



April 7, 2021

Via E-mail: MichaelP@townofcortlandt.com

Mr. Michael Preziosi, P.E.
Director, Department of Technical Services
Town of Cortlandt
One Heady Street
Cortlandt Manor, NY 10567

RE: Hollow Brook Golf Club
2020 Annual Monitoring Report

Dear Mr. Preziosi:

In accordance with the Hollow Brook Golf Club (HBGC) Water Quality Monitoring Program, WSP is submitting the following 2020 Annual Monitoring Report. The purpose of the monitoring program is to provide data for measuring compliance with the May 2002 Environmental Management Plan (EMP), and to ensure that integrated pest management is functioning properly.

This report summarizes operational monitoring results for 2020. The monitoring program includes groundwater and surface-water sampling. Baseflow samples are to be collected twice per year in the summer and fall as per the June 2009 resolution by the Town of Cortlandt Planning Board (Resolution No. 23-09). Additionally, storm water samples are to be collected once per year. Course samples are analyzed for inorganic and organic compounds (pesticides). The EMP requires that all compounds applied to the course in the previous 12 months be analyzed. The laboratory has been instructed to report all compounds possible using the analytical methods which cover the applied compounds.

In February 2014, HBGC requested of the Town a modification to the EMP to reduce associated costs. The request was made in consideration of the monitoring results at that time. In a March 30, 2016 letter from LBG (now WSP) to the Town, the following modifications were recommended: 1) eliminate surface water sampling at locations US-1 and SW-4; 2) eliminate groundwater sampling at Monitor Well GW-2; 3) discontinue analyses for volatile organic compounds, polycyclic aromatic compounds and metals; and, 4) the storm-sampling protocol outlined in the EMP will be followed until HBGC obtains an outside consultant to perform a new storm-water study. The Town approved these modifications, which became the standard sampling protocol moving forward.

In April 2020, HBGC requested of the Town additional modification to the sampling protocol to reduce associated costs during the 2020 COVID-19 pandemic. In an email dated April 27, 2020 from the Town to HBGC, the following temporary modifications were approved: 1) eliminate groundwater sampling at Monitor Wells GW-3 and GW-4; and, 2) eliminate surface water sampling at locations SW-3, SW-5 and SW-6. The approval was based on the limited change in analytical results observed over the past several years at these locations. The 2020 sampling events were conducted under this temporary sampling protocol.



1.0 SAMPLE DATES, LOCATIONS AND METHODOLOGIES

In 2020, two baseflow sampling events for groundwater and surface-water were conducted; September 10th and November 17th. A storm event was not conducted in 2020 due to either 1) individual precipitation event amounts and intensities did not meet the criteria described in the EMP, or 2) the timing of the precipitation event was not conducive to sampling during normal business hours.

During both baseflow events, samples from surface-water station DS-1 and a groundwater sample from Monitor Well GW-1R were analyzed for inorganic and pesticide compounds. A Site Plan showing sample locations is included as Figure 1.

The samples were analyzed for the parameters listed in the EMP and included all pesticide compounds that have been applied in the previous 12 months. The inorganic parameters were analyzed by York Analytical Laboratories (York) of Stratford, Connecticut. The pesticide compounds were analyzed by Columbia Food Laboratories (Columbia) of Portland, Oregon. Field parameters including pH, temperature and conductivity were measured by WSP during each sampling event.

The analytical results for inorganics and pesticides are compared to the New York State Department of Environmental Conservation (NYSDEC) Technical and Operational Guidance Series (TOGS) (when applicable). Per the EMP, inorganics are also evaluated to determine if detections exhibit an increasing trend or exceed the baseline mean by two standard deviations. Additionally, pesticides are evaluated for toxicological significance by comparison with 50 percent of the respective EPA Health Advisory Levels (HALs).

2.0 SAMPLING RESULTS

The 2020 sampling results for groundwater and surface water are discussed below and presented on tables 1 and 2. Historical results are included in previous Annual Monitoring Reports. The 2020 product application data and laboratory analytical reports are included in the Appendix.

2.1 Summer Baseflow Event: September 10, 2020

2.1.1 Groundwater

The results of laboratory analysis indicate there were two pesticides detected in the groundwater sample collected from GW-1R (table 1); propiconazole (0.80 ug/l [micrograms per liter]) and triadimenol (1.00 ug/l). Propiconazole was applied to the course during the 2020 season. Triadimenol is not a course-applied compound but is a primary metabolite of triadimefon, which was applied to the course during 2020 and in previous years. The detected concentrations of these compounds did not exceed the toxicologically significant criteria.

2.1.2 Surface Water

The results of laboratory analysis indicate that no pesticides were detected in the surface water sample collected from the downstream Hollow Brook location DS-1 (table 1). The result of laboratory analysis for total dissolved solids (TDS) in this sample was 608 mg/l (milligrams per liter), which exceeds the Response Threshold and the NYSDEC TOGS for surface water (500 mg/l). TDS comprise inorganic salts (principally calcium, magnesium, potassium, sodium, bicarbonates, chlorides, and sulfates) and some small amounts of organic matter that are dissolved in water.



2.2 Fall Baseflow Event: November 17, 2020

2.2.1 Groundwater

The results of laboratory analysis indicate that propiconazole (0.63 ug/l) and triadimenol (0.54 ug/l) were again detected in the groundwater sample collected from GW-1R (table 2). The detected concentrations of these compounds did not exceed the toxicologically significant criteria. The result of laboratory analysis for TDS in this sample was 613 mg/l, which exceeds the NYSDEC TOGS for Groundwater (500 mg/l). The EMP does not include a response threshold for TDS in groundwater.

2.2.2 Surface Water

The results of laboratory analysis indicate that no pesticides were detected in the surface water sample collected from the downstream Hollow Brook location DS-1 (table 2). The results indicate the TDS in this sample was 301 mg/l, down from 608 mg/l detected in September 2020. The Response Threshold and NYSDEC TOGS for TDS in surface water is 500 mg/l.

3.0 DISCUSSION AND RESPONSES

The management response to detections of pesticides in HBGC groundwater or surface-water samples is described in the EMP. If certain pesticides (specifically listed in the EMP) are detected twice in the same year, the indicated response is to suspend their use. However, based on historical data, and because new pesticides are not specifically addressed in the EMP, the Town and HBGC have agreed that pesticides that are repeatedly detected in groundwater samples could continue to be used on the course under the following conditions:

- The pesticide detection is below the toxicologically significant criteria, which is 50 percent of the respective EPA HALs;
- The pesticide is not detected in the Hollow Brook; and,
- The use of the pesticide would be restricted to spot applications.

3.1 Pesticide Evaluations

Beyond the 2002 EMP, pesticide use on the course is evaluated regularly by HBGC, WSP and the Town's consulting agronomist Dr. Martin Petrovic.

Chlorantraniliprole was repeatedly detected in groundwater after it was introduced to the course in 2011. All detections were well below the toxicologically significant criteria. It has never been detected in the Hollow Brook and was not detected in groundwater during 2020. In accordance with the original 2011 approval for the use of chlorantraniliprole by Dr. Petrovic, this product is only to be used as a "last resort" after other products have failed to control the associated problem.



During 2019, at the request of HBGC, several new pesticides were considered for use on the course. The following compounds were subsequently approved (and added to the monitoring program) based on a review and risk assessment completed by Dr. Petrovic:

- Cyazofamid, Cyfluthrin, Ethofumesate Etridiazole, Fluazinam, Fludioxonil, Fluroxypyr+Triclopyr, Fluxapyroxad, Imidacloprid, Mesotrione, Myclobutanil, Polyoxin D Zinc, Prothioconazole, Pyraclastrobin, Sethoxydim and Spinosad.

3.2 Response Based on 2020 Results

Propiconazole and triadimenol/triadimefon, applied to the course during 2020, were detected in the GW-1R groundwater sample during the summer and fall sampling events. Both compounds were not detected at concentrations above the toxicologically significant criteria during either event. Due to the recurrent detections, it is recommended that the use of these compounds is restricted to spot applications for 2021.

Chlorantraniliprole was applied to the course during 2020 but was not detected in the groundwater sample during either the summer or fall events. It is recommended the club adhere to the 2011 decision that it may be used only as a 'last resort' compound during 2021.

Groundwater sampling will continue during 2021 under the 2020 temporary modifications to the sampling protocol.

Kind regards,

WSP USA

Michael K. De Felice, PG
Senior Hydrogeologist

Reviewed By:

John Benvegna, PG (NY), CPG
Senior Supervising Hydrogeologist

cc: Dr. Martin Petrovic, Cornell
Chris Kehoe, AICP, T/Cortlandt
David Rambo, C/Peekskill Water Dept.
Chris Smith, Hollow Brook
Eugene Peterson, Hollow Brook

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TABLES

TABLE 1
HOLLOW BROOK GOLF CLUB
TOWN OF CORTLANDT, NEW YORK

Phase III Operational Monitoring
Summer 2020 Baseflow Sampling Event - Samples Collected September 10, 2020

Parameters	Groundwater Quality							Surface Water Quality						
	Groundwater Sample			Groundwater Regulations				Surface Water Sample				Surface Water Regulations		
	GW-1R	GW-3	GW-4	Response Threshold	NY Standard or Guidance Value (1)	50% HAL	SW-3	SW-5	SW-6	DS-1	Response Threshold	NY Standard or Guidance Value (2)	50% HAL	
Field Parameters														
pH	---	7.3	N	N	<6.5 or >8.5	>6.5 and <8.5	N/A	N	N	N	8.1	<6.5 or >8.5	>6.5 and <8.5	N/A
Temperature	Celsius	20.0	N	N	None	NS	N/A	N	N	N	20.4	None	NS	N/A
Conductivity	mS/cm	707	N	N	None	NS	N/A	N	N	N	370	None	NS	N/A
DO	mg/l	NM	N	N	None	NS	N/A	N	N	N	NM	<6.0	>6.0	N/A
Inorganics														
TDS	mg/l	414	N	N	None	500	N/A	N	N	N	608	500	500	N/A
Chloride	mg/l	64.0	N	N	250	250	N/A	N	N	N	60.0	250	250	N/A
Nitrate	mg/l	<0.05	N	N	5.0/ST/SD	10	N/A	N	N	N	0.373	10/ST/SD	10	N/A
Nitrite	mg/l	<0.05	N	N	1.0/ST/SD	1.0	N/A	N	N	N	<0.05	1.0/ST/SD	1.0	N/A
Ammonia	mg/l	0.623	N	N	2.0/ST/SD	2.0	N/A	N	N	N	<0.05	2.0/ST/SD	2.0	N/A
Phosphorous	mg/l	0.13	N	N	ST/SD	NS	N/A	N	N	N	<0.05	ST/SD	NS	N/A
Organics - Applied to course during year														
Azoxystrobin	ug/l	<1.0	N	N	Any	NS	630	N	N	N	<1.0	Any	NS	630
Boscalid	ug/l	<1.0	N	N	Any	NS	76.5	N	N	N	<1.0	Any	NS	76.5
Chlorantraniliprole	ug/l	<0.5	N	N	Any	NS	5,530	N	N	N	<0.5	Any	NS	5,530
Clopyralid	ug/l	<1.0	N	N	Any	NS	---	N	N	N	<1.0	Any	5	---
Cyazofamid	ug/l	<1.0	N	N	Any	NS	---	N	N	N	<1.0	Any	NS	---
Dithiopyr	ug/l	<1.0	N	N	Any	NS	12.5	N	N	N	<1.0	Any	NS	12.5
Fluazinam	ug/l	<1.0	N	N	Any	NS	---	N	N	N	<1.0	Any	NS	---
Fludioxonil	ug/l	<1.0	N	N	Any	NS	---	N	N	N	<1.0	Any	NS	---
Fluxapyroxad	ug/l	<1.0	N	N	Any	NS	---	N	N	N	<1.0	Any	NS	---
Imidacloprid	ug/l	<1.0	N	N	Any	NS	200	N	N	N	<1.0	Any	NS	200
Iprodione	ug/l	<0.5	N	N	Any	NS	4	N	N	N	<0.5	Any	NS	4
Lambda-cyhalothrin	ug/l	<1.0	N	N	Any	NS	---	N	N	N	<1.0	Any	NS	---
Mefenoxam / Metalaxyl	ug/l	<1.0	N	N	Any	NS	---	N	N	N	<1.0	Any	NS	---
Paclobutrazol	ug/l	<1.0	N	N	Any	NS	87.5	N	N	N	<1.0	Any	NS	87.5
Propamocarb	ug/l	<1.0	N	N	Any	NS	350	N	N	N	<1.0	Any	NS	350
Propiconazole	ug/l	0.80	N	N	Any	NS	4.55	N	N	N	<0.5	Any	NS	4.55
Pyraclastrobin	ug/l	<1.0	N	N	Any	NS	---	N	N	N	<1.0	Any	NS	---
Triadimefon	ug/l	<0.5	N	N	Any	NS	14	N	N	N	<0.5	Any	NS	14
Triadimenol*	ug/l	1.00	N	N	Any	NS	13.5	N	N	N	<0.5	Any	NS	13.5
Trifloxystrobin	ug/l	<0.5	N	N	Any	NS	175	N	N	N	<0.5	Any	NS	175
Trinexapac-ethyl	ug/l	<1.0	N	N	Any	NS	110.5	N	N	N	<1.0	Any	NS	110.5
Organics - Not applied to course during year / Applied within past 5 years														
Carbaryl	ug/l	<0.5	N	N	Any	29	35	N	N	N	<0.5	Any	NS	35
Chlorothalonil	ug/l	<0.5	N	N	Any	5	---	N	N	N	<0.5	Any	NS	---
2,4-D	ug/l	<0.5	N	N	Any	50	35	N	N	N	<0.5	Any	50	35
Dicamba	ug/l	<0.5	N	N	Any	0.44	2000	N	N	N	<0.5	Any	NS	2000
Fenoxaprop-ethyl	ug/l	<0.5	N	N	Any	NS	---	N	N	N	<0.5	Any	NS	---
Flutolanil	ug/l	<0.5	N	N	Any	NS	2100	N	N	N	<0.5	Any	NS	2100
Mecoprop	ug/l	<1.0	N	N	Any	NS	700	N	N	N	<1.0	Any	NS	700
Tebuconazole	ug/l	<1.0	N	N	Any	NS	190**	N	N	N	<1.0	Any	NS	---
Vinclozolin	ug/l	<0.5	N	N	Any	NS	4.2	N	N	N	<0.5	Any	NS	4.2

Response Threshold as per Section 5.7.6 of the Management Plan.

