Job #: Bottle Order #: 830760 COC #: Project Manager: Jolanta Goralczyk C#830760-02-01	
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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, V)	Lut-C: SW Water Quality (Full)	Lut-E: SW: Free Chlorine Compounds	Lut-F: SW: Water Quality (Microbes)	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 Diatoms/Furans are > 5 days - contact your Project Manager for details.	
Table 1	Res/Park	Medium/Fine	CCME	Sanitary Sewer Bylaw		Job Specific Rush TAT (if applies to entire submission) Date Required: Time Required: <input type="checkbox"/> Rush Confirmation Number: (call lab for #)						
Table 2	Ind/Comm	Coarse	Reg 558	Storm Sewer Bylaw		# of Bottles	Comments					
Table 3	Agri/Other	For RSC	MISA	Municipality								
Table			PWQO	Reg 406 Table								
Include Criteria on Certificate of Analysis (Y/N)?												
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix								
1	T-1R	21/07/02	AM	SW	Y	✓					9	
2	T-3A			SW	Y	✓					9	
3	T-12			SW	Y	✓					9	
4	T-13			SW	Y	✓					9	
5	T-16			SW	Y	✓					9	
6	T-15R			SW	Y	✓					9	
7	T-29			SW	Y	✓					9	
8	T-30			SW	Y	✓					9	
9	T-31			SW	Y	✓					9	
10	T-32			SW	Y	✓					9	

* RELINQUISHED BY: (Signature/Print) C. Richardson / Cooper Richardson		Date: (YY/MM/DD) 21/07/05	Time	RECEIVED BY: (Signature/Print) [Signature]		Date: (YY/MM/DD) 10/10/15	Time 15:45	# jars used and not submitted	Laboratory Use Only		Custody Seal Present	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
								Time Sensitive	Temperature (°C) on Receipt 11/01 9/11/0 2/1/0	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.

** 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



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.bvlab.com

CHAIN OF CUSTODY RECORD

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: 830760		
Attention: Accounting	Attention:	P.O. #:	COC #:		Project Manager: Jolanta Goralczyk		
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address:	Project: SW	Barcode: C#830760-01-01				
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel: Fax:	Project Name: SW					
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						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 (Pb) Cr VI List 1 ^o SW Water Quality (Full) List 2 ^o SW Water Quality (Components) List 3 ^o SW Water Quality (Trace Metals)							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 #)					
<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	<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	Field Filtered	Metals	List 1	List 2	List 3	TOC	K	TKN									
1	TS-1	21/07/02	AM	SW	Y	Y	Y			Y	Y	Y								9	
2	T.35	↓	↓	SW	Y	Y														9	
3				SW																	
4				SW																	
5				SW																	
6				SW																	
7				SW																	
8				SW																	
9				SW																	
10				SW																	

RELINQUISHED BY: (Signature/Print) C. Richardson / Cooper Richardson	Date: (YY/MM/DD) 21/07/05	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD) 21/07/05	Time 15:15	# jars used and not submitted	Laboratory Use Only			
							Time Sensitive	Temperature (°C) on Receipt 1/0/1 7/1/0 4/1/0	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.
SAMPLER 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. #: 808571-19-01, 819873-31-01, 830760-03-01, 819873-32-01, 834487-03-01

Report Date: 2021/08/06
Report #: R6752771
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1L0576

Received: 2021/07/27, 15:10

Sample Matrix: Water
Samples Received: 31

Analyses	Date		Laboratory Method	Analytical Method
	Quantity	Extracted		
Alkalinity	3	N/A	2021/07/28 CAM SOP-00448	SM 23 2320 B m
Alkalinity	26	N/A	2021/07/29 CAM SOP-00448	SM 23 2320 B m
Alkalinity	2	N/A	2021/07/30 CAM SOP-00448	SM 23 2320 B m
Anions	19	N/A	2021/07/29 CAM SOP-00435	SM 23 4110 B m
Anions	11	N/A	2021/07/30 CAM SOP-00435	SM 23 4110 B m
Anions	1	N/A	2021/08/03 CAM SOP-00435	SM 23 4110 B m
Conductivity	3	N/A	2021/07/28 CAM SOP-00414	SM 23 2510 m
Conductivity	26	N/A	2021/07/29 CAM SOP-00414	SM 23 2510 m
Conductivity	2	N/A	2021/07/30 CAM SOP-00414	SM 23 2510 m
Fluoride	3	2021/07/28	2021/07/28 CAM SOP-00449	SM 23 4500-F C m
Fluoride	25	2021/07/28	2021/07/29 CAM SOP-00449	SM 23 4500-F C m
Fluoride	1	2021/07/29	2021/07/29 CAM SOP-00449	SM 23 4500-F C m
Fluoride	2	2021/07/30	2021/07/30 CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	20	N/A	2021/07/30 CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	9	N/A	2021/08/03 CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	2	N/A	2021/08/05 CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	18	N/A	2021/07/29 CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	3	N/A	2021/07/30 CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	8	N/A	2021/08/03 CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	2	N/A	2021/08/04 CAM SOP-00447	EPA 6020B m
Total Ammonia-N	9	N/A	2021/07/30 CAM SOP-00441	USGS I-2522-90 m
Total Ammonia-N	22	N/A	2021/08/03 CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	5	N/A	2021/07/28 CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate (NO3) and Nitrite (NO2) in Water (1)	23	N/A	2021/07/29 CAM SOP-00440	SM 23 4500-NO3I/NO2B



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. #: 808571-19-01, 819873-31-01, 830760-03-01, 819873-32-01, 834487-03-01

Report Date: 2021/08/06
Report #: R6752771
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1L0576

Received: 2021/07/27, 15:10

Sample Matrix: Water
Samples Received: 31

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Nitrate (NO3) and Nitrite (NO2) in Water (1)	2	N/A	2021/07/30	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate (NO3) and Nitrite (NO2) in Water (1)	1	N/A	2021/08/03	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	3	2021/07/28	2021/07/28	CAM SOP-00413	SM 4500H+ B m
pH	25	2021/07/28	2021/07/29	CAM SOP-00413	SM 4500H+ B m
pH	1	2021/07/29	2021/07/29	CAM SOP-00413	SM 4500H+ B m
pH	2	2021/07/30	2021/07/30	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	29	N/A	2021/07/28	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	1	N/A	2021/07/29	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	1	N/A	2021/07/30	CAM SOP-00444	OMOE E3179 m
Orthophosphate	1	N/A	2021/07/30	CAM SOP-00461	EPA 365.1 m
Orthophosphate	29	N/A	2021/08/03	CAM SOP-00461	EPA 365.1 m
Orthophosphate	1	N/A	2021/08/04	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	28	2021/07/29	2021/07/30	CAM SOP-00428	SM 23 2540C m
Total Dissolved Solids	3	2021/07/31	2021/08/03	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	4	2021/07/28	2021/07/28	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	16	2021/07/28	2021/07/29	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	9	2021/07/28	2021/07/30	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	2	2021/07/29	2021/08/03	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	22	N/A	2021/07/29	CAM SOP-00446	SM 23 5310B m
Total Organic Carbon (TOC) (2)	9	N/A	2021/07/30	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. #: 808571-19-01, 819873-31-01, 830760-03-01, 819873-32-01, 834487-03-01

Report Date: 2021/08/06
Report #: R6752771
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1L0576

Received: 2021/07/27, 15:10

Encryption Key

Hongmei Zhao (Grace)
Project Manager
06 Aug 2021 10:27:18

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 #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG050			QFG051			QFG052		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		808571-19-01			808571-19-01			808571-19-01		
	UNITS	P10-I	RDL	QC Batch	P10-II	RDL	QC Batch	P10-III	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2800	1.0	7485747	2600	1.0	7485747	2300	1.0	7485747
Inorganics										
Total Ammonia-N	mg/L	28	0.050	7488114	36	0.25	7488114	5.2	0.050	7488052
Conductivity	umho/cm	11000	1.0	7487966	14000	1.0	7487966	7600	1.0	7487966
Total Dissolved Solids	mg/L	7900	20	7488031	9570	20	7488031	5880	20	7488031
Fluoride (F-)	mg/L	1.2	0.10	7487946	3.4	0.10	7487946	1.0	0.10	7487946
Total Kjeldahl Nitrogen (TKN)	mg/L	29	2.0	7488117	42	2.0	7488117	5.6	0.50	7488057
Total Organic Carbon (TOC)	mg/L	5.5	0.40	7490538	16	0.40	7490538	0.82	0.40	7488048
Orthophosphate (P)	mg/L	0.011	0.010	7487989	0.014	0.010	7488070	<0.20 (1)	0.20	7488070
pH	pH	7.85		7487963	8.49		7487963	8.12		7487963
Phenols-4AAP	mg/L	<0.0010	0.0010	7487930	0.022	0.0020	7487770	<0.0020 (2)	0.0020	7487770
Alkalinity (Total as CaCO3)	mg/L	140	1.0	7487956	130	1.0	7487956	510	1.0	7487956
Nitrite (N)	mg/L	<0.010	0.010	7488503	<0.010	0.010	7488503	<0.010	0.010	7488503
Dissolved Chloride (Cl-)	mg/L	2600	20	7488069	3000	20	7488069	1200	10	7492403
Nitrate (N)	mg/L	<0.10	0.10	7488503	<0.10	0.10	7488503	<0.10	0.10	7488503
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488503	<0.10	0.10	7488503	<0.10	0.10	7488503
Dissolved Bromide (Br-)	mg/L	<20	20	7488069	<20	20	7488069	17	10	7492403
Dissolved Sulphate (SO4)	mg/L	1500	20	7488069	1600	20	7488069	2200	10	7492403

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) Due to colour interferences, sample required dilution. Detection limit was adjusted accordingly.

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



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG053			QFG053			QFG055		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		808571-19-01			808571-19-01			808571-19-01		
	UNITS	P10-IV	RDL	QC Batch	P10-IV Lab-Dup	RDL	QC Batch	P4-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1300	1.0	7485747				2700	1.0	7485747
Inorganics										
Total Ammonia-N	mg/L	4.0	0.050	7488052				36	0.25	7488052
Conductivity	umho/cm	3900	1.0	7487966				11000	1.0	7487966
Total Dissolved Solids	mg/L	2870	10	7488031	2940	10	7488031	7690	20	7488031
Fluoride (F-)	mg/L	1.8	0.10	7487946				1.3	0.10	7487946
Total Kjeldahl Nitrogen (TKN)	mg/L	4.4	0.50	7488057				36	1.0	7488057
Total Organic Carbon (TOC)	mg/L	7.2	0.40	7488048				7.4	0.40	7488048
Orthophosphate (P)	mg/L	<0.010	0.010	7487989				0.016	0.010	7487989
pH	pH	7.83		7487963				8.12		7487963
Phenols-4AAP	mg/L	<0.0010	0.0010	7487770				<0.0010	0.0010	7487770
Alkalinity (Total as CaCO3)	mg/L	160	1.0	7487956				100	1.0	7487956
Nitrite (N)	mg/L	<0.010	0.010	7488081				<0.010	0.010	7488503
Dissolved Chloride (Cl-)	mg/L	370	10	7488069				2300	20	7488069
Nitrate (N)	mg/L	<0.10	0.10	7488081				<0.10	0.10	7488503
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488081				<0.10	0.10	7488503
Dissolved Bromide (Br-)	mg/L	<10	10	7488069				<10	10	7488069
Dissolved Sulphate (SO4)	mg/L	1400	10	7488069				1700	10	7488069

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



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG056				QFG057				QFG059		
Sampling Date		2021/07/26				2021/07/26				2021/07/26		
COC Number		808571-19-01				808571-19-01				808571-19-01		
	UNITS	P4-II	RDL	QC Batch	P4-III	RDL	QC Batch	G24	RDL	QC Batch		
Calculated Parameters												
Hardness (CaCO3)	mg/L	510	1.0	7485747	2100	1.0	7485747	750	1.0	7485747		
Inorganics												
Total Ammonia-N	mg/L	180	0.50	7488052	13	0.050	7488052	0.094	0.050	7488052		
Conductivity	umho/cm	14000	1.0	7487966	9400	1.0	7487966	1400	1.0	7488058		
Total Dissolved Solids	mg/L	7180	20	7488031	6240	20	7491227	935	10	7491227		
Fluoride (F-)	mg/L	3.5	0.10	7487946	1.1	0.10	7487946	0.81	0.10	7488046		
Total Kjeldahl Nitrogen (TKN)	mg/L	190	5.0	7488057	14	0.50	7488057	0.35	0.10	7488057		
Total Organic Carbon (TOC)	mg/L	36	0.40	7488048	14	0.40	7488048	3.2	0.40	7488048		
Orthophosphate (P)	mg/L	0.012	0.010	7487989	0.013	0.010	7487989	<0.010	0.010	7488070		
pH	pH	9.39		7487963	7.95		7487963	7.84		7488060		
Phenols-4AAP	mg/L	1.1	0.020	7487930	0.0010	0.0010	7487930	<0.0010	0.0010	7487930		
Alkalinity (Total as CaCO3)	mg/L	410	1.0	7487956	110	1.0	7487956	290	1.0	7488054		
Nitrite (N)	mg/L	<0.010	0.010	7488081	<0.010	0.010	7488503	<0.010	0.010	7488509		
Dissolved Chloride (Cl-)	mg/L	4300	50	7488069	2400	20	7488069	95	1.0	7488654		
Nitrate (N)	mg/L	<0.10	0.10	7488081	<0.10	0.10	7488503	<0.10	0.10	7488509		
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488081	<0.10	0.10	7488503	<0.10	0.10	7488509		
Dissolved Bromide (Br-)	mg/L	<50	50	7488069	<20	20	7488069	<1.0	1.0	7488654		
Dissolved Sulphate (SO4)	mg/L	510	50	7488069	1100	20	7488069	380	1.0	7488654		
RDL = Reportable Detection Limit												
QC Batch = Quality Control Batch												



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG060			QFO062		QFO063		
Sampling Date		2021/07/26			2021/07/26		2021/07/26		
COC Number		808571-19-01			834487-03-01		834487-03-01		
	UNITS	4-IV	RDL	QC Batch	40-II	QC Batch	40-III	RDL	QC Batch

Calculated Parameters									
Hardness (CaCO3)	mg/L	540	1.0	7485747	1400	7487957	1300	1.0	7487957
Inorganics									
Total Ammonia-N	mg/L	190	0.50	7488052	5.8	7491223	5.6 (1)	0.050	7491223
Conductivity	umho/cm	13000	1.0	7488058	4100	7493818	3900	1.0	7493671
Total Dissolved Solids	mg/L	7220	20	7488031	2720	7491199	2630	10	7491199
Fluoride (F-)	mg/L	3.4	0.10	7488046	1.2	7493787	1.2	0.10	7493661
Total Kjeldahl Nitrogen (TKN)	mg/L	190	5.0	7488057	6.0	7491225	5.5 (1)	0.50	7491225
Total Organic Carbon (TOC)	mg/L	36	0.40	7488048	3.4	7491216	3.5	0.40	7491216
Orthophosphate (P)	mg/L	0.016	0.010	7488070	<0.010	7494261	<0.010	0.010	7491173
pH	pH	9.30		7488060	7.77	7493792	7.67		7493677
Phenols-4AAP	mg/L	1.2	0.050	7487930	<0.0010	7490955	<0.0010	0.0010	7490955
Alkalinity (Total as CaCO3)	mg/L	370	1.0	7488054	230	7493814	230	1.0	7493675
Nitrite (N)	mg/L	<0.010	0.010	7488503	<0.010	7494181	<0.010	0.010	7491179
Dissolved Chloride (Cl-)	mg/L	3900	20	7492403	590	7494165	560	10	7492403
Nitrate (N)	mg/L	<0.10	0.10	7488503	<0.10	7494181	<0.10	0.10	7491179
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488503	<0.10	7494181	<0.10	0.10	7491179
Dissolved Bromide (Br-)	mg/L	<20	20	7492403	<10	7494165	<10	10	7492403
Dissolved Sulphate (SO4)	mg/L	640	20	7492403	1100	7494165	1000	10	7492403

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.



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG061			QFG061			QFG062		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		819873-31-01			819873-31-01			819873-31-01		
	UNITS	29-I	RDL	QC Batch	29-I Lab-Dup	RDL	QC Batch	29-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1900	1.0	7485747				1100	1.0	7485747
Inorganics										
Total Ammonia-N	mg/L	14	0.050	7488052				0.76	0.050	7488052
Conductivity	umho/cm	4900	1.0	7488058	4900	1.0	7488058	3000	1.0	7488058
Total Dissolved Solids	mg/L	3490	10	7488031				2030	10	7488031
Fluoride (F-)	mg/L	1.4	0.10	7488046	1.4	0.10	7488046	1.3	0.10	7488046
Total Kjeldahl Nitrogen (TKN)	mg/L	14	0.50	7488057				1.4	0.10	7488057
Total Organic Carbon (TOC)	mg/L	4.9	0.40	7488048				7.5	0.40	7488048
Orthophosphate (P)	mg/L	<0.010	0.010	7487989				<0.010	0.010	7488070
pH	pH	7.75		7488060	7.80		7488060	8.00		7488060
Phenols-4AAP	mg/L	<0.0010	0.0010	7487770				<0.0010	0.0010	7487770
Alkalinity (Total as CaCO3)	mg/L	160	1.0	7488054	160	1.0	7488054	150	1.0	7488054
Nitrite (N)	mg/L	<0.010	0.010	7488503				<0.010	0.010	7488503
Dissolved Chloride (Cl-)	mg/L	640	10	7488069				450	5.0	7488654
Nitrate (N)	mg/L	<0.10	0.10	7488503				<0.10	0.10	7488503
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488503				<0.10	0.10	7488503
Dissolved Bromide (Br-)	mg/L	<10	10	7488069				<5.0	5.0	7488654
Dissolved Sulphate (SO4)	mg/L	1600	10	7488069				780	5.0	7488654

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



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG062			QFG064			QFG064		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		819873-31-01			819873-31-01			819873-31-01		
	UNITS	29-II Lab-Dup	RDL	QC Batch	29-IV	RDL	QC Batch	29-IV Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				1900	1.0	7485747			
Inorganics										
Total Ammonia-N	mg/L				15	0.050	7488052	15	0.050	7488052
Conductivity	umho/cm				5300	1.0	7487966			
Total Dissolved Solids	mg/L				3570	10	7491227			
Fluoride (F-)	mg/L				1.5	0.10	7487946			
Total Kjeldahl Nitrogen (TKN)	mg/L				15	0.50	7488057	15	0.50	7488057
Total Organic Carbon (TOC)	mg/L				4.5	0.40	7488048	4.4	0.40	7488048
Orthophosphate (P)	mg/L				<0.010	0.010	7487989			
pH	pH				7.81		7487963			
Phenols-4AAP	mg/L				<0.0010	0.0010	7487770			
Alkalinity (Total as CaCO3)	mg/L				180	1.0	7487956			
Nitrite (N)	mg/L	<0.010	0.010	7488503	<0.010	0.010	7488503			
Dissolved Chloride (Cl-)	mg/L	420	5.0	7488654	890	10	7492403			
Nitrate (N)	mg/L	<0.10	0.10	7488503	<0.10	0.10	7488503			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488503	<0.10	0.10	7488503			
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7488654	<10	10	7492403			
Dissolved Sulphate (SO4)	mg/L	720	5.0	7488654	1700	10	7492403			

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



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VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG065			QFG067			QFG068		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		819873-31-01			819873-31-01			819873-31-01		
	UNITS	12-II	RDL	QC Batch	56-I	RDL	QC Batch	11-II	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	1900	1.0	7485747	1200	1.0	7485747	1200	1.0	7485747
Inorganics										
Total Ammonia-N	mg/L	14	0.050	7488052	1.3	0.050	7488052	1.3	0.050	7488114
Conductivity	umho/cm	4900	1.0	7487966	3000	1.0	7487966	3000	1.0	7487966
Total Dissolved Solids	mg/L	3480	10	7488031	2000	10	7488031	2080	10	7488031
Fluoride (F-)	mg/L	1.3	0.10	7487946	0.48	0.10	7487946	0.48	0.10	7487946
Total Kjeldahl Nitrogen (TKN)	mg/L	15	0.50	7488057	1.5	0.10	7488057	1.5	0.10	7488117
Total Organic Carbon (TOC)	mg/L	5.0	0.40	7488048	2.8	0.40	7488048	2.7	0.40	7490538
Orthophosphate (P)	mg/L	<0.010	0.010	7487989	<0.010	0.010	7487989	<0.010	0.010	7487989
pH	pH	7.85		7487963	7.84		7487963	7.82		7487963
Phenols-4AAP	mg/L	<0.0010	0.0010	7487770	<0.0010	0.0010	7487770	<0.0010	0.0010	7487770
Alkalinity (Total as CaCO3)	mg/L	160	1.0	7487956	260	1.0	7487956	260	1.0	7487956
Nitrite (N)	mg/L	<0.010	0.010	7488503	<0.010	0.010	7488081	<0.010	0.010	7488503
Dissolved Chloride (Cl-)	mg/L	650	10	7488069	440	10	7488069	480	5.0	7488069
Nitrate (N)	mg/L	<0.10	0.10	7488503	<0.10	0.10	7488081	<0.10	0.10	7488503
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488503	<0.10	0.10	7488081	<0.10	0.10	7488503
Dissolved Bromide (Br-)	mg/L	<10	10	7488069	<10	10	7488069	<5.0	5.0	7488069
Dissolved Sulphate (SO4)	mg/L	1600	10	7488069	590	10	7488069	630	5.0	7488069
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG069			QFG070			QFG070		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		819873-31-01			819873-31-01			819873-31-01		
	UNITS	68-I	RDL	QC Batch	68-II	RDL	QC Batch	68-II Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2400	1.0	7485747	2100	1.0	7485747			
Inorganics										
Total Ammonia-N	mg/L	15	0.050	7488114	0.80	0.050	7488052			
Conductivity	umho/cm	7200	1.0	7488058	3700	1.0	7487966			
Total Dissolved Solids	mg/L	5390	20	7495611	2910	10	7488031			
Fluoride (F-)	mg/L	1.1	0.10	7488046	0.41	0.10	7487946			
Total Kjeldahl Nitrogen (TKN)	mg/L	15	0.50	7488117	1.0	0.10	7488057			
Total Organic Carbon (TOC)	mg/L	3.5	0.40	7490538	2.2	0.40	7488048			
Orthophosphate (P)	mg/L	<0.010	0.010	7488070	<0.010	0.010	7487989			
pH	pH	7.58		7488060	7.65		7487963			
Phenols-4AAP	mg/L	<0.0010	0.0010	7487770	<0.0010	0.0010	7487930	<0.0010	0.0010	7487930
Alkalinity (Total as CaCO3)	mg/L	210	1.0	7488054	320	1.0	7487956			
Nitrite (N)	mg/L	<0.010	0.010	7488503	<0.010	0.010	7488503			
Dissolved Chloride (Cl-)	mg/L	1500	10	7492403	400	5.0	7488069			
Nitrate (N)	mg/L	<0.10	0.10	7488503	<0.10	0.10	7488503			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488503	<0.10	0.10	7488503			
Dissolved Bromide (Br-)	mg/L	<10	10	7492403	<5.0	5.0	7488069			
Dissolved Sulphate (SO4)	mg/L	1500	10	7492403	1300	5.0	7488069			

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



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG072			QFG073			QFG073		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		819873-31-01			830760-03-01			830760-03-01		
	UNITS	68-III	RDL	QC Batch	68-IV	RDL	QC Batch	68-IV Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	220	1.0	7485747	380	1.0	7485747			
Inorganics										
Total Ammonia-N	mg/L	52	0.25	7488052	<0.050	0.050	7488114			
Conductivity	umho/cm	6100	1.0	7488058	1000	1.0	7487966	1000	1.0	7487966
Total Dissolved Solids	mg/L	2440	10	7488031	575	10	7488031			
Fluoride (F-)	mg/L	2.1	0.10	7488046	0.84	0.10	7487946	0.85	0.10	7487946
Total Kjeldahl Nitrogen (TKN)	mg/L	56	2.0	7488057	0.23	0.10	7488117			
Total Organic Carbon (TOC)	mg/L	32	0.40	7488048	3.8	0.40	7490538			
Orthophosphate (P)	mg/L	<0.010	0.010	7488070	<0.010	0.010	7487989			
pH	pH	8.53		7488060	8.02		7487963	8.07		7487963
Phenols-4AAP	mg/L	0.16	0.010	7487930	<0.0010	0.0010	7487770			
Alkalinity (Total as CaCO3)	mg/L	89	1.0	7488054	220	1.0	7487956	220	1.0	7487956
Nitrite (N)	mg/L	<0.010	0.010	7488503	<0.010	0.010	7488081			
Dissolved Chloride (Cl-)	mg/L	1400	10	7492403	130	1.0	7488069			
Nitrate (N)	mg/L	<0.10	0.10	7488503	0.44	0.10	7488081			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488503	0.44	0.10	7488081			
Dissolved Bromide (Br-)	mg/L	<10	10	7492403	<1.0	1.0	7488069			
Dissolved Sulphate (SO4)	mg/L	950	10	7492403	88	1.0	7488069			

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



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG074			QFG075			QFG077		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		830760-03-01			830760-03-01			830760-03-01		
	UNITS	P11-I	RDL	QC Batch	P11-III	RDL	QC Batch	35-III	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	2200	1.0	7487018	100	1.0	7487018	2400	1.0	7487018
Inorganics										
Total Ammonia-N	mg/L	41	0.25	7488114	18	0.050	7488114	2.7	0.050	7488052
Conductivity	umho/cm	8300	1.0	7487966	2000	1.0	7487966	5300	1.0	7487966
Total Dissolved Solids	mg/L	5840	20	7488031	1110	10	7491227	3550	10	7491227
Fluoride (F-)	mg/L	1.2	0.10	7487946	1.7	0.10	7487946	0.39	0.10	7487946
Total Kjeldahl Nitrogen (TKN)	mg/L	43	2.0	7488117	21	2.0	7488117	3.1	0.10	7488057
Total Organic Carbon (TOC)	mg/L	5.9	0.40	7490538	42	0.40	7490538	5.2	0.40	7488048
Orthophosphate (P)	mg/L	<0.010	0.010	7487989	<0.010	0.010	7487989	0.020	0.010	7487989
pH	pH	7.61		7487963	9.42		7487963	7.70		7487963
Phenols-4AAP	mg/L	<0.0010	0.0010	7487930	0.61	0.020	7487770	<0.0010	0.0010	7487930
Alkalinity (Total as CaCO3)	mg/L	150	1.0	7487956	73	1.0	7487956	230	1.0	7487956
Nitrite (N)	mg/L	<0.010	0.010	7488503	<0.010	0.010	7488503	<0.010	0.010	7488503
Dissolved Chloride (Cl-)	mg/L	1700	10	7488069	340	5.0	7488069	980	10	7488069
Nitrate (N)	mg/L	<0.10	0.10	7488503	<0.10	0.10	7488503	<0.10	0.10	7488503
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488503	<0.10	0.10	7488503	<0.10	0.10	7488503
Dissolved Bromide (Br-)	mg/L	<10	10	7488069	<5.0	5.0	7488069	<10	10	7488069
Dissolved Sulphate (SO4)	mg/L	1600	10	7488069	300	5.0	7488069	1100	10	7488069
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG078			QFG078			QFG079		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		830760-03-01			830760-03-01			830760-03-01		
	UNITS	35-IV	RDL	QC Batch	35-IV Lab-Dup	RDL	QC Batch	35-V	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2600	1.0	7487018				1100	1.0	7487018
Inorganics										
Total Ammonia-N	mg/L	22	0.050	7488052				<0.050	0.050	7488052
Conductivity	umho/cm	11000	1.0	7488058				2800	1.0	7488058
Total Dissolved Solids	mg/L	6620	20	7491227				1900	10	7488031
Fluoride (F-)	mg/L	1.2	0.10	7488046				0.94	0.10	7488046
Total Kjeldahl Nitrogen (TKN)	mg/L	24	1.0	7488057				0.23	0.10	7488057
Total Organic Carbon (TOC)	mg/L	13	0.40	7488048				2.4	0.40	7488048
Orthophosphate (P)	mg/L	0.013	0.010	7488070				<0.010	0.010	7488070
pH	pH	8.28		7488060				7.80		7488060
Phenols-4AAP	mg/L	0.0032	0.0020	7487770	0.0035	0.0020	7487770	<0.0010	0.0010	7487930
Alkalinity (Total as CaCO3)	mg/L	130	1.0	7488054				280	1.0	7488054
Nitrite (N)	mg/L	<0.010	0.010	7488503				<0.010	0.010	7488503
Dissolved Chloride (Cl-)	mg/L	2300	20	7492403				450	5.0	7492403
Nitrate (N)	mg/L	<0.10	0.10	7488503				<0.10	0.10	7488503
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488503				<0.10	0.10	7488503
Dissolved Bromide (Br-)	mg/L	<20	20	7492403				<5.0	5.0	7492403
Dissolved Sulphate (SO4)	mg/L	1300	20	7492403				630	5.0	7492403

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



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG080			QFG082			QFG082		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		830760-03-01			830760-03-01			830760-03-01		
	UNITS	35-VII	RDL	QC Batch	31-I	RDL	QC Batch	31-I Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1400	1.0	7487018	22	1.0	7487018			
Inorganics										
Total Ammonia-N	mg/L	0.44	0.050	7488052	230	0.50	7488114			
Conductivity	umho/cm	2700	1.0	7488058	15000	1.0	7491981	15000	1.0	7491981
Total Dissolved Solids	mg/L	2050	10	7488031	7350	20	7491227			
Fluoride (F-)	mg/L	0.67	0.10	7488046	4.1	0.10	7491993	4.1	0.10	7491993
Total Kjeldahl Nitrogen (TKN)	mg/L	0.66	0.10	7488057	230	5.0	7488117			
Total Organic Carbon (TOC)	mg/L	4.1	0.40	7488048	41	0.40	7490538			
Orthophosphate (P)	mg/L	0.016	0.010	7488070	0.29	0.010	7488070			
pH	pH	7.80		7488060	9.75		7491975	9.74		7491975
Phenols-4AAP	mg/L	<0.0020 (1)	0.0020	7487770	1.5	0.020	7487770			
Alkalinity (Total as CaCO3)	mg/L	290	1.0	7488054	920	1.0	7491972	920	1.0	7491972
Nitrite (N)	mg/L	<0.010	0.010	7488509	0.017	0.010	7488509			
Dissolved Chloride (Cl-)	mg/L	260	5.0	7492403	4800	50	7492403			
Nitrate (N)	mg/L	0.23	0.10	7488509	<0.10	0.10	7488509			
Nitrate + Nitrite (N)	mg/L	0.23	0.10	7488509	<0.10	0.10	7488509			
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7492403	<20	20	7492403			
Dissolved Sulphate (SO4)	mg/L	830	5.0	7492403	40	20	7492403			

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 #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG083			QFG083			QFG084		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		830760-03-01			830760-03-01			830760-03-01		
	UNITS	31-III	RDL	QC Batch	31-III Lab-Dup	RDL	QC Batch	2-IV	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	280	1.0	7487018				2100	1.0	7487018
Inorganics										
Total Ammonia-N	mg/L	12	0.050	7488114				0.77	0.050	7488052
Conductivity	umho/cm	3000	1.0	7487966				3600	1.0	7488058
Total Dissolved Solids	mg/L	1720	10	7491227	1710	10	7491227	2700	10	7491227
Fluoride (F-)	mg/L	2.0	0.10	7487946				0.40	0.10	7488046
Total Kjeldahl Nitrogen (TKN)	mg/L	20	1.0	7488117				1.1	0.10	7488057
Total Organic Carbon (TOC)	mg/L	25	0.40	7490538				2.1	0.40	7488048
Orthophosphate (P)	mg/L	<0.010	0.010	7487989				<0.010	0.010	7488070
pH	pH	7.99		7487963				7.59		7488060
Phenols-4AAP	mg/L	0.019	0.0050	7487770				<0.0010	0.0010	7487770
Alkalinity (Total as CaCO3)	mg/L	190	1.0	7487956				320	1.0	7488054
Nitrite (N)	mg/L	<0.010	0.010	7488081				<0.010	0.010	7488509
Dissolved Chloride (Cl-)	mg/L	570	5.0	7488069				430	5.0	7492403
Nitrate (N)	mg/L	<0.10	0.10	7488081				<0.10	0.10	7488509
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488081				<0.10	0.10	7488509
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7488069				<5.0	5.0	7492403
Dissolved Sulphate (SO4)	mg/L	330	5.0	7488069				1400	5.0	7492403

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



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG086		
Sampling Date		2021/07/26		
COC Number		819873-32-01		
	UNITS	4-III	RDL	QC Batch
Calculated Parameters				
Hardness (CaCO ₃)	mg/L	110	1.0	7487018
Inorganics				
Total Ammonia-N	mg/L	19	0.050	7488052
Conductivity	umho/cm	2000	1.0	7488058
Total Dissolved Solids	mg/L	1100	10	7488031
Fluoride (F ⁻)	mg/L	1.8	0.10	7488046
Total Kjeldahl Nitrogen (TKN)	mg/L	21	1.0	7488057
Total Organic Carbon (TOC)	mg/L	42	0.40	7488048
Orthophosphate (P)	mg/L	<0.010	0.010	7488070
pH	pH	9.53		7488060
Phenols-4AAP	mg/L	0.61	0.020	7487770
Alkalinity (Total as CaCO ₃)	mg/L	80	1.0	7488054
Nitrite (N)	mg/L	<0.010	0.010	7488503
Dissolved Chloride (Cl ⁻)	mg/L	320	5.0	7488654
Nitrate (N)	mg/L	<0.10	0.10	7488503
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488503
Dissolved Bromide (Br ⁻)	mg/L	<5.0	5.0	7488654
Dissolved Sulphate (SO ₄)	mg/L	290	5.0	7488654
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFG050	QFG051		QFG052		QFG053		QFG055		
Sampling Date		2021/07/26	2021/07/26		2021/07/26		2021/07/26		2021/07/26		
COC Number		808571-19-01	808571-19-01		808571-19-01		808571-19-01		808571-19-01		
	UNITS	P10-I	P10-II	RDL	P10-III	RDL	P10-IV	RDL	P4-I	RDL	QC Batch
Metals											
Dissolved Aluminum (Al)	ug/L	<4.9	<4.9	4.9	<25	25	<4.9	4.9	<4.9	4.9	7488478
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<2.5	2.5	<0.50	0.50	<0.50	0.50	7488478
Dissolved Arsenic (As)	ug/L	2.3	4.0	1.0	<5.0	5.0	<1.0	1.0	2.5	1.0	7488478
Dissolved Barium (Ba)	ug/L	26	20	2.0	<10	10	8.6	2.0	26	2.0	7488478
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<2.0	2.0	<0.40	0.40	<0.40	0.40	7488478
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	7488478
Dissolved Boron (B)	ug/L	1300	1800	10	13000	50	1700	10	1200	10	7488478
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	<0.45	0.45	<0.090	0.090	<0.090	0.090	7488478
Dissolved Calcium (Ca)	ug/L	890000	850000	1000	630000	1000	400000	400	860000	1000	7488478
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<25	25	<5.0	5.0	<5.0	5.0	7488478
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	<2.5	2.5	<0.50	0.50	<0.50	0.50	7488478
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	<4.5	4.5	<0.90	0.90	<0.90	0.90	7488478
Dissolved Iron (Fe)	ug/L	<100	<100	100	<500	500	<100	100	<100	100	7488478
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	<2.5	2.5	<0.50	0.50	<0.50	0.50	7488478
Dissolved Lithium (Li)	ug/L	720	660	25	2700	50	140	5.0	410	5.0	7488478
Dissolved Magnesium (Mg)	ug/L	150000	110000	50	180000	250	80000	50	130000	50	7488478
Dissolved Manganese (Mn)	ug/L	100	110	2.0	64	10	49	2.0	79	2.0	7488478
Dissolved Molybdenum (Mo)	ug/L	<0.50	18	0.50	<2.5	2.5	<0.50	0.50	<0.50	0.50	7488478
Dissolved Nickel (Ni)	ug/L	1.1	4.5	1.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	7488478
Dissolved Phosphorus (P)	ug/L	<100	130	100	<500	500	<100	100	<100	100	7488478
Dissolved Potassium (K)	ug/L	78000	85000	200	40000	1000	35000	200	84000	200	7488478
Dissolved Selenium (Se)	ug/L	2.7	4.2	2.0	11	10	<2.0	2.0	2.8	2.0	7488478
Dissolved Silicon (Si)	ug/L	4300	3500	50	3500	250	2600	50	5200	50	7488478
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<0.45	0.45	<0.090	0.090	<0.090	0.090	7488478
Dissolved Sodium (Na)	ug/L	1500000	2300000	500	1000000	500	490000	100	1400000	500	7488478
Dissolved Strontium (Sr)	ug/L	13000	12000	1.0	11000	5.0	7400	1.0	11000	1.0	7488478
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	7488478
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	<0.25	0.25	<0.050	0.050	<0.050	0.050	7488478
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	7488478
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<25	25	<5.0	5.0	<5.0	5.0	7488478
Dissolved Tungsten (W)	ug/L	<1.0	5.7	1.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	7488478
Dissolved Uranium (U)	ug/L	<0.10	<0.10	0.10	<0.50	0.50	<0.10	0.10	0.10	0.10	7488478
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	<2.5	2.5	<0.50	0.50	<0.50	0.50	7488478
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	<25	25	<5.0	5.0	<5.0	5.0	7488478
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	7488478

