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14 April 2017

Brian Jankauskas
Remedial Bureau E, Section A
Div. Environmental Remediation
NYSDEC
625 Broadway, 12th Floor, Albany, NY 12233-7017

RE: 2016 Groundwater Sampling Event
EA Project No. 14907.29

Dear Mr. Jankauskas:

EA Engineering, P.C. and its affiliate EA Science and Technology (EA) completed post-remediation groundwater sampling activities in December 2016 at the request of the New York State Department of Environmental Conservation (NYSDEC) at the Bianchi/Weiss Greenhouses site (152209) located in East Patchogue, New York (**Figure 1**).

EA completed a remedial investigation (RI) and feasibility study (FS) at the site, and presented the findings in a RI Report (EA 2011a)[1] and a FS Report (EA 2011b)[2], respectively. A groundwater sampling event was completed in May 2013 to satisfy the objectives outlined in the NYSDEC 2012 Record of Decision (ROD) (2012)[3]. Results from this groundwater sampling event were presented in a Pre-Design Investigation (PDI) Groundwater Sampling Report (EA 2013)[4]. A pre-remedial action groundwater sampling event was completed by the NYSDEC in May 2015 and documented in a memorandum dated 1 September 2015 (NYSDEC 2015)[5]. A total of 28,511 cubic yards (yd^3) of impacted soil was removed from the site during remedial construction activities that concluded in July 2016. The wells selected for sampling during the December 2016 sampling event were based off the detections recorded from the May 2015 sampling event.

EA completed the following tasks during the December 2016 groundwater sampling event:

- Located monitoring wells to be sampled using a global positioning system (GPS) unit, and verified the monitoring wells' coordinates
- Gauged all locatable/functioning monitoring wells and piezometers associated with the site

1 EA. 2011a. Final RI Report, Bianchi/Weiss Greenhouses Site (152209), East Patchogue, Suffolk County, New York. August.
2 EA. 2011b. FS, Bianchi/Weiss Greenhouses Site (152209), East Patchogue, Suffolk County, New York. September.
3 NYSDEC. 2012. ROD, Bianchi/Weiss Greenhouses State Superfund Project, East Patchogue, Suffolk County, Site Number 152209. January.
4 EA. 2013. Pre-Design Investigation Groundwater Sampling Report, Contract/Work Assignment No: D007624-18 Bianchi/Weiss Greenhouses Site, East Patchogue, New York (152209). October.
5 NYSDEC. 2015. Memorandum; Groundwater Monitoring May 2015, Bianchi/Weiss Greenhouses. September 1.

- Collected groundwater samples from three on-site shallow piezometers replaced during the remedial action
- Collected groundwater samples from 16 off-site monitoring wells
- Collected a groundwater sample from one off-site private well
- Collected one surface water sample from Abet's Creek.

Each groundwater sample was analyzed for pesticides by U.S. Environmental Protection Agency (EPA) Method 608. Category A deliverables were requested for samples collected from monitoring wells and surface water. Category B deliverables were requested for the sample collected from a private well.

Monitoring Well Locations

Monitoring well locations were compared against surveyed coordinates using a GPS unit prior to gauging and sampling. The coordinates of the monitoring well cluster MW-33(-D, -I, and –S) were off by approximately 250 ft. The coordinates of the monitoring well WO-34 were off by approximately 100 ft. The wells are located 250 and 100 ft north of the previously surveyed locations. Monitoring well WO-33P was not previously surveyed. The data gathered using the GPS unit is summarized below, with former coordinates shown for comparison.

Summary of Revised Monitoring Well Locations

Monitoring Well ID	Revised X-Coordinate	*Previously Surveyed X-Coordinate*	Revised Y-Coordinate	*Previously Surveyed Y-Coordinate*
MW-33D	1267819.7	*1267781.7668*	216029.2	*215784.3593*
MW-33I	1267819.9	*1267779.5951*	216037.6	*215775.9363*
MW-33S	1267819.9	*1267777.4677*	216026.1	*215768.0909*
WO-33P	1267819.7	Not surveyed	216027.4	Not surveyed
WO-34	1267821.8	*1267872.65*	216043.4	*216134.5947*

Monitoring Well Gauging

Prior to the start of the groundwater sampling event, a complete round of static water level measurements were taken from each monitoring well location to prepare a groundwater contour map and evaluate groundwater flow patterns. Groundwater elevations are summarized in the following table:

Summary of Groundwater Elevations December 2016			
Monitoring Well ID	Depth to Water (ft btoc)	Well Casing Elevation (ft AMSL)	Groundwater Elevation (ft AMSL)
TPMW-01	8.73	14.59	5.86
PDI-PZ-01	9.48	15.67	6.19
PDI-PZ-02	9.32	16.00	6.68
MW-33D	2.66	2.64	-0.02
MW-33I	2.92	2.86	-0.06
MW-33S	2.73	2.72	-0.01
MW-41	12.56	20.46	7.90
MW-42	9.45	12.43	2.98
WO-07	6.21	11.66	5.45
WO-08	6.41	11.88	5.47
WO-09	5.65	11.27	5.62
WO-10	5.33	10.72	5.39
WO-11	5.55	10.90	5.35
WO-15	5.79	11.01	5.22
WO-16	4.81	9.98	5.17
WO-17	3.82	8.97	5.15
WO-18	3.41	8.49	5.08
WO-19	4.04	8.93	4.89
WO-21	9.32	14.94	5.62
WO-25	11.23	10.08	-1.15
WO-26	7.53	11.07	3.54
WO-27	7.90	10.86	2.96
WO-28	13.21	15.71	2.50
WO-30	9.62	11.52	1.90
WO-31	6.41	8.28	1.87
WO-34	2.77	0.43	-2.34
WO-36	6.82	9.92	3.10

NOTE: ID = Identification
ft = feet
btoc = Below top of casing
AMSL = Above mean sea level
NS = Not Surveyed
--- = No groundwater elevation data

A figure showing interpreted groundwater elevation contours is provided as **Figure 2**. Groundwater flows in a southwesterly direction toward Abet's Creek and Patchogue Bay.

Monitoring Well Sampling

During sampling, purge water was contained in a 5 gal bucket and then transferred into 55 gal drums located on-site for filtration prior to discharge. Groundwater sampling was conducted through the steps detailed below:

- Personal protective equipment was worn as specified in the Generic HASP (EA 2011c)[6].
- Monitoring locations were unlocked and the caps were removed.
- Static water levels were measured at each location using a water interface probe. The interface probe was washed with Alconox detergent and water, then rinsed with deionized water between locations to prevent cross-contamination.
- Low-flow purging techniques were used to purge the wells. Dedicated polyethylene tubing was used at each monitoring well location.
- Prior to sampling, wells were purged until the following conditions were met:
    - Three consecutive pH readings are ± 0.1 pH units of each other
    - Three consecutive dissolved oxygen readings are ± 10 percent of each other
    - Three consecutive Redox readings are ± 0.10 units of each other
    - Three consecutive measured specific conductance is ± 3 percent of each other
    - Turbidity is < 50 nephelometric turbidity units for three consecutive readings
    - Purge rate between 200 and 500 ml/min with a draw down less than 0.3 ft.
- Field measurements of pH, dissolved oxygen, temperature, and specific conductivity were recorded on the monitoring well gauging, purging, and sampling forms. The field instruments were decontaminated between wells to prevent cross-contamination.
- Once groundwater quality field parameters had stabilized under low-flow pumping conditions, sampling was performed.
- Sample bottles were obtained from the laboratory prior to field mobilization.
- Analytical samples were placed in coolers and chilled to 4ºC.
- The monitoring wells were capped and re-locked.
- Sample log sheets, labels, and chain-of-custody forms were completed after sampling at each monitoring well location.

Groundwater samples were collected from 16 off-site monitoring wells and three on-site monitoring wells. Groundwater was also collected from an off-site residential private monitoring well. One surface water sample (SW-01) was collected from Abet's Creek, from next to stream gauge SG-03 (**Figure 2**).

[6] EA. 2011c. Generic Health and Safety Plan for NYSDEC Standby Contract D007624. April.

Groundwater and surface water samples were placed in appropriate sample containers, sealed, and submitted to the laboratory for analysis for pesticides by EPA Method 608. Field forms are provided in **Attachment A**.

Quality Assurance / Quality Control

All samples were labeled, handled, and packaged following the procedures described in the Generic Quality Assurance Project Plan (QAPP) (EA 2011d)[7]. Quality Assurance / quality control samples were collected at the frequency detailed in the letter work plan (EA 2016)[8]. Two duplicates, one matrix spike, and one matrix spike duplicate sample were collected and analyzed. Analytical data for the private well sample were sent to a third party validator, Environmental Data Services, Inc. (EDS), and data usability summary reports (DUSRs) were prepared for each analytical package. The DUSRs are provided in **Attachment B**.

Groundwater Sampling Results

Of the 19 groundwater samples collected, 16 samples contained chlordane at a concentration exceeding the NYSDEC Ambient Water Quality Standard (AWQS) for Class GA waters (0.05 µg/L). The highest detected concentration of chlordane was observed in monitoring well MW-33S at 9.2 µg/L located downgradient from the site, near Abet's Creek.

Chlordane was detected in the private well PW-01 at a concentration of 0.3206 µg/L. PW-01 was collected from a tap source located at a nearby nursery/flower market. A water sample was collected from PW-1A during the May 2015 sampling event. The well was turned off for the winter season and a water sample was not able to be collected during this sampling event. Both of these private wells are located along the western edge of the chlordane plume boundary. The chlordane detection in PW-01 did not exceed the New York State Department of Health (NYSDOH) drinking water standard of 2 µg/L.

Chlordane was not detected in the surface water sample collected from location SW-01.

Analytical results from the December 2016 groundwater sampling event are summarized in **Table 1** and on **Figure 3**. Groundwater trends are provided in **Table 2**. Laboratory analytical results for total chlordane from the groundwater sampling event are provided in **Attachment C**.