NY Standard - New York State Water Quality Standard per 6 NYCRR Parts 700-705 (1) Class GA groundwater, (2) Class A, A-S, AA, AA-S surface water

50% HAL - 50% of the USEPA Health Advisory Limit. This is the toxicologically significant level for groundwater and surface water sample DS-1 in the absence of a State standard.

SS/ST/SD - State Standard or Statistically Significant Trend or Standard Deviation Exceedence

Any - Any detection triggers the Response Threshold

*Triadimenol is not applied but is a primary metabolite of triadimefon which is applied

**Indicates a Human Health Benchmark for Pesticides (HHBP) as a HAL does not exist

< Indicates compound was not detected above the laboratory reportable limit

	Exceedence of the RT
	Exceedence of 50% HAL or NYS GWQS

DO - Dissolved oxygen

TDS - Total Dissolved Solids

NM - Not measured

NA - Not analyzed

NS - No standard

N/A - Not applicable

uS/cm - Microseimens per centimeter

mg/l - Milligrams per liter

ug/l - Micrograms per liter

--- - HAL not available

N - Not sampled

TABLE 2
HOLLOW BROOK GOLF CLUB
TOWN OF CORTLANDT, NEW YORK

Phase III Operational Monitoring
Fall 2020 Baseflow Sampling Event - Samples Collected November 17, 2020

Parameters	Groundwater Quality							Surface Water Quality						
	Groundwater Sample			Groundwater Regulations				Surface Water Sample				Surface Water Regulations		
	GW-1R	GW-3	GW-4	Response Threshold	NY Standard or Guidance Value (1)	50% HAL	SW-3	SW-5	SW-6	DS-1	Response Threshold	NY Standard or Guidance Value (2)	50% HAL	
Field Parameters														
pH	---	6.3	N	N	<6.5 or >8.5	>6.5 and <8.5	N/A	N	N	N	6.8	<6.5 or >8.5	>6.5 and <8.5	N/A
Temperature	Celsius	12.4	N	N	None	NS	N/A	N	N	N	6.4	None	NS	N/A
Conductivity	mS/cm	601	N	N	None	NS	N/A	N	N	N	468	None	NS	N/A
DO	mg/l	NM	N	N	None	NS	N/A	N	N	N	NM	<6.0	>6.0	N/A
Inorganics														
TDS	mg/l	613	N	N	None	500	N/A	N	N	N	301	500	500	N/A
Chloride	mg/l	62.1	N	N	250	250	N/A	N	N	N	88.9	250	250	N/A
Nitrate	mg/l	<0.05	N	N	5.0/ST/SD	10	N/A	N	N	N	0.410	10/ST/SD	10	N/A
Nitrite	mg/l	<0.05	N	N	1.0/ST/SD	1.0	N/A	N	N	N	<0.05	1.0/ST/SD	1.0	N/A
Ammonia	mg/l	0.590	N	N	2.0/ST/SD	2.0	N/A	N	N	N	<0.05	2.0/ST/SD	2.0	N/A
Phosphorous	mg/l	0.23	N	N	ST/SD	NS	N/A	N	N	N	<0.05	ST/SD	NS	N/A
Organics - Applied to course during year														
Azoxystrobin	ug/l	<1.0	N	N	Any	NS	630	N	N	N	<1.0	Any	NS	630
Boscalid	ug/l	<1.0	N	N	Any	NS	76.5	N	N	N	<1.0	Any	NS	76.5
Chlorantraniliprole	ug/l	<0.5	N	N	Any	NS	5,530	N	N	N	<0.5	Any	NS	5,530
Clopyralid	ug/l	<1.0	N	N	Any	NS	---	N	N	N	<1.0	Any	5	---
Cyazofamid	ug/l	<1.0	N	N	Any	NS	---	N	N	N	<1.0	Any	NS	---
Dithiopyr	ug/l	<1.0	N	N	Any	NS	12.5	N	N	N	<1.0	Any	NS	12.5
Fluazinam	ug/l	<1.0	N	N	Any	NS	---	N	N	N	<1.0	Any	NS	---
Fludioxonil	ug/l	<1.0	N	N	Any	NS	---	N	N	N	<1.0	Any	NS	---
Fluxapyroxad	ug/l	<1.0	N	N	Any	NS	---	N	N	N	<1.0	Any	NS	---
Imidacloprid	ug/l	<1.0	N	N	Any	NS	200	N	N	N	<1.0	Any	NS	200
Iprodione	ug/l	<0.5	N	N	Any	NS	4	N	N	N	<0.5	Any	NS	4
Lambda-cyhalothrin	ug/l	<1.0	N	N	Any	NS	---	N	N	N	<1.0	Any	NS	---
Mefenoxam / Metalaxyl	ug/l	<1.0	N	N	Any	NS	---	N	N	N	<1.0	Any	NS	---
Paclobutrazol	ug/l	<1.0	N	N	Any	NS	87.5	N	N	N	<1.0	Any	NS	87.5
Propamocarb	ug/l	<1.0	N	N	Any	NS	350	N	N	N	<1.0	Any	NS	350
Propiconazole	ug/l	0.63	N	N	Any	NS	4.55	N	N	N	<0.5	Any	NS	4.55
Pyraclastrobin	ug/l	<1.0	N	N	Any	NS	---	N	N	N	<1.0	Any	NS	---
Triadimefon	ug/l	<0.5	N	N	Any	NS	14	N	N	N	<0.5	Any	NS	14
Triadimenol*	ug/l	0.54	N	N	Any	NS	13.5	N	N	N	<0.5	Any	NS	13.5
Trifloxystrobin	ug/l	<0.5	N	N	Any	NS	175	N	N	N	<0.5	Any	NS	175
Trinexapac-ethyl	ug/l	<1.0	N	N	Any	NS	110.5	N	N	N	<1.0	Any	NS	110.5
Organics - Not applied to course during year / Applied within past 5 years														
Carbaryl	ug/l	<0.5	N	N	Any	29	35	N	N	N	<0.5	Any	NS	35
Chlorothalonil	ug/l	<0.5	N	N	Any	5	---	N	N	N	<0.5	Any	NS	---
2,4-D	ug/l	<0.5	N	N	Any	50	35	N	N	N	<0.5	Any	50	35
Dicamba	ug/l	<0.5	N	N	Any	0.44	2000	N	N	N	<0.5	Any	NS	2000
Fenoxaprop-ethyl	ug/l	<0.5	N	N	Any	NS	---	N	N	N	<0.5	Any	NS	---
Flutolanil	ug/l	<0.5	N	N	Any	NS	2100	N	N	N	<0.5	Any	NS	2100
Mecoprop	ug/l	<1.0	N	N	Any	NS	700	N	N	N	<1.0	Any	NS	700
Tebuconazole	ug/l	<1.0	N	N	Any	NS	190**	N	N	N	<1.0	Any	NS	---
Vinclozolin	ug/l	<0.5	N	N	Any	NS	4.2	N	N	N	<0.5	Any	NS	4.2

Response Threshold as per Section 5.7.6 of the Management Plan.

NY Standard - New York State Water Quality Standard per 6 NYCRR Parts 700-705 (1) Class GA groundwater, (2) Class A, A-S, AA, AA-S surface water

50% HAL - 50% of the USEPA Health Advisory Limit. This is the toxicologically significant level for groundwater and surface water sample DS-1 in the absence of a State standard.

SS/ST/SD - State Standard or Statistically Significant Trend or Standard Deviation Exceedence

Any - Any detection triggers the Response Threshold

*Triadimenol is not applied but is a primary metabolite of triadimefon which is applied

**Indicates a Human Health Benchmark for Pesticides (HHBP) as a HAL does not exist

< Indicates compound was not detected above the laboratory reportable limit

Exceedance of the RT
Exceedance of 50% HAL or NYS GWQS

DO - Dissolved oxygen

TDS - Total Dissolved Solids

NM - Not measured

NA - Not analyzed

NS - No standard

N/A - Not applicable

uS/cm - Microseimens per centimeter

mg/l - Milligrams per liter

ug/l - Micrograms per liter

--- - HAL not available

N - Not sampled

FIGURE

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LEGEND

- SURFACE WATER SAMPLING LOCATION
- MONITOR WELL LOCATION
- NEW MONITOR WELL LOCATION (INSTALLED SPRING 2008)
- SEDIMENT SAMPLING LOCATION
- UNDISTURBED BUFFER



**HOLLOW BROOK GOLF CLUB
TOWN OF CORTLANDT, NEW YORK**

WATER QUALITY SAMPLING LOCATIONS

DATE	REVISED	PREPARED BY:					
			WSP USA 500 Summit Lake Drive Suite 450 Valhalla, New York 10595 (914) 747-1120				
DRAWN:	RAC	CHECKED:	DM	DATE:	03/21/19	FIGURE:	1



APPENDIX 1

FERTILIZER AND PESTICIDE APPLICATION SUMMARY

HOLLOW BROOK GOLF CLUB											
1060 Oregon Road, Cortlandt Manor, NY 10567 COUNTY CODE: 55											
CHRISTOPHER D.SMITH #C3835930											
Start Date: 3/18/2020											
End Date											
Date of Application	Company	PRODUCT	ACTIVE INGREDIANT	EPA #	QUANTITY USED	UNITS	RATE OF APP	AREA TREATED+K2819:19:K57	TARGET PEST	APPLICATION METHOD	
3/18/2020	CLEARY	AFFIRM	POLY D ZINC SALT	68713-3-1001	12	LBS	2.4 LB / ACRE	GREENS/APPROACH	LEAF SPOT, ANTHRACNOSE	JOHN DEERE HD 200 70 GALLONS/ACRE	
3/26/2020	BAYER	TARTAN	TRIADMEFON	432-1446	330	OUNCES	1.5 OZ/1000	GREENS/APPROACH	TAKE ALL PATCH, LEAF SPOT,	JOHN DEERE HD 200 70 GALLONS/ACRE	
4/7/2020	SYNGENTA	HERITAGE ACTION	AZOXYSTROBIN	100-1550	88	OUNCES	.4 OZ/1000	GREENS/APPROACH	FAIRY RING, FUSARIUM PATCH	JOHN DEERE HD 200 70 GALLONS/ACRE	
	SYNGENTA	PRIMO MAX	TRINEXAPAC-ETHYL	100-937	30	OUNCES	6 OZ/ACRE	GREENS/APPROACH	GROWTH REGULATOR		
	SYNGENTA	TRIMMIT	PACLOBUTRAZOL	100-1014	30	OUNCES	6 OZ/ACRE	GREENS/APPROACH	POA ANNUA CONTROL		
4/8/2020	SYNGENTA	BANNER MAX	PROPICONIZOL	100-1326	220	OUNCES	1 OZ/1000	TEES	DOLLAR SPOT, ANTHRACNOSE	JOHN DEERE HD 200 70 GALLONS/ACRE	
	DOW AGRI	DIMENSION	DITHIOPYR	62719-542	73	OUNCES	.55 OZ/1000	TEES	PRE EMERGE CRABGRASS		
	SYNGENTA	TRIMMIT	PACLOBUTRAZOL	100-1014	18	OUNCES	6 OZ/ACRE	TEES	POA ANNUA CONTROL		
	SYNGENTA	PRIMO MAX	TRINEXAPAC-ETHYL	100-937	18	OUNCES	6 OZ/ACRE	TEES	GROWTH REGULATOR		
4/29/2020	BAYER	SIGNATURE STRESS	ALLUMINUM TRI	432-1541	41	LBS	2 OZ/ACRE	GREENS/APPROACH	COLD INJURY, EXCESSIVE WEAR	JOHN DEERE HD 200 70 GALLONS/ACRE	
	BAYER	INTERFACE STRESS	IPRODIONE TRIFLOXYSTROBIN	432-1505	660	OUNCES	3 OZ/1000	GREENS/APPROACH	DOLLAR SPOT, LEAF SPOT		
5/7/2020	BAYER	INTERFACE STRESS	IPRODIONE TRIFLOXYSTROBIN	432-1505	396	OUNCES	3 OZ/1000	TEES	DOLLAR SPOT, LEAF SPOT	JOHN DEERE HD 200 70 GALLONS/ACRE	
	BAYER	SIGNATURE STRESS	ALLUMINUM TRI	432-1541	16.5	LBS	2 OZ/ACRE	TEES	PYTHIUM, BENTGRASS DECLINE	JOHN DEERE HD 200 70 GALLONS/ACRE	
	SYNGENTA	ACELEPRYN	CHLORANTRANILIPROLE	100-1489	45	OUNCES	15 OZ/ACRE	TEES	ABW, WHITE GRUB		
	SYNGENTA	PRIMO MAX	TRINEXAPAC-ETHYL	100-937	18	OUNCES	6 OZ/ACRE	TEES	GROWTH REGULATOR		
	SYNGENTA	TRIMMIT	PACLOBUTRAZOL	100-1014	18	OUNCES	6 OZ/ACRE	TEES	POA ANNUA CONTROL		
5/8/2020	DOW AGRI	DIMENSION	DITHIOPYR	62719-542	387	OUNCES	.55 OZ/ACRE	FAIRWAYS	PRE EMERGE CRABGRASS	JOHN DEERE HD 200 50 GALLONS/ACRE	
	SYNGENTA	TRIMMIT	PACLOBUTRAZOL	100-1014	96	OUNCES	6 OZ/ACRE	FAIRWAYS	POA ANNUA CONTROL		
	DOW AGRI	LONTREL	CLOPYRALD	62719-305	96	OUNCES	6 OZ/ACRE	FAIRWAYS	CLOVER		
5/12/2020	SYNGENTA	BANNER MAX	PROPICONIZOL	100-1326	66	OUNCES	.5 OZ/1000	TEES	DOLLAR SPOT	JOHN DEERE HD 200 50 GALLONS/ACRE	