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFG056	QFG056		QFG057		QFG059		
Sampling Date		2021/07/26	2021/07/26		2021/07/26		2021/07/26		
COC Number		808571-19-01	808571-19-01		808571-19-01		808571-19-01		
	UNITS	P4-II	P4-II Lab-Dup	RDL	P4-III	RDL	G24	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	4.9	<4.9	4.9	5.5	4.9	7488478
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7488478
Dissolved Arsenic (As)	ug/L	3.0	3.2	1.0	2.7	1.0	<1.0	1.0	7488478
Dissolved Barium (Ba)	ug/L	15	15	2.0	35	2.0	58	2.0	7488478
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7488478
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488478
Dissolved Boron (B)	ug/L	2300	2300	10	370	10	130	10	7488478
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	0.10	0.090	7488478
Dissolved Calcium (Ca)	ug/L	170000	170000	200	710000	1000	220000	200	7488478
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7488478
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	1.4	0.50	7488478
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	<0.90	0.90	<0.90	0.90	7488478
Dissolved Iron (Fe)	ug/L	<100	<100	100	<100	100	270	100	7488478
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7488478
Dissolved Lithium (Li)	ug/L	260	250	5.0	62	5.0	7.9	5.0	7488478
Dissolved Magnesium (Mg)	ug/L	22000	22000	50	81000	50	50000	50	7488478
Dissolved Manganese (Mn)	ug/L	6.5	6.4	2.0	76	2.0	73	2.0	7488478
Dissolved Molybdenum (Mo)	ug/L	43	43	0.50	<0.50	0.50	3.0	0.50	7488478
Dissolved Nickel (Ni)	ug/L	18	18	1.0	1.6	1.0	10	1.0	7488478
Dissolved Phosphorus (P)	ug/L	120	120	100	100	100	<100	100	7488478
Dissolved Potassium (K)	ug/L	140000	140000	200	48000	200	4200	200	7488478
Dissolved Selenium (Se)	ug/L	4.5	3.6	2.0	2.9	2.0	<2.0	2.0	7488478
Dissolved Silicon (Si)	ug/L	8000	8400	50	4900	50	5100	50	7488478
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7488478
Dissolved Sodium (Na)	ug/L	2500000	2400000	500	1300000	500	46000	100	7488478
Dissolved Strontium (Sr)	ug/L	2800	2700	1.0	8100	1.0	2300	1.0	7488478
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488478
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	<0.050	0.050	0.19	0.050	7488478
Dissolved Tin (Sn)	ug/L	19	18	1.0	<1.0	1.0	<1.0	1.0	7488478
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7488478
Dissolved Tungsten (W)	ug/L	14	13	1.0	<1.0	1.0	<1.0	1.0	7488478
Dissolved Uranium (U)	ug/L	<0.10	<0.10	0.10	<0.10	0.10	5.3	0.10	7488478
Dissolved Vanadium (V)	ug/L	2.1	2.2	0.50	<0.50	0.50	<0.50	0.50	7488478
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	950	5.0	7488478
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488478
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFG060			QFO062		QFO063		
Sampling Date		2021/07/26			2021/07/26		2021/07/26		
COC Number		808571-19-01			834487-03-01		834487-03-01		
	UNITS	4-IV	RDL	QC Batch	40-II	RDL	40-III	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	5.1	4.9	7488478	6.8	4.9	11	4.9	7493051
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7488478	<0.50	0.50	<0.50	0.50	7493051
Dissolved Arsenic (As)	ug/L	3.1	1.0	7488478	<1.0	1.0	<1.0	1.0	7493051
Dissolved Barium (Ba)	ug/L	15	2.0	7488478	25	2.0	23	2.0	7493051
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7488478	<0.40	0.40	<0.40	0.40	7493051
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7488478	<1.0	1.0	<1.0	1.0	7493051
Dissolved Boron (B)	ug/L	2400	10	7488478	740	10	650	10	7493051
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7488478	<0.090	0.090	<0.090	0.090	7493051
Dissolved Calcium (Ca)	ug/L	180000	200	7488478	390000	400	370000	200	7493051
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7488478	<5.0	5.0	<5.0	5.0	7493051
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7488478	<0.50	0.50	<0.50	0.50	7493051
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7488478	<0.90	0.90	<0.90	0.90	7493051
Dissolved Iron (Fe)	ug/L	<100	100	7488478	850	100	820	100	7493051
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7488478	<0.50	0.50	<0.50	0.50	7493051
Dissolved Lithium (Li)	ug/L	260	5.0	7488478	110	5.0	100	5.0	7493051
Dissolved Magnesium (Mg)	ug/L	23000	50	7488478	97000	50	96000	50	7493051
Dissolved Manganese (Mn)	ug/L	6.8	2.0	7488478	150	2.0	140	2.0	7493051
Dissolved Molybdenum (Mo)	ug/L	31	0.50	7488478	1.2	0.50	1.3	0.50	7493051
Dissolved Nickel (Ni)	ug/L	18	1.0	7488478	1.3	1.0	<1.0	1.0	7493051
Dissolved Phosphorus (P)	ug/L	120	100	7488478	<100	100	<100	100	7493051
Dissolved Potassium (K)	ug/L	140000	200	7488478	24000	200	22000	200	7493051
Dissolved Selenium (Se)	ug/L	3.7	2.0	7488478	<2.0	2.0	<2.0	2.0	7493051
Dissolved Silicon (Si)	ug/L	8700	50	7488478	5800	50	5800	50	7493051
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7488478	<0.090	0.090	<0.090	0.090	7493051
Dissolved Sodium (Na)	ug/L	2500000	500	7488478	350000	100	330000	100	7493051
Dissolved Strontium (Sr)	ug/L	2800	1.0	7488478	5000	1.0	4600	1.0	7493051
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7488478	<1.0	1.0	<1.0	1.0	7493051
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7488478	<0.050	0.050	<0.050	0.050	7493051
Dissolved Tin (Sn)	ug/L	14	1.0	7488478	<1.0	1.0	<1.0	1.0	7493051
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7488478	<5.0	5.0	<5.0	5.0	7493051
Dissolved Tungsten (W)	ug/L	13	1.0	7488478	<1.0	1.0	<1.0	1.0	7493051
Dissolved Uranium (U)	ug/L	<0.10	0.10	7488478	0.82	0.10	0.79	0.10	7493051
Dissolved Vanadium (V)	ug/L	2.3	0.50	7488478	<0.50	0.50	<0.50	0.50	7493051
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7488478	<5.0	5.0	<5.0	5.0	7493051
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7488478	<1.0	1.0	<1.0	1.0	7493051
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFG061		QFG062		QFG064	QFG065		
Sampling Date		2021/07/26		2021/07/26		2021/07/26	2021/07/26		
COC Number		819873-31-01		819873-31-01		819873-31-01	819873-31-01		
	UNITS	29-I	RDL	29-II	RDL	29-IV	12-II	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	12	4.9	<4.9	<4.9	4.9	7488476
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	2.5	0.50	<0.50	<0.50	0.50	7488476
Dissolved Arsenic (As)	ug/L	<1.0	1.0	1.1	1.0	1.7	<1.0	1.0	7488476
Dissolved Barium (Ba)	ug/L	21	2.0	62	2.0	25	21	2.0	7488476
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	<0.40	0.40	7488476
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7488476
Dissolved Boron (B)	ug/L	1000	10	720	10	830	1000	10	7488476
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	<0.090	0.090	7488476
Dissolved Calcium (Ca)	ug/L	640000	1000	280000	200	630000	640000	1000	7488476
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	<5.0	5.0	7488476
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	1.4	0.50	<0.50	<0.50	0.50	7488476
Dissolved Copper (Cu)	ug/L	<0.90	0.90	1.8	0.90	<0.90	<0.90	0.90	7488476
Dissolved Iron (Fe)	ug/L	250	100	250	100	<100	260	100	7488476
Dissolved Lead (Pb)	ug/L	<0.50	0.50	1.7	0.50	0.82	<0.50	0.50	7488476
Dissolved Lithium (Li)	ug/L	82	5.0	53	5.0	78	81	5.0	7488476
Dissolved Magnesium (Mg)	ug/L	79000	50	84000	50	88000	79000	50	7488476
Dissolved Manganese (Mn)	ug/L	130	2.0	780	2.0	260	130	2.0	7488476
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	27	0.50	15	<0.50	0.50	7488476
Dissolved Nickel (Ni)	ug/L	1.6	1.0	8.6	1.0	1.6	1.9	1.0	7488476
Dissolved Phosphorus (P)	ug/L	<100	100	<100	100	<100	<100	100	7488476
Dissolved Potassium (K)	ug/L	37000	200	33000	200	37000	37000	200	7488476
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	2.0	<2.0	<2.0	2.0	7488476
Dissolved Silicon (Si)	ug/L	5100	50	4400	50	6300	5100	50	7488476
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	<0.090	0.090	7488476
Dissolved Sodium (Na)	ug/L	440000	100	300000	100	540000	450000	100	7488476
Dissolved Strontium (Sr)	ug/L	5000	1.0	2900	1.0	5500	5000	1.0	7488476
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7488476
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	0.18	0.050	<0.050	<0.050	0.050	7488476
Dissolved Tin (Sn)	ug/L	<1.0	1.0	1.3	1.0	<1.0	<1.0	1.0	7488476
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	<5.0	5.0	7488476
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7488476
Dissolved Uranium (U)	ug/L	<0.10	0.10	3.4	0.10	1.8	<0.10	0.10	7488476
Dissolved Vanadium (V)	ug/L	<0.50	0.50	1.9	0.50	<0.50	<0.50	0.50	7488476
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	15	5.0	<5.0	<5.0	5.0	7488476
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7488476
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFG067	QFG068		QFG069		QFG070		
Sampling Date		2021/07/26	2021/07/26		2021/07/26		2021/07/26		
COC Number		819873-31-01	819873-31-01		819873-31-01		819873-31-01		
	UNITS	56-I	11-II	RDL	68-I	RDL	68-II	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<4.9	<4.9	4.9	<4.9	4.9	<4.9	4.9	7488476
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Barium (Ba)	ug/L	37	37	2.0	21	2.0	25	2.0	7488476
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7488476
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Boron (B)	ug/L	350	350	10	980	10	810	10	7488476
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7488476
Dissolved Calcium (Ca)	ug/L	280000	290000	400	780000	1000	600000	1000	7488476
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7488476
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	0.99	0.50	7488476
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	<0.90	0.90	0.99	0.90	7488476
Dissolved Iron (Fe)	ug/L	630	640	100	<100	100	340	100	7488476
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Lithium (Li)	ug/L	69	70	5.0	200	5.0	89	5.0	7488476
Dissolved Magnesium (Mg)	ug/L	110000	120000	50	100000	50	160000	50	7488476
Dissolved Manganese (Mn)	ug/L	69	69	2.0	78	2.0	450	2.0	7488476
Dissolved Molybdenum (Mo)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Nickel (Ni)	ug/L	1.1	1.1	1.0	<1.0	1.0	3.0	1.0	7488476
Dissolved Phosphorus (P)	ug/L	<100	<100	100	<100	100	<100	100	7488476
Dissolved Potassium (K)	ug/L	15000	15000	200	44000	200	15000	200	7488476
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	<2.0	2.0	<2.0	2.0	7488476
Dissolved Silicon (Si)	ug/L	3900	3900	50	4400	50	3800	50	7488476
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7488476
Dissolved Sodium (Na)	ug/L	200000	210000	100	820000	500	110000	100	7488476
Dissolved Strontium (Sr)	ug/L	6000	5800	1.0	10000	1.0	6800	1.0	7488476
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	<0.050	0.050	<0.050	0.050	7488476
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7488476
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Uranium (U)	ug/L	<0.10	<0.10	0.10	<0.10	0.10	0.75	0.10	7488476
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7488476
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488476
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



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VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFG072		QFG073	QFG073		QFG074		
Sampling Date		2021/07/26		2021/07/26	2021/07/26		2021/07/26		
COC Number		819873-31-01		830760-03-01	830760-03-01		830760-03-01		
	UNITS	68-III	RDL	68-IV	68-IV Lab-Dup	RDL	P11-I	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	8.0	4.9	<4.9	<4.9	4.9	<4.9	4.9	7488476
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Arsenic (As)	ug/L	2.3	1.0	<1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Barium (Ba)	ug/L	5.6	2.0	68	66	2.0	21	2.0	7488476
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	<0.40	0.40	<0.40	0.40	7488476
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Boron (B)	ug/L	680	10	410	400	10	1200	10	7488476
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	<0.090	0.090	<0.090	0.090	7488476
Dissolved Calcium (Ca)	ug/L	85000	200	86000	85000	400	730000	1000	7488476
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	<5.0	5.0	7488476
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	<0.90	0.90	<0.90	0.90	7488476
Dissolved Iron (Fe)	ug/L	<100	100	<100	<100	100	<100	100	7488476
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Lithium (Li)	ug/L	28	5.0	19	18	5.0	300	5.0	7488476
Dissolved Magnesium (Mg)	ug/L	3000	50	40000	40000	50	97000	50	7488476
Dissolved Manganese (Mn)	ug/L	5.8	2.0	11	11	2.0	68	2.0	7488476
Dissolved Molybdenum (Mo)	ug/L	9.4	0.50	<0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Nickel (Ni)	ug/L	4.1	1.0	<1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Phosphorus (P)	ug/L	<100	100	<100	<100	100	<100	100	7488476
Dissolved Potassium (K)	ug/L	48000	200	7500	7400	200	70000	200	7488476
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	<2.0	2.0	<2.0	2.0	7488476
Dissolved Silicon (Si)	ug/L	11000	50	2900	2900	50	5200	50	7488476
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	<0.090	0.090	<0.090	0.090	7488476
Dissolved Sodium (Na)	ug/L	890000	500	52000	53000	100	1000000	500	7488476
Dissolved Strontium (Sr)	ug/L	580	1.0	5200	5100	1.0	9000	1.0	7488476
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	<0.050	0.050	<0.050	0.050	7488476
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	<5.0	5.0	7488476
Dissolved Tungsten (W)	ug/L	3.7	1.0	<1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Uranium (U)	ug/L	<0.10	0.10	0.21	0.20	0.10	<0.10	0.10	7488476
Dissolved Vanadium (V)	ug/L	0.57	0.50	<0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	<5.0	5.0	7488476
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7488476
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFG075		QFG077		QFG078		QFG079		
Sampling Date		2021/07/26		2021/07/26		2021/07/26		2021/07/26		
COC Number		830760-03-01		830760-03-01		830760-03-01		830760-03-01		
	UNITS	P11-III	RDL	35-III	RDL	35-IV	RDL	35-V	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	7.0	4.9	<4.9	4.9	<4.9	4.9	7488476
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Arsenic (As)	ug/L	3.3	1.0	<1.0	1.0	11	1.0	<1.0	1.0	7488476
Dissolved Barium (Ba)	ug/L	20	2.0	110	2.0	36	2.0	80	2.0	7488476
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7488476
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Boron (B)	ug/L	170	10	410	10	630	10	77	10	7488476
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	0.37	0.090	7488476
Dissolved Calcium (Ca)	ug/L	41000	200	820000	1000	880000	1000	330000	200	7488476
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7488476
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	1.2	0.50	7488476
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	0.90	<0.90	0.90	1.9	0.90	7488476
Dissolved Iron (Fe)	ug/L	<100	100	2800	100	<100	100	<100	100	7488476
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Lithium (Li)	ug/L	20	5.0	350	5.0	130	5.0	15	5.0	7488476
Dissolved Magnesium (Mg)	ug/L	680	50	73000	50	91000	50	58000	50	7488476
Dissolved Manganese (Mn)	ug/L	<2.0	2.0	100	2.0	76	2.0	64	2.0	7488476
Dissolved Molybdenum (Mo)	ug/L	34	0.50	<0.50	0.50	<0.50	0.50	3.0	0.50	7488476
Dissolved Nickel (Ni)	ug/L	7.6	1.0	<1.0	1.0	1.6	1.0	17	1.0	7488476
Dissolved Phosphorus (P)	ug/L	<100	100	640	100	130	100	<100	100	7488476
Dissolved Potassium (K)	ug/L	67000	200	21000	200	74000	200	4600	200	7488476
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	2.0	2.0	2.0	<2.0	2.0	7488476
Dissolved Silicon (Si)	ug/L	9800	50	5200	50	7300	50	4600	50	7488476
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7488476
Dissolved Sodium (Na)	ug/L	330000	100	340000	100	1500000	500	240000	100	7488476
Dissolved Strontium (Sr)	ug/L	870	1.0	5200	1.0	9500	1.0	2600	1.0	7488476
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	<0.050	0.050	0.70	0.050	7488476
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7488476
Dissolved Tungsten (W)	ug/L	7.9	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Uranium (U)	ug/L	<0.10	0.10	<0.10	0.10	<0.10	0.10	6.1	0.10	7488476
Dissolved Vanadium (V)	ug/L	0.74	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	720	5.0	7488476
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488476
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFG080		QFG082		QFG083		QFG084		
Sampling Date		2021/07/26		2021/07/26		2021/07/26		2021/07/26		
COC Number		830760-03-01		830760-03-01		830760-03-01		830760-03-01		
	UNITS	35-VII	RDL	31-I	RDL	31-III	RDL	2-IV	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	23	4.9	<25	25	<4.9	4.9	<4.9	4.9	7488476
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	0.50	<0.50	0.50	7488476
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Barium (Ba)	ug/L	110	2.0	15	10	16	2.0	24	2.0	7488476
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<2.0	2.0	<0.40	0.40	<0.40	0.40	7488476
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Boron (B)	ug/L	340	10	620	50	670	10	840	10	7488476
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.45	0.45	<0.090	0.090	<0.090	0.090	7488476
Dissolved Calcium (Ca)	ug/L	470000	200	5700	1000	71000	200	590000	1000	7488476
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<25	25	<5.0	5.0	<5.0	5.0	7488476
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	0.50	1.0	0.50	7488476
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<4.5	4.5	<0.90	0.90	<0.90	0.90	7488476
Dissolved Iron (Fe)	ug/L	1900	100	<500	500	<100	100	340	100	7488476
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	0.50	<0.50	0.50	7488476
Dissolved Lithium (Li)	ug/L	37	5.0	25	25	42	5.0	89	5.0	7488476
Dissolved Magnesium (Mg)	ug/L	58000	50	2000	250	25000	50	160000	50	7488476
Dissolved Manganese (Mn)	ug/L	140	2.0	<10	10	9.4	2.0	460	2.0	7488476
Dissolved Molybdenum (Mo)	ug/L	1.6	0.50	98	2.5	1.4	0.50	<0.50	0.50	7488476
Dissolved Nickel (Ni)	ug/L	3.0	1.0	27	5.0	1.5	1.0	3.1	1.0	7488476
Dissolved Phosphorus (P)	ug/L	170	100	730	500	120	100	<100	100	7488476
Dissolved Potassium (K)	ug/L	8600	200	180000	1000	66000	200	15000	200	7488476
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<10	10	<2.0	2.0	<2.0	2.0	7488476
Dissolved Silicon (Si)	ug/L	5500	50	12000	250	13000	50	3700	50	7488476
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.45	0.45	<0.090	0.090	<0.090	0.090	7488476
Dissolved Sodium (Na)	ug/L	200000	100	3000000	1000	500000	100	110000	100	7488476
Dissolved Strontium (Sr)	ug/L	2900	1.0	500	5.0	3100	1.0	7000	1.0	7488476
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.25	0.25	<0.050	0.050	<0.050	0.050	7488476
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<25	25	<5.0	5.0	<5.0	5.0	7488476
Dissolved Tungsten (W)	ug/L	<1.0	1.0	16	5.0	1.1	1.0	<1.0	1.0	7488476
Dissolved Uranium (U)	ug/L	3.6	0.10	<0.50	0.50	<0.10	0.10	0.78	0.10	7488476
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	0.50	<0.50	0.50	7488476
Dissolved Zinc (Zn)	ug/L	7.9	5.0	<25	25	<5.0	5.0	<5.0	5.0	7488476
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	7488476
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFG086		
Sampling Date		2021/07/26		
COC Number		819873-32-01		
	UNITS	4-III	RDL	QC Batch
Metals				
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	7488476
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7488476
Dissolved Arsenic (As)	ug/L	3.4	1.0	7488476
Dissolved Barium (Ba)	ug/L	20	2.0	7488476
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7488476
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7488476
Dissolved Boron (B)	ug/L	180	10	7488476
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7488476
Dissolved Calcium (Ca)	ug/L	43000	200	7488476
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7488476
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7488476
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7488476
Dissolved Iron (Fe)	ug/L	<100	100	7488476
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7488476
Dissolved Lithium (Li)	ug/L	21	5.0	7488476
Dissolved Magnesium (Mg)	ug/L	680	50	7488476
Dissolved Manganese (Mn)	ug/L	<2.0	2.0	7488476
Dissolved Molybdenum (Mo)	ug/L	34	0.50	7488476
Dissolved Nickel (Ni)	ug/L	7.7	1.0	7488476
Dissolved Phosphorus (P)	ug/L	<100	100	7488476
Dissolved Potassium (K)	ug/L	67000	200	7488476
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7488476
Dissolved Silicon (Si)	ug/L	10000	50	7488476
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7488476
Dissolved Sodium (Na)	ug/L	330000	100	7488476
Dissolved Strontium (Sr)	ug/L	840	1.0	7488476
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7488476
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7488476
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7488476
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7488476
Dissolved Tungsten (W)	ug/L	8.2	1.0	7488476
Dissolved Uranium (U)	ug/L	<0.10	0.10	7488476
Dissolved Vanadium (V)	ug/L	0.76	0.50	7488476
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7488476
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7488476
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG050
Sample ID: P10-I
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/08/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488478	N/A	2021/08/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488114	N/A	2021/07/30	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487930	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488117	2021/07/28	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7490538	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFG051
Sample ID: P10-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/08/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488478	N/A	2021/08/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488114	N/A	2021/07/30	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/30	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488117	2021/07/28	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7490538	N/A	2021/07/29	Nimarta Singh

BV Labs ID: QFG052
Sample ID: P10-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/08/03	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG052
Sample ID: P10-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7488478	N/A	2021/08/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/30	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG053
Sample ID: P10-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/08/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488478	N/A	2021/07/30	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488081	N/A	2021/07/28	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG053 Dup
Sample ID: P10-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai

BV Labs ID: QFG055
Sample ID: P4-I
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG055
Sample ID: P4-I
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/08/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488478	N/A	2021/08/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG056
Sample ID: P4-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/08/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488478	N/A	2021/08/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488081	N/A	2021/07/28	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487930	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG056 Dup
Sample ID: P4-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7488478	N/A	2021/08/03	Prempal Bhatti

BV Labs ID: QFG057
Sample ID: P4-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG057
Sample ID: P4-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/08/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488478	N/A	2021/08/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487930	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491227	2021/07/29	2021/07/30	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG059
Sample ID: G24
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/29	Surinder Rai
Anions	IC	7488654	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7488058	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7488046	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/08/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488478	N/A	2021/08/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488509	N/A	2021/07/29	Chandra Nandlal
pH	AT	7488060	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487930	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491227	2021/07/29	2021/07/30	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG060
Sample ID: 4-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/29	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7488058	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7488046	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/08/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488478	N/A	2021/08/03	Prempal Bhatti



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG060
Sample ID: 4-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7488060	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487930	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG061
Sample ID: 29-I
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/28	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7488058	N/A	2021/07/28	Surinder Rai
Fluoride	ISE	7488046	2021/07/28	2021/07/28	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7488060	2021/07/28	2021/07/28	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG061 Dup
Sample ID: 29-I
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/28	Surinder Rai
Conductivity	AT	7488058	N/A	2021/07/28	Surinder Rai
Fluoride	ISE	7488046	2021/07/28	2021/07/28	Surinder Rai
pH	AT	7488060	2021/07/28	2021/07/28	Surinder Rai

BV Labs ID: QFG062
Sample ID: 29-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/28	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG062
Sample ID: 29-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7488654	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7488058	N/A	2021/07/28	Surinder Rai
Fluoride	ISE	7488046	2021/07/28	2021/07/28	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7488060	2021/07/28	2021/07/28	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/28	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG062 Dup
Sample ID: 29-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7488654	N/A	2021/07/29	Fari Dehdezi
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal

BV Labs ID: QFG064
Sample ID: 29-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491227	2021/07/29	2021/07/30	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG064 Dup
Sample ID: 29-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG065
Sample ID: 12-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG067
Sample ID: 56-I
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488081	N/A	2021/07/28	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG068
Sample ID: 11-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488114	N/A	2021/07/30	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488117	2021/07/28	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7490538	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFG069
Sample ID: 68-I
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/28	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7488058	N/A	2021/07/28	Surinder Rai
Fluoride	ISE	7488046	2021/07/28	2021/07/28	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488114	N/A	2021/07/30	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7488060	2021/07/28	2021/07/28	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495611	2021/07/31	2021/08/03	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488117	2021/07/28	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7490538	N/A	2021/07/29	Nimarta Singh

BV Labs ID: QFG070
Sample ID: 68-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/07/30	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG070
Sample ID: 68-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/30	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487930	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG070 Dup
Sample ID: 68-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7487930	N/A	2021/07/28	Deonarine Ramnarine

BV Labs ID: QFG072
Sample ID: 68-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/29	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7488058	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7488046	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7488060	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487930	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG073
Sample ID: 68-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG073
Sample ID: 68-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488114	N/A	2021/07/30	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488081	N/A	2021/07/28	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488117	2021/07/28	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7490538	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFG073 Dup
Sample ID: 68-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai

BV Labs ID: QFG074
Sample ID: P11-I
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7487018	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488114	N/A	2021/07/30	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487930	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488117	2021/07/28	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7490538	N/A	2021/07/30	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG075
Sample ID: P11-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7487018	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488114	N/A	2021/07/30	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491227	2021/07/29	2021/07/30	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7488117	2021/07/28	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7490538	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFG077
Sample ID: 35-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7487018	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487930	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491227	2021/07/29	2021/07/30	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/28	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG078
Sample ID: 35-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/29	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7488058	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7488046	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7487018	N/A	2021/07/30	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG078
Sample ID: 35-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7488060	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491227	2021/07/29	2021/07/30	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG078 Dup
Sample ID: 35-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine

BV Labs ID: QFG079
Sample ID: 35-V
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/29	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7488058	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7488046	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7487018	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7488060	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487930	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG080
Sample ID: 35-VII
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/29	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7488058	N/A	2021/07/29	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG080
Sample ID: 35-VII
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Fluoride	ISE	7488046	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7487018	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488509	N/A	2021/07/29	Chandra Nandlal
pH	AT	7488060	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/28	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG082
Sample ID: 31-I
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7491972	N/A	2021/07/29	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7491981	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7491993	2021/07/29	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7487018	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/30	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488114	N/A	2021/07/30	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488509	N/A	2021/07/29	Chandra Nandlal
pH	AT	7491975	2021/07/29	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491227	2021/07/29	2021/07/30	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7488117	2021/07/28	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7490538	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFG082 Dup
Sample ID: 31-I
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7491972	N/A	2021/07/29	Surinder Rai
Conductivity	AT	7491981	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7491993	2021/07/29	2021/07/29	Surinder Rai
pH	AT	7491975	2021/07/29	2021/07/29	Surinder Rai



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VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG083
Sample ID: 31-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7487018	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488114	N/A	2021/07/30	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488081	N/A	2021/07/28	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491227	2021/07/29	2021/07/30	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7488117	2021/07/28	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7490538	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFG083 Dup
Sample ID: 31-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7491227	2021/07/29	2021/07/30	Shaneil Hall

BV Labs ID: QFG084
Sample ID: 2-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/29	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7488058	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7488046	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7487018	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488509	N/A	2021/07/29	Chandra Nandlal
pH	AT	7488060	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491227	2021/07/29	2021/07/30	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/28	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione



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BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG086
Sample ID: 4-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/29	Surinder Rai
Anions	IC	7488654	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7488058	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7488046	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7487018	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7488060	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFO062
Sample ID: 40-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493814	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493818	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493787	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493792	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO063
Sample ID: 40-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk



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VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO063
Sample ID: 40-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7491179	N/A	2021/07/29	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7491173	N/A	2021/07/30	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh



GENERAL COMMENTS

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

Package 1	3.3°C
Package 2	1.0°C
Package 3	3.0°C
Package 4	3.7°C

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

Sample QFG052 [P10-III] : Metals Analysis: Due to the sample matrix, the sample required dilution. Detection limits were adjusted accordingly.

Sample QFG082 [31-I] : Metals Analysis: Due to the sample matrix, the sample required dilution. Detection limits were 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 #: C1L0576
Report Date: 2021/08/06

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
7487770	Phenols-4AAP	2021/07/28	102	80 - 120	103	80 - 120	<0.0010	mg/L	9.0	20		
7487930	Phenols-4AAP	2021/07/28	100	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20		
7487946	Fluoride (F-)	2021/07/29	106	80 - 120	102	80 - 120	<0.10	mg/L	0.91	20		
7487956	Alkalinity (Total as CaCO3)	2021/07/29			97	85 - 115	<1.0	mg/L	0.59	20		
7487963	pH	2021/07/29			102	98 - 103			0.69	N/A		
7487966	Conductivity	2021/07/29			100	85 - 115	<1.0	umho/cm	0.30	25		
7487989	Orthophosphate (P)	2021/08/03	113	75 - 125	99	80 - 120	<0.010	mg/L	NC	25		
7488031	Total Dissolved Solids	2021/07/30					<10	mg/L	2.2	25	98	90 - 110
7488046	Fluoride (F-)	2021/07/28	107	80 - 120	109	80 - 120	<0.10	mg/L	0.46	20		
7488048	Total Organic Carbon (TOC)	2021/07/29	96	80 - 120	97	80 - 120	<0.40	mg/L	0.99	20		
7488052	Total Ammonia-N	2021/08/03	79	75 - 125	99	80 - 120	<0.050	mg/L	0.23	20		
7488054	Alkalinity (Total as CaCO3)	2021/07/28			96	85 - 115	<1.0	mg/L	0.33	20		
7488057	Total Kjeldahl Nitrogen (TKN)	2021/07/29	NC	80 - 120	102	80 - 120	<0.10	mg/L	2.0	20	97	80 - 120
7488058	Conductivity	2021/07/28			101	85 - 115	<1.0	umho/cm	0.21	25		
7488060	pH	2021/07/28			101	98 - 103			0.59	N/A		
7488069	Dissolved Bromide (Br-)	2021/07/29	102	80 - 120	100	80 - 120	<1.0	mg/L	NC	20		
7488069	Dissolved Chloride (Cl-)	2021/07/29	NC	80 - 120	97	70 - 130	<1.0	mg/L	0.57	20		
7488069	Dissolved Sulphate (SO4)	2021/07/29	NC	80 - 120	98	80 - 120	<1.0	mg/L	1.8	20		
7488070	Orthophosphate (P)	2021/08/03	118	75 - 125	101	80 - 120	<0.010	mg/L	2.2	25		
7488081	Nitrate (N)	2021/07/28	96	80 - 120	97	80 - 120	<0.10	mg/L	NC	20		
7488081	Nitrite (N)	2021/07/28	107	80 - 120	108	80 - 120	<0.010	mg/L	NC	20		
7488114	Total Ammonia-N	2021/07/30	102	75 - 125	101	80 - 120	<0.050	mg/L	2.1	20		
7488117	Total Kjeldahl Nitrogen (TKN)	2021/07/29	106	80 - 120	106	80 - 120	<0.10	mg/L	2.2	20	109	80 - 120
7488476	Dissolved Aluminum (Al)	2021/07/29	101	80 - 120	102	80 - 120	<4.9	ug/L	NC	20		
7488476	Dissolved Antimony (Sb)	2021/07/29	103	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7488476	Dissolved Arsenic (As)	2021/07/29	99	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7488476	Dissolved Barium (Ba)	2021/07/29	99	80 - 120	98	80 - 120	<2.0	ug/L	2.7	20		
7488476	Dissolved Beryllium (Be)	2021/07/29	107	80 - 120	100	80 - 120	<0.40	ug/L	NC	20		
7488476	Dissolved Bismuth (Bi)	2021/07/29	100	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		



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BV Labs Job #: C1L0576
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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
7488476	Dissolved Boron (B)	2021/07/29	106	80 - 120	93	80 - 120	<10	ug/L	3.1	20		
7488476	Dissolved Cadmium (Cd)	2021/07/29	100	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
7488476	Dissolved Calcium (Ca)	2021/07/29	NC	80 - 120	99	80 - 120	<200	ug/L	0.44	20		
7488476	Dissolved Chromium (Cr)	2021/07/29	98	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
7488476	Dissolved Cobalt (Co)	2021/07/29	100	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7488476	Dissolved Copper (Cu)	2021/07/29	102	80 - 120	102	80 - 120	<0.90	ug/L	NC	20		
7488476	Dissolved Iron (Fe)	2021/07/29	98	80 - 120	97	80 - 120	<100	ug/L	NC	20		
7488476	Dissolved Lead (Pb)	2021/07/29	98	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7488476	Dissolved Lithium (Li)	2021/07/29	108	80 - 120	98	80 - 120	<5.0	ug/L	5.3	20		
7488476	Dissolved Magnesium (Mg)	2021/07/29	NC	80 - 120	99	80 - 120	<50	ug/L	1.3	20		
7488476	Dissolved Manganese (Mn)	2021/07/29	98	80 - 120	97	80 - 120	<2.0	ug/L	0.39	20		
7488476	Dissolved Molybdenum (Mo)	2021/07/29	102	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7488476	Dissolved Nickel (Ni)	2021/07/29	96	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
7488476	Dissolved Phosphorus (P)	2021/07/29	109	80 - 120	112	80 - 120	<100	ug/L	NC	20		
7488476	Dissolved Potassium (K)	2021/07/29	101	80 - 120	101	80 - 120	<200	ug/L	1.1	20		
7488476	Dissolved Selenium (Se)	2021/07/29	98	80 - 120	99	80 - 120	<2.0	ug/L	NC	20		
7488476	Dissolved Silicon (Si)	2021/07/29	103	80 - 120	103	80 - 120	<50	ug/L	0.34	20		
7488476	Dissolved Silver (Ag)	2021/07/29	95	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		
7488476	Dissolved Sodium (Na)	2021/07/29	NC	80 - 120	99	80 - 120	<100	ug/L	0.83	20		
7488476	Dissolved Strontium (Sr)	2021/07/29	NC	80 - 120	95	80 - 120	<1.0	ug/L	1.1	20		
7488476	Dissolved Tellurium (Te)	2021/07/29	101	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7488476	Dissolved Thallium (Tl)	2021/07/29	98	80 - 120	102	80 - 120	<0.050	ug/L	NC	20		
7488476	Dissolved Tin (Sn)	2021/07/29	101	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7488476	Dissolved Titanium (Ti)	2021/07/29	97	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7488476	Dissolved Tungsten (W)	2021/07/29	99	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7488476	Dissolved Uranium (U)	2021/07/29	104	80 - 120	101	80 - 120	<0.10	ug/L	7.3	20		
7488476	Dissolved Vanadium (V)	2021/07/29	100	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7488476	Dissolved Zinc (Zn)	2021/07/29	97	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7488476	Dissolved Zirconium (Zr)	2021/07/29	106	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7488478	Dissolved Aluminum (Al)	2021/08/03	108	80 - 120	99	80 - 120	<4.9	ug/L	0.082	20		
7488478	Dissolved Antimony (Sb)	2021/08/03	104	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		



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VERITAS

BV Labs Job #: C1L0576
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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
7488478	Dissolved Arsenic (As)	2021/08/03	102	80 - 120	98	80 - 120	<1.0	ug/L	5.4	20		
7488478	Dissolved Barium (Ba)	2021/08/03	103	80 - 120	95	80 - 120	<2.0	ug/L	0.33	20		
7488478	Dissolved Beryllium (Be)	2021/08/03	103	80 - 120	102	80 - 120	<0.40	ug/L	NC	20		
7488478	Dissolved Bismuth (Bi)	2021/08/03	79 (1)	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7488478	Dissolved Boron (B)	2021/08/03	NC	80 - 120	94	80 - 120	<10	ug/L	0.67	20		
7488478	Dissolved Cadmium (Cd)	2021/08/03	96	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7488478	Dissolved Calcium (Ca)	2021/08/03	NC	80 - 120	99	80 - 120	<200	ug/L	2.2	20		
7488478	Dissolved Chromium (Cr)	2021/08/03	99	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7488478	Dissolved Cobalt (Co)	2021/08/03	99	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7488478	Dissolved Copper (Cu)	2021/08/03	92	80 - 120	98	80 - 120	<0.90	ug/L	NC	20		
7488478	Dissolved Iron (Fe)	2021/08/03	99	80 - 120	99	80 - 120	<100	ug/L	NC	20		
7488478	Dissolved Lead (Pb)	2021/08/03	91	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7488478	Dissolved Lithium (Li)	2021/08/03	NC	80 - 120	106	80 - 120	<5.0	ug/L	4.3	20		
7488478	Dissolved Magnesium (Mg)	2021/08/03	99	80 - 120	105	80 - 120	<50	ug/L	0.18	20		
7488478	Dissolved Manganese (Mn)	2021/08/03	101	80 - 120	99	80 - 120	<2.0	ug/L	1.5	20		
7488478	Dissolved Molybdenum (Mo)	2021/08/03	109	80 - 120	100	80 - 120	<0.50	ug/L	0.39	20		
7488478	Dissolved Nickel (Ni)	2021/08/03	93	80 - 120	99	80 - 120	<1.0	ug/L	1.5	20		
7488478	Dissolved Phosphorus (P)	2021/08/03	115	80 - 120	114	80 - 120	<100	ug/L	2.4	20		
7488478	Dissolved Potassium (K)	2021/08/03	NC	80 - 120	102	80 - 120	<200	ug/L	1.5	20		
7488478	Dissolved Selenium (Se)	2021/08/03	94	80 - 120	99	80 - 120	<2.0	ug/L	NC	20		
7488478	Dissolved Silicon (Si)	2021/08/03	108	80 - 120	101	80 - 120	<50	ug/L	4.1	20		
7488478	Dissolved Silver (Ag)	2021/08/03	82	80 - 120	77 (1)	80 - 120	<0.090	ug/L	NC	20		
7488478	Dissolved Sodium (Na)	2021/08/03	NC	80 - 120	101	80 - 120	<100	ug/L	2.3	20		
7488478	Dissolved Strontium (Sr)	2021/08/03	NC	80 - 120	96	80 - 120	<1.0	ug/L	1.1	20		
7488478	Dissolved Tellurium (Te)	2021/08/03	85	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7488478	Dissolved Thallium (Tl)	2021/08/03	92	80 - 120	106	80 - 120	<0.050	ug/L	NC	20		
7488478	Dissolved Tin (Sn)	2021/08/03	108	80 - 120	101	80 - 120	<1.0	ug/L	5.0	20		
7488478	Dissolved Titanium (Ti)	2021/08/03	105	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7488478	Dissolved Tungsten (W)	2021/08/03	97	80 - 120	101	80 - 120	<1.0	ug/L	2.0	20		
7488478	Dissolved Uranium (U)	2021/08/03	94	80 - 120	107	80 - 120	<0.10	ug/L	NC	20		
7488478	Dissolved Vanadium (V)	2021/08/03	104	80 - 120	98	80 - 120	<0.50	ug/L	4.7	20		



BUREAU
VERITAS

BV Labs Job #: C110576
Report Date: 2021/08/06

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
7488478	Dissolved Zinc (Zn)	2021/08/03	90	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7488478	Dissolved Zirconium (Zr)	2021/08/03	118	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7488503	Nitrate (N)	2021/07/29	97	80 - 120	96	80 - 120	<0.10	mg/L	NC	20		
7488503	Nitrite (N)	2021/07/29	109	80 - 120	109	80 - 120	<0.010	mg/L	NC	20		
7488509	Nitrate (N)	2021/07/29	88	80 - 120	92	80 - 120	<0.10	mg/L	NC	20		
7488509	Nitrite (N)	2021/07/29	109	80 - 120	111	80 - 120	<0.010	mg/L	NC	20		
7488654	Dissolved Bromide (Br-)	2021/07/29	104	80 - 120	102	80 - 120	<1.0	mg/L	NC	20		
7488654	Dissolved Chloride (Cl-)	2021/07/29	NC	80 - 120	98	70 - 130	<1.0	mg/L	8.1	20		
7488654	Dissolved Sulphate (SO4)	2021/07/29	NC	80 - 120	99	80 - 120	<1.0	mg/L	7.6	20		
7490538	Total Organic Carbon (TOC)	2021/07/29	95	80 - 120	95	80 - 120	<0.40	mg/L	1.7	20		
7490955	Phenols-4AAP	2021/07/29	100	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20		
7491173	Orthophosphate (P)	2021/07/30	113	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
7491179	Nitrate (N)	2021/07/29	86	80 - 120	90	80 - 120	<0.10	mg/L	NC	20		
7491179	Nitrite (N)	2021/07/29	108	80 - 120	111	80 - 120	<0.010	mg/L				
7491199	Total Dissolved Solids	2021/08/03					<10	mg/L	0.33	25	95	90 - 110
7491216	Total Organic Carbon (TOC)	2021/07/30	96	80 - 120	97	80 - 120	<0.40	mg/L	3.0	20		
7491223	Total Ammonia-N	2021/08/03	107	75 - 125	100	80 - 120	<0.050	mg/L	NC	20		
7491225	Total Kjeldahl Nitrogen (TKN)	2021/07/30	105	80 - 120	105	80 - 120	<0.10	mg/L	NC	20	110	80 - 120
7491227	Total Dissolved Solids	2021/07/30					<10	mg/L	0.58	25	97	90 - 110
7491972	Alkalinity (Total as CaCO3)	2021/07/29			95	85 - 115	<1.0	mg/L	0.31	20		
7491975	pH	2021/07/29			102	98 - 103			0.0021	N/A		
7491981	Conductivity	2021/07/29			103	85 - 115	<1.0	umho/cm	0	25		
7491993	Fluoride (F-)	2021/07/29	NC	80 - 120	105	80 - 120	<0.10	mg/L	0.50	20		
7492403	Dissolved Bromide (Br-)	2021/07/30	104	80 - 120	104	80 - 120	<1.0	mg/L	NC	20		
7492403	Dissolved Chloride (Cl-)	2021/07/30	NC	80 - 120	100	70 - 130	<1.0	mg/L	7.2	20		
7492403	Dissolved Sulphate (SO4)	2021/07/30	NC	80 - 120	98	80 - 120	<1.0	mg/L	6.4	20		
7493051	Dissolved Aluminum (Al)	2021/08/05	97	80 - 120	99	80 - 120	<4.9	ug/L	NC	20		
7493051	Dissolved Antimony (Sb)	2021/08/05	100	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		
7493051	Dissolved Arsenic (As)	2021/08/05	102	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Barium (Ba)	2021/08/05	98	80 - 120	98	80 - 120	<2.0	ug/L	5.0	20		



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

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
7493051	Dissolved Beryllium (Be)	2021/08/05	87	80 - 120	92	80 - 120	<0.40	ug/L	NC	20		
7493051	Dissolved Bismuth (Bi)	2021/08/05	78 (2)	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Boron (B)	2021/08/05	NC	80 - 120	89	80 - 120	<10	ug/L	1.7	20		
7493051	Dissolved Cadmium (Cd)	2021/08/05	100	80 - 120	103	80 - 120	<0.090	ug/L	NC	20		
7493051	Dissolved Calcium (Ca)	2021/08/05	NC	80 - 120	97	80 - 120	<200	ug/L	2.0	20		
7493051	Dissolved Chromium (Cr)	2021/08/05	94	80 - 120	94	80 - 120	<5.0	ug/L	NC	20		
7493051	Dissolved Cobalt (Co)	2021/08/05	99	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7493051	Dissolved Copper (Cu)	2021/08/05	89	80 - 120	100	80 - 120	<0.90	ug/L	NC	20		
7493051	Dissolved Iron (Fe)	2021/08/05	98	80 - 120	98	80 - 120	<100	ug/L	NC	20		
7493051	Dissolved Lead (Pb)	2021/08/05	98	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		
7493051	Dissolved Lithium (Li)	2021/08/05	NC	80 - 120	102	80 - 120	<5.0	ug/L	5.2	20		
7493051	Dissolved Magnesium (Mg)	2021/08/05	NC	80 - 120	102	80 - 120	<50	ug/L	1.1	20		
7493051	Dissolved Manganese (Mn)	2021/08/05	99	80 - 120	99	80 - 120	<2.0	ug/L	2.8	20		
7493051	Dissolved Molybdenum (Mo)	2021/08/05	101	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7493051	Dissolved Nickel (Ni)	2021/08/05	94	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Phosphorus (P)	2021/08/05	111	80 - 120	114	80 - 120	<100	ug/L	NC	20		
7493051	Dissolved Potassium (K)	2021/08/05	NC	80 - 120	100	80 - 120	<200	ug/L	0.49	20		
7493051	Dissolved Selenium (Se)	2021/08/05	55 (2)	80 - 120	101	80 - 120	<2.0	ug/L	NC	20		
7493051	Dissolved Silicon (Si)	2021/08/05	103	80 - 120	102	80 - 120	<50	ug/L	3.0	20		
7493051	Dissolved Silver (Ag)	2021/08/05	80	80 - 120	90	80 - 120	<0.090	ug/L	NC	20		
7493051	Dissolved Sodium (Na)	2021/08/05	NC	80 - 120	98	80 - 120	<100	ug/L	1.8	20		
7493051	Dissolved Strontium (Sr)	2021/08/05	NC	80 - 120	98	80 - 120	<1.0	ug/L	0.67	20		
7493051	Dissolved Tellurium (Te)	2021/08/05	79 (2)	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Thallium (Tl)	2021/08/05	100	80 - 120	105	80 - 120	<0.050	ug/L	NC	20		
7493051	Dissolved Tin (Sn)	2021/08/05	106	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Titanium (Ti)	2021/08/05	103	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
7493051	Dissolved Tungsten (W)	2021/08/05	103	80 - 120	105	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Uranium (U)	2021/08/05	100	80 - 120	102	80 - 120	<0.10	ug/L	10	20		
7493051	Dissolved Vanadium (V)	2021/08/05	98	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
7493051	Dissolved Zinc (Zn)	2021/08/05	94	80 - 120	101	80 - 120	<5.0	ug/L	NC	20		
7493051	Dissolved Zirconium (Zr)	2021/08/05	105	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

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
7493661	Fluoride (F-)	2021/07/30	89	80 - 120	95	80 - 120	<0.10	mg/L	0.46	20		
7493671	Conductivity	2021/07/30			100	85 - 115	<1.0	umho/cm	0.13	25		
7493675	Alkalinity (Total as CaCO3)	2021/07/30			95	85 - 115	<1.0	mg/L	0.34	20		
7493677	pH	2021/07/30			101	98 - 103			0.17	N/A		
7493787	Fluoride (F-)	2021/07/30	103	80 - 120	95	80 - 120	<0.10	mg/L	5.6	20		
7493792	pH	2021/07/30			102	98 - 103			0.080	N/A		
7493814	Alkalinity (Total as CaCO3)	2021/07/30			97	85 - 115	<1.0	mg/L	0.012	20		
7493818	Conductivity	2021/07/30			100	85 - 115	<1.0	umho/cm	0.24	25		
7494165	Dissolved Bromide (Br-)	2021/08/03	107	80 - 120	103	80 - 120	<1.0	mg/L	NC	20		
7494165	Dissolved Chloride (Cl-)	2021/08/03	NC	80 - 120	100	70 - 130	<1.0	mg/L	6.7	20		
7494165	Dissolved Sulphate (SO4)	2021/08/03	NC	80 - 120	101	80 - 120	<1.0	mg/L	7.2	20		
7494181	Nitrate (N)	2021/08/03	104	80 - 120	103	80 - 120	<0.10	mg/L	NC	20		
7494181	Nitrite (N)	2021/08/03	106	80 - 120	106	80 - 120	<0.010	mg/L	NC	20		
7494261	Orthophosphate (P)	2021/08/04	110	75 - 125	101	80 - 120	<0.010	mg/L	NC	25		
7495611	Total Dissolved Solids	2021/08/03					<10	mg/L	0.20	25	102	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.