CONCLUSIONS

Groundwater analytical results from this sampling event indicate that concentrations of chlordane within the plume are generally stable when compared to previous groundwater sampling results. On-site groundwater contains elevated concentrations of chlordane, though two of the three samples contained lower concentrations in 2016 than 2015.
The concentration of chlordane detected in MW-33S during the December 2016 sampling event was the highest detected during that event and higher than the concentration detected during the

[7] EA. 2011d. Generic Quality Assurance Project Plan For NYSDEC Standby Contract D007624. April.
[8] EA. 2016. Letter Work Plan. 2016 Groundwater Sampling Event. November.

May 2015 sampling event. In contrast, the deeper wells within the same cluster, MW-33D, MW-33I, and WO-33P contained lower concentrations of chlordane than MW-33S, which were consistent with concentrations detected up-gradient from these wells. The increased concentration in MW-33S is likely the result of contamination from a separate source.

Surface water results were also consistent with previous results and indicate that site related contaminants are not migrating from groundwater to surface water within Abet's Creeks.

If you have any questions regarding the results of this groundwater sampling report, please do not hesitate to contact me at (315) 431-4610.

Sincerely yours,

EA SCIENCE AND TECHNOLOGY

Megan Miller
Project Manager

EA ENGINEERING, P.C.

Donald F. Conan, P.E.
Vice President

Attachments

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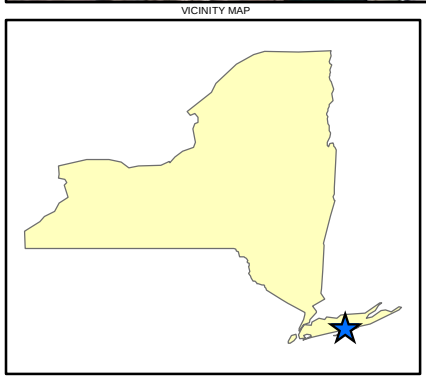
VICINITY MAP



Legend

- Groundwater Monitoring Well
- Potable Well
- PDI Piezometer
- Surface Water Location
- Fenceline
- Property Boundaries

0 250 500
Feet

N

Figure 1
2016 Groundwater Sampling Locations
Bianchi Weiss Greenhouses (152209)
East Patchogue, New York

Map Date: 3/23/2017
Source: ESRI, 2011
Projection: NAD 1983 State Plane NY Long Island

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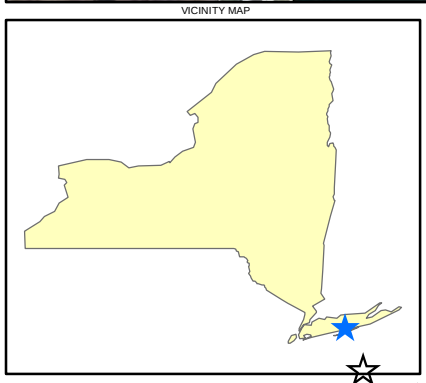
VICINITY MAP



Legend

- Groundwater Monitoring Well
- PDI Piezometer
- Groundwater Contour (1 ft. interval)
- Inferred Groundwater Contour
- Groundwater Flow Direction
- Fenceline
- Property Boundaries

0 250 500
Feet

N

Note: Contours are reported in ft AMSL (feet Above Mean Sea Level)

Figure 2
Groundwater Flow
Bianchi Weiss Greenhouses (152209)
East Patchogue, New York

Map Date: 3/23/2017
Source: ESRI, 2011
Projection: NAD 1983 State Plane NY Long Island

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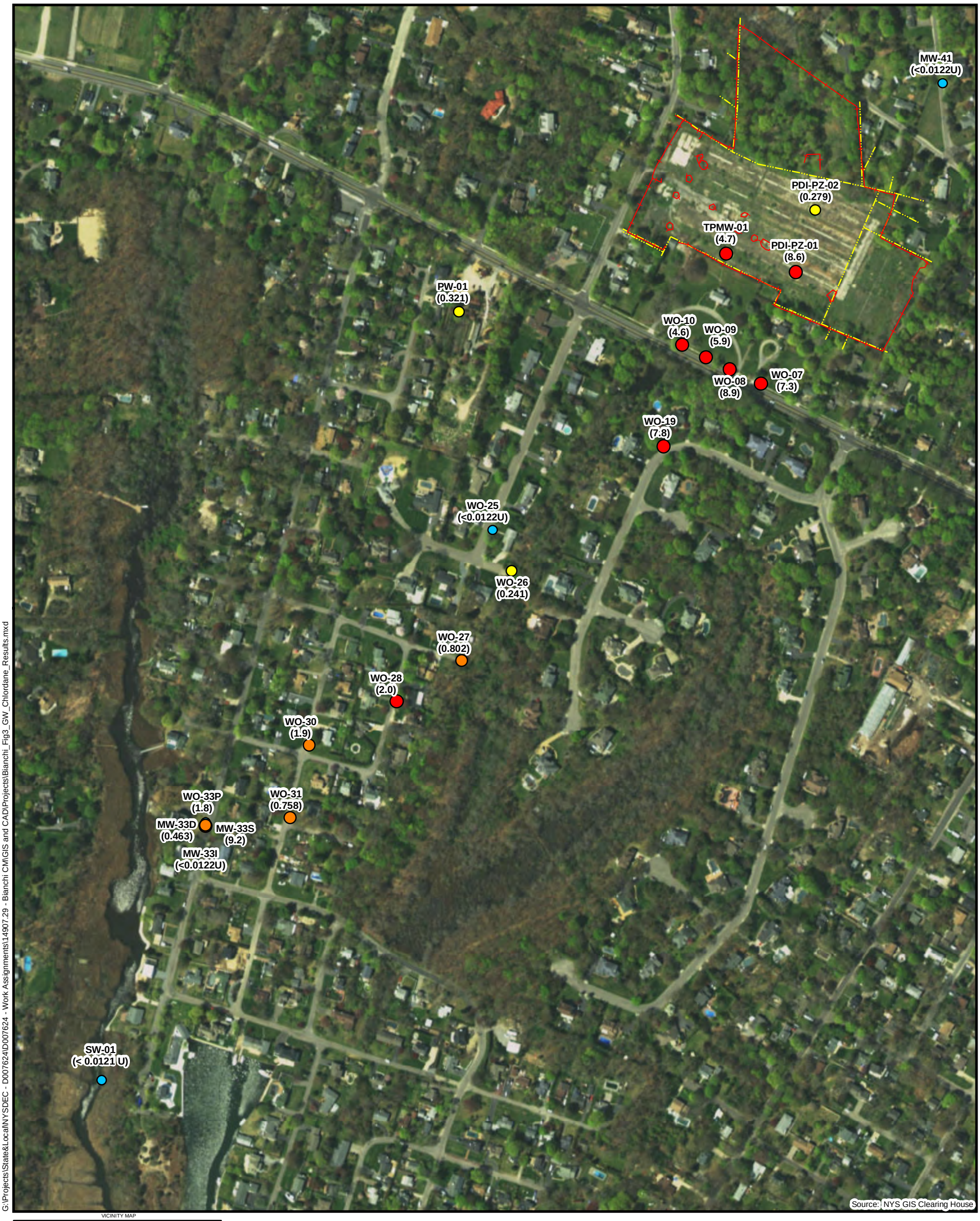

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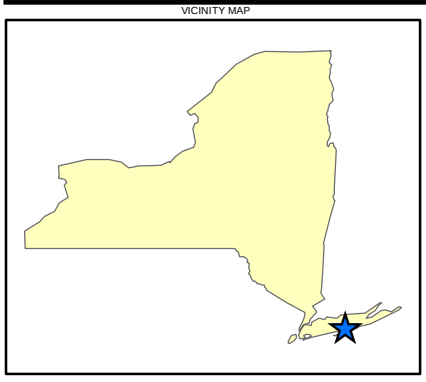
VICINITY MAP



0 250 500
Feet

N

Legend

Chlordane (total) Concentration Range (ug/L)

- = Non-detect
- = > 0.05 (ug/L)
- = > 0.5 (ug/L)
- = > 2 (ug/L)
- Fenceline
- Property Boundaries

Note: NYSDEC AWQS - Chlordane = 0.05 ug/L

Figure 3
Groundwater Analytical Results Chlordane (total)
Bianchi Weiss Greenhouses (152209)
East Patchogue, New York

Map Date: 3/23/2017
Source: ESRI, 2011
Projection: NAD 1983 State Plane NY Long Island

NEW YORK STATE OF OPPORTUNITY Department of Environmental Conservation

Table 1 Groundwater Analytical Data December 2016

Parameter List USEPA Method 608	Sample ID	TPMW-01		PDI-PZ-01		PDI-PZ-02		WO-07		WO-08		WO-09		WO-10		NYSDEC Ambient Water Quality Standard Class GA (µg/L)
	Lab ID	H5959-03		H5959-04		H5959-02		H5959-05		H5959-06		H5959-07		H5959-08		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	12/6/2016		12/6/2016		12/6/2016		12/6/2016		12/6/2016		12/6/2016		12/6/2016		
Chlordane	µg/L	**4.7**	**D**	**8.6**	**D**	**0.2794**		**7.3**	**D**	**8.9**	**D**	**5.9**	**D**	**4.6**	**D**	*0.05 (s)*

Parameter List USEPA Method 608	Sample ID	WO-19		WO-25		WO-26		WO-27		WO-28		WO-30		WO-31		NYSDEC Ambient Water Quality Standard Class GA (µg/L)
	Lab ID	H5959-13		H5959-15		H5959-24		H5959-14		H5959-18		H5959-16		H5959-17		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	12/7/2016		12/7/2016		12/7/2016		12/7/2016		12/7/2016		12/7/2016		12/7/2016		
Chlordane	µg/L	**7.8**	**D**	(<0.0122)	U	**0.241**		**0.8018**		**2.0**	**D**	**1.9**	**D**	**0.7584**	**P**	*0.05 (s)*