Date of Application	Company	PRODUCT	ACTIVE INGREDIANT	EPA #	QUANTITY USED	UNITS	RATE OF APP	AREA TREATED+K28I9:19:K57	TARGET PEST	APPLICATION METHOD
	SYNGENTA	TRIMMIT	PACLOBUTRAZOL	100-1014	18	OUNCES	6 OZ/ACRE	TEES	POA ANNUA CONTROL	
5/13/2020	SYNGENTA	BANNER MAX	PROPICONIZOL	100-1326	110	OUNCES	.5OZ/1000	GREENS/APPROACH	DOLLAR SPOT	JOHN DEERE HD 200 70 GALLONS/ACRE
	SYNGENTA	PRIMO MAX	TRINEXAPAC-ETHYL	100-937	35	OUNCES	7 OZ/ACRE	GREENS/APPROACH	GROWTH REGULATOR	
5/18/2020	SYNGENTA	BANNER MAX	PROPICONIZOL	100-1326	352	OUNCES	.5 OZ/1000	FAIRWAYS	DOLLAR SPOT	JOHN DEERE HD 200 50 GALLONS/ACRE
	BAYER	BAYLETON	TRIADMEFON	432-1445	176	OUNCES	.25 OZ/1000	FAIRWAYS	DOLLAR SPOT	
	SYNGENTA	PRIMO MAX	TRINEXAPAC-ETHYL	100-937	160	OUNCES	10 OZ/ACRE	FAIRWAYS	GROWTH REGULATOR	
5/19/2020	BAYER	SIGNATURE STRESS	ALLUMINUM TRI	432-1541	16.5	LBS	2 OZ/1000	GREENS/APPROACH	PYTHIUM, BENTGRASS DECLINE	JOHN DEERE HD 200 70 GALLONS/ACRE
	SYNGENTA	SECURE	FLUAZINAM	71512-20-100	110	OUNCES	.5 OZ/1000	GREENS/APPROACH	ALGAE, ANTHRACNOSE	
	SYNGENTA	PRIMO MAX	TRINEXAPAC-ETHYL	100-937	40	OUNCES	8 OZ/ACRE	GREENS/APPROACH	GROWTH REGULATOR	
5/26/2020	BAYER	BANOL	PROPAMOCARB	432-942	660	OUNCES	3 OZ/1000	GREENS/APPROACH	PYTHIUM	JOHN DEERE HD 200 70 GALLONS/ACRE
	SYNGENTA	TRIMMIT	PACLOBUTRAZOL	100-1014	30	OUNCES	6 OZ/ACRE	GREENS/APPROACH	POA ANNUA CONTROL	
6/2/2020	BAYER	SIGNATURE STRESS	ALLUMINUM TRI	432-1541	16.5	LBS	2 OZ/1000	GREENS/APPROACH	PYTHIUM, BENTGRASS DECLINE	JOHN DEERE HD 200 70 GALLONS/ACRE
	BASF	XZEMPLAR	FLUXAPYROXAD	7969-349	46	OUNCES	9.2 OZ/ACRE	GREENS/APPROACH	BROWN PATCH, ALGAE	
6/4/2020	SYNGENTA	BANNER MAX	PROPICONIZOL	100-1326	353	OUNCES	.5 OZ/1000	FAIRWAYS	DOLLAR SPOT	JOHN DEERE HD 200 50 GALLONS/ACRE
	BAYER	BAYLETON	TRIADMEFON	432-1445	176	OUNCES	.25 OZ/1000	FAIRWAYS	DOLLAR SPOT	
6/4/2020	BAYER	TARTAN	TRIADMEFON TRIFLOXISTROBIH	432-1447	132	OUNCES	1 OZ/1000	TEES	TALE ALL PATCH, ANTHRACNOSE	JOHN DEERE HD 200 70 GALLONS/ACRE
	BAYER	SIGNATURE STRESS	ALLUMINUM TRI	432-1541	33	LBS	4 OZ/1000	TEES	PYTHIUM	
6/12/2020	BAYER	SIGNATURE STRESS	ALLUMINUM TRI	432-1541	41.25	LBS	3 OZ/1000	GREENS/APPROACH	PYTHIUM, EXCESSIVE WEAR	JOHN DEERE HD 200 70 GALLONS/ACRE
	SYNGENTA	SECURE	FLUAZINAM	71512-20-100	110	OUNCES	.5 OZ/1000	GREENS/APPROACH	ALGAE ANTHRACNOSE	
	SYNGENTA	PRIMO MAX	TRINEXAPAC-ETHYL	100-937	30	OUNCES	6 OZ/ACRE	GREENS/APPROACH	GROWTH REGULATOR	
6/18/2020	BAYER	BANOL	PROPAMOCARB	432-542	528	OUNCES	3 OZ/1000	GREENS	PYTHIUM ROOT ROT	JOHN DEERE HD 200 70 GALLONS/ACRE
	SYNGENTA	BANNER MAX	PROPICONIZOL	100-1326	176	OUNCES	1 OZ/1000	GREENS	ANGHRACNOSE	
6/23/2020	BAYER	BAYLETON	TRIADMEFON	432-1445	704	OUNCES	1 OZ/1000	FAIRWAYS	BROWN PATCH, ANTHRACNOSE	JOHN DEERE HD 200 50 GALLONS/ACRE
	SYBGENA	SUBDUE MAX	MEFENOXEM	100-796	352	OUNCES	.5 OZ/1000	FAIRWAYS	PYTHIUM	
	CONTROL SOLUTIONS	SCIMITAR	LAMBDA CYHALOTHRIN	53883-146	160	OUNCES	10 OZ/ACRE	FAIRWAYS	CUTWORM, BTA ADULE	
6/25/2020	SYNGENTA	SECURE	FLUAZINAM	71512-20-100	110	OUNCES	.5 OZ/1000	GREENS/APPROACH	ALGAE, ANTHRACNOSE	JOHN DEERE HD 200 70 GALLONS/ACRE
	BAYER	SIGNATURE STRESS	ALLUMINUM TRI	432-942	16.5	LBS	2 OZ/1000	GREENS/APPROACH	PYTHIUM, BENTGRASS DECLINE	
7/7/2020	BASF	SEGWAY	CYAZOFAMID	71512-13279	158	OUNCES	.9 OZ/1000	GREENS	PYTHIUM, CROWN/ROOT ROT	JOHN DEERE HD 200 70 GALLONS/ACRE
7/7/2020	BASF	EMERALD	BOSCALID	7969-196	91.2	OUNCES	5.7 OZ/ACRE	FAIRWAYS	DOLLAR SPOT	JOHN DEERE HD 200 50 GALLONS/ACRE

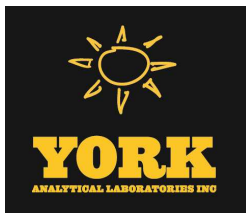
Date of Application	Company	PRODUCT	ACTIVE INGREDIANT	EPA #	QUANTITY USED	UNITS	RATE OF APP	AREA TREATED+K28I9:19:K5 7	TARGET PEST	APPLICATION METHOD
	SYNGENTA	PRIMO MAX	TRINEXAPAC-ETHYL	100-937	160	OUNCES	10 OZ/ACRE	FAIRWAYS	GROWTH REGULATOR	
7/7/2020	SYNGENTA	BANNER MAX	PROPICONIZOL	100-1326	132	OUNCES	1 OZ/1000	TEES	DOLLAR SPOT,BROWN PATCH	JOHN DEERE HD 200 70 GALLONS/ACRE
	SYNGENTA	TRIMMIT	PACLOBUTRAZOL	100-1014	18	OUNCES	6 OZ/ACRE	TEES	POA ANNUA CONTROL	
7/15/2020	BAYER	SIGNATURE STRESS	ALLUMINUM TRI	432-1541	41.25	OUNCES	3 OZ/1000	GREENS/APPROACH	PYTHIUM, WEAR STRESS	JOHN DEERE HD 200 70 GALLONS/ACRE
	BAYER	CHIPCO 26 GT	IPRODIONE	432-888	660	OUNCES	3 OZ/1000	GREENS/APPROACH	DOLLAR SPOT	
7/22/2020	SYNGENTA	SUBDUE MAX	MEFENOXEM	100-796	165	OUNCES	.75 OZ/1000	GREENS/APPROACH	PYTHIUM	JOHN DEERE HD 200 70 GALLONS/ACRE
	SYNGENTA	SECURE	FLUAZINAM	71512-20-100	110	OUNCES	.50 OZ/1000	GREENS/APPROACH	ALGAE/ANTHRACNOS	
7/22/2020	SYNGENTA	BANNER MAX	PROPICONIZOL	100-1326	352	OUNCES	.50 OZ/1000	FAIRWAYS	DOLLAR SPOT	JOHN DEERE HD 200 50 GALLONS/ACRE
	SYNGENTA	PRIMO MAX	TRINEXAPAC-ETHYL	100-937	128	OUNCES	8 OZ/ACRE	FAIRWAYS	GROWTH REGULATOR	
7/27/2020	BASF	SEGWAY	CYAZOFAMID	7969-196	158	OUNCES	.9 OZ/1000	GREENS	PYTHIUM	JOHN DEERE HD 200 70 GALLONS/ACRE
8/3/2020	BASF	HONOR INTRINSIC	BOSCALID AND Pyraclostrobin	7969-255	145	OUNCES	1.1 oz/1000	TEES	PATCH DISEASE	JOHN DEERE HD 200 70 GALLONS/ACRE
8/6/2020	BAYER	SIGNATURE STRESS	ALLUMINUM TRI	432-1541	33	LBS	3 OZ/1000	GREENS/APPROACH	PYTHIUM	JOHN DEERE HD 200 70 GALLONS/ACRE
	BAYER	TARTAN	TRIADMEFON TRIFLOXISTROBIH	432-1447	220	OUNCES	1 OZ/1000	GREENS/APPROACH	ANTHRACNOSE	JOHN DEERE HD 200 70 GALLONS/ACRE
	SYNGENTA	SCIMITAR	LAMBDA CYHALOTHRIN	53883-146	50	OUNCES	10 OZ/ACRE	GREENS/APPROACH	ADULTS ABW	JOHN DEERE HD 200 70 GALLONS/ACRE
8/14/2020	BAYER	SIGNATURE STRESS	ALLUMINUM TRI	432-1541	41	LBS	3 OZ/1000	GREENS/APPROACH	PYTHIUM, WEAR STRESS	
	BAYER	INTERFACE STRESS	IPRODIONE TRIFLOXYSTROBIN	432-1505	660	OUNCES	3 OZ/1000	GREENS/APPROACH	PATCH DISEASE	
8/17/2020	SYNGENTA	SUBDUE MAX	MEFENOXEM	100-796	66	OUNCES	.5 OZ/1000	TEES	PYTHIUM	JOHN DEERE HD 200 70 GALLONS/ACRE
	BAYER	BAYLETON	TRIADMEFON	432-1445	66	OUNCES	.5 OZ/1000	TEES	DOLLAR SPOT	
	SYNGENTA	BANNER MAX	PROPICONIZOL	100-1326	66	OUNCES	.5 OZ/1000	TEES	DOLLA SPOT	
	BAYER	MERIT	IMIDACLOPRID	432-1318	19.2	OUNCES	6.4 OZ/1000	TEES	GRUBS	
8/17/2020	SYNGENTA	SUBDUE MAX	MEFENOXEM	100-796	352	OUNCES	.5 OZ/1000	FAIRWAYS	PYTHIUM	JOHN DEERE HD 200 50 GALLONS/ACRE
	SYNGENTA	BANNER MAX	PROPICONIZOL	100-1326	352	OUNCES	.5 OZ/1000	FAIRWAYS	PATCH DISEASE	
	BAYER	BAYLETON	TRIADMEFON	432-1445	352	OUNCES	.5 OZ/1000	FAIRWAYS	DOLLAR SPOT	
	BAYER	MERIT	IMIDACLOPRID	432-1318	102	OUNCES	6.4 OZ/1000	FAIRWAYS	GRUBS	
8/20/2020	SYNGENTA	SECURE	FLUAZINAM	71512-20-100	88	OUNCES	.5 OZ/1000	GREENS	ALGAE	JOHN DEERE HD 200 70 GALLONS/ACRE
	SYNGENTA	HERITAGE ACTION	AZOXYSTROBIN	100-1550	53	OUNCES	.3 OZ/1000	GREENS	FAIRY RING,FUSARIUM PATCH	
8/26/2020	BAYER	SIGNATURE STRESS	ALLUMINUM TRI	432-1541	27.5	LBS	2 OZ/1000	GREENS/APPROACH	PYTHIUM, WEAR STRESS	JOHN DEERE HD 200 70 GALLONS/ACRE
	BAYER	TARTAN	TRIADMEFON TRIFLOXISTROBIH	432-1447	220	OUNCES	1 OZ/1000	GREENS/APPROACH	ANTHRACNOSE	
	SYNGENTA	SCIMITAR	LAMBDA CYHALOTHRIN	53883-146	50	OUNCES	10 OZ/ACRE	GREENS/APPROACH	ADULTS ABW	
9/3/2020	SYNGENTA	BANNER MAX	PROPICONIZOL	100-1326	352	OUNCES	.5 OZ/1000	FAIRWAYS	ANTHRACNOSE	JOHN DEERE HD 200 50 GALLONS/ACRE
	BAYER	BAYLETON	TRIADMEFON	432-1445	352	OUNCES	.5 OZ/1000	FAIRWAYS	DOLLAR SPOT	