(2) "Matrix Spike exceeds acceptance limits, probable matrix interference".




BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/06

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:

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.



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-Jul-21 15:10

Jolanta Goralczyk



C1L0576

Only:

Bottle Order #:



808571

Project Manager:

Jolanta Goralczyk

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:
Site #:
Sampled By:

ENV 1211
COC #:
C#808571-19-01

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

Other Regulations

CME Sanitary Sewer Bylaw
 Reg 558 Storm Sewer Bylaw
 MISA Municipality _____
 PWQOT Reg 406 Table _____
 Other _____

Special Instructions

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	Last: A: GW Monitoring	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	
1	P10-I	July 26 2021	NA	GW	Y	X													
2	P10-II				Y	X													
3	P10-III				Y	X													
4	P10-IV				Y	X													
5	P4-I				Y	X													
6	P4-II				Y	X													
7	P4-III				Y	X													
8	G24				Y	X													
9	4-IV				Y	X													
10	40-II				Y	X													

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 #)

RELINQUISHED BY: (Signature/Print) Dan Taylor **Date: (YY/MM/DD)** 21/07/27 **Time** 9:00

RECEIVED BY: (Signature/Print) [Signature] **Date: (YY/MM/DD)** 27/07/27 **Time** 15:10

Jars used and not submitted

Laboratory Use Only

Time Sensitive

Temperature (°C) on Receipt

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



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.bvlab.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 #:	Bottle Order #:	Barcode: 819873		
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	Site #:		Barcode: C#819873-31-01		
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel: Fax:	Project Name:	Sampled By:				
Email: kbailey@terrapureenv.com	Email: bmulin@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

Regulation 153 (2011)		Other Regulations		Special Instructions
<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: _____	
		<input type="checkbox"/> Other		

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	List "A" GW Monitoring	List "B" GW Monitoring	Biochemical Oxygen Demand (BOD)	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	# of Bottles	Comments
1	40-II	July 26 2021	NA	GW	Y	X				6	
2	29-I				Y	X				6	
3	29-II				Y	X				6	
4	29-IV				Y	X				6	
5	12-II				Y	X				6	
6	56-I				Y	X				6	
7	11-II				Y	X				6	
8	68-I				Y	X				6	
9	68-II				Y	X				6	
10	68-III				Y	X				6	

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 #)

RELINQUISHED BY: (Signature/Print) <i>Blayne / Dan Taylor</i>	Date: (YY/MM/DD) 21/07/21	Time 9:00	RECEIVED BY: (Signature/Print) <i>See Page 1</i>	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Laboratory Use Only
						Time Sensitive	Temperature (°C) on Receipt
						Custody Seal Present	Yes
						Custody Seal Intact	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: 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: SW Project Name: Site #: Sampled By:		Laboratory Use Only: BV Labs Job #: Bottle Order #: COC #: Project Manager: Jolanta Goralczyk C#630760-03-01	
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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.

Regulation 153 (2011)		Other Regulations		Special Instructions		Field Filtered (please circle): Metals / Hg / Cr / VI	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required: Please provide advance notice for rush projects									
Table 1	Res/Park	Table 2	Ind/Comm	Table 3	Agri/Other		Table	For RSC	CCME	Reg 558	MISA	PWQO	Reg 406 Table	Other	Sanitary Sewer Bylaw	Storm Sewer Bylaw	Municipality	Reg 406 Table	Other	List "C": SW Water Quality (Full)	List "E": SW Trace Organic Compounds	List "D": SW Water Quality (Indicator)	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.	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	68-IV	July 26 2021	NA	GW	Y																				6	
2	P11-I				Y																				6	
3	P11-III				Y																				6	
4	35-III				Y																				6	
5	35-IV				Y																				6	
6	35-V				Y																				6	
7	35-VII				Y																				6	
8	31-I				Y																				6	
9	31-III				Y																				6	
10	2-IV				Y																				6	

* RELINQUISHED BY: (Signature/Print) D. Taylor / Dan Taylor		Date: (YY/MM/DD) 21/07/21	Time 9:00	RECEIVED BY: (Signature/Print) S. Pyl		Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only			
Time Sensitive	Temperature (°C) on Race!	Custody Seal Present	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.
 * 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.
 White: BV Labs Yellow: Client
 SAMPLES MUST BE KEPT COOL (< 10° C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS



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		819873	
Stoney Creek ON L8J 1X5				Project Name:		COC #:	
Tel: (905) 561-0305 Fax: (905) 561-1674		Tel: Fax:		Site #:		Project Manager:	
Email: kbailey@terrapureenv.com		Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com		Sampled By:		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):	List "A" - GW Monitoring	List "B" - GW Monitoring	Biochemical Oxygen Demand (BOD)																
<input type="checkbox"/> Table 1	<input type="checkbox"/> Res/Park	<input type="checkbox"/> Medium/Fine	<input checked="" type="checkbox"/> CCME	<input type="checkbox"/> Sanitary Sewer Bylaw			Metals (Hg / Cr VI)																			
<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																						
Include Criteria on Certificate of Analysis (Y/N)?																										
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix																						
	4-III	July 26 2021	9:00	NA	GW	Y	X																			

* 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											
D. Taylor Brad Taylor		21/07/27		9:00		S. Taylor								<table border="1"> <tr> <td>Time Sensitive</td> <td>Temperature (°C) on Receipt</td> <td>Custody Seal Present</td> <td>Yes</td> <td>No</td> </tr> <tr> <td></td> <td></td> <td>Intact</td> <td></td> <td></td> </tr> </table>		Time Sensitive	Temperature (°C) on Receipt	Custody Seal Present	Yes	No			Intact		
Time Sensitive	Temperature (°C) on Receipt	Custody Seal Present	Yes	No																					
		Intact																							

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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. #: 808571-19-01, 819873-31-01, 830760-03-01, 819873-32-01, 834487-03-01

Report Date: 2021/08/25
Report #: R6780862
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C1L0576

Received: 2021/07/27, 15:10

Sample Matrix: Water
Samples Received: 31

Analyses	Date		Laboratory Method	Analytical Method
	Quantity	Extracted		
Alkalinity	3	N/A	2021/07/28 CAM SOP-00448	SM 23 2320 B m
Alkalinity	26	N/A	2021/07/29 CAM SOP-00448	SM 23 2320 B m
Alkalinity	2	N/A	2021/07/30 CAM SOP-00448	SM 23 2320 B m
Anions	19	N/A	2021/07/29 CAM SOP-00435	SM 23 4110 B m
Anions	11	N/A	2021/07/30 CAM SOP-00435	SM 23 4110 B m
Anions	1	N/A	2021/08/03 CAM SOP-00435	SM 23 4110 B m
Conductivity	3	N/A	2021/07/28 CAM SOP-00414	SM 23 2510 m
Conductivity	26	N/A	2021/07/29 CAM SOP-00414	SM 23 2510 m
Conductivity	2	N/A	2021/07/30 CAM SOP-00414	SM 23 2510 m
Fluoride	3	2021/07/28	2021/07/28 CAM SOP-00449	SM 23 4500-F C m
Fluoride	25	2021/07/28	2021/07/29 CAM SOP-00449	SM 23 4500-F C m
Fluoride	1	2021/07/29	2021/07/29 CAM SOP-00449	SM 23 4500-F C m
Fluoride	2	2021/07/30	2021/07/30 CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	20	N/A	2021/07/30 CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	9	N/A	2021/08/03 CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	2	N/A	2021/08/05 CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	18	N/A	2021/07/29 CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	3	N/A	2021/07/30 CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	8	N/A	2021/08/03 CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	2	N/A	2021/08/04 CAM SOP-00447	EPA 6020B m
Total Ammonia-N	9	N/A	2021/07/30 CAM SOP-00441	USGS I-2522-90 m
Total Ammonia-N	22	N/A	2021/08/03 CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	5	N/A	2021/07/28 CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate (NO3) and Nitrite (NO2) in Water (1)	23	N/A	2021/07/29 CAM SOP-00440	SM 23 4500-NO3I/NO2B



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. #: 808571-19-01, 819873-31-01, 830760-03-01, 819873-32-01, 834487-03-01

Report Date: 2021/08/25
Report #: R6780862
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C1L0576

Received: 2021/07/27, 15:10

Sample Matrix: Water
Samples Received: 31

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Nitrate (NO3) and Nitrite (NO2) in Water (1)	2	N/A	2021/07/30	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate (NO3) and Nitrite (NO2) in Water (1)	1	N/A	2021/08/03	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	3	2021/07/28	2021/07/28	CAM SOP-00413	SM 4500H+ B m
pH	25	2021/07/28	2021/07/29	CAM SOP-00413	SM 4500H+ B m
pH	1	2021/07/29	2021/07/29	CAM SOP-00413	SM 4500H+ B m
pH	2	2021/07/30	2021/07/30	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	29	N/A	2021/07/28	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	1	N/A	2021/07/29	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	1	N/A	2021/07/30	CAM SOP-00444	OMOE E3179 m
Orthophosphate	1	N/A	2021/07/30	CAM SOP-00461	EPA 365.1 m
Orthophosphate	29	N/A	2021/08/03	CAM SOP-00461	EPA 365.1 m
Orthophosphate	1	N/A	2021/08/04	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	28	2021/07/29	2021/07/30	CAM SOP-00428	SM 23 2540C m
Total Dissolved Solids	3	2021/07/31	2021/08/03	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	4	2021/07/28	2021/07/28	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	16	2021/07/28	2021/07/29	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	9	2021/07/28	2021/07/30	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	2	2021/07/29	2021/08/03	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	22	N/A	2021/07/29	CAM SOP-00446	SM 23 5310B m
Total Organic Carbon (TOC) (2)	9	N/A	2021/07/30	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. #: 808571-19-01, 819873-31-01, 830760-03-01, 819873-32-01, 834487-03-01

Report Date: 2021/08/25
Report #: R6780862
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BV LABS JOB #: C1L0576

Received: 2021/07/27, 15:10

Encryption Key

Jolanta Goralczyk
Project Manager
25 Aug 2021 11:56:30

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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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 #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG050			QFG051			QFG052		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		808571-19-01			808571-19-01			808571-19-01		
	UNITS	P10-I	RDL	QC Batch	P10-II	RDL	QC Batch	P10-III	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2800	1.0	7485747	2600	1.0	7485747	2300	1.0	7485747
Inorganics										
Total Ammonia-N	mg/L	28	0.050	7488114	36	0.25	7488114	5.2	0.050	7488052
Conductivity	umho/cm	11000	1.0	7487966	14000	1.0	7487966	7600	1.0	7487966
Total Dissolved Solids	mg/L	7900	20	7488031	9570	20	7488031	5880	20	7488031
Fluoride (F-)	mg/L	1.2	0.10	7487946	3.4	0.10	7487946	1.0	0.10	7487946
Total Kjeldahl Nitrogen (TKN)	mg/L	29	2.0	7488117	42	2.0	7488117	5.6	0.50	7488057
Total Organic Carbon (TOC)	mg/L	5.5	0.40	7490538	16	0.40	7490538	0.82	0.40	7488048
Orthophosphate (P)	mg/L	0.011	0.010	7487989	0.014	0.010	7488070	<0.20 (1)	0.20	7488070
pH	pH	7.85		7487963	8.49		7487963	8.12		7487963
Phenols-4AAP	mg/L	<0.0010	0.0010	7487930	0.022	0.0020	7487770	<0.0020 (2)	0.0020	7487770
Alkalinity (Total as CaCO3)	mg/L	140	1.0	7487956	130	1.0	7487956	510	1.0	7487956
Nitrite (N)	mg/L	<0.010	0.010	7488503	<0.010	0.010	7488503	<0.010	0.010	7488503
Dissolved Chloride (Cl-)	mg/L	2600	20	7488069	3000	20	7488069	1200	10	7492403
Nitrate (N)	mg/L	<0.10	0.10	7488503	<0.10	0.10	7488503	<0.10	0.10	7488503
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488503	<0.10	0.10	7488503	<0.10	0.10	7488503
Dissolved Bromide (Br-)	mg/L	<20	20	7488069	<20	20	7488069	17	10	7492403
Dissolved Sulphate (SO4)	mg/L	1500	20	7488069	1600	20	7488069	2200	10	7492403

RDL = Reportable Detection Limit
 QC Batch = Quality Control Batch
 (1) Due to colour interferences, sample required dilution. Detection limit was adjusted accordingly.
 (2) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG053			QFG053			QFG055		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		808571-19-01			808571-19-01			808571-19-01		
	UNITS	P10-IV	RDL	QC Batch	P10-IV Lab-Dup	RDL	QC Batch	P4-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1300	1.0	7485747				2700	1.0	7485747
Inorganics										
Total Ammonia-N	mg/L	4.0	0.050	7488052				36	0.25	7488052
Conductivity	umho/cm	3900	1.0	7487966				11000	1.0	7487966
Total Dissolved Solids	mg/L	2870	10	7488031	2940	10	7488031	7690	20	7488031
Fluoride (F-)	mg/L	1.8	0.10	7487946				1.3	0.10	7487946
Total Kjeldahl Nitrogen (TKN)	mg/L	4.4	0.50	7488057				36	1.0	7488057
Total Organic Carbon (TOC)	mg/L	7.2	0.40	7488048				7.4	0.40	7488048
Orthophosphate (P)	mg/L	<0.010	0.010	7487989				0.016	0.010	7487989
pH	pH	7.83		7487963				8.12		7487963
Phenols-4AAP	mg/L	<0.0010	0.0010	7487770				<0.0010	0.0010	7487770
Alkalinity (Total as CaCO3)	mg/L	160	1.0	7487956				100	1.0	7487956
Nitrite (N)	mg/L	<0.010	0.010	7488081				<0.010	0.010	7488503
Dissolved Chloride (Cl-)	mg/L	370	10	7488069				2300	20	7488069
Nitrate (N)	mg/L	<0.10	0.10	7488081				<0.10	0.10	7488503
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488081				<0.10	0.10	7488503
Dissolved Bromide (Br-)	mg/L	<10	10	7488069				<10	10	7488069
Dissolved Sulphate (SO4)	mg/L	1400	10	7488069				1700	10	7488069

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



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG056			QFG057			QFG059		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		808571-19-01			808571-19-01			808571-19-01		
	UNITS	P4-II	RDL	QC Batch	P4-III	RDL	QC Batch	G24	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	510	1.0	7485747	2100	1.0	7485747	750	1.0	7485747
Inorganics										
Total Ammonia-N	mg/L	180	0.50	7488052	13	0.050	7488052	0.094	0.050	7488052
Conductivity	umho/cm	14000	1.0	7487966	9400	1.0	7487966	1400	1.0	7488058
Total Dissolved Solids	mg/L	7180	20	7488031	6240	20	7491227	935	10	7491227
Fluoride (F-)	mg/L	3.5	0.10	7487946	1.1	0.10	7487946	0.81	0.10	7488046
Total Kjeldahl Nitrogen (TKN)	mg/L	190	5.0	7488057	14	0.50	7488057	0.35	0.10	7488057
Total Organic Carbon (TOC)	mg/L	36	0.40	7488048	14	0.40	7488048	3.2	0.40	7488048
Orthophosphate (P)	mg/L	0.012	0.010	7487989	0.013	0.010	7487989	<0.010	0.010	7488070
pH	pH	9.39		7487963	7.95		7487963	7.84		7488060
Phenols-4AAP	mg/L	1.1	0.020	7487930	0.0010	0.0010	7487930	<0.0010	0.0010	7487930
Alkalinity (Total as CaCO3)	mg/L	410	1.0	7487956	110	1.0	7487956	290	1.0	7488054
Nitrite (N)	mg/L	<0.010	0.010	7488081	<0.010	0.010	7488503	<0.010	0.010	7488509
Dissolved Chloride (Cl-)	mg/L	4300	50	7488069	2400	20	7488069	95	1.0	7488654
Nitrate (N)	mg/L	<0.10	0.10	7488081	<0.10	0.10	7488503	<0.10	0.10	7488509
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488081	<0.10	0.10	7488503	<0.10	0.10	7488509
Dissolved Bromide (Br-)	mg/L	<50	50	7488069	<20	20	7488069	<1.0	1.0	7488654
Dissolved Sulphate (SO4)	mg/L	510	50	7488069	1100	20	7488069	380	1.0	7488654
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG060			QFO062		QFO063		
Sampling Date		2021/07/26			2021/07/26		2021/07/26		
COC Number		808571-19-01			834487-03-01		834487-03-01		
	UNITS	4-IV	RDL	QC Batch	40-II	QC Batch	40-III	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	540	1.0	7485747	1400	7487957	1300	1.0	7487957
Inorganics									
Total Ammonia-N	mg/L	190	0.50	7488052	5.8	7491223	5.6 (1)	0.050	7491223
Conductivity	umho/cm	13000	1.0	7488058	4100	7493818	3900	1.0	7493671
Total Dissolved Solids	mg/L	7220	20	7488031	2720	7491199	2630	10	7491199
Fluoride (F-)	mg/L	3.4	0.10	7488046	1.2	7493787	1.2	0.10	7493661
Total Kjeldahl Nitrogen (TKN)	mg/L	190	5.0	7488057	6.0	7491225	5.5 (1)	0.50	7491225
Total Organic Carbon (TOC)	mg/L	36	0.40	7488048	3.4	7491216	3.5	0.40	7491216
Orthophosphate (P)	mg/L	0.016	0.010	7488070	<0.010	7494261	<0.010	0.010	7491173
pH	pH	9.30		7488060	7.77	7493792	7.67		7493677
Phenols-4AAP	mg/L	1.2	0.050	7487930	<0.0010	7490955	<0.0010	0.0010	7490955
Alkalinity (Total as CaCO3)	mg/L	370	1.0	7488054	230	7493814	230	1.0	7493675
Nitrite (N)	mg/L	<0.010	0.010	7488503	<0.010	7494181	<0.010	0.010	7491179
Dissolved Chloride (Cl-)	mg/L	3900	20	7492403	590	7494165	560	10	7492403
Nitrate (N)	mg/L	<0.10	0.10	7488503	<0.10	7494181	<0.10	0.10	7491179
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488503	<0.10	7494181	<0.10	0.10	7491179
Dissolved Bromide (Br-)	mg/L	<20	20	7492403	<10	7494165	<10	10	7492403
Dissolved Sulphate (SO4)	mg/L	640	20	7492403	1100	7494165	1000	10	7492403

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.



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG061			QFG061			QFG062		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		819873-31-01			819873-31-01			819873-31-01		
	UNITS	29-I	RDL	QC Batch	29-I Lab-Dup	RDL	QC Batch	29-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1900	1.0	7485747				1100	1.0	7485747
Inorganics										
Total Ammonia-N	mg/L	14	0.050	7488052				0.76	0.050	7488052
Conductivity	umho/cm	4900	1.0	7488058	4900	1.0	7488058	3000	1.0	7488058
Total Dissolved Solids	mg/L	3490	10	7488031				2030	10	7488031
Fluoride (F-)	mg/L	1.4	0.10	7488046	1.4	0.10	7488046	1.3	0.10	7488046
Total Kjeldahl Nitrogen (TKN)	mg/L	14	0.50	7488057				1.4	0.10	7488057
Total Organic Carbon (TOC)	mg/L	4.9	0.40	7488048				7.5	0.40	7488048
Orthophosphate (P)	mg/L	<0.010	0.010	7487989				<0.010	0.010	7488070
pH	pH	7.75		7488060	7.80		7488060	8.00		7488060
Phenols-4AAP	mg/L	<0.0010	0.0010	7487770				<0.0010	0.0010	7487770
Alkalinity (Total as CaCO3)	mg/L	160	1.0	7488054	160	1.0	7488054	150	1.0	7488054
Nitrite (N)	mg/L	<0.010	0.010	7488503				<0.010	0.010	7488503
Dissolved Chloride (Cl-)	mg/L	640	10	7488069				450	5.0	7488654
Nitrate (N)	mg/L	<0.10	0.10	7488503				<0.10	0.10	7488503
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488503				<0.10	0.10	7488503
Dissolved Bromide (Br-)	mg/L	<10	10	7488069				<5.0	5.0	7488654
Dissolved Sulphate (SO4)	mg/L	1600	10	7488069				780	5.0	7488654

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



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VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG062			QFG064			QFG064		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		819873-31-01			819873-31-01			819873-31-01		
	UNITS	29-II Lab-Dup	RDL	QC Batch	29-IV	RDL	QC Batch	29-IV Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				1900	1.0	7485747			
Inorganics										
Total Ammonia-N	mg/L				15	0.050	7488052	15	0.050	7488052
Conductivity	umho/cm				5300	1.0	7487966			
Total Dissolved Solids	mg/L				3570	10	7491227			
Fluoride (F-)	mg/L				1.5	0.10	7487946			
Total Kjeldahl Nitrogen (TKN)	mg/L				15	0.50	7488057	15	0.50	7488057
Total Organic Carbon (TOC)	mg/L				4.5	0.40	7488048	4.4	0.40	7488048
Orthophosphate (P)	mg/L				<0.010	0.010	7487989			
pH	pH				7.81		7487963			
Phenols-4AAP	mg/L				<0.0010	0.0010	7487770			
Alkalinity (Total as CaCO3)	mg/L				180	1.0	7487956			
Nitrite (N)	mg/L	<0.010	0.010	7488503	<0.010	0.010	7488503			
Dissolved Chloride (Cl-)	mg/L	420	5.0	7488654	890	10	7492403			
Nitrate (N)	mg/L	<0.10	0.10	7488503	<0.10	0.10	7488503			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488503	<0.10	0.10	7488503			
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7488654	<10	10	7492403			
Dissolved Sulphate (SO4)	mg/L	720	5.0	7488654	1700	10	7492403			

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



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VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG065			QFG067			QFG068		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		819873-31-01			819873-31-01			819873-31-01		
	UNITS	12-II	RDL	QC Batch	56-I	RDL	QC Batch	11-II	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	1900	1.0	7485747	1200	1.0	7485747	1200	1.0	7485747
Inorganics										
Total Ammonia-N	mg/L	14	0.050	7488052	1.3	0.050	7488052	1.3	0.050	7488114
Conductivity	umho/cm	4900	1.0	7487966	3000	1.0	7487966	3000	1.0	7487966
Total Dissolved Solids	mg/L	3480	10	7488031	2000	10	7488031	2080	10	7488031
Fluoride (F-)	mg/L	1.3	0.10	7487946	0.48	0.10	7487946	0.48	0.10	7487946
Total Kjeldahl Nitrogen (TKN)	mg/L	15	0.50	7488057	1.5	0.10	7488057	1.5	0.10	7488117
Total Organic Carbon (TOC)	mg/L	5.0	0.40	7488048	2.8	0.40	7488048	2.7	0.40	7490538
Orthophosphate (P)	mg/L	<0.010	0.010	7487989	<0.010	0.010	7487989	<0.010	0.010	7487989
pH	pH	7.85		7487963	7.84		7487963	7.82		7487963
Phenols-4AAP	mg/L	<0.0010	0.0010	7487770	<0.0010	0.0010	7487770	<0.0010	0.0010	7487770
Alkalinity (Total as CaCO3)	mg/L	160	1.0	7487956	260	1.0	7487956	260	1.0	7487956
Nitrite (N)	mg/L	<0.010	0.010	7488503	<0.010	0.010	7488081	<0.010	0.010	7488503
Dissolved Chloride (Cl-)	mg/L	650	10	7488069	440	10	7488069	480	5.0	7488069
Nitrate (N)	mg/L	<0.10	0.10	7488503	<0.10	0.10	7488081	<0.10	0.10	7488503
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488503	<0.10	0.10	7488081	<0.10	0.10	7488503
Dissolved Bromide (Br-)	mg/L	<10	10	7488069	<10	10	7488069	<5.0	5.0	7488069
Dissolved Sulphate (SO4)	mg/L	1600	10	7488069	590	10	7488069	630	5.0	7488069
RDL = Reportable Detection Limit QC Batch = Quality Control Batch										



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VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG069			QFG070			QFG070		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		819873-31-01			819873-31-01			819873-31-01		
	UNITS	68-I	RDL	QC Batch	68-II	RDL	QC Batch	68-II Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2400	1.0	7485747	2100	1.0	7485747			
Inorganics										
Total Ammonia-N	mg/L	15	0.050	7488114	0.80	0.050	7488052			
Conductivity	umho/cm	7200	1.0	7488058	3700	1.0	7487966			
Total Dissolved Solids	mg/L	5390	20	7495611	2910	10	7488031			
Fluoride (F-)	mg/L	1.1	0.10	7488046	0.41	0.10	7487946			
Total Kjeldahl Nitrogen (TKN)	mg/L	15	0.50	7488117	1.0	0.10	7488057			
Total Organic Carbon (TOC)	mg/L	3.5	0.40	7490538	2.2	0.40	7488048			
Orthophosphate (P)	mg/L	<0.010	0.010	7488070	<0.010	0.010	7487989			
pH	pH	7.58		7488060	7.65		7487963			
Phenols-4AAP	mg/L	<0.0010	0.0010	7487770	<0.0010	0.0010	7487930	<0.0010	0.0010	7487930
Alkalinity (Total as CaCO3)	mg/L	210	1.0	7488054	320	1.0	7487956			
Nitrite (N)	mg/L	<0.010	0.010	7488503	<0.010	0.010	7488503			
Dissolved Chloride (Cl-)	mg/L	1500	10	7492403	400	5.0	7488069			
Nitrate (N)	mg/L	<0.10	0.10	7488503	<0.10	0.10	7488503			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488503	<0.10	0.10	7488503			
Dissolved Bromide (Br-)	mg/L	<10	10	7492403	<5.0	5.0	7488069			
Dissolved Sulphate (SO4)	mg/L	1500	10	7492403	1300	5.0	7488069			

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



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VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG072			QFG073			QFG073		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		819873-31-01			830760-03-01			830760-03-01		
	UNITS	68-III	RDL	QC Batch	68-IV	RDL	QC Batch	68-IV Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	220	1.0	7485747	380	1.0	7485747			
Inorganics										
Total Ammonia-N	mg/L	52	0.25	7488052	<0.050	0.050	7488114			
Conductivity	umho/cm	6100	1.0	7488058	1000	1.0	7487966	1000	1.0	7487966
Total Dissolved Solids	mg/L	2440	10	7488031	575	10	7488031			
Fluoride (F-)	mg/L	2.1	0.10	7488046	0.84	0.10	7487946	0.85	0.10	7487946
Total Kjeldahl Nitrogen (TKN)	mg/L	56	2.0	7488057	0.23	0.10	7488117			
Total Organic Carbon (TOC)	mg/L	32	0.40	7488048	3.8	0.40	7490538			
Orthophosphate (P)	mg/L	<0.010	0.010	7488070	<0.010	0.010	7487989			
pH	pH	8.53		7488060	8.02		7487963	8.07		7487963
Phenols-4AAP	mg/L	0.16	0.010	7487930	<0.0010	0.0010	7487770			
Alkalinity (Total as CaCO3)	mg/L	89	1.0	7488054	220	1.0	7487956	220	1.0	7487956
Nitrite (N)	mg/L	<0.010	0.010	7488503	<0.010	0.010	7488081			
Dissolved Chloride (Cl-)	mg/L	1400	10	7492403	130	1.0	7488069			
Nitrate (N)	mg/L	<0.10	0.10	7488503	0.44	0.10	7488081			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488503	0.44	0.10	7488081			
Dissolved Bromide (Br-)	mg/L	<10	10	7492403	<1.0	1.0	7488069			
Dissolved Sulphate (SO4)	mg/L	950	10	7492403	88	1.0	7488069			

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



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG074			QFG075			QFG077		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		830760-03-01			830760-03-01			830760-03-01		
	UNITS	P11-I	RDL	QC Batch	P11-III	RDL	QC Batch	35-III	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	2200	1.0	7487018	100	1.0	7487018	2400	1.0	7487018
Inorganics										
Total Ammonia-N	mg/L	41	0.25	7488114	18	0.050	7488114	2.7	0.050	7488052
Conductivity	umho/cm	8300	1.0	7487966	2000	1.0	7487966	5300	1.0	7487966
Total Dissolved Solids	mg/L	5840	20	7488031	1110	10	7491227	3550	10	7491227
Fluoride (F-)	mg/L	1.2	0.10	7487946	1.7	0.10	7487946	0.39	0.10	7487946
Total Kjeldahl Nitrogen (TKN)	mg/L	43	2.0	7488117	21	2.0	7488117	3.1	0.10	7488057
Total Organic Carbon (TOC)	mg/L	5.9	0.40	7490538	42	0.40	7490538	5.2	0.40	7488048
Orthophosphate (P)	mg/L	<0.010	0.010	7487989	<0.010	0.010	7487989	0.020	0.010	7487989
pH	pH	7.61		7487963	9.42		7487963	7.70		7487963
Phenols-4AAP	mg/L	<0.0010	0.0010	7487930	0.61	0.020	7487770	<0.0010	0.0010	7487930
Alkalinity (Total as CaCO3)	mg/L	150	1.0	7487956	73	1.0	7487956	230	1.0	7487956
Nitrite (N)	mg/L	<0.010	0.010	7488503	<0.010	0.010	7488503	<0.010	0.010	7488503
Dissolved Chloride (Cl-)	mg/L	1700	10	7488069	340	5.0	7488069	980	10	7488069
Nitrate (N)	mg/L	<0.10	0.10	7488503	<0.10	0.10	7488503	<0.10	0.10	7488503
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488503	<0.10	0.10	7488503	<0.10	0.10	7488503
Dissolved Bromide (Br-)	mg/L	<10	10	7488069	<5.0	5.0	7488069	<10	10	7488069
Dissolved Sulphate (SO4)	mg/L	1600	10	7488069	300	5.0	7488069	1100	10	7488069
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG078			QFG078			QFG079		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		830760-03-01			830760-03-01			830760-03-01		
	UNITS	35-VI	RDL	QC Batch	35-VI Lab-Dup	RDL	QC Batch	35-V	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2600	1.0	7487018				1100	1.0	7487018
Inorganics										
Total Ammonia-N	mg/L	22	0.050	7488052				<0.050	0.050	7488052
Conductivity	umho/cm	11000	1.0	7488058				2800	1.0	7488058
Total Dissolved Solids	mg/L	6620	20	7491227				1900	10	7488031
Fluoride (F-)	mg/L	1.2	0.10	7488046				0.94	0.10	7488046
Total Kjeldahl Nitrogen (TKN)	mg/L	24	1.0	7488057				0.23	0.10	7488057
Total Organic Carbon (TOC)	mg/L	13	0.40	7488048				2.4	0.40	7488048
Orthophosphate (P)	mg/L	0.013	0.010	7488070				<0.010	0.010	7488070
pH	pH	8.28		7488060				7.80		7488060
Phenols-4AAP	mg/L	0.0032	0.0020	7487770	0.0035	0.0020	7487770	<0.0010	0.0010	7487930
Alkalinity (Total as CaCO3)	mg/L	130	1.0	7488054				280	1.0	7488054
Nitrite (N)	mg/L	<0.010	0.010	7488503				<0.010	0.010	7488503
Dissolved Chloride (Cl-)	mg/L	2300	20	7492403				450	5.0	7492403
Nitrate (N)	mg/L	<0.10	0.10	7488503				<0.10	0.10	7488503
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488503				<0.10	0.10	7488503
Dissolved Bromide (Br-)	mg/L	<20	20	7492403				<5.0	5.0	7492403
Dissolved Sulphate (SO4)	mg/L	1300	20	7492403				630	5.0	7492403

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



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG080			QFG082			QFG082		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		830760-03-01			830760-03-01			830760-03-01		
	UNITS	35-VII	RDL	QC Batch	31-I	RDL	QC Batch	31-I Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1400	1.0	7487018	22	1.0	7487018			
Inorganics										
Total Ammonia-N	mg/L	0.44	0.050	7488052	230	0.50	7488114			
Conductivity	umho/cm	2700	1.0	7488058	15000	1.0	7491981	15000	1.0	7491981
Total Dissolved Solids	mg/L	2050	10	7488031	7350	20	7491227			
Fluoride (F-)	mg/L	0.67	0.10	7488046	4.1	0.10	7491993	4.1	0.10	7491993
Total Kjeldahl Nitrogen (TKN)	mg/L	0.66	0.10	7488057	230	5.0	7488117			
Total Organic Carbon (TOC)	mg/L	4.1	0.40	7488048	41	0.40	7490538			
Orthophosphate (P)	mg/L	0.016	0.010	7488070	0.29	0.010	7488070			
pH	pH	7.80		7488060	9.75		7491975	9.74		7491975
Phenols-4AAP	mg/L	<0.0020 (1)	0.0020	7487770	1.5	0.020	7487770			
Alkalinity (Total as CaCO3)	mg/L	290	1.0	7488054	920	1.0	7491972	920	1.0	7491972
Nitrite (N)	mg/L	<0.010	0.010	7488509	0.017	0.010	7488509			
Dissolved Chloride (Cl-)	mg/L	260	5.0	7492403	4800	50	7492403			
Nitrate (N)	mg/L	0.23	0.10	7488509	<0.10	0.10	7488509			
Nitrate + Nitrite (N)	mg/L	0.23	0.10	7488509	<0.10	0.10	7488509			
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7492403	<20	20	7492403			
Dissolved Sulphate (SO4)	mg/L	830	5.0	7492403	40	20	7492403			

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 #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG083			QFG083			QFG084		
Sampling Date		2021/07/26			2021/07/26			2021/07/26		
COC Number		830760-03-01			830760-03-01			830760-03-01		
	UNITS	31-III	RDL	QC Batch	31-III Lab-Dup	RDL	QC Batch	2-IV	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	280	1.0	7487018				2100	1.0	7487018
Inorganics										
Total Ammonia-N	mg/L	12	0.050	7488114				0.77	0.050	7488052
Conductivity	umho/cm	3000	1.0	7487966				3600	1.0	7488058
Total Dissolved Solids	mg/L	1720	10	7491227	1710	10	7491227	2700	10	7491227
Fluoride (F-)	mg/L	2.0	0.10	7487946				0.40	0.10	7488046
Total Kjeldahl Nitrogen (TKN)	mg/L	20	1.0	7488117				1.1	0.10	7488057
Total Organic Carbon (TOC)	mg/L	25	0.40	7490538				2.1	0.40	7488048
Orthophosphate (P)	mg/L	<0.010	0.010	7487989				<0.010	0.010	7488070
pH	pH	7.99		7487963				7.59		7488060
Phenols-4AAP	mg/L	0.019	0.0050	7487770				<0.0010	0.0010	7487770
Alkalinity (Total as CaCO3)	mg/L	190	1.0	7487956				320	1.0	7488054
Nitrite (N)	mg/L	<0.010	0.010	7488081				<0.010	0.010	7488509
Dissolved Chloride (Cl-)	mg/L	570	5.0	7488069				430	5.0	7492403
Nitrate (N)	mg/L	<0.10	0.10	7488081				<0.10	0.10	7488509
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488081				<0.10	0.10	7488509
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7488069				<5.0	5.0	7492403
Dissolved Sulphate (SO4)	mg/L	330	5.0	7488069				1400	5.0	7492403