Parameter List USEPA Method 608	Sample ID	WO-33P		MW-33S		MW-33I		MW-33D		MW-41		PW-01		SW-01		NYSDEC Ambient Water Quality Standard Class GA (µg/L)
	Lab ID	H5959-12		H5959-11		H5959-09		H5959-10		H5959-01		H5958-01		H5959-25		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	12/6/2016		12/6/2016		12/6/2016		12/6/2016		12/6/2016		12/5/2016		12/5/2016		
Chlordane	µg/L	**1.8**	**D**	**9.2**	**D**	(<0.0122)	U	**0.4628**		(<0.0122)	U	**0.3206**		(<0.0121)	**U**	*0.05 (s)*

Parameter List USEPA Method 608	Sample ID	FD-01-20161206		FD-02-20161206		NYSDEC Ambient Water Quality Standard Class GA (µg/L)
	Lab ID	H5959-19		H5959-20		
	Sample Type	Groundwater		Groundwater		
	Sample Date	12/6/2016		12/6/2016		
Chlordane	µg/L	**5.3**	**D**	**7.1**	**D**	*0.05 (s)*

NOTE:
USEPA = U.S. Environmental Protection Agency
ID = Identification
NYSDEC = New York State Department of Enviornmental Conservation
µg/L = micrograms per liter
P = >25% difference detected between concentrations in pesticides.
D = Sample was diluted.
U = Non-detect, detection below the method detection limit.
J = The associated numerical value is an estimated quantity
(s) = Standard
December 2016 data provided by Chemtech Consulting Group, Inc. Data validation completed by Environmental Data Services, Inc.
Concentration values in **bold** indicate the concentration was above the respective standard, criteria, and guidance.
FD-01-20161206 was collected from WO-10 on 12/6/2016. FD-02-20161206 was collected from TPMW-01 on 12/6/2016.

Table 2 Groundwater Trends

Well Identification	Concentration of Chlordane - December 2009	Concentration of Chlordane - May 2013	Concentration of Chlordane - May 2015	Concentration of Chlordane - December 2016
MW-33D	**0.32**	**0.33 J**	**0.28**	**0.46**
MW-33I	**0.16**	**0.461**	**0.086**	U
MW-33S	**6.4**	**9**	**3.9**	**9.2 D**
MW-41	**0.34**	U	**0.1**	U
WO-07	**8.4 DJ**	**19**	**5.2**	**7.3 D**
WO-08	**17 D**	**21.6**	**6.6**	**8.9 D**
WO-09	**14 DJ**	**13.3**	**4.9**	**5.9 D**
WO-10	**5.3 D**	**7.3**	**3.5**	**4.6 D**
WO-17			U	
WO-19	**11**	**9.7**	**4.7**	**7.8 D**
WO-25			U	U
WO-26	**0.92**	**0.678**	**0.16**	**0.24**
WO-27	**3.3 DJ**	**3.1**	**0.98**	**0.80**
WO-28	**3.8 DJ**	**3.4**	**0.86**	**2.0 D**
WO-30	**3.4 DJ**	**3**	**1.50**	**1.9 D**
WO-31	**3.9 DJ**	**3.9**	**0.81**	**0.7584 P**
WO-33P		**5.9**	**0.9**	**1.8 D**
PDI-PZ-01		**33.9**	**12.0**	**8.6 D**
PDI-PZ-02		**7.5**	**2.7**	**0.28**
PDI-PZ-03		**7.6**		
TPMW01		**6.8**	**2.9**	**4.7 D**
PW-1		**0.451**	**0.390**	**0.32**
PW-1A		**0.198**	0.045 J	
SW			0.034	
SW-01				U
DUP01-0513		**22.8**		
DUP1			**0.098**	
DUP2			**0.32**	
FD-01-20161206				**5.3 D**
FD-02-20161206				**7.1 D**
FB-01			U	
FB-02			U	
FB-03			U	

Note:
J = The associated numerical value is an estimated quantity.
DJ = The associated numerical value is an estimated quantity from a dilution run.
U = Non-detect, detection below the method detection limit.
P = >25% difference detected between concentrations in pesticides.
Bold data represents data above the NYSDEC GA Groundwater standard for Chlordane of 0.05 ug/L.
Highlighted data is concentrations of Chlordane exceeding the NYSDOH drinking water standard of 2 ug/L.
May 2015 data provided by Test America Laboratories, Inc.
December 2016 data provided by Chemtech Consulting Group, Inc. Data validation completed by Environmental Data Services, Inc.
DUP01-0513 is a duplicate collected from WO-8 during the May 2013 sampling event.
DUP1 is a duplicate collected from MW-33I and DUP2 is a duplicate collected from PW-1 during the May 2015 sampling event.
FD-01-20161206 is a duplicate collected from WO-10 and FD-02-20161206 is a duplicate collected from TPMW-01 during the December 2016 sampling event.
FB = Field Blank
PW = Private Well
SW = Surface Water

Attachment A

Field Forms

EA Engineering, P.C.
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: SW-SG-03	**EA Personnel:** KT/SS/JM	**Client:** NYSDEC; BIANCHI WEISS GREENHOUSES
Location: End of Roosevelt Ave	**Well Condition:** Surface Water	**Weather:** Cleaar, Calm 45°F
Sounding Method: NA	**Gauge Date:** NA	**Measurement Ref:** NA
	Gauge Time: NA	
Stick Up/Down (ft): NA	**PID Headspace Reading:** NA	**Well Diameter (in):** NA

Purge Date: 5-Dec-16	**Purge Time:** NA
Purge Method: NA	**Field Technician:** KT/SS/JM

Well Volume

A. Well Depth (ft): NA	**D. Well Volume (ft):** NA	**Depth/Height of Top of PVC:** NA
B. Depth to Water (ft): NA	**E. Well Volume (gal) C*D):** NA	**Pump Type:** PERI
C. Liquid Depth (ft) (A-B): NA	**F. Three Well Volumes (gal) (E3):** NA	**Pump Intake Depth:** NA

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (^{o}C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1533	6.70	25.2	0	6.27	9.42	-112	NA	NA	NA

Total Quantity of Water Removed (gal):	0.25	**Sampling Time:**	1531
Samplers:	KT/SS/JM	**Split Sample With:**	--
Sampling Date:	12/5/2016	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Surface Water sample

EA Engineering, P.C.
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: PW-01	**EA Personnel:** KT/SS/JM	**Client:** NYSDEC; BIANCHI WEISS GREENHOUSES
Location: Basement of Residence	**Well Condition:** Good	**Weather:** Clear 50°, Calm
Sounding Method: NA	**Gauge Date:** NA	**Measurement Ref:** NA
	Gauge Time: NA	
Stick Up/Down (ft): NA	**PID Headspace Reading:** NA	**Well Diameter (in):** NA

Purge Date: 5-Dec-16	**Purge Time:** 1445-1455
Purge Method: spigot ran for ten minutes prior to sample collection	**Field Technician:** KT/SS/JM

Well Volume

A. Well Depth (ft): NA	**D. Well Volume (ft):** NA	**Depth/Height of Top of PVC:** NA
B. Depth to Water (ft): NA	**E. Well Volume (gal) C*D):** NA	**Pump Type:** Faucet
C. Liquid Depth (ft) (A-B): NA	**F. Three Well Volumes (gal) (E3):** NA	**Pump Intake Depth:** NA

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (^{o}C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (Gallons)
1455	5.13	0.399	34.4	2	50.62	27	NA	NA	10

Total Quantity of Water Removed (gal):	10	**Sampling Time:**	1455
Samplers:	KT/SS/JM	**Split Sample With:**	ms/msd
Sampling Date:	12/5/2016	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: MS/MSD taken here

EA Engineering, P.C.
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: PDI-PZ-01	**EA Personnel:** KT/SS/JM	**Client:** NYSDEC; BIANCHI WEISS GREENHOUSES
Location: Southern border of site	**Well Condition:** Good/New	**Weather:** Clear 40°F
Sounding Method: Solonist 100'	**Gauge Date:** 12/6/2016 **Gauge Time:** 7:20:00	**Measurement Ref:** TOC
Stick Up/Down (ft): + 3	**PID Headspace Reading:** NA	**Well Diameter (in):** 2

Purge Date: 6-Dec-16	**Purge Time:** 1106
Purge Method: Low Flow	**Field Technician:** KT/SS/JM

Well Volume

A. Well Depth (ft): 17.47	**D. Well Volume (ft):** 0.163	**Depth/Height of Top of PVC:** -0.3
B. Depth to Water (ft): 9.47	**E. Well Volume (gal) C*D):** 1.304	**Pump Type:** PERI
C. Liquid Depth (ft) (A-B): 8	**F. Three Well Volumes (gal) (E3):** 3.912	**Pump Intake Depth:** 12.0

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1107	5.43	0.241	234	5.47	13.02	180	9.5	0.20	--
1110	5.66	0.228	92.2	5.74	13.01	173	9.5	0.20	0.60
1113	5.69	0.233	70.9	5.69	13.09	175	9.5	0.20	1.20
1116	5.69	0.236	49.6	5.54	13.00	179	9.5	0.20	1.80
1119	5.63	0.238	40.5	5.43	13.01	182	9.5	0.20	2.40
1122	5.67	0.239	32.1	5.39	13.05	184	9.5	0.20	3.00
1124	5.69	0.239	24.1	5.43	13.09	185	9.5	0.20	3.60
1127	5.66	0.241	20.2	5.31	13.16	186	9.5	0.20	4.20
1130	5.66	0.239	19.1	5.35	13.14	187	9.5	0.20	4.80

Total Quantity of Water Removed (gal):	1.2680256	**Sampling Time:**	1130
Samplers:	KT/SS/JM	**Split Sample With:**	--
Sampling Date:	6-Dec-16	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Clear and odorless