Date of Application	Company	PRODUCT	ACTIVE INGREDIANT	EPA #	QUANTITY USED	UNITS	RATE OF APP	AREA TREATED+K28I9:19:K57	TARGET PEST	APPLICATION METHOD
9/12/2020	BAYER	SIGNATURE STRESS	ALLUMINUM TRI	432-1541	41	LBS	3 OZ/1000	GREENS	PYTHIUM, WEAR STRESS	JOHN DEERE HD 200 70 GALLONS/ACRE
	BAYER	CHIPCO 26 GT	IPRODIONE	432-888	528	OUNCES	3 OZ/1000	GREENS	DOLLAR SPOT	
	SYNGENTA	SCIMITAR	LAMBDA CYHALOTHRIN	53883-146	40	OUNCES	10 OZ/ACRE	GREENS	ADULTS ABW	
9/14/2020	BAYER	BAYLETON	TRIADMEFON	432-1445	132	OUNCES	1 OZ/1000	TEES	DOLLAR SPOT, FAIRY RING	JOHN DEERE HD 200 70 GALLONS/ACRE
	SYNGENTA	SUBDUE MAX	MEFENOXEM	100-796	100	OUNCES	.75 OZ/1000	TEES	PYTHIUM	
9/17/2020	BAYER	INTERFACE STRESS	IPRODIONE TRIFLOXYSTROBIN	432-1447	660	OUNCES	3 OZ/1000	GREENS/APPROACH	ANTHRACNOSE	JOHN DEERE HD 200 70 GALLONS/ACRE
9/25/2020	BASF	XZEMPLAR	FLUXAPYROXAD	7969-349	37	OUNCES	.21 OZ/1000	GREENS	ALGAE	JOHN DEERE HD 200 70 GALLONS/ACRE
9/28/2020	SYNGENTA	BANNER MAX	PROPICONIZOL	100-1326	352	OUNCES	.5 OZ/1000	FAIRWAYS	DOLLAR SPOT,PATCH DISEASE	JOHN DEERE HD 200 50 GALLONS/ACRE
	BASF	EMERALD	BOSCALID	7969-196	91.2	OUNCES	5.7 OZ/ACRE	FAIRWAYS	DOLLAR SPOT	
10/5/2020	BAYER	TARTAN	TRIADMEFON TRIFLOXISTROBIH	432-1447	220	OUNCES	1 OZ/1000	GREENS/APPROACH	ANTHRACNOSE	JOHN DEERE HD 200 70 GALLONS/ACRE
	BAYER	SIGNATURE STRESS	ALLUMINUM TRI	432-1541	44	LBS	3 OZ/1000	GREENS/APPROACH	PYTHIUM, WEAR STRESS	
10/5/2020	SYNGENTA	MEDALLION	FLUDIOXONIL	100-1448	128	OUNCES	1 OZ/1000	TEES	ANTHRACNOSE	JOHN DEERE HD 200 70 GALLONS/ACRE
	BAYER	CHIPCO 26 GT	IPRODIONE	432-888	330	OUNCES	2.5 OZ/1000	TEES	DOLLAR SPOT	
10/20/2020	BASF	HONOR INTRINSIC	BOSCALID AND Pyraclostrobin	7969-255	80	OUNCES	16 OZ/ACRE	GREENS/APPROACH	PATCH DISEASE	JOHN DEERE HD 200 70 GALLONS/ACRE
10/21/2020	BAYER	CHIPCO 26 GT	IPRODIONE	432-888	2112	OUNCES	3 OZ/1000	FAIRWAYS	DOLLAR SPOT	JOHN DEERE HD 200 50 GALLONS/ACRE
	SYNGENTA	BANNER MAX	PROPICONIZOL	100-1326	634	OUNCES	.9 OZ/1000	FAIRWAYS	PATCH DISEASE	
	SYNGENTA	PRIMO MAX	TRINEXAPAC-ETHYL	100-937	256	OUNCES	16 OZ/ACRE	FAIRWAYS	GROWTH REGULATOR	
11/20/2020	CLEARY	AFFIRM	POLY D ZINC SALT	68713-3-1001	12	LBS	2.4 LB / ACRE	GREENS/APPROACH	SNOW MOLD	JOHN DEERE HD 200 70 GALLONS/ACRE
11/24/2020	CLEARY	AFFIRM	POLY D ZINC SALT	68713-3-1001	7.2	LBS	2.4 LB / ACRE	TEES	SNOW MOLD	JOHN DEERE HD 200 70 GALLONS/ACRE
11/24/2020	SYNGENTA	BANNER MAX	PROPICONIZOL	100-1326	704	OUNCES	1 OZ/1000	FAIRWAYS	SNOW MOLD	JOHN DEERE HD 200 50 GALLONS/ACRE
	BAYER	CHIPCO 26 GT	IPRODIONE	432-888	2112	OUNCES	3 OZ/1000	FAIRWAYS	SNOW MOLD	



APPENDIX 2

LABORATORY ANALYTICAL REPORT SUMMER 2020



Technical Report

prepared for:

WSP USA, Inc. (White Plains, NY)
500 Summit Lake Drive, Suite 450
Valhalla NY, 10595
Attention: John Benvegna

Report Date: 09/17/2020
Client Project ID: Hollow Brook Golf Course (HBGC)
York Project (SDG) No.: 2010493

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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132-02 89th AVENUE
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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 09/17/2020
Client Project ID: Hollow Brook Golf Course (HBGC)
York Project (SDG) No.: 20I0493

WSP USA, Inc. (White Plains, NY)
500 Summit Lake Drive, Suite 450
Valhalla NY, 10595
Attention: John Benvegna

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on September 11, 2020 with a temperature of 3.5 C. The project was identified as your project: **Hollow Brook Golf Course (HBGC)**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20I0493-01	DS-1	Water	09/10/2020	09/11/2020
20I0493-02	GW-1R	Water	09/10/2020	09/11/2020

General Notes for York Project (SDG) No.: 20I0493

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 09/17/2020





Sample Information

Client Sample ID: DS-1

York Sample ID: 2010493-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

2010493

Hollow Brook Golf Course (HBGC)

Water

September 10, 2020 10:45 am

09/11/2020

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	60.0		mg/L	2.50	5	EPA 300.0 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	09/14/2020 16:34	09/14/2020 21:37	MAO

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	0.373		mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/11/2020 16:07	09/11/2020 20:25	ZTS

Nitrite as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND		mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,PADEP	09/11/2020 16:07	09/11/2020 20:25	ZTS

Ammonia Nitrogen as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	Ammonia Nitrogen as N	ND		mg/L	0.0500	1	SM 4500-NH3 D Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/15/2020 14:33	09/15/2020 22:42	MAO

Phosphorous, total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Phosphorous, Total as P	ND		mg/L	0.050	1	SM 4500-P B5/E Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/15/2020 14:28	09/15/2020 22:06	ZTS

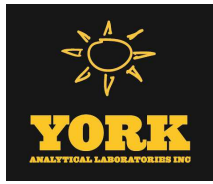
Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	608		mg/L	10.0	1	SM 2540C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	09/15/2020 18:35	09/17/2020 16:55	AA



Sample Information

Client Sample ID: GW-1R

York Sample ID: 20I0493-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20I0493

Hollow Brook Golf Course (HBGC)

Water

September 10, 2020 11:40 am

09/11/2020

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	64.0		mg/L	2.50	5	EPA 300.0	09/14/2020 16:34	09/14/2020 22:44	MAO
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND		mg/L	0.0500	1	EPA 300.0	09/11/2020 16:07	09/11/2020 20:48	ZTS
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Nitrite as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND		mg/L	0.0500	1	EPA 300.0	09/11/2020 16:07	09/11/2020 20:48	ZTS
							Certifications:	NELAC-NY10854,CTDOH,PADEP		

Ammonia Nitrogen as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	Ammonia Nitrogen as N	0.623		mg/L	0.0500	1	SM 4500-NH3 D	09/15/2020 14:33	09/15/2020 22:42	MAO
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Phosphorous, total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Phosphorous, Total as P	0.13		mg/L	0.050	1	SM 4500-P B5/E	09/15/2020 14:28	09/15/2020 22:06	ZTS
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	414		mg/L	10.0	1	SM 2540C	09/15/2020 18:35	09/17/2020 16:55	AA
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		



Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



York Analytical Laboratories, Inc.
 120 Research Drive
 Stratford, CT 06615
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 www.yorklab.com

YORK
 ANALYTICAL LABORATORIES INC.

Field Chain-of-Custody Record

YORK Project No.