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



RESULTS OF ANALYSES OF WATER

BV Labs ID		QFG086		
Sampling Date		2021/07/26		
COC Number		819873-32-01		
	UNITS	4-III	RDL	QC Batch
Calculated Parameters				
Hardness (CaCO3)	mg/L	110	1.0	7487018
Inorganics				
Total Ammonia-N	mg/L	19	0.050	7488052
Conductivity	umho/cm	2000	1.0	7488058
Total Dissolved Solids	mg/L	1100	10	7488031
Fluoride (F-)	mg/L	1.8	0.10	7488046
Total Kjeldahl Nitrogen (TKN)	mg/L	21	1.0	7488057
Total Organic Carbon (TOC)	mg/L	42	0.40	7488048
Orthophosphate (P)	mg/L	<0.010	0.010	7488070
pH	pH	9.53		7488060
Phenols-4AAP	mg/L	0.61	0.020	7487770
Alkalinity (Total as CaCO3)	mg/L	80	1.0	7488054
Nitrite (N)	mg/L	<0.010	0.010	7488503
Dissolved Chloride (Cl-)	mg/L	320	5.0	7488654
Nitrate (N)	mg/L	<0.10	0.10	7488503
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7488503
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7488654
Dissolved Sulphate (SO4)	mg/L	290	5.0	7488654
RDL = Reportable Detection Limit QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFG050	QFG051		QFG052		QFG053		QFG055		
Sampling Date		2021/07/26	2021/07/26		2021/07/26		2021/07/26		2021/07/26		
COC Number		808571-19-01	808571-19-01		808571-19-01		808571-19-01		808571-19-01		
	UNITS	P10-I	P10-II	RDL	P10-III	RDL	P10-IV	RDL	P4-I	RDL	QC Batch
Metals											
Dissolved Aluminum (Al)	ug/L	<4.9	<4.9	4.9	<25	25	<4.9	4.9	<4.9	4.9	7488478
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<2.5	2.5	<0.50	0.50	<0.50	0.50	7488478
Dissolved Arsenic (As)	ug/L	2.3	4.0	1.0	<5.0	5.0	<1.0	1.0	2.5	1.0	7488478
Dissolved Barium (Ba)	ug/L	26	20	2.0	<10	10	8.6	2.0	26	2.0	7488478
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<2.0	2.0	<0.40	0.40	<0.40	0.40	7488478
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	7488478
Dissolved Boron (B)	ug/L	1300	1800	10	13000	50	1700	10	1200	10	7488478
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	<0.45	0.45	<0.090	0.090	<0.090	0.090	7488478
Dissolved Calcium (Ca)	ug/L	890000	850000	1000	630000	1000	400000	400	860000	1000	7488478
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<25	25	<5.0	5.0	<5.0	5.0	7488478
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	<2.5	2.5	<0.50	0.50	<0.50	0.50	7488478
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	<4.5	4.5	<0.90	0.90	<0.90	0.90	7488478
Dissolved Iron (Fe)	ug/L	<100	<100	100	<500	500	<100	100	<100	100	7488478
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	<2.5	2.5	<0.50	0.50	<0.50	0.50	7488478
Dissolved Lithium (Li)	ug/L	720	660	25	2700	50	140	5.0	410	5.0	7488478
Dissolved Magnesium (Mg)	ug/L	150000	110000	50	180000	250	80000	50	130000	50	7488478
Dissolved Manganese (Mn)	ug/L	100	110	2.0	64	10	49	2.0	79	2.0	7488478
Dissolved Molybdenum (Mo)	ug/L	<0.50	18	0.50	<2.5	2.5	<0.50	0.50	<0.50	0.50	7488478
Dissolved Nickel (Ni)	ug/L	1.1	4.5	1.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	7488478
Dissolved Phosphorus (P)	ug/L	<100	130	100	<500	500	<100	100	<100	100	7488478
Dissolved Potassium (K)	ug/L	78000	85000	200	40000	1000	35000	200	84000	200	7488478
Dissolved Selenium (Se)	ug/L	2.7	4.2	2.0	11	10	<2.0	2.0	2.8	2.0	7488478
Dissolved Silicon (Si)	ug/L	4300	3500	50	3500	250	2600	50	5200	50	7488478
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<0.45	0.45	<0.090	0.090	<0.090	0.090	7488478
Dissolved Sodium (Na)	ug/L	1500000	2300000	500	1000000	500	490000	100	1400000	500	7488478
Dissolved Strontium (Sr)	ug/L	13000	12000	1.0	11000	5.0	7400	1.0	11000	1.0	7488478
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	7488478
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	<0.25	0.25	<0.050	0.050	<0.050	0.050	7488478
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	7488478
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<25	25	<5.0	5.0	<5.0	5.0	7488478
Dissolved Tungsten (W)	ug/L	<1.0	5.7	1.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	7488478
Dissolved Uranium (U)	ug/L	<0.10	<0.10	0.10	<0.50	0.50	<0.10	0.10	0.10	0.10	7488478
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	<2.5	2.5	<0.50	0.50	<0.50	0.50	7488478
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	<25	25	<5.0	5.0	<5.0	5.0	7488478
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	7488478

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



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VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFG056	QFG056		QFG057		QFG059		
Sampling Date		2021/07/26	2021/07/26		2021/07/26		2021/07/26		
COC Number		808571-19-01	808571-19-01		808571-19-01		808571-19-01		
	UNITS	P4-II	P4-II Lab-Dup	RDL	P4-III	RDL	G24	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	4.9	<4.9	4.9	5.5	4.9	7488478
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7488478
Dissolved Arsenic (As)	ug/L	3.0	3.2	1.0	2.7	1.0	<1.0	1.0	7488478
Dissolved Barium (Ba)	ug/L	15	15	2.0	35	2.0	58	2.0	7488478
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7488478
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488478
Dissolved Boron (B)	ug/L	2300	2300	10	370	10	130	10	7488478
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	0.10	0.090	7488478
Dissolved Calcium (Ca)	ug/L	170000	170000	200	710000	1000	220000	200	7488478
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7488478
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	1.4	0.50	7488478
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	<0.90	0.90	<0.90	0.90	7488478
Dissolved Iron (Fe)	ug/L	<100	<100	100	<100	100	270	100	7488478
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7488478
Dissolved Lithium (Li)	ug/L	260	250	5.0	62	5.0	7.9	5.0	7488478
Dissolved Magnesium (Mg)	ug/L	22000	22000	50	81000	50	50000	50	7488478
Dissolved Manganese (Mn)	ug/L	6.5	6.4	2.0	76	2.0	73	2.0	7488478
Dissolved Molybdenum (Mo)	ug/L	43	43	0.50	<0.50	0.50	3.0	0.50	7488478
Dissolved Nickel (Ni)	ug/L	18	18	1.0	1.6	1.0	10	1.0	7488478
Dissolved Phosphorus (P)	ug/L	120	120	100	100	100	<100	100	7488478
Dissolved Potassium (K)	ug/L	140000	140000	200	48000	200	4200	200	7488478
Dissolved Selenium (Se)	ug/L	4.5	3.6	2.0	2.9	2.0	<2.0	2.0	7488478
Dissolved Silicon (Si)	ug/L	8000	8400	50	4900	50	5100	50	7488478
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7488478
Dissolved Sodium (Na)	ug/L	2500000	2400000	500	1300000	500	46000	100	7488478
Dissolved Strontium (Sr)	ug/L	2800	2700	1.0	8100	1.0	2300	1.0	7488478
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488478
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	<0.050	0.050	0.19	0.050	7488478
Dissolved Tin (Sn)	ug/L	19	18	1.0	<1.0	1.0	<1.0	1.0	7488478
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7488478
Dissolved Tungsten (W)	ug/L	14	13	1.0	<1.0	1.0	<1.0	1.0	7488478
Dissolved Uranium (U)	ug/L	<0.10	<0.10	0.10	<0.10	0.10	5.3	0.10	7488478
Dissolved Vanadium (V)	ug/L	2.1	2.2	0.50	<0.50	0.50	<0.50	0.50	7488478
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	950	5.0	7488478
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488478
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFG060			QFO062		QFO063		
Sampling Date		2021/07/26			2021/07/26		2021/07/26		
COC Number		808571-19-01			834487-03-01		834487-03-01		
	UNITS	4-IV	RDL	QC Batch	40-II	RDL	40-III	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	5.1	4.9	7488478	6.8	4.9	11	4.9	7493051
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7488478	<0.50	0.50	<0.50	0.50	7493051
Dissolved Arsenic (As)	ug/L	3.1	1.0	7488478	<1.0	1.0	<1.0	1.0	7493051
Dissolved Barium (Ba)	ug/L	15	2.0	7488478	25	2.0	23	2.0	7493051
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7488478	<0.40	0.40	<0.40	0.40	7493051
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7488478	<1.0	1.0	<1.0	1.0	7493051
Dissolved Boron (B)	ug/L	2400	10	7488478	740	10	650	10	7493051
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7488478	<0.090	0.090	<0.090	0.090	7493051
Dissolved Calcium (Ca)	ug/L	180000	200	7488478	390000	400	370000	200	7493051
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7488478	<5.0	5.0	<5.0	5.0	7493051
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7488478	<0.50	0.50	<0.50	0.50	7493051
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7488478	<0.90	0.90	<0.90	0.90	7493051
Dissolved Iron (Fe)	ug/L	<100	100	7488478	850	100	820	100	7493051
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7488478	<0.50	0.50	<0.50	0.50	7493051
Dissolved Lithium (Li)	ug/L	260	5.0	7488478	110	5.0	100	5.0	7493051
Dissolved Magnesium (Mg)	ug/L	23000	50	7488478	97000	50	96000	50	7493051
Dissolved Manganese (Mn)	ug/L	6.8	2.0	7488478	150	2.0	140	2.0	7493051
Dissolved Molybdenum (Mo)	ug/L	31	0.50	7488478	1.2	0.50	1.3	0.50	7493051
Dissolved Nickel (Ni)	ug/L	18	1.0	7488478	1.3	1.0	<1.0	1.0	7493051
Dissolved Phosphorus (P)	ug/L	120	100	7488478	<100	100	<100	100	7493051
Dissolved Potassium (K)	ug/L	140000	200	7488478	24000	200	22000	200	7493051
Dissolved Selenium (Se)	ug/L	3.7	2.0	7488478	<2.0	2.0	<2.0	2.0	7493051
Dissolved Silicon (Si)	ug/L	8700	50	7488478	5800	50	5800	50	7493051
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7488478	<0.090	0.090	<0.090	0.090	7493051
Dissolved Sodium (Na)	ug/L	2500000	500	7488478	350000	100	330000	100	7493051
Dissolved Strontium (Sr)	ug/L	2800	1.0	7488478	5000	1.0	4600	1.0	7493051
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7488478	<1.0	1.0	<1.0	1.0	7493051
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7488478	<0.050	0.050	<0.050	0.050	7493051
Dissolved Tin (Sn)	ug/L	14	1.0	7488478	<1.0	1.0	<1.0	1.0	7493051
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7488478	<5.0	5.0	<5.0	5.0	7493051
Dissolved Tungsten (W)	ug/L	13	1.0	7488478	<1.0	1.0	<1.0	1.0	7493051
Dissolved Uranium (U)	ug/L	<0.10	0.10	7488478	0.82	0.10	0.79	0.10	7493051
Dissolved Vanadium (V)	ug/L	2.3	0.50	7488478	<0.50	0.50	<0.50	0.50	7493051
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7488478	<5.0	5.0	<5.0	5.0	7493051
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7488478	<1.0	1.0	<1.0	1.0	7493051
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFG061		QFG062		QFG064	QFG065		
Sampling Date		2021/07/26		2021/07/26		2021/07/26	2021/07/26		
COC Number		819873-31-01		819873-31-01		819873-31-01	819873-31-01		
	UNITS	29-I	RDL	29-II	RDL	29-IV	12-II	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	12	4.9	<4.9	<4.9	4.9	7488476
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	2.5	0.50	<0.50	<0.50	0.50	7488476
Dissolved Arsenic (As)	ug/L	<1.0	1.0	1.1	1.0	1.7	<1.0	1.0	7488476
Dissolved Barium (Ba)	ug/L	21	2.0	62	2.0	25	21	2.0	7488476
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	<0.40	0.40	7488476
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7488476
Dissolved Boron (B)	ug/L	1000	10	720	10	830	1000	10	7488476
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	<0.090	0.090	7488476
Dissolved Calcium (Ca)	ug/L	640000	1000	280000	200	630000	640000	1000	7488476
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	<5.0	5.0	7488476
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	1.4	0.50	<0.50	<0.50	0.50	7488476
Dissolved Copper (Cu)	ug/L	<0.90	0.90	1.8	0.90	<0.90	<0.90	0.90	7488476
Dissolved Iron (Fe)	ug/L	250	100	250	100	<100	260	100	7488476
Dissolved Lead (Pb)	ug/L	<0.50	0.50	1.7	0.50	0.82	<0.50	0.50	7488476
Dissolved Lithium (Li)	ug/L	82	5.0	53	5.0	78	81	5.0	7488476
Dissolved Magnesium (Mg)	ug/L	79000	50	84000	50	88000	79000	50	7488476
Dissolved Manganese (Mn)	ug/L	130	2.0	780	2.0	260	130	2.0	7488476
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	27	0.50	15	<0.50	0.50	7488476
Dissolved Nickel (Ni)	ug/L	1.6	1.0	8.6	1.0	1.6	1.9	1.0	7488476
Dissolved Phosphorus (P)	ug/L	<100	100	<100	100	<100	<100	100	7488476
Dissolved Potassium (K)	ug/L	37000	200	33000	200	37000	37000	200	7488476
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	2.0	<2.0	<2.0	2.0	7488476
Dissolved Silicon (Si)	ug/L	5100	50	4400	50	6300	5100	50	7488476
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	<0.090	0.090	7488476
Dissolved Sodium (Na)	ug/L	440000	100	300000	100	540000	450000	100	7488476
Dissolved Strontium (Sr)	ug/L	5000	1.0	2900	1.0	5500	5000	1.0	7488476
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7488476
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	0.18	0.050	<0.050	<0.050	0.050	7488476
Dissolved Tin (Sn)	ug/L	<1.0	1.0	1.3	1.0	<1.0	<1.0	1.0	7488476
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	<5.0	5.0	7488476
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7488476
Dissolved Uranium (U)	ug/L	<0.10	0.10	3.4	0.10	1.8	<0.10	0.10	7488476
Dissolved Vanadium (V)	ug/L	<0.50	0.50	1.9	0.50	<0.50	<0.50	0.50	7488476
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	15	5.0	<5.0	<5.0	5.0	7488476
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	<1.0	1.0	7488476
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



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VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFG067	QFG068		QFG069		QFG070		
Sampling Date		2021/07/26	2021/07/26		2021/07/26		2021/07/26		
COC Number		819873-31-01	819873-31-01		819873-31-01		819873-31-01		
	UNITS	56-I	11-II	RDL	68-I	RDL	68-II	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<4.9	<4.9	4.9	<4.9	4.9	<4.9	4.9	7488476
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Barium (Ba)	ug/L	37	37	2.0	21	2.0	25	2.0	7488476
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7488476
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Boron (B)	ug/L	350	350	10	980	10	810	10	7488476
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7488476
Dissolved Calcium (Ca)	ug/L	280000	290000	400	780000	1000	600000	1000	7488476
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7488476
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	0.99	0.50	7488476
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	<0.90	0.90	0.99	0.90	7488476
Dissolved Iron (Fe)	ug/L	630	640	100	<100	100	340	100	7488476
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Lithium (Li)	ug/L	69	70	5.0	200	5.0	89	5.0	7488476
Dissolved Magnesium (Mg)	ug/L	110000	120000	50	100000	50	160000	50	7488476
Dissolved Manganese (Mn)	ug/L	69	69	2.0	78	2.0	450	2.0	7488476
Dissolved Molybdenum (Mo)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Nickel (Ni)	ug/L	1.1	1.1	1.0	<1.0	1.0	3.0	1.0	7488476
Dissolved Phosphorus (P)	ug/L	<100	<100	100	<100	100	<100	100	7488476
Dissolved Potassium (K)	ug/L	15000	15000	200	44000	200	15000	200	7488476
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	<2.0	2.0	<2.0	2.0	7488476
Dissolved Silicon (Si)	ug/L	3900	3900	50	4400	50	3800	50	7488476
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7488476
Dissolved Sodium (Na)	ug/L	200000	210000	100	820000	500	110000	100	7488476
Dissolved Strontium (Sr)	ug/L	6000	5800	1.0	10000	1.0	6800	1.0	7488476
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	<0.050	0.050	<0.050	0.050	7488476
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7488476
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Uranium (U)	ug/L	<0.10	<0.10	0.10	<0.10	0.10	0.75	0.10	7488476
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7488476
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488476
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



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VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFG072		QFG073	QFG073		QFG074		
Sampling Date		2021/07/26		2021/07/26	2021/07/26		2021/07/26		
COC Number		819873-31-01		830760-03-01	830760-03-01		830760-03-01		
	UNITS	68-III	RDL	68-IV	68-IV Lab-Dup	RDL	P11-I	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	8.0	4.9	<4.9	<4.9	4.9	<4.9	4.9	7488476
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Arsenic (As)	ug/L	2.3	1.0	<1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Barium (Ba)	ug/L	5.6	2.0	68	66	2.0	21	2.0	7488476
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	<0.40	0.40	<0.40	0.40	7488476
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Boron (B)	ug/L	680	10	410	400	10	1200	10	7488476
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	<0.090	0.090	<0.090	0.090	7488476
Dissolved Calcium (Ca)	ug/L	85000	200	86000	85000	400	730000	1000	7488476
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	<5.0	5.0	7488476
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	<0.90	0.90	<0.90	0.90	7488476
Dissolved Iron (Fe)	ug/L	<100	100	<100	<100	100	<100	100	7488476
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Lithium (Li)	ug/L	28	5.0	19	18	5.0	300	5.0	7488476
Dissolved Magnesium (Mg)	ug/L	3000	50	40000	40000	50	97000	50	7488476
Dissolved Manganese (Mn)	ug/L	5.8	2.0	11	11	2.0	68	2.0	7488476
Dissolved Molybdenum (Mo)	ug/L	9.4	0.50	<0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Nickel (Ni)	ug/L	4.1	1.0	<1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Phosphorus (P)	ug/L	<100	100	<100	<100	100	<100	100	7488476
Dissolved Potassium (K)	ug/L	48000	200	7500	7400	200	70000	200	7488476
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	<2.0	2.0	<2.0	2.0	7488476
Dissolved Silicon (Si)	ug/L	11000	50	2900	2900	50	5200	50	7488476
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	<0.090	0.090	<0.090	0.090	7488476
Dissolved Sodium (Na)	ug/L	890000	500	52000	53000	100	1000000	500	7488476
Dissolved Strontium (Sr)	ug/L	580	1.0	5200	5100	1.0	9000	1.0	7488476
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	<0.050	0.050	<0.050	0.050	7488476
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	<5.0	5.0	7488476
Dissolved Tungsten (W)	ug/L	3.7	1.0	<1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Uranium (U)	ug/L	<0.10	0.10	0.21	0.20	0.10	<0.10	0.10	7488476
Dissolved Vanadium (V)	ug/L	0.57	0.50	<0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	<5.0	5.0	7488476
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7488476
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFG075		QFG077		QFG078		QFG079		
Sampling Date		2021/07/26		2021/07/26		2021/07/26		2021/07/26		
COC Number		830760-03-01		830760-03-01		830760-03-01		830760-03-01		
	UNITS	P11-III	RDL	35-III	RDL	35-VI	RDL	35-V	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	7.0	4.9	<4.9	4.9	<4.9	4.9	7488476
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Arsenic (As)	ug/L	3.3	1.0	<1.0	1.0	11	1.0	<1.0	1.0	7488476
Dissolved Barium (Ba)	ug/L	20	2.0	110	2.0	36	2.0	80	2.0	7488476
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7488476
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Boron (B)	ug/L	170	10	410	10	630	10	77	10	7488476
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	0.37	0.090	7488476
Dissolved Calcium (Ca)	ug/L	41000	200	820000	1000	880000	1000	330000	200	7488476
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7488476
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	1.2	0.50	7488476
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	0.90	<0.90	0.90	1.9	0.90	7488476
Dissolved Iron (Fe)	ug/L	<100	100	2800	100	<100	100	<100	100	7488476
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Lithium (Li)	ug/L	20	5.0	350	5.0	130	5.0	15	5.0	7488476
Dissolved Magnesium (Mg)	ug/L	680	50	73000	50	91000	50	58000	50	7488476
Dissolved Manganese (Mn)	ug/L	<2.0	2.0	100	2.0	76	2.0	64	2.0	7488476
Dissolved Molybdenum (Mo)	ug/L	34	0.50	<0.50	0.50	<0.50	0.50	3.0	0.50	7488476
Dissolved Nickel (Ni)	ug/L	7.6	1.0	<1.0	1.0	1.6	1.0	17	1.0	7488476
Dissolved Phosphorus (P)	ug/L	<100	100	640	100	130	100	<100	100	7488476
Dissolved Potassium (K)	ug/L	67000	200	21000	200	74000	200	4600	200	7488476
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	2.0	2.0	2.0	<2.0	2.0	7488476
Dissolved Silicon (Si)	ug/L	9800	50	5200	50	7300	50	4600	50	7488476
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7488476
Dissolved Sodium (Na)	ug/L	330000	100	340000	100	1500000	500	240000	100	7488476
Dissolved Strontium (Sr)	ug/L	870	1.0	5200	1.0	9500	1.0	2600	1.0	7488476
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	<0.050	0.050	0.70	0.050	7488476
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7488476
Dissolved Tungsten (W)	ug/L	7.9	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Uranium (U)	ug/L	<0.10	0.10	<0.10	0.10	<0.10	0.10	6.1	0.10	7488476
Dissolved Vanadium (V)	ug/L	0.74	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7488476
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	720	5.0	7488476
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7488476
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFG080		QFG082		QFG083		QFG084		
Sampling Date		2021/07/26		2021/07/26		2021/07/26		2021/07/26		
COC Number		830760-03-01		830760-03-01		830760-03-01		830760-03-01		
	UNITS	35-VII	RDL	31-I	RDL	31-III	RDL	2-IV	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	23	4.9	<25	25	<4.9	4.9	<4.9	4.9	7488476
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	0.50	<0.50	0.50	7488476
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Barium (Ba)	ug/L	110	2.0	15	10	16	2.0	24	2.0	7488476
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<2.0	2.0	<0.40	0.40	<0.40	0.40	7488476
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Boron (B)	ug/L	340	10	620	50	670	10	840	10	7488476
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.45	0.45	<0.090	0.090	<0.090	0.090	7488476
Dissolved Calcium (Ca)	ug/L	470000	200	5700	1000	71000	200	590000	1000	7488476
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<25	25	<5.0	5.0	<5.0	5.0	7488476
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	0.50	1.0	0.50	7488476
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<4.5	4.5	<0.90	0.90	<0.90	0.90	7488476
Dissolved Iron (Fe)	ug/L	1900	100	<500	500	<100	100	340	100	7488476
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	0.50	<0.50	0.50	7488476
Dissolved Lithium (Li)	ug/L	37	5.0	25	25	42	5.0	89	5.0	7488476
Dissolved Magnesium (Mg)	ug/L	58000	50	2000	250	25000	50	160000	50	7488476
Dissolved Manganese (Mn)	ug/L	140	2.0	<10	10	9.4	2.0	460	2.0	7488476
Dissolved Molybdenum (Mo)	ug/L	1.6	0.50	98	2.5	1.4	0.50	<0.50	0.50	7488476
Dissolved Nickel (Ni)	ug/L	3.0	1.0	27	5.0	1.5	1.0	3.1	1.0	7488476
Dissolved Phosphorus (P)	ug/L	170	100	730	500	120	100	<100	100	7488476
Dissolved Potassium (K)	ug/L	8600	200	180000	1000	66000	200	15000	200	7488476
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<10	10	<2.0	2.0	<2.0	2.0	7488476
Dissolved Silicon (Si)	ug/L	5500	50	12000	250	13000	50	3700	50	7488476
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.45	0.45	<0.090	0.090	<0.090	0.090	7488476
Dissolved Sodium (Na)	ug/L	200000	100	3000000	1000	500000	100	110000	100	7488476
Dissolved Strontium (Sr)	ug/L	2900	1.0	500	5.0	3100	1.0	7000	1.0	7488476
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.25	0.25	<0.050	0.050	<0.050	0.050	7488476
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	7488476
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<25	25	<5.0	5.0	<5.0	5.0	7488476
Dissolved Tungsten (W)	ug/L	<1.0	1.0	16	5.0	1.1	1.0	<1.0	1.0	7488476
Dissolved Uranium (U)	ug/L	3.6	0.10	<0.50	0.50	<0.10	0.10	0.78	0.10	7488476
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<2.5	2.5	<0.50	0.50	<0.50	0.50	7488476
Dissolved Zinc (Zn)	ug/L	7.9	5.0	<25	25	<5.0	5.0	<5.0	5.0	7488476
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<5.0	5.0	<1.0	1.0	<1.0	1.0	7488476
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFG086		
Sampling Date		2021/07/26		
COC Number		819873-32-01		
	UNITS	4-III	RDL	QC Batch
Metals				
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	7488476
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7488476
Dissolved Arsenic (As)	ug/L	3.4	1.0	7488476
Dissolved Barium (Ba)	ug/L	20	2.0	7488476
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7488476
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7488476
Dissolved Boron (B)	ug/L	180	10	7488476
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7488476
Dissolved Calcium (Ca)	ug/L	43000	200	7488476
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7488476
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7488476
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7488476
Dissolved Iron (Fe)	ug/L	<100	100	7488476
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7488476
Dissolved Lithium (Li)	ug/L	21	5.0	7488476
Dissolved Magnesium (Mg)	ug/L	680	50	7488476
Dissolved Manganese (Mn)	ug/L	<2.0	2.0	7488476
Dissolved Molybdenum (Mo)	ug/L	34	0.50	7488476
Dissolved Nickel (Ni)	ug/L	7.7	1.0	7488476
Dissolved Phosphorus (P)	ug/L	<100	100	7488476
Dissolved Potassium (K)	ug/L	67000	200	7488476
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7488476
Dissolved Silicon (Si)	ug/L	10000	50	7488476
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7488476
Dissolved Sodium (Na)	ug/L	330000	100	7488476
Dissolved Strontium (Sr)	ug/L	840	1.0	7488476
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7488476
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7488476
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7488476
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7488476
Dissolved Tungsten (W)	ug/L	8.2	1.0	7488476
Dissolved Uranium (U)	ug/L	<0.10	0.10	7488476
Dissolved Vanadium (V)	ug/L	0.76	0.50	7488476
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7488476
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7488476
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG050
Sample ID: P10-I
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/08/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488478	N/A	2021/08/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488114	N/A	2021/07/30	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487930	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488117	2021/07/28	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7490538	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFG051
Sample ID: P10-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/08/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488478	N/A	2021/08/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488114	N/A	2021/07/30	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/30	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488117	2021/07/28	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7490538	N/A	2021/07/29	Nimarta Singh

BV Labs ID: QFG052
Sample ID: P10-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/08/03	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG052
Sample ID: P10-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7488478	N/A	2021/08/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/30	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG053
Sample ID: P10-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/08/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488478	N/A	2021/07/30	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488081	N/A	2021/07/28	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG053 Dup
Sample ID: P10-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai

BV Labs ID: QFG055
Sample ID: P4-I
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG055
Sample ID: P4-I
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/08/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488478	N/A	2021/08/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG056
Sample ID: P4-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/08/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488478	N/A	2021/08/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488081	N/A	2021/07/28	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487930	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG056 Dup
Sample ID: P4-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7488478	N/A	2021/08/03	Prempal Bhatti

BV Labs ID: QFG057
Sample ID: P4-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG057
Sample ID: P4-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/08/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488478	N/A	2021/08/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487930	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491227	2021/07/29	2021/07/30	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG059
Sample ID: G24
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/29	Surinder Rai
Anions	IC	7488654	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7488058	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7488046	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/08/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488478	N/A	2021/08/03	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488509	N/A	2021/07/29	Chandra Nandlal
pH	AT	7488060	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487930	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491227	2021/07/29	2021/07/30	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG060
Sample ID: 4-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/29	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7488058	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7488046	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/08/03	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488478	N/A	2021/08/03	Prempal Bhatti



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG060
Sample ID: 4-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7488060	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487930	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG061
Sample ID: 29-I
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/28	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7488058	N/A	2021/07/28	Surinder Rai
Fluoride	ISE	7488046	2021/07/28	2021/07/28	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7488060	2021/07/28	2021/07/28	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG061 Dup
Sample ID: 29-I
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/28	Surinder Rai
Conductivity	AT	7488058	N/A	2021/07/28	Surinder Rai
Fluoride	ISE	7488046	2021/07/28	2021/07/28	Surinder Rai
pH	AT	7488060	2021/07/28	2021/07/28	Surinder Rai

BV Labs ID: QFG062
Sample ID: 29-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/28	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG062
Sample ID: 29-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7488654	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7488058	N/A	2021/07/28	Surinder Rai
Fluoride	ISE	7488046	2021/07/28	2021/07/28	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7488060	2021/07/28	2021/07/28	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/28	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG062 Dup
Sample ID: 29-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7488654	N/A	2021/07/29	Fari Dehdezi
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal

BV Labs ID: QFG064
Sample ID: 29-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491227	2021/07/29	2021/07/30	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione



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VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG064 Dup
Sample ID: 29-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG065
Sample ID: 12-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG067
Sample ID: 56-I
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488081	N/A	2021/07/28	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione



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BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG068
Sample ID: 11-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488114	N/A	2021/07/30	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488117	2021/07/28	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7490538	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFG069
Sample ID: 68-I
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/28	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7488058	N/A	2021/07/28	Surinder Rai
Fluoride	ISE	7488046	2021/07/28	2021/07/28	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488114	N/A	2021/07/30	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7488060	2021/07/28	2021/07/28	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495611	2021/07/31	2021/08/03	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488117	2021/07/28	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7490538	N/A	2021/07/29	Nimarta Singh

BV Labs ID: QFG070
Sample ID: 68-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/07/30	Automated Statchk



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BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG070
Sample ID: 68-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/30	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487930	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG070 Dup
Sample ID: 68-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7487930	N/A	2021/07/28	Deonarine Ramnarine

BV Labs ID: QFG072
Sample ID: 68-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/29	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7488058	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7488046	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7488060	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487930	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG073
Sample ID: 68-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai



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BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG073
Sample ID: 68-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7485747	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488114	N/A	2021/07/30	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488081	N/A	2021/07/28	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488117	2021/07/28	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7490538	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFG073 Dup
Sample ID: 68-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai

BV Labs ID: QFG074
Sample ID: P11-I
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7487018	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488114	N/A	2021/07/30	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487930	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488117	2021/07/28	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7490538	N/A	2021/07/30	Nimarta Singh



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BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG075
Sample ID: P11-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7487018	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488114	N/A	2021/07/30	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491227	2021/07/29	2021/07/30	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7488117	2021/07/28	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7490538	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFG077
Sample ID: 35-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7487018	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487930	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491227	2021/07/29	2021/07/30	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/28	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG078
Sample ID: 35-VI
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/29	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7488058	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7488046	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7487018	N/A	2021/07/30	Automated Statchk



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VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG078
Sample ID: 35-VI
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7488060	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491227	2021/07/29	2021/07/30	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG078 Dup
Sample ID: 35-VI
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine

BV Labs ID: QFG079
Sample ID: 35-V
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/29	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7488058	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7488046	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7487018	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7488060	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487930	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG080
Sample ID: 35-VII
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/29	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7488058	N/A	2021/07/29	Surinder Rai



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG080
Sample ID: 35-VII
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Fluoride	ISE	7488046	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7487018	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488509	N/A	2021/07/29	Chandra Nandlal
pH	AT	7488060	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/28	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFG082
Sample ID: 31-I
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7491972	N/A	2021/07/29	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7491981	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7491993	2021/07/29	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7487018	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/30	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488114	N/A	2021/07/30	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488509	N/A	2021/07/29	Chandra Nandlal
pH	AT	7491975	2021/07/29	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491227	2021/07/29	2021/07/30	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7488117	2021/07/28	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7490538	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFG082 Dup
Sample ID: 31-I
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7491972	N/A	2021/07/29	Surinder Rai
Conductivity	AT	7491981	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7491993	2021/07/29	2021/07/29	Surinder Rai
pH	AT	7491975	2021/07/29	2021/07/29	Surinder Rai



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VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG083
Sample ID: 31-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7487956	N/A	2021/07/29	Surinder Rai
Anions	IC	7488069	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7487966	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7487946	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7487018	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488114	N/A	2021/07/30	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488081	N/A	2021/07/28	Chandra Nandlal
pH	AT	7487963	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7487989	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491227	2021/07/29	2021/07/30	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7488117	2021/07/28	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7490538	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFG083 Dup
Sample ID: 31-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7491227	2021/07/29	2021/07/30	Shaneil Hall

BV Labs ID: QFG084
Sample ID: 2-IV
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/29	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7488058	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7488046	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7487018	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488509	N/A	2021/07/29	Chandra Nandlal
pH	AT	7488060	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491227	2021/07/29	2021/07/30	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/28	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione



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VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFG086
Sample ID: 4-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7488054	N/A	2021/07/29	Surinder Rai
Anions	IC	7488654	N/A	2021/07/29	Fari Dehdezi
Conductivity	AT	7488058	N/A	2021/07/29	Surinder Rai
Fluoride	ISE	7488046	2021/07/28	2021/07/29	Surinder Rai
Hardness (calculated as CaCO3)		7487018	N/A	2021/07/30	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7488476	N/A	2021/07/29	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7488052	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7488503	N/A	2021/07/29	Chandra Nandlal
pH	AT	7488060	2021/07/28	2021/07/29	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7487770	N/A	2021/07/28	Deonarine Ramnarine
Orthophosphate	KONE	7488070	N/A	2021/08/03	Avneet Kour Sudan
Total Dissolved Solids	BAL	7488031	2021/07/29	2021/07/30	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7488057	2021/07/28	2021/07/29	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7488048	N/A	2021/07/29	Julianna Castiglione

BV Labs ID: QFO062
Sample ID: 40-II
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493814	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493818	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493787	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493792	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO063
Sample ID: 40-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk



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VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO063
Sample ID: 40-III
Matrix: Water

Collected: 2021/07/26
Shipped:
Received: 2021/07/27

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7491179	N/A	2021/07/29	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7491173	N/A	2021/07/30	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh



GENERAL COMMENTS

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

Package 1	3.3°C
Package 2	1.0°C
Package 3	3.0°C
Package 4	3.7°C

Revised Report (2021/08/25): For one of the samples, the name has been changed from 35-IV to 35-VI as per client's request.

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

Sample QFG052 [P10-III] : Metals Analysis: Due to the sample matrix, the sample required dilution. Detection limits were adjusted accordingly.

Sample QFG082 [31-I] : Metals Analysis: Due to the sample matrix, the sample required dilution. Detection limits were 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 #: C1L0576
Report Date: 2021/08/25

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
7487770	Phenols-4AAP	2021/07/28	102	80 - 120	103	80 - 120	<0.0010	mg/L	9.0	20		
7487930	Phenols-4AAP	2021/07/28	100	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20		
7487946	Fluoride (F-)	2021/07/29	106	80 - 120	102	80 - 120	<0.10	mg/L	0.91	20		
7487956	Alkalinity (Total as CaCO3)	2021/07/29			97	85 - 115	<1.0	mg/L	0.59	20		
7487963	pH	2021/07/29			102	98 - 103			0.69	N/A		
7487966	Conductivity	2021/07/29			100	85 - 115	<1.0	umho/cm	0.30	25		
7487989	Orthophosphate (P)	2021/08/03	113	75 - 125	99	80 - 120	<0.010	mg/L	NC	25		
7488031	Total Dissolved Solids	2021/07/30					<10	mg/L	2.2	25	98	90 - 110
7488046	Fluoride (F-)	2021/07/28	107	80 - 120	109	80 - 120	<0.10	mg/L	0.46	20		
7488048	Total Organic Carbon (TOC)	2021/07/29	96	80 - 120	97	80 - 120	<0.40	mg/L	0.99	20		
7488052	Total Ammonia-N	2021/08/03	79	75 - 125	99	80 - 120	<0.050	mg/L	0.23	20		
7488054	Alkalinity (Total as CaCO3)	2021/07/28			96	85 - 115	<1.0	mg/L	0.33	20		
7488057	Total Kjeldahl Nitrogen (TKN)	2021/07/29	NC	80 - 120	102	80 - 120	<0.10	mg/L	2.0	20	97	80 - 120
7488058	Conductivity	2021/07/28			101	85 - 115	<1.0	umho/cm	0.21	25		
7488060	pH	2021/07/28			101	98 - 103			0.59	N/A		
7488069	Dissolved Bromide (Br-)	2021/07/29	102	80 - 120	100	80 - 120	<1.0	mg/L	NC	20		
7488069	Dissolved Chloride (Cl-)	2021/07/29	NC	80 - 120	97	70 - 130	<1.0	mg/L	0.57	20		
7488069	Dissolved Sulphate (SO4)	2021/07/29	NC	80 - 120	98	80 - 120	<1.0	mg/L	1.8	20		
7488070	Orthophosphate (P)	2021/08/03	118	75 - 125	101	80 - 120	<0.010	mg/L	2.2	25		
7488081	Nitrate (N)	2021/07/28	96	80 - 120	97	80 - 120	<0.10	mg/L	NC	20		
7488081	Nitrite (N)	2021/07/28	107	80 - 120	108	80 - 120	<0.010	mg/L	NC	20		
7488114	Total Ammonia-N	2021/07/30	102	75 - 125	101	80 - 120	<0.050	mg/L	2.1	20		
7488117	Total Kjeldahl Nitrogen (TKN)	2021/07/29	106	80 - 120	106	80 - 120	<0.10	mg/L	2.2	20	109	80 - 120
7488476	Dissolved Aluminum (Al)	2021/07/29	101	80 - 120	102	80 - 120	<4.9	ug/L	NC	20		
7488476	Dissolved Antimony (Sb)	2021/07/29	103	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7488476	Dissolved Arsenic (As)	2021/07/29	99	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7488476	Dissolved Barium (Ba)	2021/07/29	99	80 - 120	98	80 - 120	<2.0	ug/L	2.7	20		
7488476	Dissolved Beryllium (Be)	2021/07/29	107	80 - 120	100	80 - 120	<0.40	ug/L	NC	20		
7488476	Dissolved Bismuth (Bi)	2021/07/29	100	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

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
7488476	Dissolved Boron (B)	2021/07/29	106	80 - 120	93	80 - 120	<10	ug/L	3.1	20		
7488476	Dissolved Cadmium (Cd)	2021/07/29	100	80 - 120	99	80 - 120	<0.090	ug/L	NC	20		
7488476	Dissolved Calcium (Ca)	2021/07/29	NC	80 - 120	99	80 - 120	<200	ug/L	0.44	20		
7488476	Dissolved Chromium (Cr)	2021/07/29	98	80 - 120	96	80 - 120	<5.0	ug/L	NC	20		
7488476	Dissolved Cobalt (Co)	2021/07/29	100	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7488476	Dissolved Copper (Cu)	2021/07/29	102	80 - 120	102	80 - 120	<0.90	ug/L	NC	20		
7488476	Dissolved Iron (Fe)	2021/07/29	98	80 - 120	97	80 - 120	<100	ug/L	NC	20		
7488476	Dissolved Lead (Pb)	2021/07/29	98	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7488476	Dissolved Lithium (Li)	2021/07/29	108	80 - 120	98	80 - 120	<5.0	ug/L	5.3	20		
7488476	Dissolved Magnesium (Mg)	2021/07/29	NC	80 - 120	99	80 - 120	<50	ug/L	1.3	20		
7488476	Dissolved Manganese (Mn)	2021/07/29	98	80 - 120	97	80 - 120	<2.0	ug/L	0.39	20		
7488476	Dissolved Molybdenum (Mo)	2021/07/29	102	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7488476	Dissolved Nickel (Ni)	2021/07/29	96	80 - 120	97	80 - 120	<1.0	ug/L	NC	20		
7488476	Dissolved Phosphorus (P)	2021/07/29	109	80 - 120	112	80 - 120	<100	ug/L	NC	20		
7488476	Dissolved Potassium (K)	2021/07/29	101	80 - 120	101	80 - 120	<200	ug/L	1.1	20		
7488476	Dissolved Selenium (Se)	2021/07/29	98	80 - 120	99	80 - 120	<2.0	ug/L	NC	20		
7488476	Dissolved Silicon (Si)	2021/07/29	103	80 - 120	103	80 - 120	<50	ug/L	0.34	20		
7488476	Dissolved Silver (Ag)	2021/07/29	95	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		
7488476	Dissolved Sodium (Na)	2021/07/29	NC	80 - 120	99	80 - 120	<100	ug/L	0.83	20		
7488476	Dissolved Strontium (Sr)	2021/07/29	NC	80 - 120	95	80 - 120	<1.0	ug/L	1.1	20		
7488476	Dissolved Tellurium (Te)	2021/07/29	101	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7488476	Dissolved Thallium (Tl)	2021/07/29	98	80 - 120	102	80 - 120	<0.050	ug/L	NC	20		
7488476	Dissolved Tin (Sn)	2021/07/29	101	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7488476	Dissolved Titanium (Ti)	2021/07/29	97	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7488476	Dissolved Tungsten (W)	2021/07/29	99	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7488476	Dissolved Uranium (U)	2021/07/29	104	80 - 120	101	80 - 120	<0.10	ug/L	7.3	20		
7488476	Dissolved Vanadium (V)	2021/07/29	100	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7488476	Dissolved Zinc (Zn)	2021/07/29	97	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7488476	Dissolved Zirconium (Zr)	2021/07/29	106	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7488478	Dissolved Aluminum (Al)	2021/08/03	108	80 - 120	99	80 - 120	<4.9	ug/L	0.082	20		
7488478	Dissolved Antimony (Sb)	2021/08/03	104	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		



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VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