EA Engineering, P.C.
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: PDI-PZ-02	**EA Personnel:** KT/SS	**Client:** NYSDEC; BIANCHI WEISS GREENHOUSES
Location: Middle of Site	**Well Condition:** Good/New	**Weather:** Clear 38°F
Sounding Method: Solonist 100'	**Gauge Date:** 12/6/2016 **Gauge Time:** 7:15:00	**Measurement Ref:** TOC
Stick Up/Down (ft): + 3	**PID Headspace Reading:** NA	**Well Diameter (in):** 2

Purge Date: 6-Dec-16	**Purge Time:** 1012
Purge Method: Low Flow	**Field Technician:** KT/SS

Well Volume

A. Well Depth (ft): 17.5	**D. Well Volume (ft):** 0.163	**Depth/Height of Top of PVC:** -0.2
B. Depth to Water (ft): 9.4	**E. Well Volume (gal) C*D):** 1.3203	**Pump Type:** PERI
C. Liquid Depth (ft) (A-B): 8.1	**F. Three Well Volumes (gal) (E3):** 3.9609	**Pump Intake Depth:** 17

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1013	6.07	0.338	748	4.61	11.38	195	9.35	0.25	--
1016	5.40	0.297	385	4.39	12.23	211	9.35	0.25	0.75
1019	5.32	0.279	162	4.71	12.39	211	9.35	0.25	1.5
1022	5.42	0.277	98.3	4.81	12.51	203	9.35	0.25	2.25
1025	5.24	0.283	68.3	4.51	12.70	209	9.35	0.25	3
1028	5.46	0.282	50..4	4.48	12.79	197	9.35	0.25	3.75
1031	5.52	0.28	38.5	4.48	12.87	194	9.35	0.25	4.5
1034	5.57	0.286	32.7	4.45	12.96	193	9.35	0.25	5.25

Total Quantity of Water Removed (gal):	1.386903	**Sampling Time:**	1034
Samplers:	KT/SS	**Split Sample With:**	--
Sampling Date:	6-Dec-16	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Cleared during purging; odorless

EA Engineering, P.C.
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: TPMW-01	**EA Personnel:** KT/SS/JM	**Client:** NYSDEC; BIANCHI WEISS GREENHOUSES
Location: Southern border of site	**Well Condition:** Good/New	**Weather:** Clear 40°F
Sounding Method: Solonist 100'	**Gauge Date:** 12/6/2016 **Gauge Time:** 7:22:00	**Measurement Ref:** TOC
Stick Up/Down (ft): + 3	**PID Headspace Reading:** NA	**Well Diameter (in):** 2

Purge Date: 6-Dec-16	**Purge Time:** 1033
Purge Method: Low Flow	**Field Technician:** KT/SS/JM

Well Volume

A. Well Depth (ft): 12.51	**D. Well Volume (ft):** 0.163	**Depth/Height of Top of PVC:** -0.3
B. Depth to Water (ft): 8.53	**E. Well Volume (gal) C*D):** 0.64874	**Pump Type:** PERI
C. Liquid Depth (ft) (A-B): 3.98	**F. Three Well Volumes (gal) (E3):** 1.94622	**Pump Intake Depth:** 12.0

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1047	5.85	0.305	>1000	1.75	11.81	105	8.53	0.20	--
1050	5.53	0.296	672	1.78	12.27	141	8.54	0.20	0.60
1053	5.47	0.297	204	1.62	12.41	151	8.54	0.20	1.20
1056	5.44	0.288	123	1.48	12.49	155	8.54	0.20	1.80
1059	5.42	0.280	54.7	1.35	12.60	159	8.54	0.20	2.40
1102	5.41	0.276	31.7	1.29	12.59	161	8.54	0.20	3.00
1105	5.4	0.272	18.5	1.22	12.65	163	8.54	0.20	3.60
1108	5.4	0.269	13.8	1.27	12.67	164	8.54	0.20	4.20

Total Quantity of Water Removed (gal):	1.1095224	**Sampling Time:**	1108
Samplers:	KT/SS/JM	**Split Sample With:**	--
Sampling Date:	6-Dec-16	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Duplicate FD-02 taken here

EA Engineering, P.C.
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-33S	**EA Personnel:** KT/SS/JM	**Client:** NYSDEC; BIANCHI WEISS GREENHOUSES
Location: End of Roosevelt Blvd.	**Well Condition:** Good	**Weather:** Overcast 40°F
Sounding Method: Solonist 100'	**Gauge Date:** 12/5/2016	**Measurement Ref:** TOC
	Gauge Time: 16:05:00	
Stick Up/Down (ft): -3"	**PID Headspace Reading:** NA	**Well Diameter (in):** 2

Purge Date: 6-Dec-16	**Purge Time:** 1449
Purge Method: Low Flow	**Field Technician:** KT/SS/JM

Well Volume

A. Well Depth (ft): 10	**D. Well Volume (ft):** 0.163	**Depth/Height of Top of PVC:** -0.1
B. Depth to Water (ft): 2.9	**E. Well Volume (gal) C*D):** 1.1573	**Pump Type:** PERI
C. Liquid Depth (ft) (A-B): 7.1	**F. Three Well Volumes (gal) (E3):** 3.4719	**Pump Intake Depth:** 9.5

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1450	5.45	0.220	14.2	1.01	11.87	144	2.78	0.20	--
1453	5.19	0.224	9.8	0.57	11.83	158	2.78	0.20	0.60
1456	5.17	0.230	4.6	0.48	11.77	168	2.78	0.20	1.20
1459	5.14	0.232	3.7	0.42	11.68	177	2.78	0.20	1.80
1502	5.13	0.233	3.5	0.39	11.63	182	2.78	0.20	2.40
1505	5.13	0.232	3.9	0.39	11.61	186	2.78	0.20	3.00

Total Quantity of Water Removed (gal):	0.792516	**Sampling Time:**	1505
Samplers:	KT/SS/JM	**Split Sample With:**	--
Sampling Date:	6-Dec-16	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Clear; odorless

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-33I	**EA Personnel:** KT/SS/JM	**Client:** NYSDEC; BIANCHI WEISS GREENHOUSES
Location: Roosevelt Blvd.	**Well Condition:** No Bolts	**Weather:** Cloudy 40°F
Sounding Method: Solonist 100'	**Gauge Date:** 12/5/2016	**Measurement Ref:** TOC
	Gauge Time: 16:00:00	
Stick Up/Down (ft): -2"	**PID Headspace Reading:** NA	**Well Diameter (in):** 2

Purge Date: 6-Dec-16	**Purge Time:** 1416
Purge Method: Low Flow	**Field Technician:** KT/SS/JM

Well Volume

A. Well Depth (ft): 24.3	**D. Well Volume (ft):** 0.163	**Depth/Height of Top of PVC:** -0.1
B. Depth to Water (ft): 3.08	**E. Well Volume (gal) C*D):** 3.45886	**Pump Type:** PERI
C. Liquid Depth (ft) (A-B): 21.22	**F. Three Well Volumes (gal) (E3):** 10.37658	**Pump Intake Depth:** 24.0

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1417	5.65	0.248	4.7	1.81	11.97	174	3.08	0.20	--
1420	5.17	0.253	0	0.88	12.10	189	3.08	0.20	0.60
1423	5.05	0.256	0	0.62	12.24	200	3.08	0.20	1.20
1426	5.01	0.256	0	0.55	12.30	206	3.08	0.20	1.80
1429	5.00	0.258	0	0.50	12.33	210	3.08	0.20	2.40
1432	4.99	0.260	0	0.47	12.36	214	3.08	0.20	3.00
1435	4.99	0.260	0	0.46	12.38	216	3.08	0.20	3.60

Total Quantity of Water Removed (gal):	0.9510192	**Sampling Time:**	1435
Samplers:	KT/SS/JM	**Split Sample With:**	
Sampling Date:	6-Dec-16	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Clear; odorless

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-33D	**EA Personnel:** KT/SS/JM	**Client:** NYSDEC; BIANCHI WEISS GREENHOUSES
Location: End of Roosevelt Blvd.	**Well Condition:** Good	**Weather:** Cloudy 45°F
Sounding Method: Solonist 100'	**Gauge Date:** 12/5/2016	**Measurement Ref:** TOC
	Gauge Time: 16:07:00	
Stick Up/Down (ft): -2"	**PID Headspace Reading:** NA	**Well Diameter (in):** 2

Purge Date: 6-Dec-16	**Purge Time:** 1429
Purge Method: Low Flow	**Field Technician:** KT/SS/JM

Well Volume

A. Well Depth (ft): 56.48	**D. Well Volume (ft):** 0.163	**Depth/Height of Top of PVC:** -0.1
B. Depth to Water (ft): 2.78	**E. Well Volume (gal) C*D):** 8.7531	**Pump Type:** PERI
C. Liquid Depth (ft) (A-B): 53.7	**F. Three Well Volumes (gal) (E3):** 26.2593	**Pump Intake Depth:** 56.0

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1430	5.78	0.350	0	3.21	12.9	144	2.78	0.20	--
1433	5.73	0.350	0	4.94	12.9	158	2.78	0.20	0.60
1436	5.72	0.350	0	4.70	12.87	168	2.78	0.20	1.20
1439	5.71	0.350	0	4.45	12.92	177	2.78	0.20	1.80
1442	5.71	0.350	0	4.27	12.93	182	2.78	0.20	2.40
1445	5.71	0.350	0	4.11	12.85	186	2.78	0.20	3.00
1448	5.7	0.350	0	3.98	12.77	191	2.78	0.20	3.60

Total Quantity of Water Removed (gal):	0.9510192	**Sampling Time:**	1448
Samplers:	KT/SS/JM	**Split Sample With:**	--
Sampling Date:	6-Dec-16	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Clear; odorless