2010493

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

Page 1 of 1

YOUR INFORMATION		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time			
Company: WSP	Company: SAME	Company: Hollow Brook Golf Club	Company: Hollow Brook Golf Club	Company: Hollow Brook Golf Club	Company: Hollow Brook Golf Club	CT RCP	Standard Excel EDD	RUSH - Next Day			
Address: 500 Summit Lake Dr. Ste 404 Valhalla, NY	Address: 1060 Brewster Rd. Cortlandt Manor, NY 10567	Address: 1060 Brewster Rd. Cortlandt Manor, NY 10567	Address: 1060 Brewster Rd. Cortlandt Manor, NY 10567	Address: 1060 Brewster Rd. Cortlandt Manor, NY 10567	Address: 1060 Brewster Rd. Cortlandt Manor, NY 10567	CT RCP DQA/DUE	Standard Excel EDD	RUSH - Two Day			
Phone: 914 694 5711	Phone:	Phone:	Phone:	Phone:	Phone:	NJDEP Reduced Deliverables	EQULS (Standard)	RUSH - Three Day			
Contact: JOHN.BENYEBNA@WSP.COM	Contact:	Contact: EUGENE PERECSON	Contact: EUGENE PERECSON	Contact: EUGENE PERECSON	Contact: EUGENE PERECSON	NJDEP A Package	NYSDEC EQUIS	RUSH - Four Day			
E-mail:	E-mail:	E-mail:	E-mail:	E-mail:	E-mail:	NY ASP B Package	Other:	Standard (5-7 Day)	X		
<p>PLEASE PRINT CLEARLY AND LEGIBLY. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.</p> <p>Michael K. Detelice Samples Collected by: (print your name above and sign below) Michael K. Detelice</p>		<p>Matrix Codes</p> <p>S - soil / solid GW - groundwater DW - drinking water WW - wastewater O - Oil / Other</p>		<p>Samples From</p> <p>New York New Jersey Connecticut Pennsylvania Other</p>		<p>Report / EDD Type (circle selections)</p> <p>Summary Report QA Report NY ASP A Package NY ASP B Package NJDEP Reduced Deliverables NJDEP SRP HazSite Other:</p>		<p>YORK Reg. Comp.</p> <p>Compared to the following Regulation(s): (please fill in)</p>		<p>Container Description</p> <p>1.500 M P. 95 UNPEP 1.500 M P. 95 UNPEP ↓</p>	
<p>Sample Identification</p> <p>DS-I GW-IR</p>		<p>Sample Matrix</p> <p>W GW</p>		<p>Date/Time Sampled</p> <p>9.10.20 1045 ↓ 1140</p>		<p>Analysis Requested</p> <p>NITRATE, NITRITE, AMMONIA CHLORIDE, TDS, Tot. Phos.</p>		<p>Special Instruction</p> <p>Field Filtered Lab to Filter</p>		<p>Date/Time</p> <p>9-11-20 1556</p>	
<p>Comments:</p> <p>WT. Detelice WSP</p>		<p>Preservation: (check all that apply)</p> <p>HCl MeOH HNO3 H2SO4 NaOH ZnAc Ascorbic Acid Other:</p>		<p>Samples Relinquished by / Company</p> <p>9-11-20 8:50 ↓ Same as received by / Company</p>		<p>Samples Relinquished by / Company</p> <p>9-11-20 8:50 ↓ Same as received by / Company</p>		<p>Temp. Received at Lab</p> <p>3.5 Degrees C</p>		<p>Date/Time</p> <p>9-11-20 8:50</p>	



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794



Report Number: 20-009752/D01.R00
Report Date: 09/22/2020
Purchase Order:
Received: 09/11/20 10:33 AM
Project Name: Hollowbrook Golf

Cover Letter

WSP USA
500 Summit Lake Drive, Suite 450
Valhalla New York 10595
United States

Dear John Benvegna,

Enclosed please find Columbia Laboratories analytical report for samples received as order number 20-009752 on 09/11/2020 at 10:33. Should you have any questions about this report or any other matter, please do not hesitate to contact us. We are here to help you.

Thank you for allowing Columbia Laboratories to be of service to you, we appreciate your business.

Sincerely,

Derrick Tanner
General Manager



12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794

Report Number: 20-009752/D01.R00
Report Date: 09/22/2020
Purchase Order:
Received: 09/11/20 10:33 AM
Project Name: Hollowbrook Golf



Customer: WSP USA
 500 Summit Lake Drive, Suite 450
 Valhalla New York 10595
 United States

Sample ID: DS-1
Sample Matrix: Water
Laboratory ID: 20-009752-0001
Evidence of Cooling: Yes
Temp: 8 °C

Sample Results

Other Pesticides

WSP custom

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Dithiopyr	< LOQ	µg/L	1.00	09/22/20	AOAC 2007.01 & EN 15662 (mod)	
Fenoxaprop-ethyl	< LOQ	µg/L	0.500	09/22/20	AOAC 2007.01 & EN 15662 (mod)	
Siduron ¹	< LOQ	µg/L	1.00	09/22/20	AOAC 2007.01 & EN 15662 (mod)	
Trinexapac-ethyl	< LOQ	µg/L	1.00	09/22/20	AOAC 2007.01 & EN 15662 (mod)	

Pesticides

Multi-Residue Pesticide Profile

Analyte	Result	Units	Analyzed	Method	Notes
Multi-Residue Pesticide Profile	< LOQ for all analytes	µg/L	09/22/20	AOAC 2007.01 & EN 15662 (mod)	



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Project Name: Hollowbrook Golf



Customer: WSP USA
 500 Summit Lake Drive, Suite 450
 Valhalla New York 10595
 United States

Sample ID: GW-1R
Sample Matrix: Water
Laboratory ID: 20-009752-0002
Evidence of Cooling: Yes
Temp: 8 °C

Sample Results

Other Pesticides

WSP custom

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Dithiopyr	< LOQ	µg/L	1.00	09/22/20	AOAC 2007.01 & EN 15662 (mod)	
Fenoxaprop-ethyl	< LOQ	µg/L	0.500	09/22/20	AOAC 2007.01 & EN 15662 (mod)	
Siduron†	< LOQ	µg/L	1.00	09/22/20	AOAC 2007.01 & EN 15662 (mod)	
Trinexapac-ethyl	< LOQ	µg/L	1.00	09/22/20	AOAC 2007.01 & EN 15662 (mod)	

Pesticides

Multi-Residue Pesticide Profile

All compounds on the attached sheet were found to be <LOQ except those listed

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Propiconazole	0.800	µg/L	0.500	09/22/20	AOAC 2007.01 & EN 15662 (mod)	
Triadimenol	1.00	µg/L	0.500	09/22/20	AOAC 2007.01 & EN 15662 (mod)	

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

† = Analyte not ISO accredited.

Units of Measure

µg/L = Micrograms per liter = parts per billion (ppb)

Approved Signatory

Derrick Tanner
 General Manager



12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794

Report Number: 20-009752/D01.R00
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Project Name: Hollowbrook Golf

Columbia Food Laboratories, Inc
 P2220 Multi-Residue Profile in Water

Compound	LOQ	Compound	LOQ	Compound	LOQ
2,4-D	0.5	Carbophenothion-methyl	1	Desmedipham	1
2,4-DB	1	Carboxin	1	Diallate	1
2,4-DP (Dichlorprop)	1	Carfentrazone-ethyl	1	Diazinon	1
2,4,5-TP	1	Chlorantraniliprole	0.5	Diazoxon	1
Acephate	2	Chlordane, cis-	1	Dicamba	0.5
Acequinocyl	1	Chlordane, trans-	1	Dichlobenil	1
Acetamiprid	1	Chlordimeform	1	Dichlofenthion	1
Acetochlor	1	Chlorfenapyr	1	Dichlofluanid	1
Aciflorfen	1	Chlorfenson (Ovex)	1	Dichlorbenzamide	1
Acrinathrin	1	Chlorfenvinphos	1	Dichlorvos	1
Alachlor	1	Chlorimuron-ethyl	1	Diclobutrazol	1
Aldicarb	1	Chlornitrofen (CNP)	1	Diclofop-methyl	1
Aldicarb sulfoxide	1	Chlorobenzilate	1	Dicloran	1
Aldoxycarb (Aldicarb-sulfuron)	1	Chloroneb	1	Dicofol, p,p'-	1
Aldrin	1	Chlorothalonil	0.5	Dicofol, o,p'-	1
Ametryn	1	Chlorpropham (CIPC)	1	Dicrotophos	1
Aspon	1	Chlorpyrifos (Chlorpyrifos ethyl)	1	Dieldrin	1
Atrazine	1	Chlorpyrifos-methyl	1	Diethofencarb	1
Atrazine-desethyl	1	Chlorsulfuron	1	Diethyltoluamide (DEET)	1
Avermectin B1a/B1b (Abemectin)	1	Chlorthion	1	Difenoconazole	1
Azinphos-ethyl	1	Chlorthiophos	1	Difflubenzuron	1
Azinphos-methyl	1	Cinerin	1	Diffuzenzopyr	1
Azoxystrobin	1	Clethodim	1	Dimethenamide	1
Benalaxyl	1	Clethodim Sulfone	1	Dimethoate	1
Bendiocarb	1	Clethodim Sulfoxide	1	Dimethomorph	1
Benfluralin	1	Clofentezine	1	Diniconazole	1
Benoxacor	1	Clomazone	1	Dinocap	1
Bensulide	1	Clopyralid	1	Dinoseb	1
Bentazone	1	Clothianidin	1	Dinotefuran	1
BHC alpha (HCH)	1	Coumaphos	1	Dioxathion	1
BHC beta (HCH)	1	Crotoxyphos	1	Diphenamid	1
BHC delta (HCH)	1	Cyanazine	1	Diphenylamine	1
Bifenazate	1	Cyanofenphos	1	Disulfoton	1
Bifenox	1	Cyanophos	1	Disulfoton sulfone	1
Bifenthrin	1	Cyantraniliprole	1	Disulfoton sulfoxide	1
Binapacryl	1	Cyazofamid	1	Dithianon	1
Bitertanol	1	Cycloate	1	Diuron	1
Boscalid (Nicobifen)	1	Cycloxydim	1	DNOC	1
Bromacil	1	Cyfluthrin	1	Edifenphos	1
Bromophos (Bromophos-methyl)	1	Cyhalothrin, lambda	1	Endosulfan alpha	1
Bromophos-ethyl	1	Cymoxanil	1	Endosulfan beta	1
Bromopropylate	1	Cypermethrin	1	Endosulfan sulfate	1
Bromoxynil	1	Cyprodinil	1	Endrin	1
Bromuconazole	1	Cyromazine	1	Endrin aldehyde	1
Bupirimate	1	Dacthal (Chlorthal-dimethyl)	1	EPN	1
Buprofezin	1	DDD, o,p'-	1	EPTC (Eptam)	1
Butachlor	1	DDD, p,p'-	1	Esfenvalerate/Fenvalerate	1
Butralin	1	DDE, o,p'-	1	Etaconazole	1
Butylate	1	DDE, p,p'-	1	Ethalfuralin	1
Cadusafos	1	DDT, o,p'-	1	Ethiofencarb	1
Captafol	5	DDT, p,p'-	1	Ethion	1
Captan	2	DEF (Tribufos)	1	Ethirimol	1
Carbaryl	0.5	Deltamethrin	1	Ethofumesate	1
Carbendazim	1	Demeton-S	1	Ethoprophos	1
Carbofuran	1	Demeton-S methyl	1	Ethoxyquin	1
Carbofuran, 3-hydroxy	1	Demeton-S methyl sulfone	1	Etofenprox	1
Carbophenothion	1				

LOQ = Limit of quantitation, µg/L (ppb)



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Project Name: Hollowbrook Golf

Columbia Food Laboratories, Inc
 P2220 Multi-Residue Profile in Water

Compound	LOQ	Compound	LOQ	Compound	LOQ
Etoxadazole	1	Hexaconazole	1	Metolachlor	1
Etridiazole	1	Hexazinone	1	Metolcarb	1
Etrifos	1	Hexythiazox	1	Metribuzin	1
Famoxadone	1	Hydroprene	1	Metsulfuron-methyl	1
Famphur	1	Imazalil	1	Mevinphos	1
Fenamidone	1	Imazamox	1	MGK 264	1
Fenamiphos	1	Imazapic	1	Mirex	1
Fenamiphos sulfone	1	Imazapyr	1	Molinate	1
Fenamiphos sulfoxide	1	Imazaquin	1	Monocrotophos	1
Fenarimol	1	Imazethaphyr	1	Monolinuron	1
Fenbuconazole	1	Imidacloprid	1	Myclobutanil	1
Fenchlorphos	1	Imidoxone	1	Naled	1
Fenhexamid	1	Indaziflam	1	Napropamide	1
Fenitrothion	1	Indoxacarb	1	Neburon	1
Fenobucarb	1	Iprobenfos	1	Nicosulfuron	1
Fenoxycarb	1	Iprodione	0.5	Nitrapyrin	5
Fenpropathrin	1	Isazophos	1	Nitrofen	1
Fenpyroximate	1	Isobenzan	1	Norflurazon	1
Fenson	1	Isocarbophos	1	Novaluron	1
Fensulfothion	1	Isodrin	1	Nuarimol	1
Fenthion	1	Isofenphos	1	Omethoate	1
Fenuron	1	Isofenphos-methyl	1	O-Phenylphenol	1
Fipronil	1	Isofenphos OA	1	Oryzalin	1
Flonicamid	1	Isoproc carb	1	Oxadiazon	1
Fluazifop	1	Isopropalin	1	Oxadixyl	2
Fluazinam	1	Isoprothiolane	1	Oxamyl	1
Fluchloralin	1	Isoproturon	1	Oxamyl-oxime	1
Flucythrinate	1	Isoxaben	1	Oxylordane	1
Fludioxonil	1	Isoxaflutole	1	Oxydemeton-Methyl	1
Flufenacet	1	Jasmolin	1	Oxyfluorfen	1
Flumioxazin	1	Kresoxim-methyl	1	Oxythioquinox	1
Fluometuron	1	Lactofen	1	Pacllobutrazol	1
Fluopicolide	1	Lenacil	1	Paraoxon (Paraoxon-ethyl)	1
Fluopyram	1	Lindane (gamma BHC)	1	Paraoxon methyl	1
Fluoxastrobin	1	Linuron	1	Parathion ethyl	1
Flupyradifurone	1	Malaoxon	1	Parathion methyl	1
Fluridone	1	Malathion	1	Penconazole	1
Fluroxypyr	1	Mandipropamid	1	Pendimethalin	1
Flusilazol	1	MCPA/MCPB	1	Penflufen	1
Fluthiacet Methyl	1	Mecarbam	1	Pentachloroaniline	1
Flutolanil	0.5	Mecoprop (MCP)	1	Pentachlorobenzene (PCB)	1
Fluvalinate	1	Mepanipyrim	1	Pentachlorophenol	1
Fluxapyroxad	1	Mesosulfuron methyl	1	Pentachlorothioanisole (PCTA)	1
Folpet	2	Mesotrione	1	Penthiopyrad	1
Fomesafen	1	Metalaxyl / Mefenoxam	1	Permethrin	1
Fonofos	1	Metconazole	1	Perthane	1
Foramsulfuron	1	Methacrifos	1	Phenmedipham	1
Forchlorfenuron	1	Methamidophos	1	Phenothrin	1
Formetanate	1	Methidathion	1	Phenthoate	1
Furathiocarb	1	Methiocarb	1	Phorate	1
Halosulfuron-methyl	1	Methiocarb sulfone	1	Phorate OA	1
Haloxyfop	1	Methiocarb sulfoxide	1	Phorate Sulfone	1
Heptachlor	1	Methomyl	1	Phorate Sulfoxide	1
Heptachlor epoxide	1	Methoxychlor	1	Phosalone	1
Heptenophos	1	Methoxyfenozide	1	Phosmet	1
Hexachlorobenzene	1	Metobromuron	1	Phosphamidon	1