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
7488478	Dissolved Arsenic (As)	2021/08/03	102	80 - 120	98	80 - 120	<1.0	ug/L	5.4	20		
7488478	Dissolved Barium (Ba)	2021/08/03	103	80 - 120	95	80 - 120	<2.0	ug/L	0.33	20		
7488478	Dissolved Beryllium (Be)	2021/08/03	103	80 - 120	102	80 - 120	<0.40	ug/L	NC	20		
7488478	Dissolved Bismuth (Bi)	2021/08/03	79 (1)	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7488478	Dissolved Boron (B)	2021/08/03	NC	80 - 120	94	80 - 120	<10	ug/L	0.67	20		
7488478	Dissolved Cadmium (Cd)	2021/08/03	96	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7488478	Dissolved Calcium (Ca)	2021/08/03	NC	80 - 120	99	80 - 120	<200	ug/L	2.2	20		
7488478	Dissolved Chromium (Cr)	2021/08/03	99	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7488478	Dissolved Cobalt (Co)	2021/08/03	99	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7488478	Dissolved Copper (Cu)	2021/08/03	92	80 - 120	98	80 - 120	<0.90	ug/L	NC	20		
7488478	Dissolved Iron (Fe)	2021/08/03	99	80 - 120	99	80 - 120	<100	ug/L	NC	20		
7488478	Dissolved Lead (Pb)	2021/08/03	91	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7488478	Dissolved Lithium (Li)	2021/08/03	NC	80 - 120	106	80 - 120	<5.0	ug/L	4.3	20		
7488478	Dissolved Magnesium (Mg)	2021/08/03	99	80 - 120	105	80 - 120	<50	ug/L	0.18	20		
7488478	Dissolved Manganese (Mn)	2021/08/03	101	80 - 120	99	80 - 120	<2.0	ug/L	1.5	20		
7488478	Dissolved Molybdenum (Mo)	2021/08/03	109	80 - 120	100	80 - 120	<0.50	ug/L	0.39	20		
7488478	Dissolved Nickel (Ni)	2021/08/03	93	80 - 120	99	80 - 120	<1.0	ug/L	1.5	20		
7488478	Dissolved Phosphorus (P)	2021/08/03	115	80 - 120	114	80 - 120	<100	ug/L	2.4	20		
7488478	Dissolved Potassium (K)	2021/08/03	NC	80 - 120	102	80 - 120	<200	ug/L	1.5	20		
7488478	Dissolved Selenium (Se)	2021/08/03	94	80 - 120	99	80 - 120	<2.0	ug/L	NC	20		
7488478	Dissolved Silicon (Si)	2021/08/03	108	80 - 120	101	80 - 120	<50	ug/L	4.1	20		
7488478	Dissolved Silver (Ag)	2021/08/03	82	80 - 120	77 (1)	80 - 120	<0.090	ug/L	NC	20		
7488478	Dissolved Sodium (Na)	2021/08/03	NC	80 - 120	101	80 - 120	<100	ug/L	2.3	20		
7488478	Dissolved Strontium (Sr)	2021/08/03	NC	80 - 120	96	80 - 120	<1.0	ug/L	1.1	20		
7488478	Dissolved Tellurium (Te)	2021/08/03	85	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7488478	Dissolved Thallium (Tl)	2021/08/03	92	80 - 120	106	80 - 120	<0.050	ug/L	NC	20		
7488478	Dissolved Tin (Sn)	2021/08/03	108	80 - 120	101	80 - 120	<1.0	ug/L	5.0	20		
7488478	Dissolved Titanium (Ti)	2021/08/03	105	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7488478	Dissolved Tungsten (W)	2021/08/03	97	80 - 120	101	80 - 120	<1.0	ug/L	2.0	20		
7488478	Dissolved Uranium (U)	2021/08/03	94	80 - 120	107	80 - 120	<0.10	ug/L	NC	20		
7488478	Dissolved Vanadium (V)	2021/08/03	104	80 - 120	98	80 - 120	<0.50	ug/L	4.7	20		



BUREAU
VERITAS

BV Labs Job #: C110576
Report Date: 2021/08/25

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
7488478	Dissolved Zinc (Zn)	2021/08/03	90	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7488478	Dissolved Zirconium (Zr)	2021/08/03	118	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7488503	Nitrate (N)	2021/07/29	97	80 - 120	96	80 - 120	<0.10	mg/L	NC	20		
7488503	Nitrite (N)	2021/07/29	109	80 - 120	109	80 - 120	<0.010	mg/L	NC	20		
7488509	Nitrate (N)	2021/07/29	88	80 - 120	92	80 - 120	<0.10	mg/L	NC	20		
7488509	Nitrite (N)	2021/07/29	109	80 - 120	111	80 - 120	<0.010	mg/L	NC	20		
7488654	Dissolved Bromide (Br-)	2021/07/29	104	80 - 120	102	80 - 120	<1.0	mg/L	NC	20		
7488654	Dissolved Chloride (Cl-)	2021/07/29	NC	80 - 120	98	70 - 130	<1.0	mg/L	8.1	20		
7488654	Dissolved Sulphate (SO4)	2021/07/29	NC	80 - 120	99	80 - 120	<1.0	mg/L	7.6	20		
7490538	Total Organic Carbon (TOC)	2021/07/29	95	80 - 120	95	80 - 120	<0.40	mg/L	1.7	20		
7490955	Phenols-4AAP	2021/07/29	100	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20		
7491173	Orthophosphate (P)	2021/07/30	113	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
7491179	Nitrate (N)	2021/07/29	86	80 - 120	90	80 - 120	<0.10	mg/L	NC	20		
7491179	Nitrite (N)	2021/07/29	108	80 - 120	111	80 - 120	<0.010	mg/L				
7491199	Total Dissolved Solids	2021/08/03					<10	mg/L	0.33	25	95	90 - 110
7491216	Total Organic Carbon (TOC)	2021/07/30	96	80 - 120	97	80 - 120	<0.40	mg/L	3.0	20		
7491223	Total Ammonia-N	2021/08/03	107	75 - 125	100	80 - 120	<0.050	mg/L	NC	20		
7491225	Total Kjeldahl Nitrogen (TKN)	2021/07/30	105	80 - 120	105	80 - 120	<0.10	mg/L	NC	20	110	80 - 120
7491227	Total Dissolved Solids	2021/07/30					<10	mg/L	0.58	25	97	90 - 110
7491972	Alkalinity (Total as CaCO3)	2021/07/29			95	85 - 115	<1.0	mg/L	0.31	20		
7491975	pH	2021/07/29			102	98 - 103			0.0021	N/A		
7491981	Conductivity	2021/07/29			103	85 - 115	<1.0	umho/cm	0	25		
7491993	Fluoride (F-)	2021/07/29	NC	80 - 120	105	80 - 120	<0.10	mg/L	0.50	20		
7492403	Dissolved Bromide (Br-)	2021/07/30	104	80 - 120	104	80 - 120	<1.0	mg/L	NC	20		
7492403	Dissolved Chloride (Cl-)	2021/07/30	NC	80 - 120	100	70 - 130	<1.0	mg/L	7.2	20		
7492403	Dissolved Sulphate (SO4)	2021/07/30	NC	80 - 120	98	80 - 120	<1.0	mg/L	6.4	20		
7493051	Dissolved Aluminum (Al)	2021/08/05	97	80 - 120	99	80 - 120	<4.9	ug/L	NC	20		
7493051	Dissolved Antimony (Sb)	2021/08/05	100	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		
7493051	Dissolved Arsenic (As)	2021/08/05	102	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Barium (Ba)	2021/08/05	98	80 - 120	98	80 - 120	<2.0	ug/L	5.0	20		



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VERITAS

BV Labs Job #: C1L0576

Report Date: 2021/08/25

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
7493051	Dissolved Beryllium (Be)	2021/08/05	87	80 - 120	92	80 - 120	<0.40	ug/L	NC	20		
7493051	Dissolved Bismuth (Bi)	2021/08/05	78 (2)	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Boron (B)	2021/08/05	NC	80 - 120	89	80 - 120	<10	ug/L	1.7	20		
7493051	Dissolved Cadmium (Cd)	2021/08/05	100	80 - 120	103	80 - 120	<0.090	ug/L	NC	20		
7493051	Dissolved Calcium (Ca)	2021/08/05	NC	80 - 120	97	80 - 120	<200	ug/L	2.0	20		
7493051	Dissolved Chromium (Cr)	2021/08/05	94	80 - 120	94	80 - 120	<5.0	ug/L	NC	20		
7493051	Dissolved Cobalt (Co)	2021/08/05	99	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7493051	Dissolved Copper (Cu)	2021/08/05	89	80 - 120	100	80 - 120	<0.90	ug/L	NC	20		
7493051	Dissolved Iron (Fe)	2021/08/05	98	80 - 120	98	80 - 120	<100	ug/L	NC	20		
7493051	Dissolved Lead (Pb)	2021/08/05	98	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		
7493051	Dissolved Lithium (Li)	2021/08/05	NC	80 - 120	102	80 - 120	<5.0	ug/L	5.2	20		
7493051	Dissolved Magnesium (Mg)	2021/08/05	NC	80 - 120	102	80 - 120	<50	ug/L	1.1	20		
7493051	Dissolved Manganese (Mn)	2021/08/05	99	80 - 120	99	80 - 120	<2.0	ug/L	2.8	20		
7493051	Dissolved Molybdenum (Mo)	2021/08/05	101	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7493051	Dissolved Nickel (Ni)	2021/08/05	94	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Phosphorus (P)	2021/08/05	111	80 - 120	114	80 - 120	<100	ug/L	NC	20		
7493051	Dissolved Potassium (K)	2021/08/05	NC	80 - 120	100	80 - 120	<200	ug/L	0.49	20		
7493051	Dissolved Selenium (Se)	2021/08/05	55 (2)	80 - 120	101	80 - 120	<2.0	ug/L	NC	20		
7493051	Dissolved Silicon (Si)	2021/08/05	103	80 - 120	102	80 - 120	<50	ug/L	3.0	20		
7493051	Dissolved Silver (Ag)	2021/08/05	80	80 - 120	90	80 - 120	<0.090	ug/L	NC	20		
7493051	Dissolved Sodium (Na)	2021/08/05	NC	80 - 120	98	80 - 120	<100	ug/L	1.8	20		
7493051	Dissolved Strontium (Sr)	2021/08/05	NC	80 - 120	98	80 - 120	<1.0	ug/L	0.67	20		
7493051	Dissolved Tellurium (Te)	2021/08/05	79 (2)	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Thallium (Tl)	2021/08/05	100	80 - 120	105	80 - 120	<0.050	ug/L	NC	20		
7493051	Dissolved Tin (Sn)	2021/08/05	106	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Titanium (Ti)	2021/08/05	103	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
7493051	Dissolved Tungsten (W)	2021/08/05	103	80 - 120	105	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Uranium (U)	2021/08/05	100	80 - 120	102	80 - 120	<0.10	ug/L	10	20		
7493051	Dissolved Vanadium (V)	2021/08/05	98	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
7493051	Dissolved Zinc (Zn)	2021/08/05	94	80 - 120	101	80 - 120	<5.0	ug/L	NC	20		
7493051	Dissolved Zirconium (Zr)	2021/08/05	105	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: C1L0576

Report Date: 2021/08/25

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
7493661	Fluoride (F-)	2021/07/30	89	80 - 120	95	80 - 120	<0.10	mg/L	0.46	20		
7493671	Conductivity	2021/07/30			100	85 - 115	<1.0	umho/cm	0.13	25		
7493675	Alkalinity (Total as CaCO3)	2021/07/30			95	85 - 115	<1.0	mg/L	0.34	20		
7493677	pH	2021/07/30			101	98 - 103			0.17	N/A		
7493787	Fluoride (F-)	2021/07/30	103	80 - 120	95	80 - 120	<0.10	mg/L	5.6	20		
7493792	pH	2021/07/30			102	98 - 103			0.080	N/A		
7493814	Alkalinity (Total as CaCO3)	2021/07/30			97	85 - 115	<1.0	mg/L	0.012	20		
7493818	Conductivity	2021/07/30			100	85 - 115	<1.0	umho/cm	0.24	25		
7494165	Dissolved Bromide (Br-)	2021/08/03	107	80 - 120	103	80 - 120	<1.0	mg/L	NC	20		
7494165	Dissolved Chloride (Cl-)	2021/08/03	NC	80 - 120	100	70 - 130	<1.0	mg/L	6.7	20		
7494165	Dissolved Sulphate (SO4)	2021/08/03	NC	80 - 120	101	80 - 120	<1.0	mg/L	7.2	20		
7494181	Nitrate (N)	2021/08/03	104	80 - 120	103	80 - 120	<0.10	mg/L	NC	20		
7494181	Nitrite (N)	2021/08/03	106	80 - 120	106	80 - 120	<0.010	mg/L	NC	20		
7494261	Orthophosphate (P)	2021/08/04	110	75 - 125	101	80 - 120	<0.010	mg/L	NC	25		
7495611	Total Dissolved Solids	2021/08/03					<10	mg/L	0.20	25	102	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.

(2) "Matrix Spike exceeds acceptance limits, probable matrix interference".




BUREAU
VERITAS

BV Labs Job #: C1L0576
Report Date: 2021/08/25

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:

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.



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

27-Jul-21 15:10

Jolanta Goralczyk
C1L0576

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:
Tel:
Email: bmullin@terrapureenv.com, dtaylor2@terrapureenv.com

PROJECT INFORMATION:

Quotation #: B60569
P.O. #:
Project: GW
Project Name:
Site #:
Sampled By:
COC #: ENV 1211

Order Information:

Only:
Bottle Order #: 808571
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

Regulation 153 (2011)	Other Regulations	Special Instructions
<input type="checkbox"/> Table 1 <input type="checkbox"/> Table 2 <input type="checkbox"/> Table 3 <input type="checkbox"/> Table	<input type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Fine <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC <input checked="" type="checkbox"/> CME <input type="checkbox"/> Sanitary Sewer Bylaw <input type="checkbox"/> Reg 558 <input type="checkbox"/> Storm Sewer Bylaw <input type="checkbox"/> MISA <input type="checkbox"/> Municipality <input type="checkbox"/> PWQO <input type="checkbox"/> Reg 406 Table <input type="checkbox"/> Other	

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	Last: A: GW Monitoring	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)													
1	P10-I	July 26, 2021	NA	GW	Y	X														
2	P10-II				Y	X														
3	P10-III				Y	X														
4	P10-IV				Y	X														
5	P4-I				Y	X														
6	P4-II				Y	X														
7	P4-III				Y	X														
8	G24				Y	X														
9	4-IV				Y	X														
10	40-II				Y	X														

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 #)

RELINQUISHED BY: (Signature/Print) D. Taylor / Dan Taylor	Date: (YY/MM/DD) 21/07/27	Time 9:00	RECEIVED BY: (Signature/Print) [Signature]	Date: (YY/MM/DD) 27/07/27	Time 15:10	# Jars used and not submitted
---------------------------------------------------------------------	-------------------------------------	---------------------	------------------------------------------------------	-------------------------------------	----------------------	--------------------------------------

Laboratory Use Only

Time Sensitive:

Temperature (°C) on Receipt: [Signature]

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



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.bvlab.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 #:	Bottle Order #:	819873		
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	Site #:		C#819873-31-01		
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel: Fax:	Project Name:	Sampled By:				
Email: kbailey@terrapureenv.com	Email: bmulin@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

Regulation 153 (2011)		Other Regulations		Special Instructions
<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 _____	
		<input type="checkbox"/> Other _____		

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										
Field Filtered (please circle):	Metals: Hg / Cr / VI	Leak "A" GW Monitoring	Leak "B" GW Monitoring	Biochemical Oxygen Demand (BOD)						

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	Leak "A" GW Monitoring	Leak "B" GW Monitoring	Biochemical Oxygen Demand (BOD)	# of Bottles	Comments
1	40-II	July 26 2021	NA	GW	Y	X				6	
2	29-I				Y	X				6	
3	29-II				Y	X				6	
4	29-IV				Y	X				6	
5	12-II				Y	X				6	
6	56-I				Y	X				6	
7	11-II				Y	X				6	
8	68-I				Y	X				6	
9	68-II				Y	X				6	
10	68-III				Y	X				6	

RELINQUISHED BY: (Signature/Print) D. Taylor / Dan Taylor	Date: (YY/MM/DD) 21/07/21	Time 9:00	RECEIVED BY: (Signature/Print) See Page 1	Date: (YY/MM/DD)	Time	# Jars used and not submitted	Laboratory Use Only			
						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.

* 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: 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: SW Project Name: Site #: Sampled By:		Laboratory Use Only: BV Labs Job #: Bottle Order #: COC #: Project Manager: Jolanta Goralczyk C#630760-03-01	
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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.

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					
Include Criteria on Certificate of Analysis (Y/N)?			Field Filtered (please circle): Metals / Hg / Cr / VI			ANALYSIS REQUESTED (PLEASE BE SPECIFIC) List "C": SW Water Quality (Full) List "E": SW Trace Organic Compounds List "D": SW Water Quality (Indicator) 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. <input checked="" type="checkbox"/>		

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle)	List "C": SW Water Quality (Full)	List "E": SW Trace Organic Compounds	List "D": SW Water Quality (Indicator)	List "A": GW Monitoring	# of Bottles	Comments
1	68-IV	July 26 2021	NA	GW	Y				X	6	
2	P11-I				Y				X	6	
3	P11-III				Y				X	6	
4	35-III				Y				X	6	
5	35-IV				Y				X	6	
6	35-V				Y				X	6	
7	35-VII				Y				X	6	
8	31-I				Y				X	6	
9	31-III				Y				X	6	
10	2-IV				Y				X	6	

RELINQUISHED BY: (Signature/Print) [Signature] / Dan Taylor		Date: (YY/MM/DD) 21/07/2021 Time: 9:00		RECEIVED BY: (Signature/Print) [Signature]		Date: (YY/MM/DD) Time:		# jars used and not submitted		Laboratory Use Only Time Sensitive Temperature (°C) on Receipt Custody Seal 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.

* 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. #: 834487-01-01, 834487-02-01, 834487-03-01

Report Date: 2021/08/06
Report #: R6752730
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1L1918

Received: 2021/07/28, 15:29

Sample Matrix: Water
Samples Received: 21

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	21	N/A	2021/07/30	CAM SOP-00448	SM 23 2320 B m
Anions	3	N/A	2021/07/30	CAM SOP-00435	SM 23 4110 B m
Anions	18	N/A	2021/08/03	CAM SOP-00435	SM 23 4110 B m
Conductivity	21	N/A	2021/07/30	CAM SOP-00414	SM 23 2510 m
Fluoride	21	2021/07/30	2021/07/30	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	21	N/A	2021/08/05	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	13	N/A	2021/08/04	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	8	N/A	2021/08/05	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	21	N/A	2021/08/03	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	3	N/A	2021/07/29	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate (NO3) and Nitrite (NO2) in Water (1)	18	N/A	2021/08/03	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	21	2021/07/30	2021/07/30	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	20	N/A	2021/07/29	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	1	N/A	2021/07/30	CAM SOP-00444	OMOE E3179 m
Orthophosphate	3	N/A	2021/07/30	CAM SOP-00461	EPA 365.1 m
Orthophosphate	18	N/A	2021/08/04	CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	21	2021/07/31	2021/08/03	CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	8	2021/07/29	2021/07/30	CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	13	2021/07/29	2021/08/03	CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	3	N/A	2021/07/29	CAM SOP-00446	SM 23 5310B m
Total Organic Carbon (TOC) (2)	18	N/A	2021/07/30	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. #: 834487-01-01, 834487-02-01, 834487-03-01

Report Date: 2021/08/06
Report #: R6752730
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1L1918

Received: 2021/07/28, 15:29

Encryption Key

Hongmei Zhao (Grace)
Project Manager
06 Aug 2021 10:12:48

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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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 #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFO002			QFO002			QFO003		
Sampling Date		2021/07/27			2021/07/27			2021/07/27		
COC Number		834487-01-01			834487-01-01			834487-01-01		
	UNITS	P9-I	RDL	QC Batch	P9-I Lab-Dup	RDL	QC Batch	P9-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2900	1.0	7487957				640	1.0	7487957
Inorganics										
Total Ammonia-N	mg/L	10	0.050	7491223				0.084	0.050	7493234
Conductivity	umho/cm	13000	1.0	7493671				2300	1.0	7493818
Total Dissolved Solids	mg/L	8060	20	7491199				1420	10	7495611
Fluoride (F-)	mg/L	0.89	0.10	7493661				1.0	0.10	7493787
Total Kjeldahl Nitrogen (TKN)	mg/L	11	0.50	7491225				0.42	0.10	7491397
Total Organic Carbon (TOC)	mg/L	2.9	0.40	7491216				2.8	0.40	7491363
Orthophosphate (P)	mg/L	<0.010	0.010	7494261	<0.010	0.010	7494261	<0.010	0.010	7494261
pH	pH	7.61		7493677				7.93		7493792
Phenols-4AAP	mg/L	<0.0010	0.0010	7490955				<0.0010	0.0010	7490955
Alkalinity (Total as CaCO3)	mg/L	280	1.0	7493675				190	1.0	7493814
Nitrite (N)	mg/L	<0.010	0.010	7494181				<0.010	0.010	7494181
Dissolved Chloride (Cl-)	mg/L	3200	20	7494165	3400	20	7494165	360	5.0	7494165
Nitrate (N)	mg/L	<0.10	0.10	7494181				0.40	0.10	7494181
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494181				0.40	0.10	7494181
Dissolved Bromide (Br-)	mg/L	<20	20	7494165	<20	20	7494165	<5.0	5.0	7494165
Dissolved Sulphate (SO4)	mg/L	1500	20	7494165	1600	20	7494165	430	5.0	7494165

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



RESULTS OF ANALYSES OF WATER

BV Labs ID		QFO004			QFO004			QFO005		
Sampling Date		2021/07/27			2021/07/27			2021/07/27		
COC Number		834487-01-01			834487-01-01			834487-01-01		
	UNITS	P9-IIIIR	RDL	QC Batch	P9-IIIIR Lab-Dup	RDL	QC Batch	36-IR	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	800	1.0	7487957				2100	1.0	7487957
Inorganics										
Total Ammonia-N	mg/L	17	0.050	7491223				10 (1)	0.050	7491223
Conductivity	umho/cm	4000	1.0	7493671				6500	1.0	7493818
Total Dissolved Solids	mg/L	2510	10	7495611	2510	10	7495611	4810	20	7491199
Fluoride (F-)	mg/L	1.9	0.10	7493661				1.1	0.10	7493787
Total Kjeldahl Nitrogen (TKN)	mg/L	18	1.0	7491225				9.5 (1)	1.0	7491225
Total Organic Carbon (TOC)	mg/L	3.4	0.40	7491216				2.7	0.40	7491216
Orthophosphate (P)	mg/L	<0.010	0.010	7494261				<0.010	0.010	7494261
pH	pH	8.12		7493677				7.57		7493792
Phenols-4AAP	mg/L	0.0039	0.0010	7490562				<0.0010	0.0010	7490562
Alkalinity (Total as CaCO3)	mg/L	130	1.0	7493675				220	1.0	7493814
Nitrite (N)	mg/L	<0.010	0.010	7494181				<0.010	0.010	7494181
Dissolved Chloride (Cl-)	mg/L	740	10	7494165				1200	10	7494165
Nitrate (N)	mg/L	<0.10	0.10	7494181				<0.10	0.10	7494181
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494181				<0.10	0.10	7494181
Dissolved Bromide (Br-)	mg/L	<10	10	7494165				<10	10	7494165
Dissolved Sulphate (SO4)	mg/L	800	10	7494165				1700	10	7494165

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		QFO006				QFO007				QFO008		
Sampling Date		2021/07/27				2021/07/27				2021/07/27		
COC Number		834487-01-01				834487-01-01				834487-01-01		
	UNITS	36-IIR	RDL	QC Batch	36-IIIR	RDL	QC Batch	36-IVR	RDL	QC Batch		
Calculated Parameters												
Hardness (CaCO3)	mg/L	5400	1.0	7487957	2000	1.0	7487957	760	1.0	7487957		
Inorganics												
Total Ammonia-N	mg/L	8.6	0.050	7491223	4.0	0.050	7491223	<0.050	0.050	7491223		
Conductivity	umho/cm	21000	1.0	7493671	6500	1.0	7493671	2100	1.0	7493671		
Total Dissolved Solids	mg/L	14000	20	7491199	4980	20	7495611	1310	10	7491199		
Fluoride (F-)	mg/L	0.63	0.10	7493661	1.2	0.10	7493661	1.4	0.10	7493661		
Total Kjeldahl Nitrogen (TKN)	mg/L	8.5	0.50	7491225	4.3	0.20	7491225	0.20	0.10	7491225		
Total Organic Carbon (TOC)	mg/L	2.0	0.40	7491216	1.8	0.40	7491216	1.9	0.40	7491216		
Orthophosphate (P)	mg/L	0.018	0.010	7494261	<0.010	0.010	7494261	<0.010	0.010	7494261		
pH	pH	7.41		7493677	7.80		7493677	7.88		7493677		
Phenols-4AAP	mg/L	<0.0010	0.0010	7490562	<0.0010	0.0010	7490562	<0.0010	0.0010	7490562		
Alkalinity (Total as CaCO3)	mg/L	270	1.0	7493675	240	1.0	7493675	220	1.0	7493675		
Nitrite (N)	mg/L	<0.010	0.010	7494181	<0.010	0.010	7494181	<0.010	0.010	7494181		
Dissolved Chloride (Cl-)	mg/L	6800	50	7494165	1000	10	7494165	240	5.0	7494165		
Nitrate (N)	mg/L	<0.10	0.10	7494181	<0.10	0.10	7494181	<0.10	0.10	7494181		
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494181	<0.10	0.10	7494181	<0.10	0.10	7494181		
Dissolved Bromide (Br-)	mg/L	67	50	7494165	<10	10	7494165	<5.0	5.0	7494165		
Dissolved Sulphate (SO4)	mg/L	1600	50	7494165	1800	10	7494165	550	5.0	7494165		
RDL = Reportable Detection Limit												
QC Batch = Quality Control Batch												



RESULTS OF ANALYSES OF WATER

BV Labs ID		QFO008			QFO009			QFO010		
Sampling Date		2021/07/27			2021/07/27			2021/07/27		
COC Number		834487-01-01			834487-01-01			834487-01-01		
	UNITS	36-IVR Lab-Dup	RDL	QC Batch	36-VR	RDL	QC Batch	2-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L				550	1.0	7487957	1000	1.0	7487957
Inorganics										
Total Ammonia-N	mg/L				66 (1)	0.25	7493234	2.4	0.050	7491223
Conductivity	umho/cm				6500	1.0	7493671	3100	1.0	7493671
Total Dissolved Solids	mg/L				3330	10	7491199	1860	10	7491199
Fluoride (F-)	mg/L				3.0	0.10	7493661	0.36	0.10	7493661
Total Kjeldahl Nitrogen (TKN)	mg/L				61 (1)	5.0	7491397	2.6	0.10	7491225
Total Organic Carbon (TOC)	mg/L				15	0.40	7491363	3.9	0.40	7491216
Orthophosphate (P)	mg/L				<0.010	0.010	7491173	<0.010	0.010	7494261
pH	pH				9.25		7493677	7.58		7493677
Phenols-4AAP	mg/L				0.29	0.010	7490955	<0.0010	0.0010	7490955
Alkalinity (Total as CaCO3)	mg/L				140	1.0	7493675	380	1.0	7493675
Nitrite (N)	mg/L	<0.010	0.010	7494181	<0.010	0.010	7491179	<0.010	0.010	7494181
Dissolved Chloride (Cl-)	mg/L				1800	10	7492403	530	5.0	7494165
Nitrate (N)	mg/L	<0.10	0.10	7494181	<0.10	0.10	7491179	<0.10	0.10	7494181
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494181	<0.10	0.10	7491179	<0.10	0.10	7494181
Dissolved Bromide (Br-)	mg/L				<10	10	7492403	<5.0	5.0	7494165
Dissolved Sulphate (SO4)	mg/L				470	10	7492403	470	5.0	7494165

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 #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFO011			QFO035			QFO035		
Sampling Date		2021/07/27			2021/07/27			2021/07/27		
COC Number		834487-01-01			834487-02-01			834487-02-01		
	UNITS	2-II	RDL	QC Batch	62-I	RDL	QC Batch	62-I Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	650	1.0	7487957	2200	1.0	7487957			
Inorganics										
Total Ammonia-N	mg/L	0.10	0.050	7491223	24	0.050	7491223			
Conductivity	umho/cm	2300	1.0	7493671	7800	1.0	7493671	7700	1.0	7493671
Total Dissolved Solids	mg/L	1370	10	7491199	5560	20	7491199			
Fluoride (F-)	mg/L	0.95	0.10	7493661	1.0	0.10	7493661	1.0	0.10	7493661
Total Kjeldahl Nitrogen (TKN)	mg/L	0.26	0.10	7491225	25	2.0	7491225			
Total Organic Carbon (TOC)	mg/L	2.7	0.40	7491216	3.5	0.40	7491216			
Orthophosphate (P)	mg/L	<0.010	0.010	7494261	<0.010	0.010	7491173			
pH	pH	7.86		7493677	7.39		7493677	7.40		7493677
Phenols-4AAP	mg/L	<0.0010	0.0010	7490955	<0.0010	0.0010	7490955			
Alkalinity (Total as CaCO3)	mg/L	190	1.0	7493675	190	1.0	7493675	190	1.0	7493675
Nitrite (N)	mg/L	<0.010	0.010	7494181	<0.010	0.010	7491179			
Dissolved Chloride (Cl-)	mg/L	350	5.0	7494165	1400	20	7492403	1500	20	7492403
Nitrate (N)	mg/L	0.40	0.10	7494181	<0.10	0.10	7491179			
Nitrate + Nitrite (N)	mg/L	0.40	0.10	7494181	<0.10	0.10	7491179			
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7494165	<20	20	7492403	<20	20	7492403
Dissolved Sulphate (SO4)	mg/L	420	5.0	7494165	1500	20	7492403	1600	20	7492403

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



BUREAU
VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFO036			QFO037			QFO037		
Sampling Date		2021/07/27			2021/07/27			2021/07/27		
COC Number		834487-02-01			834487-02-01			834487-02-01		
	UNITS	62-II	RDL	QC Batch	62-III	RDL	QC Batch	62-III Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1600	1.0	7487957	620	1.0	7487957			
Inorganics										
Total Ammonia-N	mg/L	24	0.050	7491223	0.17	0.050	7491223			
Conductivity	umho/cm	6200	1.0	7493671	1600	1.0	7493671			
Total Dissolved Solids	mg/L	4030	10	7491199	995	10	7491199			
Fluoride (F-)	mg/L	1.0	0.10	7493661	0.22	0.10	7493661			
Total Kjeldahl Nitrogen (TKN)	mg/L	25	2.0	7491225	0.25	0.10	7491225			
Total Organic Carbon (TOC)	mg/L	4.0	0.40	7491216	1.7	0.40	7491216			
Orthophosphate (P)	mg/L	<0.010	0.010	7494261	<0.010	0.010	7491173	<0.010	0.010	7491173
pH	pH	7.47		7493677	7.69		7493677			
Phenols-4AAP	mg/L	<0.0010	0.0010	7490955	<0.0010	0.0010	7490955			
Alkalinity (Total as CaCO3)	mg/L	210	1.0	7493675	370	1.0	7493675			
Nitrite (N)	mg/L	<0.010	0.010	7494181	0.011	0.010	7491179			
Dissolved Chloride (Cl-)	mg/L	1200	10	7494165	170	1.0	7492403			
Nitrate (N)	mg/L	<0.10	0.10	7494181	<0.10	0.10	7491179			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494181	<0.10	0.10	7491179			
Dissolved Bromide (Br-)	mg/L	<10	10	7494165	<1.0	1.0	7492403			
Dissolved Sulphate (SO4)	mg/L	1400	10	7494165	220	1.0	7492403			

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



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VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFO038			QFO038			QFO039		
Sampling Date		2021/07/27			2021/07/27			2021/07/27		
COC Number		834487-02-01			834487-02-01			834487-02-01		
	UNITS	62-IV	RDL	QC Batch	62-IV Lab-Dup	RDL	QC Batch	41-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	880	1.0	7487957				1900	1.0	7487957
Inorganics										
Total Ammonia-N	mg/L	0.46	0.050	7491223				6.3 (1)	0.050	7491223
Conductivity	umho/cm	2300	1.0	7493671				4900	1.0	7493671
Total Dissolved Solids	mg/L	1530	10	7491199	1530	10	7491199	3480	10	7491199
Fluoride (F-)	mg/L	0.34	0.10	7493661				0.80	0.10	7493661
Total Kjeldahl Nitrogen (TKN)	mg/L	0.59	0.10	7491225				6.2 (1)	0.50	7491225
Total Organic Carbon (TOC)	mg/L	3.5	0.40	7491216				2.1	0.40	7491216
Orthophosphate (P)	mg/L	<0.010	0.010	7494261				<0.010	0.010	7494261
pH	pH	7.73		7493677				7.57		7493677
Phenols-4AAP	mg/L	<0.0010	0.0010	7490955				<0.0010	0.0010	7490955
Alkalinity (Total as CaCO3)	mg/L	250	1.0	7493675				230	1.0	7493675
Nitrite (N)	mg/L	<0.010	0.010	7494181				<0.010	0.010	7494181
Dissolved Chloride (Cl-)	mg/L	350	5.0	7494165				790	10	7494165
Nitrate (N)	mg/L	<0.10	0.10	7494181				<0.10	0.10	7494181
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494181				<0.10	0.10	7494181
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7494165				<10	10	7494165
Dissolved Sulphate (SO4)	mg/L	400	5.0	7494165				1400	10	7494165

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 #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFO040			QFO040			QFO041		
Sampling Date		2021/07/27			2021/07/27			2021/07/27		
COC Number		834487-02-01			834487-02-01			834487-02-01		
	UNITS	41-II	RDL	QC Batch	41-II Lab-Dup	RDL	QC Batch	41-III	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	480	1.0	7487957				580	1.0	7487957
Inorganics										
Total Ammonia-N	mg/L	<0.050	0.050	7491223	<0.050	0.050	7491223	<0.050	0.050	7491223
Conductivity	umho/cm	1000	1.0	7493671				1300	1.0	7493671
Total Dissolved Solids	mg/L	560	10	7495611				720	10	7491199
Fluoride (F-)	mg/L	0.37	0.10	7493661				0.29	0.10	7493661
Total Kjeldahl Nitrogen (TKN)	mg/L	0.13	0.10	7491225	0.10	0.10	7491225	0.16	0.10	7491225
Total Organic Carbon (TOC)	mg/L	1.4	0.40	7491216	1.4	0.40	7491216	2.3	0.40	7491216
Orthophosphate (P)	mg/L	<0.010	0.010	7494261				<0.010	0.010	7494261
pH	pH	7.82		7493677				7.73		7493677
Phenols-4AAP	mg/L	<0.0010	0.0010	7490955	<0.0010	0.0010	7490955	<0.0010	0.0010	7490955
Alkalinity (Total as CaCO3)	mg/L	420	1.0	7493675				460	1.0	7493675
Nitrite (N)	mg/L	<0.010	0.010	7494181				<0.010	0.010	7494181
Dissolved Chloride (Cl-)	mg/L	38	1.0	7494165				61	1.0	7494165
Nitrate (N)	mg/L	<0.10	0.10	7494181				<0.10	0.10	7494181
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494181				<0.10	0.10	7494181
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7494165				<1.0	1.0	7494165
Dissolved Sulphate (SO4)	mg/L	87	1.0	7494165				150	1.0	7494165

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



RESULTS OF ANALYSES OF WATER

BV Labs ID		QFO042			QFO043			QFO043		
Sampling Date		2021/07/27			2021/07/27			2021/07/27		
COC Number		834487-02-01			834487-02-01			834487-02-01		
	UNITS	75-I	RDL	QC Batch	75-II	RDL	QC Batch	75-II Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2300	1.0	7487957	810	1.0	7487957			
Inorganics										
Total Ammonia-N	mg/L	6.9 (1)	0.050	7491223	27	0.050	7493234	27	0.050	7493234
Conductivity	umho/cm	7500	1.0	7493671	5200	1.0	7493671			
Total Dissolved Solids	mg/L	5560	20	7491199	3020	10	7491199			
Fluoride (F-)	mg/L	0.91	0.10	7493661	1.1	0.10	7493661			
Total Kjeldahl Nitrogen (TKN)	mg/L	6.8 (1)	0.50	7491225	27	2.0	7491397	27	2.0	7491397
Total Organic Carbon (TOC)	mg/L	2.5	0.40	7491216	7.4	0.40	7491363			
Orthophosphate (P)	mg/L	<0.010	0.010	7494261	<0.010	0.010	7494261			
pH	pH	7.47		7493677	7.65		7493677			
Phenols-4AAP	mg/L	<0.0010	0.0010	7490955	0.0010	0.0010	7490955			
Alkalinity (Total as CaCO3)	mg/L	220	1.0	7493675	180	1.0	7493675			
Nitrite (N)	mg/L	<0.010	0.010	7494181	<0.010	0.010	7494181			
Dissolved Chloride (Cl-)	mg/L	1400	20	7494165	1200	10	7494165			
Nitrate (N)	mg/L	<0.10	0.10	7494181	<0.10	0.10	7494181			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494181	<0.10	0.10	7494181			
Dissolved Bromide (Br-)	mg/L	<20	20	7494165	<10	10	7494165			
Dissolved Sulphate (SO4)	mg/L	1400	20	7494165	760	10	7494165			

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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BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFO044			QFO044			QFO061		
Sampling Date		2021/07/27			2021/07/27			2021/07/27		
COC Number		834487-02-01			834487-02-01			834487-03-01		
	UNITS	75-III	RDL	QC Batch	75-III Lab-Dup	RDL	QC Batch	4-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1000	1.0	7487957				580	1.0	7487957
Inorganics										
Total Ammonia-N	mg/L	2.4	0.050	7491223				<0.050	0.050	7491223
Conductivity	umho/cm	3100	1.0	7493818				1300	1.0	7493818
Total Dissolved Solids	mg/L	1960	10	7491199				720	10	7491199
Fluoride (F-)	mg/L	0.38	0.10	7493787				0.31	0.10	7493787
Total Kjeldahl Nitrogen (TKN)	mg/L	2.7	0.10	7491225				0.14	0.10	7491225
Total Organic Carbon (TOC)	mg/L	3.8	0.40	7491216				2.2	0.40	7491216
Orthophosphate (P)	mg/L	<0.010	0.010	7494261				<0.010	0.010	7494261
pH	pH	7.75		7493792				7.82		7493792
Phenols-4AAP	mg/L	<0.0010	0.0010	7490562				<0.0010	0.0010	7490955
Alkalinity (Total as CaCO3)	mg/L	380	1.0	7493814				460	1.0	7493814
Nitrite (N)	mg/L	<0.010	0.010	7494189	<0.010	0.010	7494189	<0.010	0.010	7494181
Dissolved Chloride (Cl-)	mg/L	560	5.0	7494165				62	1.0	7494165
Nitrate (N)	mg/L	<0.10	0.10	7494189	<0.10	0.10	7494189	<0.10	0.10	7494181
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494189	<0.10	0.10	7494189	<0.10	0.10	7494181
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7494165				<1.0	1.0	7494165
Dissolved Sulphate (SO4)	mg/L	500	5.0	7494165				150	1.0	7494165

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

BV Labs ID		QFO061		
Sampling Date		2021/07/27		
COC Number		834487-03-01		
	UNITS	4-I Lab-Dup	RDL	QC Batch
Inorganics				
Conductivity	umho/cm	1300	1.0	7493818
Fluoride (F-)	mg/L	0.29	0.10	7493787
pH	pH	7.83		7493792
Alkalinity (Total as CaCO3)	mg/L	460	1.0	7493814
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				
Lab-Dup = Laboratory Initiated Duplicate				



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BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFO002		QFO003	QFO004		QFO005		
Sampling Date		2021/07/27		2021/07/27	2021/07/27		2021/07/27		
COC Number		834487-01-01		834487-01-01	834487-01-01		834487-01-01		
	UNITS	P9-I	RDL	P9-II	P9-IIIR	RDL	36-IR	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	<4.9	8.4	4.9	<4.9	4.9	7493051
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Barium (Ba)	ug/L	20	2.0	27	12	2.0	20	2.0	7493051
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	<0.40	0.40	<0.40	0.40	7493051
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Boron (B)	ug/L	6400	50	170	740	10	2200	10	7493051
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	<0.090	0.090	<0.090	0.090	7493051
Dissolved Calcium (Ca)	ug/L	830000	1000	190000	270000	200	670000	1000	7493051
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	<5.0	5.0	7493051
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	<0.90	0.90	<0.90	0.90	7493051
Dissolved Iron (Fe)	ug/L	<100	100	<100	<100	100	<100	100	7493051
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Lithium (Li)	ug/L	1800	25	26	55	5.0	470	5.0	7493051
Dissolved Magnesium (Mg)	ug/L	210000	50	41000	31000	50	95000	50	7493051
Dissolved Manganese (Mn)	ug/L	60	2.0	8.0	17	2.0	55	2.0	7493051
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	6.7	1.9	0.50	<0.50	0.50	7493051
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	9.6	2.6	1.0	<1.0	1.0	7493051
Dissolved Phosphorus (P)	ug/L	<100	100	<100	<100	100	<100	100	7493051
Dissolved Potassium (K)	ug/L	53000	200	4500	24000	200	37000	200	7493051
Dissolved Selenium (Se)	ug/L	4.6	2.0	<2.0	<2.0	2.0	<2.0	2.0	7493051
Dissolved Silicon (Si)	ug/L	6800	50	3000	3700	50	4500	50	7493051
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	<0.090	0.090	<0.090	0.090	7493051
Dissolved Sodium (Na)	ug/L	1400000	500	230000	510000	100	630000	500	7493051
Dissolved Strontium (Sr)	ug/L	13000	1.0	2300	3100	1.0	8100	1.0	7493051
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	<0.050	0.050	<0.050	0.050	7493051
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	<5.0	5.0	7493051
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<1.0	4.8	1.0	<1.0	1.0	7493051
Dissolved Uranium (U)	ug/L	0.25	0.10	7.5	1.8	0.10	0.57	0.10	7493051
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	<5.0	5.0	7493051
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