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-41	**EA Personnel:** KT/SS/JM	**Client:** NYSDEC; BIANCHI WEISS GREENHOUSES
Location: Hedges Ave; Side of Rd	**Well Condition:** No bolts, needs new j plug	**Weather:** Clear 35°F
Sounding Method: Solonist 100'	**Gauge Date:** 12/6/2016	**Measurement Ref:** TOC
	Gauge Time: 9:38:00	
Stick Up/Down (ft): flush	**PID Headspace Reading:** NA	**Well Diameter (in):** 2

Purge Date: 6-Dec-16	**Purge Time:** 947
Purge Method: Low Flow	**Field Technician:** KT/SS

Well Volume

A. Well Depth (ft): 34.62	**D. Well Volume (ft):** 0.163	**Depth/Height of Top of PVC:** -0.1
B. Depth to Water (ft): 12.56	**E. Well Volume (gal) C*D):** 3.59578	**Pump Type:** PERI
C. Liquid Depth (ft) (A-B): 22.06	**F. Three Well Volumes (gal) (E3):** 10.78734	**Pump Intake Depth:** 12'

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
949	5.74	0.692	92.9	1.05	12.49	71	12.54	0.20	--
952	4.87	0.638	53.4	0.71	12.68	115	12.52	0.20	0.6
955	4.76	0.612	34.2	0.57	12.85	135	12.52	0.20	1.2
958	4.72	0.599	21.7	0.48	12.99	152	12.52	0.20	1.8
1001	4.71	0.595	7.7	0.43	13.07	163	12.52	0.20	2.4
1004	4.69	0.588	3.8	0.40	13.07	175	12.52	0.20	3
1007	4.68	0.585	2.3	0.37	13.14	184	12.52	0.20	3.6
1010	4.68	0.585	1.8	0.37	13.17	189	12.52	0.20	4.2

Total Quantity of Water Removed (gal):	1.1095224	**Sampling Time:**	1010
Samplers:	KT/SS/JM	**Split Sample With:**	--
Sampling Date:	12/6/2016	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS:

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: WO-07	**EA Personnel:** KT/SS/JM	**Client:** NYSDEC; BIANCHI WEISS GREENHOUSES
Location: S. Country Rd	**Well Condition:** Good	**Weather:** Cloudy 40°F
Sounding Method: Solonist 100'	**Gauge Date:** 12/6/2016 **Gauge Time:** 8:10:00	**Measurement Ref:** TOC
Stick Up/Down (ft): -4"	**PID Headspace Reading:** NA	**Well Diameter (in):** 2

Purge Date: 6-Dec-16	**Purge Time:** 1155
Purge Method: Low Flow	**Field Technician:** KT/SS/JM

Well Volume

A. Well Depth (ft): 20.05	**D. Well Volume (ft):** 0.163	**Depth/Height of Top of PVC:** -0.2
B. Depth to Water (ft): 6.16	**E. Well Volume (gal) C*D):** 2.26407	**Pump Type:** PERI
C. Liquid Depth (ft) (A-B): 13.89	**F. Three Well Volumes (gal) (E3):** 6.79221	**Pump Intake Depth:** 19.5

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (^{o}C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1156	6.04	0.189	15.9	6.83	12.82	126	6.16	0.20	--
1159	5.61	0.172	9.1	2.43	13.16	146	6.17	0.20	0.60
1202	5.39	0.167	2.4	2.17	13.50	158	6.17	0.20	1.20
1205	5.31	0.165	0	2.11	13.56	164	6.17	0.20	1.80
1208	5.26	0.168	0	2.07	13.60	168	6.17	0.20	2.40
1211	5.23	0.170	0	2.04	13.59	171	6.17	0.20	3.00
1214	5.21	0.172	0	2.03	13.61	173	6.17	0.20	3.60

Total Quantity of Water Removed (gal):	0.9510192	**Sampling Time:**	1214
Samplers:	KT/SS/JM	**Split Sample With:**	--
Sampling Date:	6-Dec-16	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: PVC is broken at top

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EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: WO-08	**EA Personnel:** KT/SS/JM	**Client:** NYSDEC; BIANCHI WEISS GREENHOUSES
Location: S. Country Rd	**Well Condition:** Good	**Weather:** Cloudy 40°F
Sounding Method: Solonist 100'	**Gauge Date:** 12/6/2016 **Gauge Time:** 8:10:00	**Measurement Ref:** TOC
Stick Up/Down (ft): Flush	**PID Headspace Reading:** NA	**Well Diameter (in):** 2

Purge Date: 6-Dec-16	**Purge Time:** 1158
Purge Method: Low Flow	**Field Technician:** KT/SS/JM

Well Volume

A. Well Depth (ft): 20.32	**D. Well Volume (ft):** 0.163	**Depth/Height of Top of PVC:** -0.2
B. Depth to Water (ft): 6.4	**E. Well Volume (gal) C*D):** 2.26896	**Pump Type:** PERI
C. Liquid Depth (ft) (A-B): 13.92	**F. Three Well Volumes (gal) (E3):** 6.80688	**Pump Intake Depth:** 20.0

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1159	5.84	0.140	309	5.63	13.69	19	6.45	0.20	--
1202	6.02	0.138	246	5.23	13.82	11	6.45	0.20	0.60
1205	6.07	0.128	126	5.16	13.92	26	6.45	0.20	1.20
1208	6.02	0.126	73.3	5.13	13.93	42	6.45	0.20	1.80
1211	5.99	0.126	47.5	5.09	13.94	54	6.45	0.20	2.40
1214	5.95	0.130	29.4	5.00	13.96	66	6.45	0.20	3.00
1217	5.93	0.129	27.8	5.04	13.96	71	6.45	0.20	3.60
1220	5.90	0.135	16.7	4.92	14.00	82	6.45	0.20	4.20
1223	5.89	0.133	17.2	5.02	14.02	85	6.45	0.20	4.80
1226	5.87	0.132	11.5	4.92	14.05	91	6.45	0.20	5.40

Total Quantity of Water Removed (gal):	1.4265288	**Sampling Time:**	1226
Samplers:	KT/SS/JM	**Split Sample With:**	--
Sampling Date:	6-Dec-16	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Initially turbid; cleard up, odorless

EA Engineering, P.C.
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: WO-09	**EA Personnel:** KT/SS/JM	**Client:** NYSDEC; BIANCHI WEISS GREENHOUSES
Location: S. Country Rd	**Well Condition:** Good	**Weather:** Cloudy 40°F
Sounding Method: Solonist 100'	**Gauge Date:** 12/6/2016	**Measurement Ref:** TOC
	Gauge Time: 13:15:00	
Stick Up/Down (ft): Flush	**PID Headspace Reading:** NA	**Well Diameter (in):** 2

Purge Date: 6-Dec-16	**Purge Time:** 1334
Purge Method: Low Flow	**Field Technician:** KT/SS/JM

Well Volume

A. Well Depth (ft): 20.28	**D. Well Volume (ft):** 0.163	**Depth/Height of Top of PVC:** -0.2
B. Depth to Water (ft): 5.64	**E. Well Volume (gal) C*D):** 2.38632	**Pump Type:** PERI
C. Liquid Depth (ft) (A-B): 14.64	**F. Three Well Volumes (gal) (E3):** 7.15896	**Pump Intake Depth:** 20.0

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (^{o}C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1335	5.84	0.177	2.4	5.72	12.36	148	5.64	0.20	--
1338	6.09	0.173	0.8	5.55	12..85	124	5.64	0.20	0.60
1341	6.12	0.171	0	5.53	13.05	107	5.64	0.20	1.20
1344	6.11	0.171	0	5.41	13.17	95	5.64	0.20	1.80
1347	6.12	0.171	0	5.36	13.24	87	5.64	0.20	2.40
1350	6.10	0.171	0	5.37	12.27	81	5.64	0.20	3.00

Total Quantity of Water Removed (gal):	0.792516	**Sampling Time:**	1350
Samplers:	KT/SS/JM	**Split Sample With:**	--
Sampling Date:	6-Dec-16	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Clear, odorless

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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: WO-10	**EA Personnel:** KT/SS/JM	**Client:** NYSDEC; BIANCHI WEISS GREENHOUSES
Location: S. Country Rd	**Well Condition:** No Bolts	**Weather:** Cloudy 40°F
Sounding Method: Solonist 100'	**Gauge Date:** 12/6/2016	**Measurement Ref:** TOC
	Gauge Time: 13:15:00	
Stick Up/Down (ft): -6"	**PID Headspace Reading:** NA	**Well Diameter (in):** 2

Purge Date: 6-Dec-16	**Purge Time:** 1330
Purge Method: Low Flow	**Field Technician:** KT/SS/JM

Well Volume

A. Well Depth (ft): 20.33	**D. Well Volume (ft):** 0.163	**Depth/Height of Top of PVC:** -0.2
B. Depth to Water (ft): 5.35	**E. Well Volume (gal) C*D):** 2.44174	**Pump Type:** PERI
C. Liquid Depth (ft) (A-B): 14.98	**F. Three Well Volumes (gal) (E3):** 7.32522	**Pump Intake Depth:** 20.0

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1331	6.03	0.156	43.5	3.14	13.40	139	5.35	0.20	--
1334	5.74	0.154	25.3	2.42	13.73	154	5.35	0.20	0.60
1337	5.52	0.154	11.3	2.20	13.86	166	5.35	0.20	1.20
1340	5.41	0.154	7.5	2.13	13.98	173	5.35	0.20	1.80
1343	5.35	0.155	3.9	2.07	13.94	177	5.35	0.20	2.40
1346	5.33	0.155	2.1	2.03	14.02	179	5.35	0.20	3.00
1349	5.30	0.155	1.4	1.99	14.05	180	5.35	0.20	3.60

Total Quantity of Water Removed (gal):	0.9510192	**Sampling Time:**	1349
Samplers:	KT/SS/JM	**Split Sample With:**	FD-01
Sampling Date:	6-Dec-16	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Collected FD-01 here