LOQ = Limit of quantitation, µg/L (ppb)



12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794

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Project Name: Hollowbrook Golf



Columbia Food Laboratories, Inc
 P2220 Multi-Residue Profile in Water

Compound	LOQ	Compound	LOQ	Compound	LOQ
Phoxim	1	Quinalphos	1	Terbutryn	1
Pinoxaden	1	Quinclorac	1	Tetrachlorvinphos	1
Piperonyl butoxide	1	Quinoxifen	1	Tetraconazole	1
Pirimicarb	1	Quintozene (PCNB)	1	Tetradifon	1
Pirimiphos-methyl	1	Quizalofop	1	Tetramethrin	1
Pirimiphos-ethyl	1	Resmethrin	1	Tetrasul	1
Pirimisulfuron-methyl	1	Rimsulfuron	1	Thiabendazole	1
Prallethrin	1	Rotenone	1	Thiabendazole, 5-hydroxy	1
Prochloraz	1	S421	1	Thiacloprid	1
Procymidone	1	Saflufenacil	1	Thiamethoxam	1
Prodiamine	0.5	Sebuthylazine	1	Thifensulfuron-methyl	1
Profenofos	1	Sethoxydim	1	Thiobencarb	1
Profluralin	1	Simazine	1	Thiodicarb	1
Promecarb	1	Simetryn	1	Thiometon	1
Prometon	1	Spinetoram	1	Thionazin	1
Prometryn	1	Spinosad (Spinosyn A, D)	1	Thiophanate-methyl	1
Pronamide (Propyzamide)	1	Spirodiclofen	1	Tolclofos-methyl	1
Propachlor	1	Spiromesifen	1	Tolfenpyrad	1
Propamocarb	1	Spirotetramat	1	Tolyfluanid	1
Propanil	1	Spirotetramat enol	1	Topramezone	1
Propargite	1	Spiroxamine	1	Tralkoxydim	1
Propazine	1	Sulfallate	1	Triadimefon	0.5
Propetamphos	1	Sulfentrazone	1	Triadimenol	0.5
Propham	1	Sulfometuron-methyl	1	Triallate	1
Propiconazole (isomers a & b)	0.5	Sulfosulfuron	1	Triasulfuron	1
Propoxur	1	Sulfotep	1	Triazophos	1
Propoxycarbazone sodium	1	Sulfoxaflor	1	Tribenuron-methyl	1
Prosulfuron	1	Sulprofos	1	Trichlopyr	1
Prothioconazole	1	tau-Fluvalinate	1	Trichlorfon	1
Prothiofos	1	Tebuconazole	1	Trifloxystrobin	0.5
Pymetrozine	1	Tebufenozide	1	Trifloxysulfuron	1
Pyraclostrobin	1	Tebuthiuron	1	Triflumizole	1
Pyrazophos	1	Tecnazene	1	Trifluralin	1
Pyrethrin	1	Tefluthrin, cis-	1	Triflusaluron-methyl	1
Pyridaben	1	Tembotrione	1	Triforin	1
Pyridate (Metabolite)	1	Terbacil	1	Triticonazole	1
Pyrimethanil	1	Terbufos	1	Vinclozolin	0.5
Pyriproxifen	1	Terbufos sulfone	1	Zoxamide	1
Pyroxasulfone	1	Terbufos sulfoxide	1		
Pyroxulam	1	Terbuthylazine	1		

ND = Not Detectable µg/L = parts per billion (ppb)

LOQ = Limit of Quantification, µg/L: If an amount below this level is detected (and the identity confirmed), it may be reported as "Trace".

7/10/2019

3 of 3



12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794

Report Number: 20-009752/D01.R00
 Report Date: 09/22/2020
 Purchase Order:
 Received: 09/11/20 10:33 AM



Project Name: Hollowbrook Golf



Environmental Chain of Custody Record

Revision: 3.01 Document Control: CF001
 Revised: 02/20/2020 Effective: 02/26/2020

WSPUSA 20-009752



WSP USA

Please inform us if you know or suspect that any part of your sample may contain hazardous materials or chemicals.

Company: WSP USA Contact: John Benvegna Address: 500 Summit Lake Drive, Ste. 450 Valhalla, New York 10595 Email: john.benvegna@wsp.com Phone: (914) 694-5711 Fax: ()			Analysis Requested						PO Number: _____ Project Number: _____ Project Name: Hollowbrook Golf Club (HBGC) Custom Reporting: low LOQ's (< or equal to 1 ppb if possible) <input type="checkbox"/> Report to State: _____ Turn-around time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush * <input type="checkbox"/> Priority Rush * *Ask for availability		
Billing (if different): Eugene Peterson @ HBGC			Preservative code: Verification of type used †						Sampled by: _____		
Lab ID	Field / Sample ID	Date/Time	P2220*	dithiopyr	fenoxaprop	trifloxypac	quintozene	Matrix ††	Comments		
	DS-1	9.10.20 1045	X					GW	*Custom low LOQ's (< or equal to 1 ppb if possible) *Add additional compounds req'd -please ask Renate WSP Printed *****PLEASE INVOICE***** Hollowbrook Golf Club Attn: Eugene Peterson 1060 Oregon Road Cortlandt Manor, New York 10567 Eugene@golfhollowbrook.com		
	GW-1R	↓ 1140	X					↓	*****Report to: John Benvegna, WSP-USA		
Relinquished By:		Date	Time	Received By:		Date	Time	Lab Use Only:			
Mildred DeShon WSP		9.10.20	1700	Hagit Abar		09/11	10:33	<input checked="" type="checkbox"/> Shipped Via: <u>UPS</u> or <input type="checkbox"/> Client drop off Evidence of cooling: <input type="checkbox"/> yes <input type="checkbox"/> No - Temp (°C): <u>7.6</u> Sample in good condition: <input type="checkbox"/> yes <input type="checkbox"/> No <input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: _____ <input type="checkbox"/> Prelog storage: _____			

† Preservative Codes: (if no preservative leave blank) HCL = "CL"; H₂SO₄ = "HS"; NHO₃ = "N3"; NaOH = "NH"; ZnAc = "ZN"

†† Matrix Code: Drinking water (DW); Ground or Well Water (GW); Storm Water (SW); Waste Water (WW); Waste (W); Solid (S)

Samples submitted to CL with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished by" you are agreeing to these terms.

12423 NE Whitaker Way
 Portland, OR 97230

P: (503) 254-1794 | Fax: (503) 254-1452
info@columbialaboratories.com

Page 1 of 1
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12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 20-009752/D01.R00
Report Date: 09/22/2020
Purchase Order:
Received: 09/11/20 10:33 AM
Project Name: Hollowbrook Golf



Columbia Laboratories
Sample Receipt Form

Revision: 1.01 Document Control: CF015
Revised: 02/28/2020 Effective: 02/28/2020

Job Number: WSP USA Search Name: _____

Package/Cooler opened on (if different than received date/time) Date: 09/11 Time: 10:33

Received By (Initials): HA

- 1) Were custody seals on outside of the package/cooler? YES NO NA
If YES, how many and where? _____
Were signature and date correct? ----- YES NO NA
- 2) Were custody papers included in the package/cooler? YES NO NA
- 3) Were custody papers properly filled out (ink, sign, date)? YES NO NA
- 4) Did you sign custody papers in the appropriate place? YES NO NA
- 5) How was the package/cooler delivered?
UPS FEDEX USPS CLIENT COURIER OTHER: _____
Tracking Number (written in or copy of shipping label): no
- 6) Was packing material used? YES NO NA
Peanuts Bubble Wrap Foam Paper Other:
- 7) Was sufficient ice used (if appropriate)? YES NO NA
What kind?
Blue Ice Ice Cooler Packs Dry Ice
- 8) Were all sample containers sealed in separate plastic bags? YES NO NA
- 9) Did all sample containers arrive in good condition? YES NO NA
- 10) Were all sample container labels complete? YES NO NA
- 11) Did all sample container labels and tags agree with the coc? YES NO NA
- 12) Were correct sample containers used for the tests indicated? YES NO NA
- 13) Were VOA vials checked for absence of air bubbles (note if found)? YES NO NA
- 14) Was a sufficient amount of sample sent in each sample container? YES NO NA
- 15) Temperature of the samples upon receipt (See SOP for proper temps) 76 °C
- 16) Sample location prior to login: R25 R39 R44 F44 Ambient Shelf Cannabis Table Other: _____

Explain any discrepancies: _____

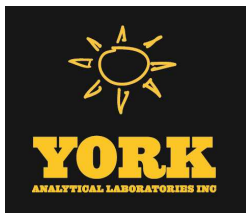
Page 1 of 1

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.



APPENDIX 3

LABORATORY ANALYTICAL REPORT FALL 2020



Technical Report

prepared for:

WSP USA, Inc. (White Plains, NY)
500 Summit Lake Drive, Suite 450
Valhalla NY, 10595
Attention: John Benvegna

Report Date: 11/24/2020
Client Project ID: Hollow Brook Golf Course (HBGC)
York Project (SDG) No.: 20K0752

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371

132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 11/24/2020
Client Project ID: Hollow Brook Golf Course (HBGC)
York Project (SDG) No.: 20K0752

WSP USA, Inc. (White Plains, NY)
500 Summit Lake Drive, Suite 450
Valhalla NY, 10595
Attention: John Benvegna

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 18, 2020 with a temperature of 1.6 C. The project was identified as your project: **Hollow Brook Golf Course (HBGC)**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
20K0752-01	GW-1R	Water	11/17/2020	11/18/2020
20K0752-02	DS-1	Water	11/17/2020	11/18/2020

General Notes for York Project (SDG) No.: 20K0752

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:



Benjamin Gulizia
Laboratory Director

Date: 11/24/2020





Sample Information

Client Sample ID: GW-1R		York Sample ID: 20K0752-01	
<u>York Project (SDG) No.</u> 20K0752	<u>Client Project ID</u> Hollow Brook Golf Course (HBGC)	<u>Matrix</u> Water	<u>Collection Date/Time</u> November 17, 2020 12:40 pm
<u>Date Received</u> 11/18/2020			

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	62.1		mg/L	5.00	10	EPA 300.0 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	11/20/2020 17:49	11/21/2020 02:05	MAO

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND	HT-01R	mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/20/2020 15:08	11/20/2020 16:58	MAO

Nitrite as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND	HT-01R	mg/L	0.0500	1	EPA 300.0 Certifications: NELAC-NY10854,CTDOH,PADEP	11/20/2020 15:08	11/20/2020 16:58	MAO

Ammonia Nitrogen as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	Ammonia Nitrogen as N	0.590		mg/L	0.0500	1	SM 4500-NH3 D Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/19/2020 14:42	11/19/2020 21:17	ZTS

Phosphorous, total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Phosphorous, Total as P	0.23		mg/L	0.10	2	SM 4500-P B5/E Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/23/2020 14:31	11/23/2020 21:12	MAO

Total Dissolved Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	613		mg/L	10.0	1	SM 2540C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	11/18/2020 21:33	11/23/2020 00:09	AA



Sample Information

Client Sample ID: DS-1

York Sample ID: 20K0752-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

20K0752

Hollow Brook Golf Course (HBGC)

Water

November 17, 2020 2:00 pm

11/18/2020

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	88.9		mg/L	5.00	10	EPA 300.0	11/20/2020 17:49	11/21/2020 02:26	MAO
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	0.410	HT-01 R	mg/L	0.0500	1	EPA 300.0	11/20/2020 15:08	11/20/2020 17:20	MAO
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Nitrite as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND	HT-01R	mg/L	0.0500	1	EPA 300.0	11/20/2020 15:08	11/20/2020 17:20	MAO
							Certifications:	NELAC-NY10854,CTDOH,PADEP		