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VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFO006		QFO007		QFO008			QFO009		
Sampling Date		2021/07/27		2021/07/27		2021/07/27			2021/07/27		
COC Number		834487-01-01		834487-01-01		834487-01-01			834487-01-01		
	UNITS	36-IIR	RDL	36-IIIR	RDL	36-IVR	RDL	QC Batch	36-VR	RDL	QC Batch
Metals											
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	14	4.9	<4.9	4.9	7493051	590	4.9	7493055
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	7493051	<0.50	0.50	7493055
Dissolved Arsenic (As)	ug/L	1.2	1.0	<1.0	1.0	<1.0	1.0	7493051	<1.0	1.0	7493055
Dissolved Barium (Ba)	ug/L	23	2.0	10	2.0	15	2.0	7493051	25	2.0	7493055
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	0.40	7493051	<0.40	0.40	7493055
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	7493051	<1.0	1.0	7493055
Dissolved Boron (B)	ug/L	3800	10	4000	10	93	10	7493051	510	10	7493055
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	7493051	<0.090	0.090	7493055
Dissolved Calcium (Ca)	ug/L	1500000	2000	620000	1000	180000	200	7493051	170000	200	7493055
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	7493051	<5.0	5.0	7493055
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.50	0.77	0.50	7493051	<0.50	0.50	7493055
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	0.90	<0.90	0.90	7493051	<0.90	0.90	7493055
Dissolved Iron (Fe)	ug/L	<100	100	<100	100	<100	100	7493051	<100	100	7493055
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	7493051	<0.50	0.50	7493055
Dissolved Lithium (Li)	ug/L	2200	25	980	25	30	5.0	7493051	44	5.0	7493055
Dissolved Magnesium (Mg)	ug/L	380000	50	120000	50	74000	50	7493051	31000	50	7493055
Dissolved Manganese (Mn)	ug/L	110	2.0	56	2.0	35	2.0	7493051	6.3	2.0	7493055
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	<0.50	0.50	8.5	0.50	7493051	11	0.50	7493055
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	<1.0	1.0	8.9	1.0	7493051	7.5	1.0	7493055
Dissolved Phosphorus (P)	ug/L	<100	100	<100	100	<100	100	7493051	180	100	7493055
Dissolved Potassium (K)	ug/L	65000	200	33000	200	3900	200	7493051	47000	200	7493055
Dissolved Selenium (Se)	ug/L	2.8	2.0	<2.0	2.0	<2.0	2.0	7493051	2.2	2.0	7493055
Dissolved Silicon (Si)	ug/L	5000	50	3800	50	4300	50	7493051	5700	50	7493055
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	7493051	<0.090	0.090	7493055
Dissolved Sodium (Na)	ug/L	2500000	500	710000	500	140000	100	7493051	1100000	500	7493055
Dissolved Strontium (Sr)	ug/L	30000	1.0	7600	1.0	2200	1.0	7493051	2300	1.0	7493055
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	7493051	<1.0	1.0	7493055
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	0.067	0.050	7493051	<0.050	0.050	7493055
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	7493051	<1.0	1.0	7493055
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	7493051	<5.0	5.0	7493055
Dissolved Tungsten (W)	ug/L	9.7	1.0	<1.0	1.0	13	1.0	7493051	7.5	1.0	7493055
Dissolved Uranium (U)	ug/L	0.20	0.10	7.1	0.10	15	0.10	7493051	3.9	0.10	7493055
Dissolved Vanadium (V)	ug/L	<0.50	0.50	1.1	0.50	<0.50	0.50	7493051	<0.50	0.50	7493055
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	5.0	57	5.0	7493051	<5.0	5.0	7493055
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	7493051	<1.0	1.0	7493055
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											



BUREAU
VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFO010	QFO011		QFO035	QFO036		QFO037		
Sampling Date		2021/07/27	2021/07/27		2021/07/27	2021/07/27		2021/07/27		
COC Number		834487-01-01	834487-01-01		834487-02-01	834487-02-01		834487-02-01		
	UNITS	2-I	2-II	RDL	62-I	62-II	RDL	62-III	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	<4.9	4.9	<4.9	<4.9	4.9	<4.9	4.9	7493051
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Barium (Ba)	ug/L	7.3	27	2.0	16	17	2.0	34	2.0	7493051
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<0.40	<0.40	0.40	<0.40	0.40	7493051
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Boron (B)	ug/L	410	200	10	1300	990	10	89	10	7493051
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	<0.090	<0.090	0.090	<0.090	0.090	7493051
Dissolved Calcium (Ca)	ug/L	240000	190000	200	700000	520000	1000	150000	200	7493051
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<5.0	<5.0	5.0	<5.0	5.0	7493051
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	<0.90	<0.90	0.90	<0.90	0.90	7493051
Dissolved Iron (Fe)	ug/L	<100	<100	100	<100	<100	100	560	100	7493051
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Lithium (Li)	ug/L	39	27	5.0	350	200	5.0	21	5.0	7493051
Dissolved Magnesium (Mg)	ug/L	97000	40000	50	100000	79000	50	59000	50	7493051
Dissolved Manganese (Mn)	ug/L	62	8.1	2.0	80	60	2.0	100	2.0	7493051
Dissolved Molybdenum (Mo)	ug/L	<0.50	6.2	0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Nickel (Ni)	ug/L	2.8	9.5	1.0	<1.0	<1.0	1.0	1.3	1.0	7493051
Dissolved Phosphorus (P)	ug/L	<100	<100	100	<100	<100	100	<100	100	7493051
Dissolved Potassium (K)	ug/L	13000	4500	200	51000	45000	200	3600	200	7493051
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	<2.0	<2.0	2.0	<2.0	2.0	7493051
Dissolved Silicon (Si)	ug/L	6400	3200	50	4000	4500	50	5800	50	7493051
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<0.090	<0.090	0.090	<0.090	0.090	7493051
Dissolved Sodium (Na)	ug/L	270000	230000	100	840000	640000	500	100000	100	7493051
Dissolved Strontium (Sr)	ug/L	3000	2200	1.0	11000	9300	1.0	790	1.0	7493051
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	<0.050	<0.050	0.050	<0.050	0.050	7493051
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<5.0	<5.0	5.0	<5.0	5.0	7493051
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Uranium (U)	ug/L	0.20	7.2	0.10	<0.10	<0.10	0.10	1.3	0.10	7493051
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	<5.0	<5.0	5.0	35	5.0	7493051
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU
VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFO038		QFO039	QFO039			QFO040		
Sampling Date		2021/07/27		2021/07/27	2021/07/27			2021/07/27		
COC Number		834487-02-01		834487-02-01	834487-02-01			834487-02-01		
	UNITS	62-IV	RDL	41-I	41-I Lab-Dup	RDL	QC Batch	41-II	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	<4.9	<4.9	4.9	7493055	19	4.9	7493051
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	7493055	<0.50	0.50	7493051
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	7493055	<1.0	1.0	7493051
Dissolved Barium (Ba)	ug/L	140	2.0	15	15	2.0	7493055	33	2.0	7493051
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	<0.40	0.40	7493055	<0.40	0.40	7493051
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	7493055	<1.0	1.0	7493051
Dissolved Boron (B)	ug/L	140	10	410	420	10	7493055	130	10	7493051
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	<0.090	0.090	7493055	<0.090	0.090	7493051
Dissolved Calcium (Ca)	ug/L	220000	200	640000	640000	1000	7493055	100000	200	7493051
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	7493055	<5.0	5.0	7493051
Dissolved Cobalt (Co)	ug/L	1.4	0.50	<0.50	<0.50	0.50	7493055	<0.50	0.50	7493051
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	<0.90	0.90	7493055	<0.90	0.90	7493051
Dissolved Iron (Fe)	ug/L	500	100	<100	<100	100	7493055	<100	100	7493051
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	7493055	<0.50	0.50	7493051
Dissolved Lithium (Li)	ug/L	24	5.0	59	59	5.0	7493055	18	5.0	7493051
Dissolved Magnesium (Mg)	ug/L	78000	50	66000	67000	50	7493055	55000	50	7493051
Dissolved Manganese (Mn)	ug/L	430	2.0	77	78	2.0	7493055	39	2.0	7493051
Dissolved Molybdenum (Mo)	ug/L	1.5	0.50	<0.50	<0.50	0.50	7493055	<0.50	0.50	7493051
Dissolved Nickel (Ni)	ug/L	3.1	1.0	<1.0	<1.0	1.0	7493055	<1.0	1.0	7493051
Dissolved Phosphorus (P)	ug/L	<100	100	<100	<100	100	7493055	<100	100	7493051
Dissolved Potassium (K)	ug/L	3600	200	20000	20000	200	7493055	1300	200	7493051
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	<2.0	2.0	7493055	<2.0	2.0	7493051
Dissolved Silicon (Si)	ug/L	6900	50	4200	4100	50	7493055	7600	50	7493051
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	<0.090	0.090	7493055	<0.090	0.090	7493051
Dissolved Sodium (Na)	ug/L	160000	100	400000	410000	100	7493055	30000	100	7493051
Dissolved Strontium (Sr)	ug/L	1500	1.0	8000	7900	1.0	7493055	840	1.0	7493051
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	7493055	<1.0	1.0	7493051
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	<0.050	0.050	7493055	<0.050	0.050	7493051
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	7493055	<1.0	1.0	7493051
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	7493055	<5.0	5.0	7493051
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	7493055	<1.0	1.0	7493051
Dissolved Uranium (U)	ug/L	2.9	0.10	0.24	0.23	0.10	7493055	0.97	0.10	7493051
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	7493055	<0.50	0.50	7493051
Dissolved Zinc (Zn)	ug/L	9.1	5.0	<5.0	<5.0	5.0	7493055	<5.0	5.0	7493051
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	7493055	<1.0	1.0	7493051
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFO041		QFO042	QFO042	QFO043		QFO044		
Sampling Date		2021/07/27		2021/07/27	2021/07/27	2021/07/27		2021/07/27		
COC Number		834487-02-01		834487-02-01	834487-02-01	834487-02-01		834487-02-01		
	UNITS	41-III	RDL	75-I	75-I Lab-Dup	75-II	RDL	75-III	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	<4.9	<4.9	<4.9	4.9	15	4.9	7493051
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Barium (Ba)	ug/L	54	2.0	12	11	22	2.0	7.3	2.0	7493051
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	<0.40	<0.40	0.40	<0.40	0.40	7493051
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Boron (B)	ug/L	110	10	1400	1400	630	10	400	10	7493051
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	<0.090	<0.090	0.090	<0.090	0.090	7493051
Dissolved Calcium (Ca)	ug/L	130000	200	740000	720000	240000	1000	230000	200	7493051
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7493051
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	<0.90	<0.90	0.90	<0.90	0.90	7493051
Dissolved Iron (Fe)	ug/L	790	100	<100	<100	<100	100	<100	100	7493051
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Lithium (Li)	ug/L	9.9	5.0	480	450	71	5.0	40	5.0	7493051
Dissolved Magnesium (Mg)	ug/L	62000	50	110000	120000	49000	50	100000	50	7493051
Dissolved Manganese (Mn)	ug/L	54	2.0	110	110	29	2.0	63	2.0	7493051
Dissolved Molybdenum (Mo)	ug/L	0.52	0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Nickel (Ni)	ug/L	2.6	1.0	<1.0	<1.0	<1.0	1.0	2.7	1.0	7493051
Dissolved Phosphorus (P)	ug/L	<100	100	<100	<100	<100	100	<100	100	7493051
Dissolved Potassium (K)	ug/L	1700	200	32000	32000	48000	200	14000	200	7493051
Dissolved Selenium (Se)	ug/L	<2.0	2.0	<2.0	<2.0	2.2	2.0	<2.0	2.0	7493051
Dissolved Silicon (Si)	ug/L	5400	50	3400	3500	6500	50	6100	50	7493051
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	<0.090	<0.090	0.090	<0.090	0.090	7493051
Dissolved Sodium (Na)	ug/L	50000	100	750000	760000	670000	500	270000	100	7493051
Dissolved Strontium (Sr)	ug/L	740	1.0	13000	13000	10000	1.0	3200	1.0	7493051
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	<0.050	<0.050	0.050	<0.050	0.050	7493051
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7493051
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
Dissolved Uranium (U)	ug/L	2.3	0.10	0.11	<0.10	<0.10	0.10	0.20	0.10	7493051
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	<0.50	<0.50	0.50	<0.50	0.50	7493051
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	<5.0	<5.0	5.0	<5.0	5.0	7493051
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	<1.0	<1.0	1.0	<1.0	1.0	7493051
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFO061		
Sampling Date		2021/07/27		
COC Number		834487-03-01		
	UNITS	4-I	RDL	QC Batch
Metals				
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	7493051
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7493051
Dissolved Arsenic (As)	ug/L	<1.0	1.0	7493051
Dissolved Barium (Ba)	ug/L	36	2.0	7493051
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7493051
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7493051
Dissolved Boron (B)	ug/L	110	10	7493051
Dissolved Cadmium (Cd)	ug/L	0.12	0.090	7493051
Dissolved Calcium (Ca)	ug/L	130000	200	7493051
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7493051
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7493051
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7493051
Dissolved Iron (Fe)	ug/L	120	100	7493051
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7493051
Dissolved Lithium (Li)	ug/L	8.7	5.0	7493051
Dissolved Magnesium (Mg)	ug/L	62000	50	7493051
Dissolved Manganese (Mn)	ug/L	43	2.0	7493051
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	7493051
Dissolved Nickel (Ni)	ug/L	1.2	1.0	7493051
Dissolved Phosphorus (P)	ug/L	<100	100	7493051
Dissolved Potassium (K)	ug/L	1600	200	7493051
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7493051
Dissolved Silicon (Si)	ug/L	5400	50	7493051
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7493051
Dissolved Sodium (Na)	ug/L	48000	100	7493051
Dissolved Strontium (Sr)	ug/L	710	1.0	7493051
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7493051
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7493051
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7493051
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7493051
Dissolved Tungsten (W)	ug/L	<1.0	1.0	7493051
Dissolved Uranium (U)	ug/L	2.2	0.10	7493051
Dissolved Vanadium (V)	ug/L	<0.50	0.50	7493051
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7493051
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7493051
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



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VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO002
Sample ID: P9-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO002 Dup
Sample ID: P9-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan

BV Labs ID: QFO003
Sample ID: P9-II
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493814	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493818	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493787	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7493234	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493792	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495611	2021/07/31	2021/08/03	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7491397	2021/07/29	2021/07/30	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7491363	N/A	2021/07/29	Nimarta Singh



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VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO004
Sample ID: P9-IIIR
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490562	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495611	2021/07/31	2021/08/03	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO004 Dup
Sample ID: P9-IIIR
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7495611	2021/07/31	2021/08/03	Shivani Desai

BV Labs ID: QFO005
Sample ID: 36-IR
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493814	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493818	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493787	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493792	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490562	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh



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BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO006
Sample ID: 36-IIR
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490562	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO007
Sample ID: 36-IIIR
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490562	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495611	2021/07/31	2021/08/03	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO008
Sample ID: 36-IVR
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk



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BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO008
Sample ID: 36-IVR
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490562	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO008 Dup
Sample ID: 36-IVR
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal

BV Labs ID: QFO009
Sample ID: 36-VR
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493055	N/A	2021/08/04	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7493234	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7491179	N/A	2021/07/29	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7491173	N/A	2021/07/30	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491397	2021/07/29	2021/07/30	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7491363	N/A	2021/07/29	Nimarta Singh

BV Labs ID: QFO010
Sample ID: 2-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai



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VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO010
Sample ID: 2-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO011
Sample ID: 2-II
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO035
Sample ID: 62-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7491179	N/A	2021/07/29	Chandra Nandlal



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BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO035
Sample ID: 62-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7491173	N/A	2021/07/30	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO035 Dup
Sample ID: 62-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai

BV Labs ID: QFO036
Sample ID: 62-II
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO037
Sample ID: 62-III
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7492403	N/A	2021/07/30	Fari Dehdezi



BUREAU
VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO037
Sample ID: 62-III
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7491179	N/A	2021/07/29	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7491173	N/A	2021/07/30	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO037 Dup
Sample ID: 62-III
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7491173	N/A	2021/07/30	Avneet Kour Sudan

BV Labs ID: QFO038
Sample ID: 62-IV
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493055	N/A	2021/08/04	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO038 Dup
Sample ID: 62-IV
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur

BV Labs ID: QFO039
Sample ID: 41-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493055	N/A	2021/08/04	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO039 Dup
Sample ID: 41-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7493055	N/A	2021/08/04	Prempal Bhatti

BV Labs ID: QFO040
Sample ID: 41-II
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan



BUREAU
VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO040
Sample ID: 41-II
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7495611	2021/07/31	2021/08/03	Shivani Desai
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO040 Dup
Sample ID: 41-II
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO041
Sample ID: 41-III
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO042
Sample ID: 75-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/05	Daniel Teclu



BUREAU
VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO042
Sample ID: 75-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO042 Dup
Sample ID: 75-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/05	Daniel Teclu

BV Labs ID: QFO043
Sample ID: 75-II
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493675	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493671	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493661	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/05	Daniel Teclu
Total Ammonia-N	LACH/NH4	7493234	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493677	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491397	2021/07/29	2021/07/30	Rajni Tyagi
Total Organic Carbon (TOC)	TOCV/NDIR	7491363	N/A	2021/07/29	Nimarta Singh

BV Labs ID: QFO043 Dup
Sample ID: 75-II
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7493234	N/A	2021/08/03	Amanpreet Sappal
Total Kjeldahl Nitrogen in Water	SKAL	7491397	2021/07/29	2021/07/30	Rajni Tyagi



BUREAU
VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO044
Sample ID: 75-III
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493814	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493818	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493787	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494189	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493792	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490562	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh

BV Labs ID: QFO044 Dup
Sample ID: 75-III
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494189	N/A	2021/08/03	Chandra Nandlal

BV Labs ID: QFO061
Sample ID: 4-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493814	N/A	2021/07/30	Surinder Rai
Anions	IC	7494165	N/A	2021/08/03	Fari Dehdezi
Conductivity	AT	7493818	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493787	2021/07/30	2021/07/30	Surinder Rai
Hardness (calculated as CaCO3)		7487957	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493051	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7491223	N/A	2021/08/03	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494181	N/A	2021/08/03	Chandra Nandlal
pH	AT	7493792	2021/07/30	2021/07/30	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7490955	N/A	2021/07/29	Deonarine Ramnarine
Orthophosphate	KONE	7494261	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7491199	2021/07/31	2021/08/03	Sandeep Kaur
Total Kjeldahl Nitrogen in Water	SKAL	7491225	2021/07/29	2021/07/30	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7491216	N/A	2021/07/30	Nimarta Singh



BUREAU
VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

Terrapure Environmental
Client Project #: GW
Sampler Initials: DT

TEST SUMMARY

BV Labs ID: QFO061 Dup
Sample ID: 4-I
Matrix: Water

Collected: 2021/07/27
Shipped:
Received: 2021/07/28

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7493814	N/A	2021/07/30	Surinder Rai
Conductivity	AT	7493818	N/A	2021/07/30	Surinder Rai
Fluoride	ISE	7493787	2021/07/30	2021/07/30	Surinder Rai
pH	AT	7493792	2021/07/30	2021/07/30	Surinder Rai



GENERAL COMMENTS

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

Package 1	3.7°C
Package 2	3.0°C
Package 3	3.0°C

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

Sample QFO005 [36-IR] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QFO006 [36-IIR] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QFO009 [36-VR] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QFO039 [41-I] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QFO042 [75-I] : 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 #: C1L1918
Report Date: 2021/08/06

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
7490562	Phenols-4AAP	2021/07/29	98	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20		
7490955	Phenols-4AAP	2021/07/29	100	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20		
7491173	Orthophosphate (P)	2021/07/30	113	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
7491179	Nitrate (N)	2021/07/29	86	80 - 120	90	80 - 120	<0.10	mg/L	NC	20		
7491179	Nitrite (N)	2021/07/29	108	80 - 120	111	80 - 120	<0.010	mg/L				
7491199	Total Dissolved Solids	2021/08/03					<10	mg/L	0.33	25	95	90 - 110
7491216	Total Organic Carbon (TOC)	2021/07/30	96	80 - 120	97	80 - 120	<0.40	mg/L	3.0	20		
7491223	Total Ammonia-N	2021/08/03	107	75 - 125	100	80 - 120	<0.050	mg/L	NC	20		
7491225	Total Kjeldahl Nitrogen (TKN)	2021/07/30	105	80 - 120	105	80 - 120	<0.10	mg/L	NC	20	110	80 - 120
7491363	Total Organic Carbon (TOC)	2021/07/29	94	80 - 120	94	80 - 120	<0.40	mg/L	0.93	20		
7491397	Total Kjeldahl Nitrogen (TKN)	2021/07/30	NC	80 - 120	101	80 - 120	<0.10	mg/L	1.9	20	101	80 - 120
7492403	Dissolved Bromide (Br-)	2021/07/30	104	80 - 120	104	80 - 120	<1.0	mg/L	NC	20		
7492403	Dissolved Chloride (Cl-)	2021/07/30	NC	80 - 120	100	70 - 130	<1.0	mg/L	7.2	20		
7492403	Dissolved Sulphate (SO4)	2021/07/30	NC	80 - 120	98	80 - 120	<1.0	mg/L	6.4	20		
7493051	Dissolved Aluminum (Al)	2021/08/05	97	80 - 120	99	80 - 120	<4.9	ug/L	NC	20		
7493051	Dissolved Antimony (Sb)	2021/08/05	100	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		
7493051	Dissolved Arsenic (As)	2021/08/05	102	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Barium (Ba)	2021/08/05	98	80 - 120	98	80 - 120	<2.0	ug/L	5.0	20		
7493051	Dissolved Beryllium (Be)	2021/08/05	87	80 - 120	92	80 - 120	<0.40	ug/L	NC	20		
7493051	Dissolved Bismuth (Bi)	2021/08/05	78 (1)	80 - 120	102	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Boron (B)	2021/08/05	NC	80 - 120	89	80 - 120	<10	ug/L	1.7	20		
7493051	Dissolved Cadmium (Cd)	2021/08/05	100	80 - 120	103	80 - 120	<0.090	ug/L	NC	20		
7493051	Dissolved Calcium (Ca)	2021/08/05	NC	80 - 120	97	80 - 120	<200	ug/L	2.0	20		
7493051	Dissolved Chromium (Cr)	2021/08/05	94	80 - 120	94	80 - 120	<5.0	ug/L	NC	20		
7493051	Dissolved Cobalt (Co)	2021/08/05	99	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7493051	Dissolved Copper (Cu)	2021/08/05	89	80 - 120	100	80 - 120	<0.90	ug/L	NC	20		
7493051	Dissolved Iron (Fe)	2021/08/05	98	80 - 120	98	80 - 120	<100	ug/L	NC	20		
7493051	Dissolved Lead (Pb)	2021/08/05	98	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		
7493051	Dissolved Lithium (Li)	2021/08/05	NC	80 - 120	102	80 - 120	<5.0	ug/L	5.2	20		
7493051	Dissolved Magnesium (Mg)	2021/08/05	NC	80 - 120	102	80 - 120	<50	ug/L	1.1	20		
7493051	Dissolved Manganese (Mn)	2021/08/05	99	80 - 120	99	80 - 120	<2.0	ug/L	2.8	20		



BUREAU
VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

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
7493051	Dissolved Molybdenum (Mo)	2021/08/05	101	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7493051	Dissolved Nickel (Ni)	2021/08/05	94	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Phosphorus (P)	2021/08/05	111	80 - 120	114	80 - 120	<100	ug/L	NC	20		
7493051	Dissolved Potassium (K)	2021/08/05	NC	80 - 120	100	80 - 120	<200	ug/L	0.49	20		
7493051	Dissolved Selenium (Se)	2021/08/05	55 (1)	80 - 120	101	80 - 120	<2.0	ug/L	NC	20		
7493051	Dissolved Silicon (Si)	2021/08/05	103	80 - 120	102	80 - 120	<50	ug/L	3.0	20		
7493051	Dissolved Silver (Ag)	2021/08/05	80	80 - 120	90	80 - 120	<0.090	ug/L	NC	20		
7493051	Dissolved Sodium (Na)	2021/08/05	NC	80 - 120	98	80 - 120	<100	ug/L	1.8	20		
7493051	Dissolved Strontium (Sr)	2021/08/05	NC	80 - 120	98	80 - 120	<1.0	ug/L	0.67	20		
7493051	Dissolved Tellurium (Te)	2021/08/05	79 (1)	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Thallium (Tl)	2021/08/05	100	80 - 120	105	80 - 120	<0.050	ug/L	NC	20		
7493051	Dissolved Tin (Sn)	2021/08/05	106	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Titanium (Ti)	2021/08/05	103	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
7493051	Dissolved Tungsten (W)	2021/08/05	103	80 - 120	105	80 - 120	<1.0	ug/L	NC	20		
7493051	Dissolved Uranium (U)	2021/08/05	100	80 - 120	102	80 - 120	<0.10	ug/L	10	20		
7493051	Dissolved Vanadium (V)	2021/08/05	98	80 - 120	96	80 - 120	<0.50	ug/L	NC	20		
7493051	Dissolved Zinc (Zn)	2021/08/05	94	80 - 120	101	80 - 120	<5.0	ug/L	NC	20		
7493051	Dissolved Zirconium (Zr)	2021/08/05	105	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7493055	Dissolved Aluminum (Al)	2021/08/04	104	80 - 120	103	80 - 120	<4.9	ug/L	NC	20		
7493055	Dissolved Antimony (Sb)	2021/08/04	107	80 - 120	103	80 - 120	<0.50	ug/L	NC	20		
7493055	Dissolved Arsenic (As)	2021/08/04	103	80 - 120	98	80 - 120	<1.0	ug/L	NC	20		
7493055	Dissolved Barium (Ba)	2021/08/04	102	80 - 120	100	80 - 120	<2.0	ug/L	0.36	20		
7493055	Dissolved Beryllium (Be)	2021/08/04	98	80 - 120	100	80 - 120	<0.40	ug/L	NC	20		
7493055	Dissolved Bismuth (Bi)	2021/08/04	93	80 - 120	101	80 - 120	<1.0	ug/L	NC	20		
7493055	Dissolved Boron (B)	2021/08/04	102	80 - 120	100	80 - 120	<10	ug/L	1.9	20		
7493055	Dissolved Cadmium (Cd)	2021/08/04	99	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7493055	Dissolved Calcium (Ca)	2021/08/04	NC	80 - 120	100	80 - 120	<200	ug/L	0.39	20		
7493055	Dissolved Chromium (Cr)	2021/08/04	100	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7493055	Dissolved Cobalt (Co)	2021/08/04	102	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7493055	Dissolved Copper (Cu)	2021/08/04	98	80 - 120	102	80 - 120	<0.90	ug/L	NC	20		
7493055	Dissolved Iron (Fe)	2021/08/04	99	80 - 120	99	80 - 120	<100	ug/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

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
7493055	Dissolved Lead (Pb)	2021/08/04	96	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7493055	Dissolved Lithium (Li)	2021/08/04	103	80 - 120	111	80 - 120	<5.0	ug/L	0.38	20		
7493055	Dissolved Magnesium (Mg)	2021/08/04	NC	80 - 120	100	80 - 120	<50	ug/L	2.0	20		
7493055	Dissolved Manganese (Mn)	2021/08/04	99	80 - 120	98	80 - 120	<2.0	ug/L	2.1	20		
7493055	Dissolved Molybdenum (Mo)	2021/08/04	107	80 - 120	101	80 - 120	<0.50	ug/L	NC	20		
7493055	Dissolved Nickel (Ni)	2021/08/04	97	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7493055	Dissolved Phosphorus (P)	2021/08/04	105	80 - 120	115	80 - 120	<100	ug/L	NC	20		
7493055	Dissolved Potassium (K)	2021/08/04	105	80 - 120	100	80 - 120	<200	ug/L	1.9	20		
7493055	Dissolved Selenium (Se)	2021/08/04	73 (2)	80 - 120	98	80 - 120	<2.0	ug/L	NC	20		
7493055	Dissolved Silicon (Si)	2021/08/04	106	80 - 120	102	80 - 120	<50	ug/L	0.54	20		
7493055	Dissolved Silver (Ag)	2021/08/04	51 (2)	80 - 120	96	80 - 120	<0.090	ug/L	NC	20		
7493055	Dissolved Sodium (Na)	2021/08/04	NC	80 - 120	99	80 - 120	<100	ug/L	1.7	20		
7493055	Dissolved Strontium (Sr)	2021/08/04	NC	80 - 120	99	80 - 120	<1.0	ug/L	1.2	20		
7493055	Dissolved Tellurium (Te)	2021/08/04	72 (2)	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7493055	Dissolved Thallium (Tl)	2021/08/04	98	80 - 120	100	80 - 120	<0.050	ug/L	NC	20		
7493055	Dissolved Tin (Sn)	2021/08/04	105	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7493055	Dissolved Titanium (Ti)	2021/08/04	104	80 - 120	100	80 - 120	<5.0	ug/L	NC	20		
7493055	Dissolved Tungsten (W)	2021/08/04	101	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7493055	Dissolved Uranium (U)	2021/08/04	103	80 - 120	103	80 - 120	<0.10	ug/L	3.8	20		
7493055	Dissolved Vanadium (V)	2021/08/04	103	80 - 120	98	80 - 120	<0.50	ug/L	NC	20		
7493055	Dissolved Zinc (Zn)	2021/08/04	95	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7493055	Dissolved Zirconium (Zr)	2021/08/04	110	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7493234	Total Ammonia-N	2021/08/03	NC	75 - 125	100	80 - 120	<0.050	mg/L	0.13	20		
7493661	Fluoride (F-)	2021/07/30	89	80 - 120	95	80 - 120	<0.10	mg/L	0.46	20		
7493671	Conductivity	2021/07/30			100	85 - 115	<1.0	umho/cm	0.13	25		
7493675	Alkalinity (Total as CaCO3)	2021/07/30			95	85 - 115	<1.0	mg/L	0.34	20		
7493677	pH	2021/07/30			101	98 - 103			0.17	N/A		
7493787	Fluoride (F-)	2021/07/30	103	80 - 120	95	80 - 120	<0.10	mg/L	5.6	20		
7493792	pH	2021/07/30			102	98 - 103			0.080	N/A		
7493814	Alkalinity (Total as CaCO3)	2021/07/30			97	85 - 115	<1.0	mg/L	0.012	20		



BUREAU
VERITAS

BV Labs Job #: C1L1918
Report Date: 2021/08/06

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
7493818	Conductivity	2021/07/30			100	85 - 115	<1.0	umho/cm	0.24	25		
7494165	Dissolved Bromide (Br-)	2021/08/03	107	80 - 120	103	80 - 120	<1.0	mg/L	NC	20		
7494165	Dissolved Chloride (Cl-)	2021/08/03	NC	80 - 120	100	70 - 130	<1.0	mg/L	6.7	20		
7494165	Dissolved Sulphate (SO4)	2021/08/03	NC	80 - 120	101	80 - 120	<1.0	mg/L	7.2	20		
7494181	Nitrate (N)	2021/08/03	104	80 - 120	103	80 - 120	<0.10	mg/L	NC	20		
7494181	Nitrite (N)	2021/08/03	106	80 - 120	106	80 - 120	<0.010	mg/L	NC	20		
7494189	Nitrate (N)	2021/08/03	100	80 - 120	102	80 - 120	<0.10	mg/L	NC	20		
7494189	Nitrite (N)	2021/08/03	104	80 - 120	106	80 - 120	<0.010	mg/L	NC	20		
7494261	Orthophosphate (P)	2021/08/04	110	75 - 125	101	80 - 120	<0.010	mg/L	NC	25		
7495611	Total Dissolved Solids	2021/08/03					<10	mg/L	0.20	25	102	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) "Matrix Spike exceeds acceptance limits, probable matrix interference".

(2) 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 #: C1L1918
Report Date: 2021/08/06

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:

Eva Pranjic


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

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CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name: #16786 Terrapure Environmental	Company Name: Brad Mullin - GHD Reporting	Quotation #: B60569	Company Name: Brad Mullin - GHD Reporting	Project Name: GW	Project Name: GW	BV Labs Job #:	Bottle Order #:
Attention: Accounting	Attention: Brad Mullin - GHD Reporting	P.O. #:	Address: 65 Green Mountain Rd West	Project: GW	Project: GW		
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address:	Project Name:	Tel: (905) 561-0305 Fax: (905) 561-1674	Site #:	Site #:	COC #:	Project Manager:
Email: kbailey@terrapureenv.com	Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com	Sampled By:					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)		T 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		Field Filtered (please circle): Metals / Hg / Cr / V	List "A" GW Monitoring	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 checked="" type="checkbox"/>	
<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"/> PWQO	Reg 406 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)?								Job Specific Rush TAT (if applies to entire submission)			
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix							
1	62-I	July 27 2021	NA	GW	Y	X			6		
2	62-II			GW	Y	X			6		
3	62-III			GW	Y	X			6		
4	62-IV			GW	Y	X			6		
5	41-I			GW	Y	X			6		
6	41-II			GW	Y	X			6		
7	41-III			GW	Y	X			6		
8	75-I			GW	Y	X			6		
9	75-II			GW	Y	X			6		
10	75-III			GW	Y	X			6		

* RELINQUISHED BY: (Signature/Print) D Taylor / Dan Taylor	Date: (YY/MM/DD) 21/07/21	Time 11:30	RECEIVED BY: (Signature/Print) See page 1	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only			
						Time Sensitive	Temperature (°C) on Reel	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.

** 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:	Attention: Brad Mullin - GHD Reporting	Attention:	Quotation #: B60569	Quotation #:	BV Labs Job #:	Bottle Order #:
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address:			P.O. #:	P.O. #:		
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel:			Project: GW	Project:	COC #:	Project Manager:
Email: kbailey@terrapureenv.com	Email: bmullin@terrapureenv.com; dtaylor2@terrapureenv.com			Project Name:	Project Name:		
				Site #:	Site #:		
				Sampled By:	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:						
Regulation 153 (2011)			Other Regulations			Special Instructions	Field Filtered (please circle)	Metals	Hg / Cr VI	List "A" GW Monitoring											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:		
<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"/> PWQO	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)?																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	List "A" GW Monitoring											# of Bottles	Comments		
1	4-I	July 27 2021	NA	GW	Y	X													6			
2				GW		X																
3				GW		X																
4				GW		X																
5				GW		X																
6				GW		X																
7				GW		X																
8				GW		X																
9				GW		X																
10				GW		X																

* 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				
Dan Taylor		21/07/23	11:30	See page - 1					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

Attention: Brad Mullin - GHD Reporting

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

Your C.O.C. #: 834487-04-01, 834487-05-01, 834487-06-01

Report Date: 2021/08/20
Report #: R6774985
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1L4129

Received: 2021/07/29, 16:05

Sample Matrix: Water
Samples Received: 29

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity	1	N/A	2021/08/11	CAM SOP-00448	SM 23 2320 B m
Alkalinity	2	N/A	2021/08/20	CAM SOP-00448	SM 23 2320 B m
Alkalinity	9	N/A	2021/08/03	CAM SOP-00448	SM 23 2320 B m
Alkalinity	17	N/A	2021/08/04	CAM SOP-00448	SM 23 2320 B m
Anions	3	N/A	2021/08/20	CAM SOP-00435	SM 23 4110 B m
Anions	26	N/A	2021/08/04	CAM SOP-00435	SM 23 4110 B m
Conductivity	9	N/A	2021/08/03	CAM SOP-00414	SM 23 2510 m
Conductivity	20	N/A	2021/08/04	CAM SOP-00414	SM 23 2510 m
Fluoride	9	2021/07/30	2021/08/03	CAM SOP-00449	SM 23 4500-F C m
Fluoride	19	2021/07/30	2021/08/04	CAM SOP-00449	SM 23 4500-F C m
Fluoride	1	2021/07/30	2021/08/05	CAM SOP-00449	SM 23 4500-F C m
Hardness (calculated as CaCO3)	9	N/A	2021/08/04	CAM SOP 00102/00408/00447	SM 2340 B
Hardness (calculated as CaCO3)	20	N/A	2021/08/05	CAM SOP 00102/00408/00447	SM 2340 B
Dissolved Metals by ICPMS	1	N/A	2021/08/13	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	2	N/A	2021/08/16	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	9	N/A	2021/08/04	CAM SOP-00447	EPA 6020B m
Dissolved Metals by ICPMS	17	N/A	2021/08/05	CAM SOP-00447	EPA 6020B m
Total Ammonia-N	29	N/A	2021/08/04	CAM SOP-00441	USGS I-2522-90 m
Nitrate (NO3) and Nitrite (NO2) in Water (1)	27	N/A	2021/08/03	CAM SOP-00440	SM 23 4500-NO3I/NO2B
Nitrate (NO3) and Nitrite (NO2) in Water (1)	2	N/A	2021/08/04	CAM SOP-00440	SM 23 4500-NO3I/NO2B
pH	9	2021/07/30	2021/08/03	CAM SOP-00413	SM 4500H+ B m
pH	20	2021/07/30	2021/08/04	CAM SOP-00413	SM 4500H+ B m
Phenols (4AAP)	19	N/A	2021/07/30	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	9	N/A	2021/08/03	CAM SOP-00444	OMOE E3179 m
Phenols (4AAP)	1	N/A	2021/08/04	CAM SOP-00444	OMOE E3179 m
Orthophosphate	9	N/A	2021/08/04	CAM SOP-00461	EPA 365.1 m



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. #: 834487-04-01, 834487-05-01, 834487-06-01

Report Date: 2021/08/20
Report #: R6774985
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C1L4129

Received: 2021/07/29, 16:05

Sample Matrix: Water
Samples Received: 29

Analyses	Date		Laboratory Method	Analytical Method
	Quantity	Extracted		
Orthophosphate	20	N/A	2021/08/05 CAM SOP-00461	EPA 365.1 m
Total Dissolved Solids	29	2021/08/03	2021/08/04 CAM SOP-00428	SM 23 2540C m
Total Kjeldahl Nitrogen in Water	1	2021/07/30	2021/08/03 CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	5	2021/07/30	2021/08/04 CAM SOP-00938	OMOE E3516 m
Total Kjeldahl Nitrogen in Water	23	2021/07/30	2021/08/05 CAM SOP-00938	OMOE E3516 m
Total Organic Carbon (TOC) (2)	29	N/A	2021/07/31 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



Bureau Veritas
20 Aug 2021 17:59:47

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 #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ364			QFZ365			QFZ365		
Sampling Date		2021/07/28			2021/07/28			2021/07/28		
COC Number		834487-04-01			834487-04-01			834487-04-01		
	UNITS	35-IV	RDL	QC Batch	P16	RDL	QC Batch	P16 Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	2000	1.0	7490721	600	1.0	7490721			
Inorganics										
Total Ammonia-N	mg/L	87	0.25	7493722	11	0.050	7494236			
Conductivity	umho/cm	14000	1.0	7494086	2700	1.0	7494086	2700	1.0	7494086
Total Dissolved Solids	mg/L	8600	20	7495524	1480	10	7495524			
Fluoride (F-)	mg/L	5.0	0.10	7494080	2.0	0.10	7494080	2.0	0.10	7494080
Total Kjeldahl Nitrogen (TKN)	mg/L	87	2.0	7493848	12	0.50	7493848			
Total Organic Carbon (TOC)	mg/L	18	0.40	7493517	13	0.40	7494260			
Orthophosphate (P)	mg/L	<0.010	0.010	7494241	<0.010	0.010	7494241			
pH	pH	8.96		7494087	7.77		7494087	7.79		7494087
Phenols-4AAP	mg/L	0.32	0.010	7493184	0.059	0.0010	7493500			
Alkalinity (Total as CaCO3)	mg/L	110	1.0	7494085	120	1.0	7494085	120	1.0	7494085
Nitrite (N)	mg/L	<0.010	0.010	7494189	<0.010	0.010	7494215			
Dissolved Chloride (Cl-)	mg/L	3700	50	7494172	560	5.0	7494172			
Nitrate (N)	mg/L	<0.10	0.10	7494189	<0.10	0.10	7494215			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494189	<0.10	0.10	7494215			
Dissolved Bromide (Br-)	mg/L	<50	50	7494172	<5.0	5.0	7494172			
Dissolved Sulphate (SO4)	mg/L	2300	50	7494172	320	5.0	7494172			