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EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: WO-19	**EA Personnel:** KT/SS/JM	**Client:** NYSDEC; BIANCHI WEISS GREENHOUSES
Location: Moss Creek Lane	**Well Condition:** No bolts	**Weather:** Overcast/Rain 45°F
Sounding Method: Solonist 100'	**Gauge Date:** 12/6/2016	**Measurement Ref:** TOC
	Gauge Time: 8:00:00	
Stick Up/Down (ft): -1"	**PID Headspace Reading:** NA	**Well Diameter (in):** 2

Purge Date: 7-Dec-16	**Purge Time:** 710
Purge Method: Low Flow	**Field Technician:** KT/SS/JM

Well Volume

A. Well Depth (ft): 19.81	**D. Well Volume (ft):** 0.163	**Depth/Height of Top of PVC:** -0.1
B. Depth to Water (ft): 3.82	**E. Well Volume (gal) C*D):** 2.60637	**Pump Type:** PERI
C. Liquid Depth (ft) (A-B): 15.99	**F. Three Well Volumes (gal) (E3):** 7.81911	**Pump Intake Depth:** 19.0

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
725	6.47	0.470	908	3.12	13.20	-22	4.00	0.20	--
728	6.12	0.485	383	1.45	13.16	-22	4.00	0.20	0.60
731	5.99	0.393	149	1.64	13.11	-2	4.00	0.20	1.20
734	5.98	0.347	135	1.75	13.10	5	4.00	0.20	1.80
737	5.99	0.332	50.2	1.79	13.08	16	4.00	0.20	2.40
740	5.97	0.328	22.6	1.79	13.03	29	4.00	0.20	3.00
743	5.96	0.328	29.6	1.77	12.94	40	4.00	0.20	3.60
746	5.95	0.329	45.9	1.79	12.82	35	4.00	0.20	4.20
749	5.94	0.334	75.5	1.73	12.82	20	4.00	0.20	4.80
752	5.94	0.335	38.7	1.76	12.81	23	4.00	0.20	5.40
755	5.93	0.333	12.2	1.92	12.80	37	4.00	0.20	6.00
758	5.93	0.334	12.9	1.79	12.75	42	4.00	0.20	6.60
801	5.93	0.334	8.2	1.75	12.66	41	4.00	0.20	7.20

Total Quantity of Water Removed (gal):	1.9020384	**Sampling Time:**	801
Samplers:	KT/SS/JM	**Split Sample With:**	--
Sampling Date:	7-Dec-16	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Cleared during purging; odorless

EA Engineering, P.C.
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: WO-25	**EA Personnel:** KT/SS/JM	**Client:** NYSDEC; BIANCHI WEISS GREENHOUSES
Location:	**Well Condition:** Good	**Weather:** Overcast 35°F
Sounding Method: Solonist 100'	**Gauge Date:** 12/6/2016	**Measurement Ref:** TOC
	Gauge Time: 9:10:00	
Stick Up/Down (ft): -1"	**PID Headspace Reading:** NA	**Well Diameter (in):** 1

Purge Date: 7-Dec-16	**Purge Time:** 833
Purge Method: Low Flow	**Field Technician:** KT/SS/JM

Well Volume

A. Well Depth (ft): 18.8	**D. Well Volume (ft):** 0.041	**Depth/Height of Top of PVC:** -0.2
B. Depth to Water (ft): 11.23	**E. Well Volume (gal) C*D):** 0.31037	**Pump Type:** PERI
C. Liquid Depth (ft) (A-B): 7.57	**F. Three Well Volumes (gal) (E3):** 0.93111	**Pump Intake Depth:** 18.0

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
834	6.28	1.230	>1000	5.15	13.08	-22	NA	0.20	--
837	6.02	0.427	230	3.21	13.31	41	NA	0.20	0.60
840	5.92	0.343	89.6	3.24	13.42	60	NA	0.20	1.20
843	5.75	0.273	33.5	3.19	13.55	88	NA	0.20	1.80
846	5.64	0.245	21.1	3.18	13.66	108	NA	0.20	2.40
849	5.58	0.235	8.9	3.14	13.74	122	NA	0.20	3.00
852	5.54	0.231	9.9	3.12	13.66	135	NA	0.20	3.60
855	5.52	0.229	7.6	3.11	13.74	143	NA	0.20	4.20
858	5.52	0.228	1.0	3.09	13.80	148	NA	0.20	4.80
901	5.51	0.228	0.0	3.07	13.82	153	NA	0.20	5.40

Total Quantity of Water Removed (gal):	1.4265288	**Sampling Time:**	901
Samplers:	KT/SS/JM	**Split Sample With:**	--
Sampling Date:	7-Dec-16	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Clear; odorless

1" Well, could not fit water level for readings

EA Engineering, P.C.
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: WO-26	**EA Personnel:** KT/SS/JM	**Client:** NYSDEC; BIANCHI WEISS GREENHOUSES
Location: Corner of Wilson St	**Well Condition:** Good	**Weather:** Overcast 45°F
Sounding Method: Solonist 100'	**Gauge Date:** 12/6/2016 **Gauge Time:** 10:15:00	**Measurement Ref:** TOC
Stick Up/Down (ft): Flush	**PID Headspace Reading:** NA	**Well Diameter (in):** 1

Purge Date: 7-Dec-16	**Purge Time:** 1020
Purge Method: Low Flow	**Field Technician:** KT/SS/JM

Well Volume

A. Well Depth (ft): 39.97	**D. Well Volume (ft):** 0.041	**Depth/Height of Top of PVC:** -0.2
B. Depth to Water (ft): 7.53	**E. Well Volume (gal) C*D):** 1.33004	**Pump Type:** PERI
C. Liquid Depth (ft) (A-B): 32.44	**F. Three Well Volumes (gal) (E3):** 3.99012	**Pump Intake Depth:** 39.0

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1023	5.20	0.328	>1000	0.98	11.42	65	7.53	0.20	--
1026	5.1	0.317	>1000	0.57	11.79	77	7.53	0.20	0.60
1029	5.08	0.311	>1000	0.49	11.73	86	7.53	0.20	1.20
1032	5.09	0.319	>1000	0.36	11.77	72	7.53	0.20	1.80
1038	5.22	0.32	287.0	0.47	11.86	92	7.53	0.20	2.40
1041	5.07	0.32	113.0	0.36	11.91	105	7.53	0.20	3.00
1044	5.06	0.319	33.1	0.31	11.97	125	7.53	0.20	3.60
1047	5.08	0.319	17.4	0.29	11.99	132	7.53	0.20	4.20
1050	5.1	0.319	14.1	0.27	12.03	138	7.53	0.20	4.80
1053	5.11	0.318	8.6	0.27	12.04	140	7.53	0.20	5.40

Total Quantity of Water Removed (gal):	1.4265288	**Sampling Time:**	1053
Samplers:	KT/SS/JM	**Split Sample With:**	--
Sampling Date:	7-Dec-16	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Drained Horiba at 1033 to clear it of turbid water

EA Engineering, P.C.
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: WO-27	**EA Personnel:** KT/SS/JM	**Client:** NYSDEC; BIANCHI WEISS GREENHOUSES
Location:	**Well Condition:** Good	**Weather:** Overcast 41°F
Sounding Method: Solonist 100'	**Gauge Date:** 12/7/2016	**Measurement Ref:** TOC
	Gauge Time: 8:30:00	
Stick Up/Down (ft): -1"	**PID Headspace Reading:** NA	**Well Diameter (in):** 2

Purge Date: 7-Dec-16	**Purge Time:** 833
Purge Method: Low Flow	**Field Technician:** KT/SS/JM

Well Volume

A. Well Depth (ft): 40.61	**D. Well Volume (ft):** 0.163	**Depth/Height of Top of PVC:** -0.2
B. Depth to Water (ft): 7.87	**E. Well Volume (gal) C*D):** 5.33662	**Pump Type:** PERI
C. Liquid Depth (ft) (A-B): 32.74	**F. Three Well Volumes (gal) (E3):** 16.00986	**Pump Intake Depth:** 40.0

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
835	5.66	0.375	12.3	2.81	11.47	97	7.87	0.20	--
838	5.64	0.377	7.5	2.40	11.74	108	7.87	0.20	0.60
841	5.63	0.38	1.5	2.18	11.84	122	7.87	0.20	1.20
844	5.62	0.386	0	2.04	11.90	134	7.87	0.20	1.80
847	5.6	0.388	0	1.93	11.96	140	7.87	0.20	2.40
850	5.61	0.386	0	1.82	11.96	144	7.87	0.20	3.00
853	5.61	0.389	0	1.70	12.00	149	7.87	0.20	3.60

Total Quantity of Water Removed (gal):	0.9510192	**Sampling Time:**	853
Samplers:	KT/SS/JM	**Split Sample With:**	--
Sampling Date:	7-Dec-16	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Clear; odorless

EA Engineering, P.C.
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: WO-28	**EA Personnel:** KT/SS/JM	**Client:** NYSDEC; BIANCHI WEISS GREENHOUSES
Location: Side of the road by a bank	**Well Condition:** Good	**Weather:** Overcast 42°F
Sounding Method: Solonist 100'	**Gauge Date:** 12/5/2016	**Measurement Ref:** TOC
	Gauge Time: 16:33:00	
Stick Up/Down (ft): Flush	**PID Headspace Reading:** NA	**Well Diameter (in):** 1

Purge Date: 7-Dec-16	**Purge Time:** 1045
Purge Method: Low Flow	**Field Technician:** KT/SS/JM

Well Volume

A. Well Depth (ft): 39.25	**D. Well Volume (ft):** 0.041	**Depth/Height of Top of PVC:** -0.2
B. Depth to Water (ft): 13.16	**E. Well Volume (gal) C*D):** 1.06969	**Pump Type:** PERI
C. Liquid Depth (ft) (A-B): 26.09	**F. Three Well Volumes (gal) (E3):** 3.20907	**Pump Intake Depth:** 39.0