Ammonia Nitrogen as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7664-41-7	Ammonia Nitrogen as N	ND		mg/L	0.0500	1	SM 4500-NH3 D	11/19/2020 14:42	11/19/2020 21:17	ZTS
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

Phosphorous, total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Phosphorous, Total as P	ND		mg/L	0.050	1	SM 4500-P B5/E	11/23/2020 14:31	11/23/2020 21:12	MAO
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

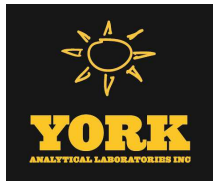
Total Dissolved Solids

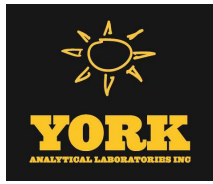
Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Dissolved Solids	301		mg/L	10.0	1	SM 2540C	11/18/2020 21:33	11/23/2020 00:09	AA
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		





Sample and Data Qualifiers Relating to This Work Order

HT-01R This flag indicates that the sample was initially analyzed within recommended hold time and that a re-run was performed outside of the hold time.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
 120 Research Drive
 Stratford, CT 06615
 clientservices@yorklab.com
 www.yorklab.com

Field Chain-of-Custody Record

YORK Project No.
 20K0752

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

Page 1 of 1

YOUR Information		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company: WSP	Address: 500 SUMMIT LAKE DR. VALHALLA, NY	Company: Hollow Brook Golf Club	Address: 1060 OREGON ROAD CORTLANDT MANDE, NY 10567	Company: Hollow Brook Golf Club	Address: 1060 OREGON ROAD CORTLANDT MANDE, NY 10567	N/A		RUSH - Next Day	
Phone: 914 694 5711	Contact: JOHN BENYONA @ WSP.COM	Phone: SAME	Contact: EUGENE PETERSON	Phone: SAME	Contact: EUGENE PETERSON	YOUR Project Name		RUSH - Two Day	
	E-mail: JOHN.BENYONA@WSP.COM		E-mail: EUGENE.P@GOLFHOLLOWBROOK.COM		E-mail: EUGENE.P@GOLFHOLLOWBROOK.COM	Hollow Brook Golf Club (HBGC)		RUSH - Three Day	
						YOUR PO#:		RUSH - Four Day	

Matrix Codes		Samples From		Report / EDD Type (circle selections)		YORK Reg. Comp.	
S - soil / solid	<input checked="" type="checkbox"/>	New York	<input checked="" type="checkbox"/>	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)	
GW - groundwater		New Jersey		CT RCP DQ/DUE	EQULS (Standard)		
DW - drinking water		Connecticut		NJDEP Reduced Deliverables	NYSDEC EQULS		
WW - wastewater		Pennsylvania		NY ASP A Package	NJDEP SRP HazSite		
O - Oil / Other		Other		NY ASP B Package	Other:		

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
GW-1R	GW	11.17.20 1240	NITRATE, NITRITE, AMMONIA	1500 mL. PARS CUP
DS-1	↓	↓ 1400	CHLORIDE, TDS, TOT. PHOS.	1500 mL. PARS CUP

Comments:		Preservation: (check all that apply)	
HCl	MeOH	HNO ₃	H ₂ SO ₄
Ascorbic Acid	Other:	NaOH	ZnAc
Date/Time	Samples Relinquished by / Company	Date/Time	Field Filtered Lab to Filter
11.18.20 8:30	Chic	11-18-20 8:30	11-18-20 1545
Date/Time	Samples Relinquished by / Company	Date/Time	Date/Time
Date/Time	Samples Received in LAB by	Date/Time	Temp. Received at Lab
	79 Gals 11/18/2020 1545		1.6



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 20-012777/D02.R00
Report Date: 12/01/2020
Purchase Order:
Received: 11/19/20 10:55 AM
Project Name: Hollowbrook Golf



Cover Letter

WSP USA
500 Summit Lake Drive, Suite 450
Valhalla New York 10595
United States

Dear John Benvegna,

Enclosed please find Columbia Laboratories analytical report for samples received as order number 20-012777 on 11/19/2020 at 10:55. Should you have any questions about this report or any other matter, please do not hesitate to contact us. We are here to help you.

Thank you for allowing Columbia Laboratories to be of service to you, we appreciate your business.

Sincerely,

Derrick Tanner
General Manager



12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794

Report Number: 20-012777/D02.R00
Report Date: 12/01/2020
Purchase Order:
Received: 11/19/20 10:55 AM
Project Name: Hollowbrook Golf



Customer: WSP USA
 500 Summit Lake Drive, Suite 450
 Valhalla New York 10595
 United States

Sample ID: DS-1
Sample Matrix: General Water
Laboratory ID: 20-012777-0001-00
Evidence of Cooling: Yes
Temp: 1 °C
Relinquished by: Rec by Mail

Sample Results

Other Pesticides

WSP custom

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Dithiopyr	< LOQ	µg/L	1.00	12/01/20	AOAC 2007.01 & EN 15662 (mod)	
Fenoxaprop-ethyl	< LOQ	µg/L	0.500	12/01/20	AOAC 2007.01 & EN 15662 (mod)	
Trinexapac-ethyl	< LOQ	µg/L	1.00	12/01/20	AOAC 2007.01 & EN 15662 (mod)	

Pesticides

Multi-Residue Pesticide Profile

Analyte	Result	Units	Analyzed	Method	Notes
Multi-Residue Pesticide Profile	< LOQ for all analytes	µg/L	12/01/20	AOAC 2007.01 & EN 15662 (mod)	



12423 NE Whitaker Way
Portland, OR 97230
503-254-1794

Report Number: 20-012777/D02.R00
Report Date: 12/01/2020
Purchase Order:
Received: 11/19/20 10:55 AM
Project Name: Hollowbrook Golf



Customer: WSP USA
500 Summit Lake Drive, Suite 450
Valhalla New York 10595
United States

Sample ID: GW-1R
Sample Matrix: General Water
Laboratory ID: 20-012777-0002-00
Evidence of Cooling: Yes
Temp: 1 °C
Relinquished by: Rec by Mail

Sample Results

Other Pesticides

WSP custom

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Dithiopyr	< LOQ	µg/L	1.00	12/01/20	AOAC 2007.01 & EN 15662 (mod)	
Fenoxaprop-ethyl	< LOQ	µg/L	0.500	12/01/20	AOAC 2007.01 & EN 15662 (mod)	
Trinexapac-ethyl	< LOQ	µg/L	1.00	12/01/20	AOAC 2007.01 & EN 15662 (mod)	

Pesticides

Multi-Residue Pesticide Profile

All compounds on the attached sheet were found to be <LOQ except those listed

Analyte	Result	Units	LOQ	Analyzed	Method	Notes
Triadimenol	0.540	µg/L	0.500	12/01/20	AOAC 2007.01 & EN 15662 (mod)	
Propiconazole	0.630	µg/L	0.500	12/01/20	Pesticides in Mint Oil by Direct Injection	

Abbreviations

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

Units of Measure

µg/L = Micrograms per liter = parts per billion (ppb)

Approved Signatory

Derrick Tanner
General Manager



12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794

Report Number: 20-012777/D02.R00
Report Date: 12/01/2020
Purchase Order:
Received: 11/19/20 10:55 AM

Project Name: Hollowbrook Golf



Columbia Food Laboratories, Inc
 P2220 Multi-Residue Profile in Water

Compound	LOQ	Compound	LOQ	Compound	LOQ
2,4-D	0.5	Carbophenothion-methyl	1	Desmedipham	1
2,4-DB	1	Carboxin	1	Diallate	1
2,4-DP (Dichlorprop)	1	Carfentrazone-ethyl	1	Diazinon	1
2,4,5-TP	1	Chlorantraniliprole	0.5	Diazoxon	1
Acephate	2	Chlordane, cis-	1	Dicamba	0.5
Acequinocyl	1	Chlordane, trans-	1	Dichlobenil	1
Acetamiprid	1	Chlordimeform	1	Dichlofenthion	1
Acetochlor	1	Chlorfenapyr	1	Dichlofluanid	1
Aciflorfen	1	Chlorfenson (Ovex)	1	Dichlorbenzamide	1
Acrinathrin	1	Chlorfenvinphos	1	Dichlorvos	1
Alachlor	1	Chlorimuron-ethyl	1	Diclobutrazol	1
Aldicarb	1	Chlornitrofen (CNP)	1	Diclofop-methyl	1
Aldicarb sulfoxide	1	Chlorobenzilate	1	Dicloran	1
Aldoxycarb (Aldicarb-sulfuron)	1	Chloroneb	1	Dicofol, p,p'-	1
Aldrin	1	Chlorothalonil	0.5	Dicofol, o,p'-	1
Ametryn	1	Chlorpropham (CIPC)	1	Dicrotophos	1
Aspon	1	Chlorpyrifos (Chlorpyrifos ethyl)	1	Dieldrin	1
Atrazine	1	Chlorpyrifos-methyl	1	Diethofencarb	1
Atrazine-desethyl	1	Chlorsulfuron	1	Diethyltoluamide (DEET)	1
Avermectin B1a/B1b (Abemectin)	1	Chlorthion	1	Difenoconazole	1
Azinphos-ethyl	1	Chlorthiophos	1	Difflubenzuron	1
Azinphos-methyl	1	Cinerin	1	Diffuzenzopyr	1
Azoxystrobin	1	Clethodim	1	Dimethenamide	1
Benalaxyl	1	Clethodim Sulfone	1	Dimethoate	1
Bendiocarb	1	Clethodim Sulfoxide	1	Dimethomorph	1
Benfluralin	1	Clofentezine	1	Diniconazole	1
Benoxacor	1	Clomazone	1	Dinocap	1
Bensulide	1	Clopyralid	1	Dinoseb	1
Bentazone	1	Clothianidin	1	Dinotefuran	1
BHC alpha (HCH)	1	Coumaphos	1	Dioxathion	1
BHC beta (HCH)	1	Crotoxyphos	1	Diphenamid	1
BHC delta (HCH)	1	Cyanazine	1	Diphenylamine	1
Bifenazate	1	Cyanofenphos	1	Disulfoton	1
Bifenox	1	Cyanophos	1	Disulfoton sulfone	1
Bifenthrin	1	Cyantraniliprole	1	Disulfoton sulfoxide	1
Binapacryl	1	Cyazofamid	1	Dithianon	1
Bitertanol	1	Cycloate	1	Diuron	1
Boscalid (Nicobifen)	1	Cycloxydim	1	DNOC	1
Bromacil	1	Cyfluthrin	1	Edifenphos	1
Bromophos (Bromophos-methyl)	1	Cyhalothrin, lambda	1	Endosulfan alpha	1
Bromophos-ethyl	1	Cymoxanil	1	Endosulfan beta	1
Bromopropylate	1	Cypermethrin	1	Endosulfan sulfate	1
Bromoxynil	1	Cyprodinil	1	Endrin	1
Bromuconazole	1	Cyromazine	1	Endrin aldehyde	1
Bupirimate	1	Dacthal (Chlorthal-dimethyl)	1	EPN	1
Buprofezin	1	DDD, o,p'-	1	EPTC (Eptam)	1
Butachlor	1	DDD, p,p'-	1	Esfenvalerate/Fenvalerate	1
Butralin	1	DDE, o,p'-	1	Etaconazole	1
Butylate	1	DDE, p,p'-	1	Ethalfuralin	1
Cadusafos	1	DDT, o,p'-	1	Ethiofencarb	1
Captafol	5	DDT, p,p'-	1	Ethion	1
Captan	2	DEF (Tribufos)	1	Ethirimol	1
Carbaryl	0.5	Deltamethrin	1	Ethofumesate	1
Carbendazim	1	Demeton-S	1	Ethoprophos	1
Carbofuran	1	Demeton-S methyl	1	Ethoxyquin	1
Carbofuran, 3-hydroxy	1	Demeton-S methyl sulfone	1	Etofenprox	1
Carbophenothion	1				

LOQ = Limit of quantitation, µg/L (ppb)



12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794

Report Number: 20-012777/D02.R00
Report Date: 12/01/2020
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Received: 11/19/20 10:55 AM