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



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ366			QFZ367			QFZ368		
Sampling Date		2021/07/28			2021/07/28			2021/07/28		
COC Number		834487-04-01			834487-04-01			834487-04-01		
	UNITS	P17	RDL	QC Batch	P12	RDL	QC Batch	P7 IR	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO ₃)	mg/L	49	1.0	7490721	250	1.0	7490721	2700	1.0	7490721
Inorganics										
Total Ammonia-N	mg/L	110	0.25	7493722	15	0.050	7494236	20	0.050	7493722
Conductivity	umho/cm	9000	1.0	7494086	2200	1.0	7494086	6800	1.0	7494086
Total Dissolved Solids	mg/L	4680	20	7493807	1170	10	7495524	5460	20	7495524
Fluoride (F ⁻)	mg/L	3.4	0.10	7494080	1.6	0.10	7494080	1.2	0.10	7494080
Total Kjeldahl Nitrogen (TKN)	mg/L	110	5.0	7493492	17	1.0	7493848	18	1.0	7493848
Total Organic Carbon (TOC)	mg/L	33	0.40	7493517	30	0.40	7494260	10	0.40	7493517
Orthophosphate (P)	mg/L	0.064	0.010	7494241	0.011	0.010	7494241	<0.010	0.010	7494241
pH	pH	9.56		7494087	10.7		7494087	8.64		7494087
Phenols-4AAP	mg/L	0.71	0.050	7493500	0.21	0.010	7493184	0.31	0.020	7493500
Alkalinity (Total as CaCO ₃)	mg/L	330	1.0	7494085	120	1.0	7494085	2.7	1.0	7531698
Nitrite (N)	mg/L	0.011	0.010	7494215	<0.010	0.010	7494189	<0.010	0.010	7494189
Dissolved Chloride (Cl ⁻)	mg/L	2300	20	7494172	300	5.0	7495625	1700	10	7530620
Nitrate (N)	mg/L	<0.10	0.10	7494215	<0.10	0.10	7494189	<0.10	0.10	7494189
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494215	<0.10	0.10	7494189	<0.10	0.10	7494189
Dissolved Bromide (Br ⁻)	mg/L	<20	20	7494172	<5.0	5.0	7495625	16	10	7530620
Dissolved Sulphate (SO ₄)	mg/L	250	20	7494172	440	5.0	7495625	870	10	7530620
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ369			QFZ369			QFZ370		
Sampling Date		2021/07/28			2021/07/28			2021/07/28		
COC Number		834487-04-01			834487-04-01			834487-04-01		
	UNITS	P7 II	RDL	QC Batch	P7 II Lab-Dup	RDL	QC Batch	P7 III	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	1700	1.0	7490721				790	1.0	7490721
Inorganics										
Total Ammonia-N	mg/L	22	0.050	7493722				35	0.25	7494236
Conductivity	umho/cm	5400	1.0	7494086				4500	1.0	7494086
Total Dissolved Solids	mg/L	3570	10	7493807				2220	10	7495524
Fluoride (F-)	mg/L	1.1	0.10	7494080				1.7	0.10	7494080
Total Kjeldahl Nitrogen (TKN)	mg/L	23	1.0	7493848	23	1.0	7493848	35	2.0	7493848
Total Organic Carbon (TOC)	mg/L	10	0.40	7493517				13	0.40	7494260
Orthophosphate (P)	mg/L	0.057	0.010	7494241				0.046	0.010	7494283
pH	pH	7.61		7494087				8.41		7494087
Phenols-4AAP	mg/L	0.17	0.010	7493184				0.26	0.020	7493500
Alkalinity (Total as CaCO3)	mg/L	82	1.0	7512902				73	1.0	7494085
Nitrite (N)	mg/L	<0.010	0.010	7494189				0.039	0.010	7494228
Dissolved Chloride (Cl-)	mg/L	950	10	7530620	990	10	7530620	700	10	7494172
Nitrate (N)	mg/L	<0.10	0.10	7494189				0.50	0.10	7494228
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494189				0.54	0.10	7494228
Dissolved Bromide (Br-)	mg/L	<10	10	7530620	<10	10	7530620	<10	10	7494172
Dissolved Sulphate (SO4)	mg/L	1400	10	7530620	1400	10	7530620	1100	10	7494172
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



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VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ371			QFZ372			QFZ372		
Sampling Date		2021/07/28			2021/07/28			2021/07/28		
COC Number		834487-04-01			834487-04-01			834487-04-01		
	UNITS	P7 IV	RDL	QC Batch	G27	RDL	QC Batch	G27 Lab-Dup	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	350	1.0	7490721	1100	1.0	7490721			
Inorganics										
Total Ammonia-N	mg/L	19	0.050	7494236	1.3	0.050	7493722			
Conductivity	umho/cm	1900	1.0	7494086	2500	1.0	7494123			
Total Dissolved Solids	mg/L	930	10	7493807	1910	10	7495524	1920	10	7495524
Fluoride (F-)	mg/L	1.7	0.10	7494080	1.8	0.10	7494104			
Total Kjeldahl Nitrogen (TKN)	mg/L	20	1.0	7493848	1.7	0.10	7493492			
Total Organic Carbon (TOC)	mg/L	17	0.40	7494260	6.4	0.40	7493517			
Orthophosphate (P)	mg/L	<0.010	0.010	7494283	0.010	0.010	7494283			
pH	pH	7.93		7494087	7.76		7494124			
Phenols-4AAP	mg/L	0.96	0.050	7493184	0.0024	0.0010	7493500			
Alkalinity (Total as CaCO3)	mg/L	48	1.0	7494085	92	1.0	7494114			
Nitrite (N)	mg/L	<0.010	0.010	7494215	<0.010	0.010	7494215			
Dissolved Chloride (Cl-)	mg/L	91	5.0	7494172	220	5.0	7494172			
Nitrate (N)	mg/L	<0.10	0.10	7494215	0.11	0.10	7494215			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494215	0.11	0.10	7494215			
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7494172	<5.0	5.0	7494172			
Dissolved Sulphate (SO4)	mg/L	480	5.0	7494172	850	5.0	7494172			

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



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ373			QFZ373			QFZ377		
Sampling Date		2021/07/28			2021/07/28			2021/07/28		
COC Number		834487-04-01			834487-04-01			834487-05-01		
	UNITS	40-I	RDL	QC Batch	40-I Lab-Dup	RDL	QC Batch	P8-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1700	1.0	7490721				2100	1.0	7490721
Inorganics										
Total Ammonia-N	mg/L	3.6	0.050	7493722				160	0.50	7494236
Conductivity	umho/cm	4200	1.0	7494123				18000	1.0	7494123
Total Dissolved Solids	mg/L	2670	10	7495524				10100	20	7493807
Fluoride (F-)	mg/L	1.2	0.10	7494104				3.5	0.10	7494104
Total Kjeldahl Nitrogen (TKN)	mg/L	3.7	0.50	7493492				150	5.0	7493848
Total Organic Carbon (TOC)	mg/L	3.5	0.40	7493517				23	0.40	7494260
Orthophosphate (P)	mg/L	<0.010	0.010	7494283				<0.010	0.010	7494283
pH	pH	7.65		7494124				7.23		7494124
Phenols-4AAP	mg/L	<0.0010	0.0010	7493500				0.0058	0.0010	7493500
Alkalinity (Total as CaCO3)	mg/L	210	1.0	7494114				360	1.0	7494114
Nitrite (N)	mg/L	0.075	0.010	7494228				0.029	0.010	7494228
Dissolved Chloride (Cl-)	mg/L	550	10	7495625	530	10	7495625	4100	50	7495625
Nitrate (N)	mg/L	0.67	0.10	7494228				<0.10	0.10	7494228
Nitrate + Nitrite (N)	mg/L	0.75	0.10	7494228				<0.10	0.10	7494228
Dissolved Bromide (Br-)	mg/L	<10	10	7495625	<10	10	7495625	<50	50	7495625
Dissolved Sulphate (SO4)	mg/L	1400	10	7495625	1400	10	7495625	1600	50	7495625

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



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VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ378			QFZ378			QFZ379		
Sampling Date		2021/07/28			2021/07/28			2021/07/28		
COC Number		834487-05-01			834487-05-01			834487-05-01		
	UNITS	P8-II	RDL	QC Batch	P8-II Lab-Dup	RDL	QC Batch	P11-II	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1200	1.0	7490721				770	1.0	7490721
Inorganics										
Total Ammonia-N	mg/L	0.58	0.050	7494236				0.56	0.050	7494236
Conductivity	umho/cm	2600	1.0	7494123	2600	1.0	7494123	1700	1.0	7494086
Total Dissolved Solids	mg/L	1760	10	7493807				1070	10	7493807
Fluoride (F-)	mg/L	1.5	0.10	7494104	1.5	0.10	7494104	0.51	0.10	7494080
Total Kjeldahl Nitrogen (TKN)	mg/L	0.79	0.10	7493848				0.68	0.10	7493848
Total Organic Carbon (TOC)	mg/L	4.1	0.40	7494260				1.3	0.40	7494260
Orthophosphate (P)	mg/L	<0.010	0.010	7494283				<0.010	0.010	7494283
pH	pH	7.70		7494124	7.72		7494124	8.25		7494087
Phenols-4AAP	mg/L	0.0018	0.0010	7493500				<0.0010	0.0010	7493500
Alkalinity (Total as CaCO3)	mg/L	170	1.0	7494114	170	1.0	7494114	310	1.0	7494085
Nitrite (N)	mg/L	<0.010	0.010	7494215				<0.010	0.010	7494215
Dissolved Chloride (Cl-)	mg/L	170	5.0	7494172				180	5.0	7494172
Nitrate (N)	mg/L	0.19	0.10	7494215				<0.10	0.10	7494215
Nitrate + Nitrite (N)	mg/L	0.19	0.10	7494215				<0.10	0.10	7494215
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7494172				<5.0	5.0	7494172
Dissolved Sulphate (SO4)	mg/L	950	5.0	7494172				290	5.0	7494172

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



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VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ380			QFZ380			QFZ381		
Sampling Date		2021/07/28			2021/07/28			2021/07/28		
COC Number		834487-05-01			834487-05-01			834487-05-01		
	UNITS	14-I	RDL	QC Batch	14-I Lab-Dup	RDL	QC Batch	44-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	900	1.0	7490721				1300	1.0	7490721
Inorganics										
Total Ammonia-N	mg/L	0.059	0.050	7494236	<0.050	0.050	7494236	2.7	0.050	7494236
Conductivity	umho/cm	1600	1.0	7494123				3100	1.0	7494123
Total Dissolved Solids	mg/L	1250	10	7493807				2080	10	7493807
Fluoride (F-)	mg/L	0.30	0.10	7494104				0.63	0.10	7494104
Total Kjeldahl Nitrogen (TKN)	mg/L	0.22	0.10	7493848				3.0	0.10	7493848
Total Organic Carbon (TOC)	mg/L	1.5	0.40	7494260				2.2	0.40	7494260
Orthophosphate (P)	mg/L	0.010	0.010	7494283				0.014	0.010	7494283
pH	pH	7.82		7494124				7.76		7494124
Phenols-4AAP	mg/L	<0.0010	0.0010	7493184				0.0032	0.0010	7493184
Alkalinity (Total as CaCO3)	mg/L	410	1.0	7494114				350	1.0	7494114
Nitrite (N)	mg/L	<0.010	0.010	7494215				<0.010	0.010	7494228
Dissolved Chloride (Cl-)	mg/L	92	1.0	7495625				340	5.0	7495625
Nitrate (N)	mg/L	<0.10	0.10	7494215				<0.10	0.10	7494228
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494215				<0.10	0.10	7494228
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7495625				<5.0	5.0	7495625
Dissolved Sulphate (SO4)	mg/L	410	1.0	7495625				840	5.0	7495625

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



RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ381			QFZ382			QFZ382		
Sampling Date		2021/07/28			2021/07/28			2021/07/28		
COC Number		834487-05-01			834487-05-01			834487-05-01		
	UNITS	44-I Lab-Dup	RDL	QC Batch	44-II	RDL	QC Batch	44-II Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				510	1.0	7490721			
Inorganics										
Total Ammonia-N	mg/L				<0.050	0.050	7494236			
Conductivity	umho/cm				970	1.0	7494123			
Total Dissolved Solids	mg/L				575	10	7493807	545	10	7493807
Fluoride (F-)	mg/L				0.25	0.10	7494104			
Total Kjeldahl Nitrogen (TKN)	mg/L				<0.10	0.10	7494243			
Total Organic Carbon (TOC)	mg/L				1.0	0.40	7494260			
Orthophosphate (P)	mg/L				<0.010	0.010	7494283			
pH	pH				7.75		7494124			
Phenols-4AAP	mg/L				<0.0010	0.0010	7493184			
Alkalinity (Total as CaCO3)	mg/L				380	1.0	7494114			
Nitrite (N)	mg/L	<0.010	0.010	7494228	<0.010	0.010	7494189			
Dissolved Chloride (Cl-)	mg/L				23	1.0	7495625			
Nitrate (N)	mg/L	<0.10	0.10	7494228	<0.10	0.10	7494189			
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494228	<0.10	0.10	7494189			
Dissolved Bromide (Br-)	mg/L				<1.0	1.0	7495625			
Dissolved Sulphate (SO4)	mg/L				130	1.0	7495625			
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate										



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ383		QFZ384			QFZ385		
Sampling Date		2021/07/28		2021/07/28			2021/07/28		
COC Number		834487-05-01		834487-05-01			834487-05-01		
	UNITS	45-I	QC Batch	45-II	RDL	QC Batch	76-I	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	430	7490721	470	1.0	7492497	36000	1.0	7492497
Inorganics									
Total Ammonia-N	mg/L	0.17	7494236	0.13	0.050	7494236	34	0.25	7494236
Conductivity	umho/cm	840	7494086	1100	1.0	7494086	>100000	1.0	7494123
Total Dissolved Solids	mg/L	480	7493807	605	10	7493807	81800	20	7493807
Fluoride (F-)	mg/L	0.26	7494080	0.27	0.10	7494080	0.21	0.10	7494104
Total Kjeldahl Nitrogen (TKN)	mg/L	0.22	7493848	0.24	0.10	7493848	35	1.0	7493848
Total Organic Carbon (TOC)	mg/L	0.99	7494260	1.6	0.40	7494260	8.8	0.40	7494260
Orthophosphate (P)	mg/L	<0.010	7494283	<0.010	0.010	7494283	<0.010	0.010	7494283
pH	pH	8.32	7494087	8.32		7494087	6.81		7494124
Phenols-4AAP	mg/L	0.0038	7493500	<0.0010	0.0010	7493500	0.016	0.010	7493500
Alkalinity (Total as CaCO3)	mg/L	300	7494085	300	1.0	7494085	120	1.0	7494114
Nitrite (N)	mg/L	<0.010	7494215	<0.010	0.010	7494228	<0.10	0.10	7494228
Dissolved Chloride (Cl-)	mg/L	42	7494172	140	1.0	7494172	50000	500	7495625
Nitrate (N)	mg/L	<0.10	7494215	<0.10	0.10	7494228	<1.0	1.0	7494228
Nitrate + Nitrite (N)	mg/L	<0.10	7494215	<0.10	0.10	7494228	<1.0	1.0	7494228
Dissolved Bromide (Br-)	mg/L	<1.0	7494172	<1.0	1.0	7494172	540	500	7495625
Dissolved Sulphate (SO4)	mg/L	99	7494172	99	1.0	7494172	1000	500	7495625
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ386		QFZ387			QFZ388		
Sampling Date		2021/07/28		2021/07/28			2021/07/28		
COC Number		834487-05-01		834487-06-01			834487-06-01		
	UNITS	76-II	QC Batch	76-III	RDL	QC Batch	67-I	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO ₃)	mg/L	780	7492497	660	1.0	7490721	1500	1.0	7490721
Inorganics									
Total Ammonia-N	mg/L	<0.050	7493722	<0.050	0.050	7493722	39	0.25	7493722
Conductivity	umho/cm	2900	7494123	2200	1.0	7494086	6200	1.0	7494086
Total Dissolved Solids	mg/L	1620	7493807	1220	10	7495524	3740	10	7493807
Fluoride (F ⁻)	mg/L	0.25	7494104	0.27	0.10	7494080	1.2	0.10	7494080
Total Kjeldahl Nitrogen (TKN)	mg/L	0.21	7493492	0.16	0.10	7493492	36	2.0	7493492
Total Organic Carbon (TOC)	mg/L	3.3	7493517	3.3	0.40	7493517	7.1	0.40	7493517
Orthophosphate (P)	mg/L	<0.010	7494283	<0.010	0.010	7494283	<0.010	0.010	7494241
pH	pH	7.67	7494124	8.15		7494087	7.72		7494087
Phenols-4AAP	mg/L	<0.0010	7493500	<0.0010	0.0010	7493500	<0.0010	0.0010	7493500
Alkalinity (Total as CaCO ₃)	mg/L	520	7494114	510	1.0	7494085	160	1.0	7494085
Nitrite (N)	mg/L	<0.010	7494228	<0.010	0.010	7494215	<0.010	0.010	7494215
Dissolved Chloride (Cl ⁻)	mg/L	380	7495625	230	5.0	7494172	1200	10	7494172
Nitrate (N)	mg/L	<0.10	7494228	<0.10	0.10	7494215	<0.10	0.10	7494215
Nitrate + Nitrite (N)	mg/L	<0.10	7494228	<0.10	0.10	7494215	<0.10	0.10	7494215
Dissolved Bromide (Br ⁻)	mg/L	<5.0	7495625	<5.0	5.0	7494172	<10	10	7494172
Dissolved Sulphate (SO ₄)	mg/L	350	7495625	290	5.0	7494172	1300	10	7494172
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ389			QFZ390			QFZ391		
Sampling Date		2021/07/28			2021/07/28			2021/07/28		
COC Number		834487-06-01			834487-06-01			834487-06-01		
	UNITS	4-II	RDL	QC Batch	3-II	RDL	QC Batch	46-IR	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	1400	1.0	7490721	1600	1.0	7490721	1800	1.0	7490721
Inorganics										
Total Ammonia-N	mg/L	39	0.25	7494236	3.5	0.050	7494236	35	0.25	7493722
Conductivity	umho/cm	6200	1.0	7494086	4300	1.0	7494086	7200	1.0	7494086
Total Dissolved Solids	mg/L	3600	10	7493807	2820	10	7495524	4900	20	7493807
Fluoride (F-)	mg/L	1.3	0.10	7494080	1.2	0.10	7494080	1.3	0.10	7494080
Total Kjeldahl Nitrogen (TKN)	mg/L	34	2.0	7493848	3.9	0.20	7493848	31	2.0	7493848
Total Organic Carbon (TOC)	mg/L	7.1	0.40	7494260	3.4	0.40	7494260	7.8	0.40	7493517
Orthophosphate (P)	mg/L	<0.010	0.010	7494241	<0.010	0.010	7494283	<0.010	0.010	7494283
pH	pH	7.72		7494087	8.12		7494087	8.03		7494087
Phenols-4AAP	mg/L	0.0011	0.0010	7493184	<0.0010	0.0010	7493500	<0.0010	0.0010	7493500
Alkalinity (Total as CaCO3)	mg/L	160	1.0	7494085	210	1.0	7494085	130	1.0	7494085
Nitrite (N)	mg/L	<0.010	0.010	7494215	0.093	0.010	7494215	<0.010	0.010	7494215
Dissolved Chloride (Cl-)	mg/L	1200	10	7494172	510	10	7494172	1500	10	7494172
Nitrate (N)	mg/L	<0.10	0.10	7494215	0.76	0.10	7494215	<0.10	0.10	7494215
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494215	0.85	0.10	7494215	<0.10	0.10	7494215
Dissolved Bromide (Br-)	mg/L	<10	10	7494172	<10	10	7494172	<10	10	7494172
Dissolved Sulphate (SO4)	mg/L	1300	10	7494172	1300	10	7494172	1800	10	7494172

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ392			QFZ392			QFZ393		
Sampling Date		2021/07/28			2021/07/28			2021/07/28		
COC Number		834487-06-01			834487-06-01			834487-06-01		
	UNITS	46-IIR	RDL	QC Batch	46-IIR Lab-Dup	RDL	QC Batch	46-IIIR	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	970	1.0	7490721				870	1.0	7490721
Inorganics										
Total Ammonia-N	mg/L	0.28	0.050	7494236				<0.050	0.050	7493722
Conductivity	umho/cm	2600	1.0	7494086				2100	1.0	7494086
Total Dissolved Solids	mg/L	1620	10	7493807				1300	10	7495524
Fluoride (F-)	mg/L	0.44	0.10	7494080				0.20	0.10	7494080
Total Kjeldahl Nitrogen (TKN)	mg/L	0.48	0.10	7493848				0.52	0.10	7493492
Total Organic Carbon (TOC)	mg/L	3.2	0.40	7494260				7.8	0.40	7493517
Orthophosphate (P)	mg/L	<0.010	0.010	7494283				0.010	0.010	7494283
pH	pH	7.81		7494087				8.15		7494087
Phenols-4AAP	mg/L	<0.0010	0.0010	7493184				<0.0010	0.0010	7493500
Alkalinity (Total as CaCO3)	mg/L	190	1.0	7494085				370	1.0	7494085
Nitrite (N)	mg/L	<0.010	0.010	7494215				<0.010	0.010	7494215
Dissolved Chloride (Cl-)	mg/L	390	5.0	7494172	410	5.0	7494172	180	5.0	7494172
Nitrate (N)	mg/L	<0.10	0.10	7494215				<0.10	0.10	7494215
Nitrate + Nitrite (N)	mg/L	<0.10	0.10	7494215				<0.10	0.10	7494215
Dissolved Bromide (Br-)	mg/L	<5.0	5.0	7494172	<5.0	5.0	7494172	<5.0	5.0	7494172
Dissolved Sulphate (SO4)	mg/L	610	5.0	7494172	620	5.0	7494172	430	5.0	7494172

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



RESULTS OF ANALYSES OF WATER

BV Labs ID		QFZ394			QFZ394			QFZ395		
Sampling Date		2021/07/28			2021/07/28			2021/07/28		
COC Number		834487-06-01			834487-06-01			834487-06-01		
	UNITS	31-II	RDL	QC Batch	31-II Lab-Dup	RDL	QC Batch	58-I	RDL	QC Batch

Calculated Parameters										
Hardness (CaCO3)	mg/L	150	1.0	7490721				130	1.0	7490721
Inorganics										
Total Ammonia-N	mg/L	0.36	0.050	7493722				79	0.25	7493722
Conductivity	umho/cm	360	1.0	7494086				6500	1.0	7494086
Total Dissolved Solids	mg/L	250	10	7493807				3660	20	7495524
Fluoride (F-)	mg/L	0.53	0.10	7494080				9.4	0.50	7494080
Total Kjeldahl Nitrogen (TKN)	mg/L	0.76	0.10	7493848				86	5.0	7493492
Total Organic Carbon (TOC)	mg/L	6.5	0.40	7494260	6.6	0.40	7494260	320	2.0	7493517
Orthophosphate (P)	mg/L	<0.010	0.010	7494241				<0.10 (1)	0.10	7494283
pH	pH	9.77		7494087				11.1		7494087
Phenols-4AAP	mg/L	0.0017	0.0010	7493500	0.0013	0.0010	7493500	5.5	0.20	7493184
Alkalinity (Total as CaCO3)	mg/L	21	1.0	7531698				620	1.0	7494085
Nitrite (N)	mg/L	0.298	0.010	7494215				<0.010	0.010	7494215
Dissolved Chloride (Cl-)	mg/L	27	1.0	7530620				1200	10	7494172
Nitrate (N)	mg/L	0.47	0.10	7494215				<0.10	0.10	7494215
Nitrate + Nitrite (N)	mg/L	0.77	0.10	7494215				<0.10	0.10	7494215
Dissolved Bromide (Br-)	mg/L	<1.0	1.0	7530620				12	10	7494172
Dissolved Sulphate (SO4)	mg/L	62	1.0	7530620				280	10	7494172

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

BV Labs ID		QFZ395		
Sampling Date		2021/07/28		
COC Number		834487-06-01		
	UNITS	58-I Lab-Dup	RDL	QC Batch
Inorganics				
Orthophosphate (P)	mg/L	<0.10	0.10	7494283
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate				



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VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFZ364	QFZ364		QFZ365		QFZ366		
Sampling Date		2021/07/28	2021/07/28		2021/07/28		2021/07/28		
COC Number		834487-04-01	834487-04-01		834487-04-01		834487-04-01		
	UNITS	35-IV	35-IV Lab-Dup	RDL	P16	RDL	P17	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	10	10	4.9	<4.9	4.9	87	4.9	7494191
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7494191
Dissolved Arsenic (As)	ug/L	3.3	3.3	1.0	<1.0	1.0	2.6	1.0	7494191
Dissolved Barium (Ba)	ug/L	12	12	2.0	10	2.0	8.4	2.0	7494191
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7494191
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7494191
Dissolved Boron (B)	ug/L	1700	1700	10	430	10	440	10	7494191
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7494191
Dissolved Calcium (Ca)	ug/L	740000	750000	1000	140000	200	14000	200	7494191
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7494191
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7494191
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	<0.90	0.90	<0.90	0.90	7494191
Dissolved Iron (Fe)	ug/L	<100	<100	100	<100	100	<100	100	7494191
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7494191
Dissolved Lithium (Li)	ug/L	360	360	5.0	30	5.0	27	5.0	7494191
Dissolved Magnesium (Mg)	ug/L	37000	38000	50	60000	50	3700	50	7494191
Dissolved Manganese (Mn)	ug/L	17	17	2.0	33	2.0	<2.0	2.0	7494191
Dissolved Molybdenum (Mo)	ug/L	30	30	0.50	1.8	0.50	42	0.50	7494191
Dissolved Nickel (Ni)	ug/L	8.4	8.6	1.0	2.3	1.0	18	1.0	7494191
Dissolved Phosphorus (P)	ug/L	110	110	100	<100	100	210	100	7494191
Dissolved Potassium (K)	ug/L	110000	110000	200	35000	200	120000	200	7494191
Dissolved Selenium (Se)	ug/L	2.9	3.6	2.0	<2.0	2.0	3.2	2.0	7494191
Dissolved Silicon (Si)	ug/L	3300	3500	50	4700	50	7000	50	7494191
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7494191
Dissolved Sodium (Na)	ug/L	2400000	2400000	500	310000	100	1800000	500	7494191
Dissolved Strontium (Sr)	ug/L	6900	6900	1.0	1900	1.0	1000	1.0	7494191
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7494191
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	<0.050	0.050	<0.050	0.050	7494191
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7494191
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7494191
Dissolved Tungsten (W)	ug/L	11	11	1.0	2.7	1.0	21	1.0	7494191
Dissolved Uranium (U)	ug/L	<0.10	<0.10	0.10	<0.10	0.10	<0.10	0.10	7494191
Dissolved Vanadium (V)	ug/L	1.5	1.5	0.50	<0.50	0.50	1.1	0.50	7494191
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7494191
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7494191
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFZ367			QFZ368		QFZ369		
Sampling Date		2021/07/28			2021/07/28		2021/07/28		
COC Number		834487-04-01			834487-04-01		834487-04-01		
	UNITS	P12	RDL	QC Batch	P7 IR	RDL	P7 II	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	8.5	4.9	7494191	<4.9	4.9	5.3	4.9	7512755
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	7494191	<0.50	0.50	<0.50	0.50	7512755
Dissolved Arsenic (As)	ug/L	3.9	1.0	7494191	6.6	1.0	<1.0	1.0	7512755
Dissolved Barium (Ba)	ug/L	41	2.0	7494191	74	2.0	30	2.0	7512755
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7494191	<0.40	0.40	<0.40	0.40	7512755
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7494191	<1.0	1.0	<1.0	1.0	7512755
Dissolved Boron (B)	ug/L	200	10	7494191	1100	10	550	10	7512755
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	7494191	<0.090	0.090	<0.090	0.090	7512755
Dissolved Calcium (Ca)	ug/L	100000	200	7494191	850000	1000	590000	1000	7512755
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7494191	<5.0	5.0	<5.0	5.0	7512755
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	7494191	<0.50	0.50	<0.50	0.50	7512755
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7494191	<0.90	0.90	<0.90	0.90	7512755
Dissolved Iron (Fe)	ug/L	<100	100	7494191	<100	100	<100	100	7512755
Dissolved Lead (Pb)	ug/L	<0.50	0.50	7494191	<0.50	0.50	<0.50	0.50	7512755
Dissolved Lithium (Li)	ug/L	29	5.0	7494191	810	25	57	5.0	7512755
Dissolved Magnesium (Mg)	ug/L	810	50	7494191	140000	50	52000	50	7512755
Dissolved Manganese (Mn)	ug/L	<2.0	2.0	7494191	16	2.0	11	2.0	7512755
Dissolved Molybdenum (Mo)	ug/L	40	0.50	7494191	7.2	0.50	7.1	0.50	7512755
Dissolved Nickel (Ni)	ug/L	9.8	1.0	7494191	5.0	1.0	3.7	1.0	7512755
Dissolved Phosphorus (P)	ug/L	<100	100	7494191	<100	100	160	100	7512755
Dissolved Potassium (K)	ug/L	90000	200	7494191	110000	200	67000	200	7512755
Dissolved Selenium (Se)	ug/L	2.6	2.0	7494191	31 (1)	2.0	9.5 (1)	2.0	7512755
Dissolved Silicon (Si)	ug/L	11000	50	7494191	6900	50	9600	50	7512755
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7494191	<0.090	0.090	<0.090	0.090	7512755
Dissolved Sodium (Na)	ug/L	320000	100	7494191	950000	500	560000	500	7512755
Dissolved Strontium (Sr)	ug/L	1700	1.0	7494191	11000	1.0	5200	1.0	7512755
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7494191	<1.0	1.0	<1.0	1.0	7512755
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7494191	<0.050	0.050	<0.050	0.050	7512755
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7494191	<1.0	1.0	<1.0	1.0	7512755
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7494191	<5.0	5.0	<5.0	5.0	7512755
Dissolved Tungsten (W)	ug/L	14	1.0	7494191	5.0	1.0	3.7	1.0	7512755
Dissolved Uranium (U)	ug/L	<0.10	0.10	7494191	0.98	0.10	<0.10	0.10	7512755
Dissolved Vanadium (V)	ug/L	0.85	0.50	7494191	3.1	0.50	0.83	0.50	7512755
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	7494191	<5.0	5.0	<5.0	5.0	7512755
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7494191	<1.0	1.0	<1.0	1.0	7512755
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
(1) Selenium values exhibit unusually high variance, possibly due to losses of volatile Se compounds.									



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFZ370		QFZ371	QFZ372		QFZ373		QFZ377		
Sampling Date		2021/07/28		2021/07/28	2021/07/28		2021/07/28		2021/07/28		
COC Number		834487-04-01		834487-04-01	834487-04-01		834487-04-01		834487-05-01		
	UNITS	P7 III	RDL	P7 IV	G27	RDL	40-I	RDL	P8-I	RDL	QC Batch

Metals											
Dissolved Aluminum (Al)	ug/L	18	4.9	27	230	4.9	5.1	4.9	77	25	7494191
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	<0.50	0.50	<0.50	0.50	<2.5	2.5	7494191
Dissolved Arsenic (As)	ug/L	1.3	1.0	1.8	1.3	1.0	<1.0	1.0	<5.0	5.0	7494191
Dissolved Barium (Ba)	ug/L	49	2.0	6.0	66	2.0	16	2.0	47	10	7494191
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	<0.40	0.40	<0.40	0.40	<2.0	2.0	7494191
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	<5.0	5.0	7494191
Dissolved Boron (B)	ug/L	860	10	710	180	10	1100	10	2200	50	7494191
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	<0.090	0.090	0.091	0.090	<0.45	0.45	7494191
Dissolved Calcium (Ca)	ug/L	270000	200	110000	370000	200	520000	1000	650000	1000	7494191
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	<5.0	5.0	<5.0	5.0	<25	25	7494191
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.69	0.50	<0.50	0.50	<2.5	2.5	7494191
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	<0.90	0.90	<0.90	0.90	<4.5	4.5	7494191
Dissolved Iron (Fe)	ug/L	<100	100	<100	350	100	250	100	3800	500	7494191
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.80	0.50	0.54	0.50	<2.5	2.5	7494191
Dissolved Lithium (Li)	ug/L	72	5.0	34	26	5.0	120	5.0	240	25	7494191
Dissolved Magnesium (Mg)	ug/L	29000	50	15000	48000	50	96000	50	110000	250	7494191
Dissolved Manganese (Mn)	ug/L	4.2	2.0	5.8	89	2.0	97	2.0	970	10	7494191
Dissolved Molybdenum (Mo)	ug/L	9.1	0.50	72	17	0.50	1.8	0.50	<2.5	2.5	7494191
Dissolved Nickel (Ni)	ug/L	6.8	1.0	15	4.1	1.0	2.2	1.0	<5.0	5.0	7494191
Dissolved Phosphorus (P)	ug/L	130	100	<100	<100	100	<100	100	<500	500	7494191
Dissolved Potassium (K)	ug/L	62000	200	55000	13000	200	29000	200	140000	1000	7494191
Dissolved Selenium (Se)	ug/L	2.5	2.0	<2.0	<2.0	2.0	<2.0	2.0	<10	10	7494191
Dissolved Silicon (Si)	ug/L	5700	50	10000	3700	50	4700	50	23000	250	7494191
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	<0.090	0.090	<0.090	0.090	<0.45	0.45	7494191
Dissolved Sodium (Na)	ug/L	590000	500	200000	160000	100	370000	100	2900000	500	7494191
Dissolved Strontium (Sr)	ug/L	3300	1.0	1700	2700	1.0	4900	1.0	5700	5.0	7494191
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	<5.0	5.0	7494191
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.098	0.050	<0.050	0.050	<0.25	0.25	7494191
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	<5.0	5.0	7494191
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	6.9	5.0	<5.0	5.0	<25	25	7494191
Dissolved Tungsten (W)	ug/L	7.1	1.0	13	1.5	1.0	<1.0	1.0	<5.0	5.0	7494191
Dissolved Uranium (U)	ug/L	0.20	0.10	<0.10	3.0	0.10	0.59	0.10	<0.50	0.50	7494191
Dissolved Vanadium (V)	ug/L	0.85	0.50	1.4	0.61	0.50	<0.50	0.50	4.0	2.5	7494191
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	38	5.0	5.1	5.0	<25	25	7494191
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	<1.0	1.0	<1.0	1.0	<5.0	5.0	7494191

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch



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VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFZ378	QFZ379	QFZ380		QFZ381		QFZ382		
Sampling Date		2021/07/28	2021/07/28	2021/07/28		2021/07/28		2021/07/28		
COC Number		834487-05-01	834487-05-01	834487-05-01		834487-05-01		834487-05-01		
	UNITS	P8-II	P11-II	14-I	RDL	44-I	RDL	44-II	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	14	<4.9	6.6	4.9	<4.9	4.9	<4.9	4.9	7494191
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7494191
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	1.0	1.4	1.0	7494191
Dissolved Barium (Ba)	ug/L	32	11	12	2.0	19	2.0	43	2.0	7494191
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7494191
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7494191
Dissolved Boron (B)	ug/L	130	330	100	10	280	10	41	10	7494191
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.24	0.090	<0.090	0.090	<0.090	0.090	7494191
Dissolved Calcium (Ca)	ug/L	330000	190000	140000	200	440000	1000	120000	200	7494191
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7494191
Dissolved Cobalt (Co)	ug/L	3.1	<0.50	3.0	0.50	<0.50	0.50	<0.50	0.50	7494191
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	<0.90	0.90	<0.90	0.90	<0.90	0.90	7494191
Dissolved Iron (Fe)	ug/L	690	<100	160	100	<100	100	300	100	7494191
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.67	0.50	<0.50	0.50	<0.50	0.50	7494191
Dissolved Lithium (Li)	ug/L	29	79	86	5.0	73	5.0	33	5.0	7494191
Dissolved Magnesium (Mg)	ug/L	77000	70000	130000	50	52000	50	53000	50	7494191
Dissolved Manganese (Mn)	ug/L	230	65	100	2.0	44	2.0	35	2.0	7494191
Dissolved Molybdenum (Mo)	ug/L	13	<0.50	0.82	0.50	<0.50	0.50	0.72	0.50	7494191
Dissolved Nickel (Ni)	ug/L	8.5	<1.0	3.0	1.0	<1.0	1.0	<1.0	1.0	7494191
Dissolved Phosphorus (P)	ug/L	<100	<100	<100	100	<100	100	<100	100	7494191
Dissolved Potassium (K)	ug/L	5600	9300	4000	200	13000	200	2400	200	7494191
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	<2.0	2.0	<2.0	2.0	<2.0	2.0	7494191
Dissolved Silicon (Si)	ug/L	3700	4300	7400	50	3900	50	7600	50	7494191
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7494191
Dissolved Sodium (Na)	ug/L	130000	92000	36000	100	260000	100	22000	100	7494191
Dissolved Strontium (Sr)	ug/L	2700	4800	2300	1.0	11000	1.0	860	1.0	7494191
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7494191
Dissolved Thallium (Tl)	ug/L	0.23	<0.050	<0.050	0.050	<0.050	0.050	<0.050	0.050	7494191
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7494191
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7494191
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7494191
Dissolved Uranium (U)	ug/L	6.1	<0.10	10	0.10	<0.10	0.10	2.8	0.10	7494191
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7494191
Dissolved Zinc (Zn)	ug/L	220	<5.0	12	5.0	<5.0	5.0	<5.0	5.0	7494191
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7494191
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



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VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFZ383	QFZ384		QFZ385		QFZ386		
Sampling Date		2021/07/28	2021/07/28		2021/07/28		2021/07/28		
COC Number		834487-05-01	834487-05-01		834487-05-01		834487-05-01		
	UNITS	45-I	45-II	RDL	76-I	RDL	76-II	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<4.9	<4.9	4.9	<250	250	<4.9	4.9	7494191
Dissolved Antimony (Sb)	ug/L	<0.50	<0.50	0.50	<25	25	<0.50	0.50	7494191
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	<50	50	<1.0	1.0	7494191
Dissolved Barium (Ba)	ug/L	47	41	2.0	100	100	51	2.0	7494191
Dissolved Beryllium (Be)	ug/L	<0.40	<0.40	0.40	<20	20	<0.40	0.40	7494191
Dissolved Bismuth (Bi)	ug/L	<1.0	<1.0	1.0	<50	50	<1.0	1.0	7494191
Dissolved Boron (B)	ug/L	36	40	10	7400	500	100	10	7494191
Dissolved Cadmium (Cd)	ug/L	<0.090	<0.090	0.090	<4.5	4.5	<0.090	0.090	7494191
Dissolved Calcium (Ca)	ug/L	110000	120000	200	10000000	10000	220000	200	7494191
Dissolved Chromium (Cr)	ug/L	<5.0	<5.0	5.0	<250	250	<5.0	5.0	7494191
Dissolved Cobalt (Co)	ug/L	<0.50	<0.50	0.50	<25	25	<0.50	0.50	7494191
Dissolved Copper (Cu)	ug/L	<0.90	<0.90	0.90	<45	45	<0.90	0.90	7494191
Dissolved Iron (Fe)	ug/L	240	<100	100	<5000	5000	<100	100	7494191
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	<25	25	1.5	0.50	7494191
Dissolved Lithium (Li)	ug/L	28	27	5.0	20000	250	25	5.0	7494191
Dissolved Magnesium (Mg)	ug/L	36000	39000	50	2600000	2500	60000	50	7494191
Dissolved Manganese (Mn)	ug/L	32	36	2.0	1300	100	47	2.0	7494191
Dissolved Molybdenum (Mo)	ug/L	<0.50	<0.50	0.50	<25	25	0.54	0.50	7494191
Dissolved Nickel (Ni)	ug/L	<1.0	<1.0	1.0	<50	50	4.1	1.0	7494191
Dissolved Phosphorus (P)	ug/L	<100	<100	100	<5000	5000	<100	100	7494191
Dissolved Potassium (K)	ug/L	2600	4100	200	260000	10000	4300	200	7494191
Dissolved Selenium (Se)	ug/L	<2.0	<2.0	2.0	<100	100	<2.0	2.0	7494191
Dissolved Silicon (Si)	ug/L	5000	4900	50	3800	2500	5900	50	7494191
Dissolved Silver (Ag)	ug/L	<0.090	<0.090	0.090	<4.5	4.5	<0.090	0.090	7494191
Dissolved Sodium (Na)	ug/L	17000	60000	100	16000000	5000	380000	100	7494191
Dissolved Strontium (Sr)	ug/L	2100	740	1.0	190000	50	1200	1.0	7494191
Dissolved Tellurium (Te)	ug/L	<1.0	<1.0	1.0	<50	50	<1.0	1.0	7494191
Dissolved Thallium (Tl)	ug/L	<0.050	<0.050	0.050	<2.5	2.5	<0.050	0.050	7494191
Dissolved Tin (Sn)	ug/L	<1.0	<1.0	1.0	<50	50	<1.0	1.0	7494191
Dissolved Titanium (Ti)	ug/L	<5.0	<5.0	5.0	<250	250	<5.0	5.0	7494191
Dissolved Tungsten (W)	ug/L	<1.0	<1.0	1.0	<50	50	<1.0	1.0	7494191
Dissolved Uranium (U)	ug/L	0.20	0.96	0.10	<5.0	5.0	3.2	0.10	7494191
Dissolved Vanadium (V)	ug/L	<0.50	<0.50	0.50	<25	25	<0.50	0.50	7494191
Dissolved Zinc (Zn)	ug/L	14	41	5.0	<250	250	140	5.0	7494191
Dissolved Zirconium (Zr)	ug/L	<1.0	<1.0	1.0	<50	50	<1.0	1.0	7494191
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