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1048	5.59	0.238	170	1.47	11.57	170	13.16	0.20	--
1051	5.56	0.24	136	1.26	11.79	190	--	0.20	0.60
1054	5.56	0.24	124	1.16	11.86	201	--	0.20	1.20
1057	5.56	0.24	113	1.12	11.89	204	--	0.20	1.80
1100	5.56	0.24	107.0	1.08	11.93	209	--	0.20	2.40
1103	5.56	0.24	101.0	1.05	11.94	214	--	0.20	3.00
1106							--	0.20	3.60
1107	5.52	0.247	361.0	1.35	11.80	209	--	0.20	4.20
1110	5.55	0.241	211.0	1.06	11.80	216	--	0.20	4.80
1113	5.54	0.241	200.0	1.04	11.83	218	--	0.20	5.40
1116	5.54	0.241	150	1.04	11.87	221	--	0.20	6.00
1119	5.54	0.241	102	0.99	11.87	223	--	0.20	6.60
1122	5.54	0.241	84.2	0.96	11.91	224	--	0.20	7.20
1125	5.54	0.242	43.2	0.93	11.92	226	--	0.20	7.80
1128	5.54	0.242	25.1	0.91	11.92	227	--	0.20	8.40
1131	5.54	0.242	4.2	0.88	11.9	228	--	0.20	9.00

Total Quantity of Water Removed (gal):	2.377548	**Sampling Time:**	1131
Samplers:	KT/SS/JM	**Split Sample With:**	--
Sampling Date:	7-Dec-16	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Drained Horiba at 1106 to clear it of turbid water
Could not take water level due to 1" well diameter

EA Engineering, P.C.
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: WO-30	**EA Personnel:** KT/SS/JM	**Client:** NYSDEC; BIANCHI WEISS GREENHOUSES
Location: Corner of Wilson St	**Well Condition:** Good	**Weather:** Overcast 45°F
Sounding Method: Solonist 100'	**Gauge Date:** 12/6/2016 **Gauge Time:** 9:30:00	**Measurement Ref:** TOC
Stick Up/Down (ft): Flush	**PID Headspace Reading:** NA	**Well Diameter (in):** 2

Purge Date: 7-Dec-16	**Purge Time:** 940
Purge Method: Low Flow	**Field Technician:** KT/SS/JM

Well Volume

A. Well Depth (ft): 45.54	**D. Well Volume (ft):** 0.163	**Depth/Height of Top of PVC:** -0.2
B. Depth to Water (ft): 9.59	**E. Well Volume (gal) C*D):** 5.85985	**Pump Type:** PERI
C. Liquid Depth (ft) (A-B): 35.95	**F. Three Well Volumes (gal) (E3):** 17.57955	**Pump Intake Depth:** 45.0

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
941	6.18	0.150	2.3	3.86	12.01	112	9.59	0.20	--
944	6.03	0.159	1.7	3.14	12.30	130	--	0.20	0.60
947	5.93	0.181	0.0	2.41	12.38	142	9.59	0.20	1.20
950	5.81	0.206	0.0	1.76	12.52	148	--	0.20	1.80
953	5.89	0.218	0.0	1.41	12.45	151	--	0.20	2.40
956	5.85	0.221	0.0	1.27	12.45	152	9.59	0.20	3.00
959	5.85	0.224	0.0	1.12	12.52	140	--	0.20	3.60
1002	5.85	0.226	0.0	1.07	12.51	136	9.59	0.20	4.20

Total Quantity of Water Removed (gal):	1.1095224	**Sampling Time:**	1002
Samplers:	KT/SS/JM	**Split Sample With:**	--
Sampling Date:	7-Dec-16	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Clear; odorless

EA Engineering, P.C.
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: WO-31	**EA Personnel:** KT/SS/JM	**Client:** NYSDEC; BIANCHI WEISS GREENHOUSES
Location:	**Well Condition:** No well cover	**Weather:** Overcast 35°F
Sounding Method: Solonist 100'	**Gauge Date:** 12/6/2016	**Measurement Ref:** TOC
	Gauge Time: 9:10:00	
Stick Up/Down (ft): Flush	**PID Headspace Reading:** NA	**Well Diameter (in):** 1

Purge Date: 7-Dec-16	**Purge Time:** 930
Purge Method: Low Flow	**Field Technician:** KT/SS/JM

Well Volume

A. Well Depth (ft): 39.43	**D. Well Volume (ft):** 0.041	**Depth/Height of Top of PVC:** -0.2
B. Depth to Water (ft): 6.37	**E. Well Volume (gal) C*D):** 1.35546	**Pump Type:** PERI
C. Liquid Depth (ft) (A-B): 33.06	**F. Three Well Volumes (gal) (E3):** 4.06638	**Pump Intake Depth:** 39.0

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
930	6.04	0.096	>1000	5.78	10.53	20	6.37	0.20	--
933	5.72	0.063	275	6.45	10.64	43	--	0.20	0.60
936	5.65	0.054	115	6.68	10.87	65	--	0.20	1.20
939	5.65	0.049	56.1	6.70	10.99	87	--	0.20	1.80
942	5.7	0.047	42.7	6.66	11.06	101	--	0.20	2.40
945	5.72	0.047	35.7	6.05	11.15	110	--	0.20	3.00
948	5.72	0.047	30.4	6.69	11.21	117	--	0.20	3.60
951	5.72	0.047	24.5	6.66	11.25	121	--	0.20	4.20
954	5.72	0.047	21.2	6.67	11.28	124	6.37	0.20	4.80

Total Quantity of Water Removed (gal):	1.2680256	**Sampling Time:**	954
Samplers:	KT/SS/JM	**Split Sample With:**	--
Sampling Date:	7-Dec-16	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Clear; odorless

Could not take water level reading during sampling due to 1" well diameter

EA Engineering, P.C.
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-33P	**EA Personnel:** KT/SS/JM	**Client:** NYSDEC; BIANCHI WEISS GREENHOUSES
Location: End of Rosevelt Blvd	**Well Condition:** Good	**Weather:** Overcast/Rain 45°F
Sounding Method: Solonist 100'	**Gauge Date:** 12/6/2016	**Measurement Ref:** TOC
	Gauge Time: 14:50:00	
Stick Up/Down (ft): -1"	**PID Headspace Reading:** NA	**Well Diameter (in):** 1

Purge Date: 6-Dec-16	**Purge Time:** 1503
Purge Method: Low Flow	**Field Technician:** KT/SS/JM

Well Volume

A. Well Depth (ft): 39.65	**D. Well Volume (ft):** 0.041	**Depth/Height of Top of PVC:** -0.1
B. Depth to Water (ft): 2.8	**E. Well Volume (gal) C*D):** 1.51085	**Pump Type:** PERI
C. Liquid Depth (ft) (A-B): 36.85	**F. Three Well Volumes (gal) (E3):** 4.53255	**Pump Intake Depth:** 39.0

Water Quality Parameters

Time (hrs)	pH (pH units)	Conductivity (mS/cm)	Turbidity (ntu)	DO (mg/L)	Temperature (°C)	ORP (mV)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1504	6.06	0.337	112	2.86	12.74	28	2.80	0.20	--
1507	6.13	0.347	136	1.89	12.78	41	2.80	0.20	0.60
1510	6.16	0.359	99.0	1.38	12.81	69	2.80	0.20	1.20
1513	6.16	0.361	73.6	1.23	12.80	81	2.80	0.20	1.80
1516	6.16	0.362	48.3	1.13	12.81	91	2.80	0.20	2.40
1519	6.16	0.363	29.7	1.06	12.85	97	2.80	0.20	3.00
1522	6.14	0.363	17.9	1.02	12.86	101	2.80	0.20	3.60
1525	6.16	0.362	9.5	0.98	12.85	95	2.80	0.20	4.20

Total Quantity of Water Removed (gal):	1.1095224	**Sampling Time:**	1525
Samplers:	KT/SS/JM	**Split Sample With:**	--
Sampling Date:	6-Dec-16	**Sample Type:**	GRAB

COMMENTS AND OBSERVATIONS: Cleared during purging; odorless

Attachment B

Data Usability Summary Reports

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
BIANCHI/WEISS GREENHOUSES, EAST PATCHOGUE, NEW YORK

Client: EA Engineering, Science & Technology, Inc., Syracuse, New York
SDG: H5958
Laboratory: Chemtech, Mountainside, New Jersey
Site: Bianchi/Weiss Greenhouses, East Patchogue, New York
Date: February 15, 2017

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	152209-PW-01	H5958-01	Water
1MS	152209-PW-01MS	H5958-01MS	Water
1MSD	152209-PW-01MSD	H5958-01MSD	Water

A Data Usability Summary Review was performed on the analytical data for one water sample collected on December 5, 2016 by EA Engineering at the Bianchi/Weiss Greenhouses site in East Patchogue, New York. The samples were analyzed under Environmental Protection Agency (USEPA) *Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater.*

Specific method references are as follows:

Analysis	*Method References*
Pesticides (Chlordane only)	USEPA Method 608

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-36A, Revision 0, July 2015: Pesticide Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Data Completeness
- Holding times and sample preservation
- Initial and continuing calibration summaries
- Method blank and field blank contamination
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- GC/ECD Instrument Performance Check

- Analytical Sequence Check
- Extraction Method Cleanup
- Pesticide Identification
- Compound Quantitation
- Field Duplicate sample precision

Overall Usability Issues:

There were no rejections of data.

Overall the data is acceptable for the intended purposes. There were no qualifications.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Pesticides

Holding Times

- All samples were extracted within 7 days for water samples and analyzed within 40 days for all samples.

Initial Calibration

- All %RSD criteria were met.

Continuing Calibration

- The continuing calibrations exhibited acceptable %D values.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD sample exhibited acceptable %R and RPD values.

Laboratory Control Samples

- The LCS samples exhibited acceptable %R values.

GC/ECD Instrument Performance Check

- All % breakdown and retention time (RT) criteria were met.

Analytical Sequence Check

- All criteria were met.