Project Name: Hollowbrook Golf

Columbia Food Laboratories, Inc
 P2220 Multi-Residue Profile in Water

Compound	LOQ	Compound	LOQ	Compound	LOQ
Etoxadole	1	Hexaconazole	1	Metolachlor	1
Etridiazole	1	Hexazinone	1	Metolcarb	1
Etrifos	1	Hexythiazox	1	Metribuzin	1
Famoxadone	1	Hydroprene	1	Metsulfuron-methyl	1
Famphur	1	Imazalil	1	Mevinphos	1
Fenamidone	1	Imazamox	1	MGK 264	1
Fenamiphos	1	Imazapic	1	Mirex	1
Fenamiphos sulfone	1	Imazapyr	1	Molinate	1
Fenamiphos sulfoxide	1	Imazaquin	1	Monocrotophos	1
Fenarimol	1	Imazethaphyr	1	Monolinuron	1
Fenbuconazole	1	Imidacloprid	1	Myclobutanil	1
Fenchlorphos	1	Imidoxone	1	Naled	1
Fenhexamid	1	Indaziflam	1	Napropamide	1
Fenitrothion	1	Indoxacarb	1	Neburon	1
Fenobucarb	1	Iprobenfos	1	Nicosulfuron	1
Fenoxycarb	1	Iprodione	0.5	Nitrapyrin	5
Fenpropathrin	1	Isazophos	1	Nitrofen	1
Fenpyroximate	1	Isobenzan	1	Norflurazon	1
Fenson	1	Isocarbophos	1	Novaluron	1
Fensulfothion	1	Isodrin	1	Nuarimol	1
Fenthion	1	Isofenphos	1	Omethoate	1
Fenuron	1	Isofenphos-methyl	1	O-Phenylphenol	1
Fipronil	1	Isofenphos OA	1	Oryzalin	1
Flonicamid	1	Isoproc carb	1	Oxadiazon	1
Fluazifop	1	Isopropalin	1	Oxadixyl	2
Fluazinam	1	Isoprothiolane	1	Oxamyl	1
Fluchloralin	1	Isoproturon	1	Oxamyl-oxime	1
Flucythrinate	1	Isoxaben	1	Oxylordane	1
Fludioxonil	1	Isoxaflutole	1	Oxydemeton-Methyl	1
Flufenacet	1	Jasmolin	1	Oxyfluorfen	1
Flumioxazin	1	Kresoxim-methyl	1	Oxythioquinox	1
Fluometuron	1	Lactofen	1	Pacllobutrazol	1
Fluopicolide	1	Lenacil	1	Paraoxon (Paraoxon-ethyl)	1
Fluopyram	1	Lindane (gamma BHC)	1	Paraoxon methyl	1
Fluoxastrobin	1	Linuron	1	Parathion ethyl	1
Flupyradifurone	1	Malaoxon	1	Parathion methyl	1
Fluridone	1	Malathion	1	Penconazole	1
Fluroxypyr	1	Mandipropamid	1	Pendimethalin	1
Flusilazol	1	MCPA/MCPB	1	Penflufen	1
Fluthiacet Methyl	1	Mecarbam	1	Pentachloroaniline	1
Flutolanil	0.5	Mecoprop (MCP)	1	Pentachlorobenzene (PCB)	1
Fluvalinate	1	Mepanipyrim	1	Pentachlorophenol	1
Fluxapyroxad	1	Mesosulfuron methyl	1	Pentachlorothioanisole (PCTA)	1
Folpet	2	Mesotrione	1	Penthiopyrad	1
Fomesafen	1	Metalaxyl / Mefenoxam	1	Permethrin	1
Fonofos	1	Metconazole	1	Perthane	1
Foramsulfuron	1	Methacrifos	1	Phenmedipham	1
Forchlorfenuron	1	Methamidophos	1	Phenothrin	1
Formetanate	1	Methidathion	1	Phenthoate	1
Furathiocarb	1	Methiocarb	1	Phorate	1
Halosulfuron-methyl	1	Methiocarb sulfone	1	Phorate OA	1
Haloxyfop	1	Methiocarb sulfoxide	1	Phorate Sulfone	1
Heptachlor	1	Methomyl	1	Phorate Sulfoxide	1
Heptachlor epoxide	1	Methoxychlor	1	Phosalone	1
Heptenophos	1	Methoxyfenozide	1	Phosmet	1
Hexachlorobenzene	1	Metobromuron	1	Phosphamidon	1

LOQ = Limit of quantitation, µg/L (ppb)



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Project Name: Hollowbrook Golf



Columbia Food Laboratories, Inc
 P2220 Multi-Residue Profile in Water

Compound	LOQ	Compound	LOQ	Compound	LOQ
Phoxim	1	Quinalphos	1	Terbutryn	1
Pinoxaden	1	Quinclorac	1	Tetrachlorvinphos	1
Piperonyl butoxide	1	Quinoxifen	1	Tetraconazole	1
Pirimicarb	1	Quintozene (PCNB)	1	Tetradifon	1
Pirimiphos-methyl	1	Quizalofop	1	Tetramethrin	1
Pirimiphos-ethyl	1	Resmethrin	1	Tetrasul	1
Pirimisulfuron-methyl	1	Rimsulfuron	1	Thiabendazole	1
Prallethrin	1	Rotenone	1	Thiabendazole, 5-hydroxy	1
Prochloraz	1	S421	1	Thiacloprid	1
Procymidone	1	Saflufenacil	1	Thiamethoxam	1
Prodiamine	0.5	Sebuthylazine	1	Thifensulfuron-methyl	1
Profenofos	1	Sethoxydim	1	Thiobencarb	1
Profluralin	1	Simazine	1	Thiodicarb	1
Promecarb	1	Simetryn	1	Thiometon	1
Prometon	1	Spinetoram	1	Thionazin	1
Prometryn	1	Spinosad (Spinosyn A, D)	1	Thiophanate-methyl	1
Pronamide (Propyzamide)	1	Spirodiclofen	1	Tolclofos-methyl	1
Propachlor	1	Spiromesifen	1	Tolfenpyrad	1
Propamocarb	1	Spirotetramat	1	Tolyfluanid	1
Propanil	1	Spirotetramat enol	1	Topramezone	1
Propargite	1	Spiroxamine	1	Tralkoxydim	1
Propazine	1	Sulfalate	1	Triadimefon	0.5
Propetamphos	1	Sulfentrazone	1	Triadimenol	0.5
Propham	1	Sulfometuron-methyl	1	Triallate	1
Propiconazole (isomers a & b)	0.5	Sulfosulfuron	1	Triasulfuron	1
Propoxur	1	Sulfotep	1	Triazophos	1
Propoxycarbazone sodium	1	Sulfoxaflor	1	Tribenuron-methyl	1
Prosulfuron	1	Sulprofos	1	Trichlopyr	1
Prothioconazole	1	tau-Fluvalinate	1	Trichlorfon	1
Prothiofos	1	Tebuconazole	1	Trifloxystrobin	0.5
Pymetrozine	1	Tebufenozide	1	Trifloxysulfuron	1
Pyraclostrobin	1	Tebuthiuron	1	Triflumizole	1
Pyrazophos	1	Tecnazene	1	Trifluralin	1
Pyrethrin	1	Tefluthrin, cis-	1	Triflusaluron-methyl	1
Pyridaben	1	Tembotrione	1	Triforin	1
Pyridate (Metabolite)	1	Terbacil	1	Triticonazole	1
Pyrimethanil	1	Terbufos	1	Vinclozolin	0.5
Pyriproxifen	1	Terbufos sulfone	1	Zoxamide	1
Pyroxasulfone	1	Terbufos sulfoxide	1		
Pyroxulam	1	Terbuthylazine	1		

ND = Not Detectable µg/L = parts per billion (ppb)

LOQ = Limit of Quantification, µg/L: If an amount below this level is detected (and the identity confirmed), it may be reported as "Trace".

7/10/2019

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12423 NE Whitaker Way
 Portland, OR 97230
 503-254-1794

Report Number: 20-012777/D02.R00
Report Date: 12/01/2020
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Project Name: Hollowbrook Golf



Job #20-012777



Environmental Chain of Custody Record

Revision: 3.01 Document Control: CF001
 Revised: 02/20/2020 Effective: 02/26/2020

Please inform us if you know or suspect that any part of your sample may contain hazardous materials or chemicals.

Company: <u>WSP USA</u>			Analysis Requested						PO Number: * <u>SEE BILLING NOTES/</u>																																														
Contact: <u>John Benvegna</u>			<table border="1"> <tr><td>P2220*</td><td>dithiopyr</td><td>fenoxaprop</td><td>trifloxipac</td><td>quintozene</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	P2220*	dithiopyr	fenoxaprop	trifloxipac	quintozene																																														Project Number: <u>INVOLVING INFO IN COMMENTS</u>	
P2220*	dithiopyr	fenoxaprop		trifloxipac	quintozene																																																		
Address: <u>500 Summit Lake Drive, Ste. 450</u>			Project Name: <u>Hollowbrook Golf Club (HBGC)</u>		Custom Reporting: <u>low LOQ's (< or equal to 0.5 ppb if possible)</u>		<input type="checkbox"/> Report to State: _____ Turn-around time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush * <input type="checkbox"/> Priority Rush * *Ask for availability																																																
Valhalla, New York 10595			Billing (if different): <u>Eugene Peterson @ HBGC</u>		Sampled by: _____																																																		
Email: <u>john.benvegna@wsp.com</u>			Preservative code: Verification of type used †																																																				
Phone: <u>(914) 694-5711</u> Fax: () _____																																																							
Lab ID	Field / Sample ID	Date/Time							Matrix ††	Comments																																													
	DS-1	11.17.20 1400	X	X	X	X	X		WATER	*Custom low LOQ's (< or equal to 0.5 ppb if possible)																																													
	GW-1R	↓ 1240	X	X	X	X	X		↓	*Add additional compounds req'd -please ask Renate																																													
										*****PLEASE INVOICE*****:																																													
										Hollowbrook Golf Club																																													
										Attn: Eugene Peterson																																													
										1060 Oregon Road																																													
										Cortlandt Manor, New York																																													
										10567																																													
										Eugenep@golfhollowbrook.com																																													
										*****Report to:																																													
										John Benvegna, WSP-USA																																													
Relinquished By:		Date	Time	Received By:		Date	Time	Lab Use Only:																																															
<u>Michael K. DeFuria</u>		11.18.20	10:50	<u>[Signature]</u>		11.19.20	10:55	<input checked="" type="checkbox"/> Shipped Via: <u>UPS</u> or <input type="checkbox"/> Client drop off Evidence of cooling: <input checked="" type="checkbox"/> yes <input type="checkbox"/> No - Temp (°C): <u>1</u> Sample in good condition: <input checked="" type="checkbox"/> yes <input type="checkbox"/> No <input type="checkbox"/> Cash <input type="checkbox"/> Check <input type="checkbox"/> CC <input type="checkbox"/> Net: _____ <input type="checkbox"/> Prelog storage: _____																																															
<u>[Signature]</u>		11.19.20	10:55	<u>LD 11/19/20</u>																																																			

† Preservative Codes: (If no preservative leave blank) HCL = "CL"; H₂SO₄ = "HS"; NHO₃ = "N3"; NaOH = "NH"; ZnAc = "ZN"

†† Matrix Code: Drinking water (DW); Ground or Well Water (GW); Storm Water (SW); Waste Water (WW); Waste (W); Solid (S)

*info per attached sheet LR 11/19/20

Samples submitted to CL with testing requirements constitute an agreement for services in accordance with the current terms of service associated with this COC. By signing "Relinquished by" you are agreeing to these terms.

12423 NE Whitaker Way
 Portland, OR 97230

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info@columbialaboratories.com

Page 1 of 1
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Report Number: 20-012777/D02.R00
Report Date: 12/01/2020
Purchase Order:
Received: 11/19/20 10:55 AM
Project Name: Hollowbrook Golf



Columbia Laboratories
Sample Receipt Form

Revision: 1.01 Document Control: CF015
Revised: 02/28/2020 Effective: 02/28/2020

Job Number: 20-012777 Search Name: WSP

Package/Cooler opened on (if different than received date/time) Date: 11/19/20 Time: 10:54

Received By (Initials): LD

- 1) Were custody seals on outside of the package/cooler? YES NO NA
If YES, how many and where? _____
- Were signature and date correct? ----- YES NO NA
- 2) Were custody papers included in the package/cooler? YES NO NA
- 3) Were custody papers properly filled out (ink, sign, date)? YES NO NA
- 4) Did you sign custody papers in the appropriate place? YES NO NA

5) How was the package/cooler delivered?
 UPS FEDEX USPS CLIENT COURIER OTHER: _____

Tracking Number (written in or copy of shipping label): A382 4157 192

- 6) Was packing material used? YES NO NA
Peanuts Bubble Wrap Foam Paper Other: _____
- 7) Was sufficient ice used (if appropriate)? YES NO NA
What kind?
Blue Ice Ice Cooler Packs Dry Ice
- 8) Were all sample containers sealed in separate plastic bags? YES NO NA
- 9) Did all sample containers arrive in good condition? YES NO NA
- 10) Were all sample container labels complete? YES NO NA
- 11) Did all sample container labels and tags agree with the coc? YES NO NA
- 12) Were correct sample containers used for the tests indicated? YES NO NA
- 13) Were VOA vials checked for absence of air bubbles (note if found)? YES NO NA
- 14) Was a sufficient amount of sample sent in each sample container? YES NO NA
- 15) Temperature of the samples upon receipt (See SOP for proper temps) 1 °C
- 16) Sample location prior to login: R25 R39 R44 F44 Ambient Shelf Cannabis Table Other: _____

Explain any discrepancies: _____

Test results relate only to the parameters tested and to the samples as received by the laboratory. Test results meet all requirements of Columbia Laboratories quality assurance plan unless otherwise noted. This report shall not be reproduced, except in full, without the written consent of this laboratory. Samples will be retained for a maximum of 30 days from the receipt date unless prior arrangements have been made.