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VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFZ387		QFZ388		QFZ389		QFZ390		
Sampling Date		2021/07/28		2021/07/28		2021/07/28		2021/07/28		
COC Number		834487-06-01		834487-06-01		834487-06-01		834487-06-01		
	UNITS	76-III	RDL	67-I	RDL	4-II	RDL	3-II	RDL	QC Batch
Metals										
Dissolved Aluminum (Al)	ug/L	7.0	4.9	<4.9	4.9	<4.9	4.9	<4.9	4.9	7493067
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7493067
Dissolved Arsenic (As)	ug/L	1.1	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7493067
Dissolved Barium (Ba)	ug/L	34	2.0	18	2.0	17	2.0	16	2.0	7493067
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	0.40	<0.40	0.40	<0.40	0.40	7493067
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7493067
Dissolved Boron (B)	ug/L	99	10	1100	10	1100	10	1100	10	7493067
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7493067
Dissolved Calcium (Ca)	ug/L	180000	200	490000	400	470000	1000	500000	1000	7493067
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7493067
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7493067
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	0.90	<0.90	0.90	<0.90	0.90	7493067
Dissolved Iron (Fe)	ug/L	340	100	<100	100	<100	100	230	100	7493067
Dissolved Lead (Pb)	ug/L	1.2	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7493067
Dissolved Lithium (Li)	ug/L	19	5.0	130	5.0	120	5.0	110	5.0	7493067
Dissolved Magnesium (Mg)	ug/L	50000	50	62000	50	63000	50	92000	50	7493067
Dissolved Manganese (Mn)	ug/L	53	2.0	45	2.0	46	2.0	98	2.0	7493067
Dissolved Molybdenum (Mo)	ug/L	0.51	0.50	<0.50	0.50	<0.50	0.50	1.7	0.50	7493067
Dissolved Nickel (Ni)	ug/L	2.8	1.0	1.5	1.0	1.4	1.0	1.8	1.0	7493067
Dissolved Phosphorus (P)	ug/L	<100	100	<100	100	<100	100	<100	100	7493067
Dissolved Potassium (K)	ug/L	4100	200	62000	200	63000	200	30000	200	7493067
Dissolved Selenium (Se)	ug/L	<2.0	2.0	7.6	2.0	4.5	2.0	<2.0	2.0	7493067
Dissolved Silicon (Si)	ug/L	6200	50	6700	50	7100	50	4900	50	7493067
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	0.090	<0.090	0.090	<0.090	0.090	7493067
Dissolved Sodium (Na)	ug/L	300000	100	730000	500	740000	500	350000	100	7493067
Dissolved Strontium (Sr)	ug/L	1100	1.0	8900	1.0	8800	1.0	4900	1.0	7493067
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7493067
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	0.050	<0.050	0.050	<0.050	0.050	7493067
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7493067
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7493067
Dissolved Tungsten (W)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7493067
Dissolved Uranium (U)	ug/L	2.3	0.10	0.14	0.10	0.11	0.10	0.51	0.10	7493067
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	<0.50	0.50	7493067
Dissolved Zinc (Zn)	ug/L	110	5.0	<5.0	5.0	<5.0	5.0	<5.0	5.0	7493067
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	<1.0	1.0	7493067
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										



BUREAU VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFZ391		QFZ392	QFZ393		QFZ394		
Sampling Date		2021/07/28		2021/07/28	2021/07/28		2021/07/28		
COC Number		834487-06-01		834487-06-01	834487-06-01		834487-06-01		
	UNITS	46-IR	RDL	46-IIR	46-IIIR	QC Batch	31-II	RDL	QC Batch
Metals									
Dissolved Aluminum (Al)	ug/L	<4.9	4.9	<4.9	27	7493067	<4.9	4.9	7512755
Dissolved Antimony (Sb)	ug/L	<0.50	0.50	<0.50	<0.50	7493067	<0.50	0.50	7512755
Dissolved Arsenic (As)	ug/L	<1.0	1.0	<1.0	<1.0	7493067	<1.0	1.0	7512755
Dissolved Barium (Ba)	ug/L	21	2.0	68	45	7493067	47	2.0	7512755
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	<0.40	<0.40	7493067	<0.40	0.40	7512755
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	<1.0	<1.0	7493067	<1.0	1.0	7512755
Dissolved Boron (B)	ug/L	810	10	210	110	7493067	50	10	7512755
Dissolved Cadmium (Cd)	ug/L	<0.090	0.090	<0.090	0.37	7493067	<0.090	0.090	7512755
Dissolved Calcium (Ca)	ug/L	610000	1000	240000	220000	7493067	56000	200	7512755
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	<5.0	<5.0	7493067	<5.0	5.0	7512755
Dissolved Cobalt (Co)	ug/L	<0.50	0.50	<0.50	<0.50	7493067	<0.50	0.50	7512755
Dissolved Copper (Cu)	ug/L	<0.90	0.90	<0.90	1.4	7493067	12	0.90	7512755
Dissolved Iron (Fe)	ug/L	<100	100	160	<100	7493067	<100	100	7512755
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	<0.50	7493067	<0.50	0.50	7512755
Dissolved Lithium (Li)	ug/L	120	5.0	40	12	7493067	23	5.0	7512755
Dissolved Magnesium (Mg)	ug/L	73000	50	87000	78000	7493067	2400	50	7512755
Dissolved Manganese (Mn)	ug/L	100	2.0	150	160	7493067	<2.0	2.0	7512755
Dissolved Molybdenum (Mo)	ug/L	<0.50	0.50	<0.50	2.8	7493067	8.2	0.50	7512755
Dissolved Nickel (Ni)	ug/L	<1.0	1.0	<1.0	3.4	7493067	2.1	1.0	7512755
Dissolved Phosphorus (P)	ug/L	<100	100	<100	<100	7493067	<100	100	7512755
Dissolved Potassium (K)	ug/L	63000	200	11000	2400	7493067	9500	200	7512755
Dissolved Selenium (Se)	ug/L	5.0	2.0	<2.0	<2.0	7493067	<2.0	2.0	7512755
Dissolved Silicon (Si)	ug/L	4100	50	5000	5900	7493067	1100	50	7512755
Dissolved Silver (Ag)	ug/L	<0.090	0.090	<0.090	<0.090	7493067	<0.090	0.090	7512755
Dissolved Sodium (Na)	ug/L	820000	500	210000	160000	7493067	22000	100	7512755
Dissolved Strontium (Sr)	ug/L	9100	1.0	3300	790	7493067	350	1.0	7512755
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	<1.0	<1.0	7493067	<1.0	1.0	7512755
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	<0.050	<0.050	7493067	<0.050	0.050	7512755
Dissolved Tin (Sn)	ug/L	<1.0	1.0	<1.0	<1.0	7493067	<1.0	1.0	7512755
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	<5.0	<5.0	7493067	<5.0	5.0	7512755
Dissolved Tungsten (W)	ug/L	1.2	1.0	<1.0	<1.0	7493067	<1.0	1.0	7512755
Dissolved Uranium (U)	ug/L	0.11	0.10	1.1	5.9	7493067	<0.10	0.10	7512755
Dissolved Vanadium (V)	ug/L	<0.50	0.50	<0.50	<0.50	7493067	0.83	0.50	7512755
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	17	7493067	<5.0	5.0	7512755
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	<1.0	<1.0	7493067	<1.0	1.0	7512755
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									



ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFZ395		
Sampling Date		2021/07/28		
COC Number		834487-06-01		
	UNITS	58-I	RDL	QC Batch
Metals				
Dissolved Aluminum (Al)	ug/L	1500	4.9	7493067
Dissolved Antimony (Sb)	ug/L	29	0.50	7493067
Dissolved Arsenic (As)	ug/L	96	1.0	7493067
Dissolved Barium (Ba)	ug/L	30	2.0	7493067
Dissolved Beryllium (Be)	ug/L	<0.40	0.40	7493067
Dissolved Bismuth (Bi)	ug/L	<1.0	1.0	7493067
Dissolved Boron (B)	ug/L	570	10	7493067
Dissolved Cadmium (Cd)	ug/L	<1.5 (1)	1.5	7493067
Dissolved Calcium (Ca)	ug/L	53000	200	7493067
Dissolved Chromium (Cr)	ug/L	<5.0	5.0	7493067
Dissolved Cobalt (Co)	ug/L	1.5	0.50	7493067
Dissolved Copper (Cu)	ug/L	<0.90	0.90	7493067
Dissolved Iron (Fe)	ug/L	<100	100	7493067
Dissolved Lead (Pb)	ug/L	15	0.50	7493067
Dissolved Lithium (Li)	ug/L	66	5.0	7493067
Dissolved Magnesium (Mg)	ug/L	71	50	7493067
Dissolved Manganese (Mn)	ug/L	<2.0	2.0	7493067
Dissolved Molybdenum (Mo)	ug/L	950	0.50	7493067
Dissolved Nickel (Ni)	ug/L	140	1.0	7493067
Dissolved Phosphorus (P)	ug/L	360	100	7493067
Dissolved Potassium (K)	ug/L	380000	1000	7493067
Dissolved Selenium (Se)	ug/L	3.1	2.0	7493067
Dissolved Silicon (Si)	ug/L	17000	50	7493067
Dissolved Silver (Ag)	ug/L	<0.090	0.090	7493067
Dissolved Sodium (Na)	ug/L	1100000	500	7493067
Dissolved Strontium (Sr)	ug/L	270	1.0	7493067
Dissolved Tellurium (Te)	ug/L	<1.0	1.0	7493067
Dissolved Thallium (Tl)	ug/L	<0.050	0.050	7493067
Dissolved Tin (Sn)	ug/L	<1.0	1.0	7493067
Dissolved Titanium (Ti)	ug/L	<5.0	5.0	7493067
Dissolved Tungsten (W)	ug/L	130	1.0	7493067
Dissolved Uranium (U)	ug/L	<0.10	0.10	7493067
Dissolved Vanadium (V)	ug/L	70	0.50	7493067
Dissolved Zinc (Zn)	ug/L	5.8	5.0	7493067
RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Metals Analysis: Detection Limit was raised due to matrix interferences.				



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

BV Labs ID		QFZ395		
Sampling Date		2021/07/28		
COC Number		834487-06-01		
	UNITS	58-I	RDL	QC Batch
Dissolved Zirconium (Zr)	ug/L	<1.0	1.0	7493067
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ364
Sample ID: 35-IV
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494189	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493184	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494241	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ364 Dup
Sample ID: 35-IV
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti

BV Labs ID: QFZ365
Sample ID: P16
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494241	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ365 Dup
Sample ID: P16
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai

BV Labs ID: QFZ366
Sample ID: P17
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494241	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493492	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ367
Sample ID: P12
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7495625	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494189	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493184	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494241	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ368
Sample ID: P7 IR
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7531698	N/A	2021/08/20	Surinder Rai
Anions	IC	7530620	N/A	2021/08/20	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7512755	N/A	2021/08/16	Nan Raykha
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494189	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7494241	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ369
Sample ID: P7 II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7512902	N/A	2021/08/11	Surinder Rai
Anions	IC	7530620	N/A	2021/08/20	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7512755	N/A	2021/08/16	Nan Raykha
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494189	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493184	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494241	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ369 Dup
Sample ID: P7 II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7530620	N/A	2021/08/20	Fari Dehdezi
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ370
Sample ID: P7 III
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494228	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ371
Sample ID: P7 IV
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/05	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/04	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493184	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ372
Sample ID: G27
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494114	N/A	2021/08/03	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494123	N/A	2021/08/03	Surinder Rai
Fluoride	ISE	7494104	2021/07/30	2021/08/03	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ372
Sample ID: G27
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494124	2021/07/30	2021/08/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7493492	2021/07/30	2021/08/04	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ372 Dup
Sample ID: G27
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan

BV Labs ID: QFZ373
Sample ID: 40-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494114	N/A	2021/08/03	Surinder Rai
Anions	IC	7495625	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494123	N/A	2021/08/03	Surinder Rai
Fluoride	ISE	7494104	2021/07/30	2021/08/03	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494228	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494124	2021/07/30	2021/08/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7493492	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ373 Dup
Sample ID: 40-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7495625	N/A	2021/08/04	Fari Dehdezi



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ377
Sample ID: P8-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494114	N/A	2021/08/03	Surinder Rai
Anions	IC	7495625	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494123	N/A	2021/08/03	Surinder Rai
Fluoride	ISE	7494104	2021/07/30	2021/08/03	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/04	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494228	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494124	2021/07/30	2021/08/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ378
Sample ID: P8-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494114	N/A	2021/08/03	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494123	N/A	2021/08/03	Surinder Rai
Fluoride	ISE	7494104	2021/07/30	2021/08/03	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494124	2021/07/30	2021/08/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ378 Dup
Sample ID: P8-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494114	N/A	2021/08/03	Surinder Rai
Conductivity	AT	7494123	N/A	2021/08/03	Surinder Rai
Fluoride	ISE	7494104	2021/07/30	2021/08/03	Surinder Rai
pH	AT	7494124	2021/07/30	2021/08/03	Surinder Rai



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VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ379
Sample ID: P11-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ380
Sample ID: 14-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494114	N/A	2021/08/03	Surinder Rai
Anions	IC	7495625	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494123	N/A	2021/08/03	Surinder Rai
Fluoride	ISE	7494104	2021/07/30	2021/08/03	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494124	2021/07/30	2021/08/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493184	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/04	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ380 Dup
Sample ID: 14-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal



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BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ381
Sample ID: 44-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494114	N/A	2021/08/03	Surinder Rai
Anions	IC	7495625	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494123	N/A	2021/08/03	Surinder Rai
Fluoride	ISE	7494104	2021/07/30	2021/08/03	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494228	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494124	2021/07/30	2021/08/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493184	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/04	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ381 Dup
Sample ID: 44-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494228	N/A	2021/08/04	Chandra Nandlal

BV Labs ID: QFZ382
Sample ID: 44-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494114	N/A	2021/08/03	Surinder Rai
Anions	IC	7495625	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494123	N/A	2021/08/03	Surinder Rai
Fluoride	ISE	7494104	2021/07/30	2021/08/03	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494189	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494124	2021/07/30	2021/08/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493184	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7494243	2021/07/30	2021/08/03	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione



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VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ382 Dup
Sample ID: 44-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall

BV Labs ID: QFZ383
Sample ID: 45-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ384
Sample ID: 45-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7492497	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494228	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/04	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione



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BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ385
Sample ID: 76-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494114	N/A	2021/08/03	Surinder Rai
Anions	IC	7495625	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494123	N/A	2021/08/03	Surinder Rai
Fluoride	ISE	7494104	2021/07/30	2021/08/03	Surinder Rai
Hardness (calculated as CaCO3)		7492497	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494228	N/A	2021/08/04	Chandra Nandlal
pH	AT	7494124	2021/07/30	2021/08/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/08/04	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ386
Sample ID: 76-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494114	N/A	2021/08/03	Surinder Rai
Anions	IC	7495625	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494123	N/A	2021/08/03	Surinder Rai
Fluoride	ISE	7494104	2021/07/30	2021/08/03	Surinder Rai
Hardness (calculated as CaCO3)		7492497	N/A	2021/08/05	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7494191	N/A	2021/08/05	Prempal Bhatti
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494228	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494124	2021/07/30	2021/08/03	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493492	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ387
Sample ID: 76-III
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/04	Automated Statchk



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ387
Sample ID: 76-III
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Dissolved Metals by ICPMS	ICP/MS	7493067	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7493492	2021/07/30	2021/08/04	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ388
Sample ID: 67-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493067	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7494241	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493492	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ389
Sample ID: 4-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493067	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493184	N/A	2021/07/30	Deonarine Ramnarine



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ389
Sample ID: 4-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7494241	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ390
Sample ID: 3-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493067	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ391
Sample ID: 46-IR
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493067	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/08/03	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ392
Sample ID: 46-IIR
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493067	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7494236	N/A	2021/08/04	Amanpreet Sappal
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493184	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ392 Dup
Sample ID: 46-IIR
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi

BV Labs ID: QFZ393
Sample ID: 46-IIIR
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493067	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7493492	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ394
Sample ID: 31-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7531698	N/A	2021/08/20	Surinder Rai
Anions	IC	7530620	N/A	2021/08/20	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7512755	N/A	2021/08/13	Nan Raykha
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494241	N/A	2021/08/04	Avneet Kour Sudan
Total Dissolved Solids	BAL	7493807	2021/08/03	2021/08/04	Shaneil Hall
Total Kjeldahl Nitrogen in Water	SKAL	7493848	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ394 Dup
Sample ID: 31-II
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phenols (4AAP)	TECH/PHEN	7493500	N/A	2021/07/30	Deonarine Ramnarine
Total Organic Carbon (TOC)	TOCV/NDIR	7494260	N/A	2021/07/31	Julianna Castiglione

BV Labs ID: QFZ395
Sample ID: 58-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	AT	7494085	N/A	2021/08/04	Surinder Rai
Anions	IC	7494172	N/A	2021/08/04	Fari Dehdezi
Conductivity	AT	7494086	N/A	2021/08/04	Surinder Rai
Fluoride	ISE	7494080	2021/07/30	2021/08/04	Surinder Rai
Hardness (calculated as CaCO3)		7490721	N/A	2021/08/04	Automated Statchk
Dissolved Metals by ICPMS	ICP/MS	7493067	N/A	2021/08/04	Daniel Teclu
Total Ammonia-N	LACH/NH4	7493722	N/A	2021/08/04	Angela Petropoulos
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	7494215	N/A	2021/08/03	Chandra Nandlal
pH	AT	7494087	2021/07/30	2021/08/04	Surinder Rai
Phenols (4AAP)	TECH/PHEN	7493184	N/A	2021/07/30	Deonarine Ramnarine
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan
Total Dissolved Solids	BAL	7495524	2021/08/03	2021/08/04	Kristen Chan
Total Kjeldahl Nitrogen in Water	SKAL	7493492	2021/07/30	2021/08/05	Massarat Jan
Total Organic Carbon (TOC)	TOCV/NDIR	7493517	N/A	2021/07/31	Julianna Castiglione



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

Terrapure Environmental
Client Project #: GW
Sampler Initials: BM

TEST SUMMARY

BV Labs ID: QFZ395 Dup
Sample ID: 58-I
Matrix: Water

Collected: 2021/07/28
Shipped:
Received: 2021/07/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Orthophosphate	KONE	7494283	N/A	2021/08/05	Avneet Kour Sudan



GENERAL COMMENTS

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

Package 1	2.7°C
Package 2	1.7°C
Package 3	3.3°C
Package 4	2.3°C
Package 5	2.3°C

Sample QFZ368 [P7 IR] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QFZ377 [P8-I] : Metals Analysis: Due to the sample matrix, the sample required dilution. Detection limits were adjusted accordingly.
TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QFZ385 [76-I] : Nitrite/Nitrate: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

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

Sample QFZ388 [67-I] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QFZ389 [4-II] : TKN < Ammonia: Both values fall within the method uncertainty for duplicates and are likely equivalent.

Sample QFZ391 [46-IR] : 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 #: C1L4129
Report Date: 2021/08/20

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
7493067	Dissolved Aluminum (Al)	2021/08/04	99	80 - 120	100	80 - 120	<4.9	ug/L				
7493067	Dissolved Antimony (Sb)	2021/08/04	102	80 - 120	102	80 - 120	<0.50	ug/L	NC	20		
7493067	Dissolved Arsenic (As)	2021/08/04	99	80 - 120	100	80 - 120	<1.0	ug/L	1.6	20		
7493067	Dissolved Barium (Ba)	2021/08/04	101	80 - 120	98	80 - 120	<2.0	ug/L	1.7	20		
7493067	Dissolved Beryllium (Be)	2021/08/04	97	80 - 120	98	80 - 120	<0.40	ug/L	NC	20		
7493067	Dissolved Bismuth (Bi)	2021/08/04	103	80 - 120	107	80 - 120	<1.0	ug/L				
7493067	Dissolved Boron (B)	2021/08/04	92	80 - 120	93	80 - 120	<10	ug/L	0.90	20		
7493067	Dissolved Cadmium (Cd)	2021/08/04	100	80 - 120	102	80 - 120	<0.090	ug/L	NC	20		
7493067	Dissolved Calcium (Ca)	2021/08/04	NC	80 - 120	100	80 - 120	<200	ug/L				
7493067	Dissolved Chromium (Cr)	2021/08/04	98	80 - 120	98	80 - 120	<5.0	ug/L	NC	20		
7493067	Dissolved Cobalt (Co)	2021/08/04	98	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7493067	Dissolved Copper (Cu)	2021/08/04	101	80 - 120	104	80 - 120	<0.90	ug/L	5.0	20		
7493067	Dissolved Iron (Fe)	2021/08/04	98	80 - 120	98	80 - 120	<100	ug/L				
7493067	Dissolved Lead (Pb)	2021/08/04	99	80 - 120	104	80 - 120	<0.50	ug/L	NC	20		
7493067	Dissolved Lithium (Li)	2021/08/04	97	80 - 120	102	80 - 120	<5.0	ug/L				
7493067	Dissolved Magnesium (Mg)	2021/08/04	NC	80 - 120	100	80 - 120	<50	ug/L				
7493067	Dissolved Manganese (Mn)	2021/08/04	98	80 - 120	98	80 - 120	<2.0	ug/L				
7493067	Dissolved Molybdenum (Mo)	2021/08/04	103	80 - 120	100	80 - 120	<0.50	ug/L	5.5	20		
7493067	Dissolved Nickel (Ni)	2021/08/04	94	80 - 120	97	80 - 120	<1.0	ug/L	3.8	20		
7493067	Dissolved Phosphorus (P)	2021/08/04	107	80 - 120	105	80 - 120	<100	ug/L				
7493067	Dissolved Potassium (K)	2021/08/04	101	80 - 120	102	80 - 120	<200	ug/L				
7493067	Dissolved Selenium (Se)	2021/08/04	99	80 - 120	102	80 - 120	<2.0	ug/L	NC	20		
7493067	Dissolved Silicon (Si)	2021/08/04	102	80 - 120	102	80 - 120	<50	ug/L				
7493067	Dissolved Silver (Ag)	2021/08/04	97	80 - 120	98	80 - 120	<0.090	ug/L	NC	20		
7493067	Dissolved Sodium (Na)	2021/08/04	NC	80 - 120	102	80 - 120	<100	ug/L	2.8	20		
7493067	Dissolved Strontium (Sr)	2021/08/04	NC	80 - 120	95	80 - 120	<1.0	ug/L				
7493067	Dissolved Tellurium (Te)	2021/08/04	99	80 - 120	102	80 - 120	<1.0	ug/L				
7493067	Dissolved Thallium (Tl)	2021/08/04	106	80 - 120	105	80 - 120	<0.050	ug/L	NC	20		
7493067	Dissolved Tin (Sn)	2021/08/04	103	80 - 120	103	80 - 120	<1.0	ug/L				
7493067	Dissolved Titanium (Ti)	2021/08/04	98	80 - 120	98	80 - 120	<5.0	ug/L				
7493067	Dissolved Tungsten (W)	2021/08/04	101	80 - 120	103	80 - 120	<1.0	ug/L				



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

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
7493067	Dissolved Uranium (U)	2021/08/04	97	80 - 120	103	80 - 120	<0.10	ug/L	7.0	20		
7493067	Dissolved Vanadium (V)	2021/08/04	97	80 - 120	97	80 - 120	<0.50	ug/L	4.9	20		
7493067	Dissolved Zinc (Zn)	2021/08/04	98	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7493067	Dissolved Zirconium (Zr)	2021/08/04	101	80 - 120	100	80 - 120	<1.0	ug/L				
7493184	Phenols-4AAP	2021/07/30	102	80 - 120	101	80 - 120	<0.0010	mg/L	0	20		
7493492	Total Kjeldahl Nitrogen (TKN)	2021/08/04	113	80 - 120	96	80 - 120	<0.10	mg/L	13	20	104	80 - 120
7493500	Phenols-4AAP	2021/07/30	97	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20		
7493517	Total Organic Carbon (TOC)	2021/07/31	97	80 - 120	97	80 - 120	<0.40	mg/L	1.9	20		
7493722	Total Ammonia-N	2021/08/04	99	75 - 125	97	80 - 120	<0.050	mg/L	NC	20		
7493807	Total Dissolved Solids	2021/08/04					<10	mg/L	5.4	25	98	90 - 110
7493848	Total Kjeldahl Nitrogen (TKN)	2021/08/05	NC	80 - 120	98	80 - 120	<0.10	mg/L	2.6	20	105	80 - 120
7494080	Fluoride (F-)	2021/08/04	117	80 - 120	95	80 - 120	<0.10	mg/L	0.46	20		
7494085	Alkalinity (Total as CaCO3)	2021/08/04			97	85 - 115	<1.0	mg/L	0.80	20		
7494086	Conductivity	2021/08/04			101	85 - 115	<1.0	umho/cm	0	25		
7494087	pH	2021/08/04			102	98 - 103			0.21	N/A		
7494104	Fluoride (F-)	2021/08/03	106	80 - 120	102	80 - 120	<0.10	mg/L	0.46	20		
7494114	Alkalinity (Total as CaCO3)	2021/08/03			95	85 - 115	<1.0	mg/L	0.23	20		
7494123	Conductivity	2021/08/03			100	85 - 115	<1.0	umho/cm	0.79	25		
7494124	pH	2021/08/03			102	98 - 103			0.24	N/A		
7494172	Dissolved Bromide (Br-)	2021/08/04	101	80 - 120	101	80 - 120	<1.0	mg/L	NC	20		
7494172	Dissolved Chloride (Cl-)	2021/08/04	NC	80 - 120	98	70 - 130	<1.0	mg/L	3.4	20		
7494172	Dissolved Sulphate (SO4)	2021/08/04	NC	80 - 120	98	80 - 120	<1.0	mg/L	0.88	20		
7494189	Nitrate (N)	2021/08/03	100	80 - 120	102	80 - 120	<0.10	mg/L	NC	20		
7494189	Nitrite (N)	2021/08/03	104	80 - 120	106	80 - 120	<0.010	mg/L	NC	20		
7494191	Dissolved Aluminum (Al)	2021/08/05	113	80 - 120	102	80 - 120	<4.9	ug/L	1.7	20		
7494191	Dissolved Antimony (Sb)	2021/08/05	84	80 - 120	104	80 - 120	<0.50	ug/L	NC	20		
7494191	Dissolved Arsenic (As)	2021/08/05	102	80 - 120	99	80 - 120	<1.0	ug/L	1.4	20		
7494191	Dissolved Barium (Ba)	2021/08/05	100	80 - 120	102	80 - 120	<2.0	ug/L	0.22	20		
7494191	Dissolved Beryllium (Be)	2021/08/05	93	80 - 120	101	80 - 120	<0.40	ug/L	NC	20		



BUREAU
VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

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
7494191	Dissolved Bismuth (Bi)	2021/08/05	47 (1)	80 - 120	99	80 - 120	<1.0	ug/L	NC	20		
7494191	Dissolved Boron (B)	2021/08/05	NC	80 - 120	98	80 - 120	<10	ug/L	2.2	20		
7494191	Dissolved Cadmium (Cd)	2021/08/05	94	80 - 120	100	80 - 120	<0.090	ug/L	NC	20		
7494191	Dissolved Calcium (Ca)	2021/08/05	NC	80 - 120	100	80 - 120	<200	ug/L	1.1	20		
7494191	Dissolved Chromium (Cr)	2021/08/05	103	80 - 120	97	80 - 120	<5.0	ug/L	NC	20		
7494191	Dissolved Cobalt (Co)	2021/08/05	103	80 - 120	100	80 - 120	<0.50	ug/L	NC	20		
7494191	Dissolved Copper (Cu)	2021/08/05	73 (1)	80 - 120	104	80 - 120	<0.90	ug/L	NC	20		
7494191	Dissolved Iron (Fe)	2021/08/05	101	80 - 120	98	80 - 120	<100	ug/L	NC	20		
7494191	Dissolved Lead (Pb)	2021/08/05	94	80 - 120	99	80 - 120	<0.50	ug/L	NC	20		
7494191	Dissolved Lithium (Li)	2021/08/05	NC	80 - 120	104	80 - 120	<5.0	ug/L	0.27	20		
7494191	Dissolved Magnesium (Mg)	2021/08/05	NC	80 - 120	101	80 - 120	<50	ug/L	1.7	20		
7494191	Dissolved Manganese (Mn)	2021/08/05	99	80 - 120	99	80 - 120	<2.0	ug/L	1.6	20		
7494191	Dissolved Molybdenum (Mo)	2021/08/05	101	80 - 120	100	80 - 120	<0.50	ug/L	0.053	20		
7494191	Dissolved Nickel (Ni)	2021/08/05	96	80 - 120	97	80 - 120	<1.0	ug/L	2.4	20		
7494191	Dissolved Phosphorus (P)	2021/08/05	109	80 - 120	117	80 - 120	<100	ug/L	2.7	20		
7494191	Dissolved Potassium (K)	2021/08/05	NC	80 - 120	102	80 - 120	<200	ug/L	1.2	20		
7494191	Dissolved Selenium (Se)	2021/08/05	36 (1)	80 - 120	96	80 - 120	<2.0	ug/L	NC	20		
7494191	Dissolved Silicon (Si)	2021/08/05	110	80 - 120	102	80 - 120	<50	ug/L	7.8	20		
7494191	Dissolved Silver (Ag)	2021/08/05	44 (1)	80 - 120	82	80 - 120	<0.090	ug/L	NC	20		
7494191	Dissolved Sodium (Na)	2021/08/05	NC	80 - 120	100	80 - 120	<100	ug/L	2.1	20		
7494191	Dissolved Strontium (Sr)	2021/08/05	NC	80 - 120	100	80 - 120	<1.0	ug/L	0.20	20		
7494191	Dissolved Tellurium (Te)	2021/08/05	43 (1)	80 - 120	100	80 - 120	<1.0	ug/L	NC	20		
7494191	Dissolved Thallium (Tl)	2021/08/05	95	80 - 120	102	80 - 120	<0.050	ug/L	NC	20		
7494191	Dissolved Tin (Sn)	2021/08/05	102	80 - 120	103	80 - 120	<1.0	ug/L	NC	20		
7494191	Dissolved Titanium (Ti)	2021/08/05	105	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7494191	Dissolved Tungsten (W)	2021/08/05	107	80 - 120	97	80 - 120	<1.0	ug/L	2.2	20		
7494191	Dissolved Uranium (U)	2021/08/05	104	80 - 120	101	80 - 120	<0.10	ug/L	NC	20		
7494191	Dissolved Vanadium (V)	2021/08/05	109	80 - 120	99	80 - 120	<0.50	ug/L	3.4	20		
7494191	Dissolved Zinc (Zn)	2021/08/05	89	80 - 120	99	80 - 120	<5.0	ug/L	NC	20		
7494191	Dissolved Zirconium (Zr)	2021/08/05	114	80 - 120	105	80 - 120	<1.0	ug/L	NC	20		
7494215	Nitrate (N)	2021/08/03	98	80 - 120	105	80 - 120	<0.10	mg/L	1.2	20		



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BV Labs Job #: C1L4129
Report Date: 2021/08/20

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
7494215	Nitrite (N)	2021/08/03	103	80 - 120	104	80 - 120	<0.010	mg/L	4.5	20		
7494228	Nitrate (N)	2021/08/04	104	80 - 120	106	80 - 120	<0.10	mg/L	NC	20		
7494228	Nitrite (N)	2021/08/04	105	80 - 120	108	80 - 120	<0.010	mg/L	NC	20		
7494236	Total Ammonia-N	2021/08/04	101	75 - 125	98	80 - 120	<0.050	mg/L	17	20		
7494241	Orthophosphate (P)	2021/08/04	96	75 - 125	100	80 - 120	<0.010	mg/L	1.7	25		
7494243	Total Kjeldahl Nitrogen (TKN)	2021/08/03	NC	80 - 120	100	80 - 120	<0.10	mg/L	NC	20	100	80 - 120
7494260	Total Organic Carbon (TOC)	2021/07/31	97	80 - 120	100	80 - 120	<0.40	mg/L	0.69	20		
7494283	Orthophosphate (P)	2021/08/05	101	75 - 125	100	80 - 120	<0.010	mg/L	NC	25		
7495524	Total Dissolved Solids	2021/08/04					<10	mg/L	0.26	25	100	90 - 110
7495625	Dissolved Bromide (Br-)	2021/08/04	104	80 - 120	101	80 - 120	<1.0	mg/L	NC	20		
7495625	Dissolved Chloride (Cl-)	2021/08/04	NC	80 - 120	97	70 - 130	<1.0	mg/L	3.6	20		
7495625	Dissolved Sulphate (SO4)	2021/08/04	NC	80 - 120	97	80 - 120	<1.0	mg/L	4.1	20		
7512755	Dissolved Aluminum (Al)	2021/08/13	90	80 - 120	97	80 - 120	<4.9	ug/L				
7512755	Dissolved Antimony (Sb)	2021/08/13	100	80 - 120	104	80 - 120	<0.50	ug/L				
7512755	Dissolved Arsenic (As)	2021/08/13	92	80 - 120	98	80 - 120	<1.0	ug/L				
7512755	Dissolved Barium (Ba)	2021/08/13	94	80 - 120	100	80 - 120	<2.0	ug/L				
7512755	Dissolved Beryllium (Be)	2021/08/13	89	80 - 120	99	80 - 120	<0.40	ug/L				
7512755	Dissolved Bismuth (Bi)	2021/08/13	86	80 - 120	99	80 - 120	<1.0	ug/L				
7512755	Dissolved Boron (B)	2021/08/13	NC	80 - 120	91	80 - 120	<10	ug/L	0.41	20		
7512755	Dissolved Cadmium (Cd)	2021/08/13	93	80 - 120	100	80 - 120	<0.090	ug/L				
7512755	Dissolved Calcium (Ca)	2021/08/13	NC	80 - 120	97	80 - 120	<200	ug/L	0.35	20		
7512755	Dissolved Chromium (Cr)	2021/08/13	88	80 - 120	97	80 - 120	<5.0	ug/L				
7512755	Dissolved Cobalt (Co)	2021/08/13	89	80 - 120	97	80 - 120	<0.50	ug/L				
7512755	Dissolved Copper (Cu)	2021/08/13	92	80 - 120	99	80 - 120	<0.90	ug/L	NC	20		
7512755	Dissolved Iron (Fe)	2021/08/13	87	80 - 120	95	80 - 120	<100	ug/L	NC	20		
7512755	Dissolved Lead (Pb)	2021/08/13	86	80 - 120	99	80 - 120	<0.50	ug/L				
7512755	Dissolved Lithium (Li)	2021/08/13	NC	80 - 120	104	80 - 120	<5.0	ug/L				
7512755	Dissolved Magnesium (Mg)	2021/08/13	NC	80 - 120	99	80 - 120	<50	ug/L	0.096	20		
7512755	Dissolved Manganese (Mn)	2021/08/13	NC	80 - 120	96	80 - 120	<2.0	ug/L	0.13	20		
7512755	Dissolved Molybdenum (Mo)	2021/08/13	101	80 - 120	102	80 - 120	<0.50	ug/L				
7512755	Dissolved Nickel (Ni)	2021/08/13	83	80 - 120	94	80 - 120	<1.0	ug/L				



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BV Labs Job #: C1L4129
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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
7512755	Dissolved Phosphorus (P)	2021/08/13	102	80 - 120	106	80 - 120	<100	ug/L				
7512755	Dissolved Potassium (K)	2021/08/13	NC	80 - 120	98	80 - 120	<200	ug/L	0.47	20		
7512755	Dissolved Selenium (Se)	2021/08/13	87	80 - 120	96	80 - 120	<2.0	ug/L				
7512755	Dissolved Silicon (Si)	2021/08/13	94	80 - 120	99	80 - 120	<50	ug/L	0.92	20		
7512755	Dissolved Silver (Ag)	2021/08/13	84	80 - 120	95	80 - 120	<0.090	ug/L				
7512755	Dissolved Sodium (Na)	2021/08/13	NC	80 - 120	97	80 - 120	<100	ug/L	1.2	20		
7512755	Dissolved Strontium (Sr)	2021/08/13	NC	80 - 120	96	80 - 120	<1.0	ug/L				
7512755	Dissolved Tellurium (Te)	2021/08/13	95	80 - 120	99	80 - 120	<1.0	ug/L				
7512755	Dissolved Thallium (Tl)	2021/08/13	88	80 - 120	99	80 - 120	<0.050	ug/L				
7512755	Dissolved Tin (Sn)	2021/08/13	99	80 - 120	102	80 - 120	<1.0	ug/L				
7512755	Dissolved Titanium (Ti)	2021/08/13	88	80 - 120	92	80 - 120	<5.0	ug/L				
7512755	Dissolved Tungsten (W)	2021/08/13	93	80 - 120	103	80 - 120	<1.0	ug/L				
7512755	Dissolved Uranium (U)	2021/08/13	90	80 - 120	100	80 - 120	<0.10	ug/L				
7512755	Dissolved Vanadium (V)	2021/08/13	91	80 - 120	98	80 - 120	<0.50	ug/L				
7512755	Dissolved Zinc (Zn)	2021/08/13	84	80 - 120	95	80 - 120	<5.0	ug/L	6.2	20		
7512755	Dissolved Zirconium (Zr)	2021/08/13	104	80 - 120	103	80 - 120	<1.0	ug/L				
7512902	Alkalinity (Total as CaCO3)	2021/08/11			96	85 - 115	<1.0	mg/L	0.56	20		
7530620	Dissolved Bromide (Br-)	2021/08/20	101	80 - 120	102	80 - 120	<1.0	mg/L	NC	20		
7530620	Dissolved Chloride (Cl-)	2021/08/20	NC	80 - 120	98	70 - 130	<1.0	mg/L	4.0	20		
7530620	Dissolved Sulphate (SO4)	2021/08/20	NC	80 - 120	95	80 - 120	<1.0	mg/L	4.8	20		



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VERITAS

BV Labs Job #: C1L4129
Report Date: 2021/08/20

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
7531698	Alkalinity (Total as CaCO3)	2021/08/20			96	85 - 115	<1.0	mg/L	0.46	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 #: C1L4129
Report Date: 2021/08/20

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:

A handwritten signature in black ink, appearing to read "B. Newman", written over a horizontal line.

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.



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

29-Jul-21 16:05

Jolanta Goralczyk
C1L4129

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:
Site #:
Sampled By:

only:
Bottle Order #:
Barcode: 834487
Project Manager: Jolanta Goralczyk
Barcode: C#834487-04-01

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)	Other Regulations	Special Instructions
<input type="checkbox"/> Table 1 <input type="checkbox"/> Table 2 <input type="checkbox"/> Table 3 <input type="checkbox"/> Table	<input type="checkbox"/> Res/Park <input type="checkbox"/> Medium/Fine <input type="checkbox"/> Ind/Comm <input type="checkbox"/> Coarse <input type="checkbox"/> Agri/Other <input type="checkbox"/> For RSC	<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 <input type="checkbox"/> Municipality <input type="checkbox"/> PWQO <input type="checkbox"/> Reg 406 Table <input type="checkbox"/> Other

Include Criteria on Certificate of Analysis (Y/N)?

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr / VI	List "A" GW Monitoring												
1	35-IV	July 28 2021	NA	GW	Y	X												
2	P16			GW	Y	X												
3	P17			GW	Y	X												
4	P12			GW	Y	X												
5	P7IR			GW	Y	X												
6	P7II			GW	Y	X												
7	P7III			GW	Y	X												
8	P7IV			GW	Y	X												
9	G27			GW	Y	X												
10	40-I			GW	Y	X												

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 #)

# of Bottles	Comments
6	
6	
6	
6	
6	
6	
6	
6	
6	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
<i>[Signature]</i> / Dan Taylor	21/07/29	10:45	<i>[Signature]</i> Y. THOMPSON	21/07/29	16:05	

Laboratory Use Only

Time Sensitive	Temperature (°C) on Recept SEE ACTR	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.

* 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

ICE: Y



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 #:		
Attention: Accounting	Attention: Brad Mullin - GHD Reporting	P.O. #:	COC #:		Project Manager:		
Address: 65 Green Mountain Rd West Stoney Creek ON L8J 1X5	Address:	Project: GW	COC #:		Project Manager: Jolanta Goralczyk		
Tel: (905) 561-0305 Fax: (905) 561-1674	Tel: Email: bmulin@terrapureenv.com; dtaylor2@terrapureenv.com	Project Name:	COC #:		Project Manager: Jolanta Goralczyk		
Email: kbailey@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: 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): Standard TAT = 5-7 Working days for most tests.	
<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	Reg 406 Table _____																	
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		
	PB-I	July 23 2021	NA	GW	Y	X												6			
	PB-II			GW	Y	X												6			
	P11-II			GW	Y	X												6			
	14-I			GW	Y	X												6			
	44-I			GW	Y	X												6			
	44-II			GW	Y	X												6			
	45-I			GW	Y	X												6			
	45-II			GW	Y	X												6			
	76-I			GW	Y	X												6			
	76-II			GW	Y	X												6			

* RELINQUISHED BY: (Signature/Print) Dan Taylor		Date: (YY/MM/DD) 21/07/21	Time 10:45	RECEIVED BY: (Signature/Print) SEE PAGE 1		Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only				
								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.

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

White: BV Labs Yellow: Client