Extraction Method Cleanup

- All criteria were met.

Pesticide Identification

- All criteria were met.

Compound Quantitations

- All criteria were met.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 2/16/17

Nancy Weaver
Senior Chemist

Data Qualifiers

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.

U = The analyte was analyzed for, but was not detected above the sample reporting limit.

R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	12/05/16
Project:	2016 Bianchi Weiss Greenhouse	Date Received:	12/08/16
Client Sample ID:	152209-PW-01	SDG No.:	H5958
Lab Sample ID:	H5958-01	Matrix:	Water
Analytical Method:	E608	% Moisture:	100 Decanted:
Sample Wt/Vol:	550 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL021736.D	1	12/09/16 10:00	12/14/16 18:10	PB95164

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
57-74-9	Chlordane	0.321		0.0218	0.0455	0.0909	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	18.1		25 - 156		91%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.8		10 - 148		74%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

NW 2/15/17

Attachment C

Laboratory Data

CHEMTECH

ANALYTICAL RESULTS SUMMARY

GC SEMI-VOLATILES

PROJECT NAME : 2016 BIANCHI WEISS GREENHOUSE

EA ENGINEERING SCIENCE & TECHNOLOGY

6712 Brooklawn Parkway, Suite 104

Suite 104

East Syracuse, NY - 13211-2158

Phone No: 315-431-4610

ORDER ID : H5959

ATTENTION : Megan Miller

ACCREDITED IN ACCORDANCE WITH nelac

DoD ELAP

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: H5959 **Order ID:** H5959

Client: EA Engineering Science & Technology **Project ID:** 2016 Bianchi Weiss Greenhouse

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : 152209-PDI-PZ-02									
H5959-02	152209-PDI-PZ-02	Water	Chlordane	0.28		0.0124	0.0258	0.0515	ug/L
			Total Concentration:	**0.28**					
Client ID : 152209-TPMW-01									
H5959-03	152209-TPMW-01	Water	Chlordane	4.80	E	0.0122	0.0255	0.051	ug/L
			Total Concentration:	**4.80**					
Client ID : 152209-TPMW-01DL									
H5959-03DL	152209-TPMW-01DL	Water	Chlordane	4.70	D	0.0612	0.1276	0.255	ug/L
			Total Concentration:	**4.70**					
Client ID : 152209-PDI-PZ-01									
H5959-04	152209-PDI-PZ-01	Water	Chlordane	9.40	E	0.012	0.025	0.05	ug/L
			Total Concentration:	**9.40**					
Client ID : 152209-PDI-PZ-01DL									
H5959-04DL	152209-PDI-PZ-01DL	Water	Chlordane	8.60	D	0.12	0.25	0.5	ug/L
			Total Concentration:	**8.60**					
Client ID : 152209-WO-07									
H5959-05	152209-WO-07	Water	Chlordane	7.40	E	0.0121	0.0253	0.0505	ug/L
			Total Concentration:	**7.40**					
Client ID : 152209-WO-07DL									
H5959-05DL	152209-WO-07DL	Water	Chlordane	7.30	D	0.121	0.2525	0.505	ug/L
			Total Concentration:	**7.30**					
Client ID : 152209-WO-08									
H5959-06	152209-WO-08	Water	Chlordane	9.60	E	0.0122	0.0255	0.051	ug/L
			Total Concentration:	**9.60**					
Client ID : 152209-WO-08DL									
H5959-06DL	152209-WO-08DL	Water	Chlordane	8.90	D	0.122	0.2551	0.51	ug/L
			Total Concentration:	**8.90**					
Client ID : 152209-WO-09									
H5959-07	152209-WO-09	Water	Chlordane	6.20	E	0.012	0.025	0.05	ug/L
			Total Concentration:	**6.20**					

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: H5959 **Order ID:** H5959

Client: EA Engineering Science & Technology **Project ID:** 2016 Bianchi Weiss Greenhouse

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : 152209-WO-09DL									
H5959-07DL	152209-WO-09DL	Water	Chlordane	5.90	D	0.12	0.25	0.5	ug/L
			Total Concentration:	**5.90**					
Client ID : 152209-WO-10									
H5959-08	152209-WO-10	Water	Chlordane	4.40	E	0.0124	0.0258	0.0515	ug/L
			Total Concentration:	**4.40**					
Client ID : 152209-WO-10DL									
H5959-08DL	152209-WO-10DL	Water	Chlordane	4.60	D	0.0619	0.1289	0.258	ug/L
			Total Concentration:	**4.60**					
Client ID : 152209-MW33D									
H5959-10	152209-MW33D	Water	Chlordane	0.46		0.012	0.025	0.05	ug/L
			Total Concentration:	**0.46**					
Client ID : 152209-MW33S									
H5959-11	152209-MW33S	Water	Chlordane	9.20	E	0.0124	0.0258	0.0515	ug/L
			Total Concentration:	**9.20**					
Client ID : 152209-MW33SDL									
H5959-11DL	152209-MW33SDL	Water	Chlordane	9.20	D	0.124	0.2577	0.516	ug/L
			Total Concentration:	**9.20**					
Client ID : 152209-WO-33P									
H5959-12	152209-WO-33P	Water	Chlordane	2.10	E	0.0122	0.0255	0.051	ug/L
			Total Concentration:	**2.10**					
Client ID : 152209-WO-33PDL									
H5959-12DL	152209-WO-33PDL	Water	Chlordane	1.80	D	0.0612	0.1276	0.255	ug/L
			Total Concentration:	**1.80**					
Client ID : 152209-WO-19									
H5959-13	152209-WO-19	Water	Chlordane	7.90	E	0.0122	0.0255	0.051	ug/L
			Total Concentration:	**7.90**					
Client ID : 152209-WO-19DL									
H5959-13DL	152209-WO-19DL	Water	Chlordane	7.80	D	0.122	0.2551	0.51	ug/L
			Total Concentration:	**7.80**					

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: H5959 **Order ID:** H5959

Client: EA Engineering Science & Technology **Project ID:** 2016 Bianchi Weiss Greenhouse

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : 152209-WO-27									
H5959-14	152209-WO-27	Water	Chlordane	0.80		0.0124	0.0258	0.0515	ug/L
			Total Concentration:	**0.80**					
Client ID : 152209-WO-30									
H5959-16	152209-WO-30	Water	Chlordane	1.80	E	0.0122	0.0255	0.051	ug/L
			Total Concentration:	**1.80**					
Client ID : 152209-WO-30DL									
H5959-16DL	152209-WO-30DL	Water	Chlordane	1.90	D	0.0245	0.051	0.102	ug/L
			Total Concentration:	**1.90**					
Client ID : 152209-WO-31									
H5959-17	152209-WO-31	Water	Chlordane	0.76	P	0.0124	0.0258	0.0515	ug/L
			Total Concentration:	**0.76**					
Client ID : 152209-WO-28									
H5959-18	152209-WO-28	Water	Chlordane	2.20	E	0.0121	0.0253	0.0505	ug/L
			Total Concentration:	**2.20**					
Client ID : 152209-WO-28DL									
H5959-18DL	152209-WO-28DL	Water	Chlordane	2.00	D	0.0606	0.1263	0.252	ug/L
			Total Concentration:	**2.00**					
Client ID : 152209-FD-01									
H5959-19	152209-FD-01	Water	Chlordane	6.00	E	0.012	0.025	0.05	ug/L
			Total Concentration:	**6.00**					
Client ID : 152209-FD-01DL									
H5959-19DL	152209-FD-01DL	Water	Chlordane	5.30	D	0.12	0.25	0.5	ug/L
			Total Concentration:	**5.30**					
Client ID : 152209-FD-02									
H5959-20	152209-FD-02	Water	Chlordane	7.20	E	0.0121	0.0253	0.0505	ug/L
			Total Concentration:	**7.20**					
Client ID : 152209-FD-02DL									
H5959-20DL	152209-FD-02DL	Water	Chlordane	7.10	D	0.121	0.2525	0.505	ug/L
			Total Concentration:	**7.10**					

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: H5959 **Order ID:** H5959

Client: EA Engineering Science & Technology **Project ID:** 2016 Bianchi Weiss Greenhouse

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : 152209-FB-120516									
H5959-21	152209-FB-120516	Water	Chlordane	0.08		0.0122	0.0255	0.051	ug/L
			Total Concentration:	**0.08**					
Client ID : 152209-FB-120616									
H5959-22	152209-FB-120616	Water	Chlordane	0.13		0.0124	0.0258	0.0515	ug/L
			Total Concentration:	**0.13**					
Client ID : 152209-WO-26									
H5959-24	152209-WO-26	Water	Chlordane	0.24		0.0122	0.0255	0.051	ug/L
			Total Concentration:	**0.24**					

CHEMTECH

ANALYTICAL RESULTS SUMMARY

GC SEMI-VOLATILES

PROJECT NAME : 2016 BIANCHI WEISS GREENHOUSE

EA ENGINEERING SCIENCE & TECHNOLOGY

6712 Brooklawn Parkway, Suite 104

Suite 104

East Syracuse, NY - 13211-2158

Phone No: 315-431-4610

ORDER ID : H5958

ATTENTION : Megan Miller

ACCREDITED IN ACCORDANCE WITH nelac

DoD ELAP

Table Of Contents for H5958

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Cover Page

Order ID : H5958

Project ID : 2016 Bianchi Weiss Greenhouse

Client : EA Engineering Science & Technology

Lab Sample Number	Client Sample Number
H5958-01	152209-PW-01
H5958-02	H5958-01MS
H5958-03	H5958-01MSD

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : Mildred V Reyes

APPROVED Date: 12/21/2016

By Mildred V Reyes, QAQC Supervisor at 3:53 pm, Dec 21, 2016

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sample ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
152209-PW-01	H5958-01				608		

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIa

SAMPLE PREPARATION AND ANALYSIS SUMMARY SEMIVOLATILE (BNA) ANALYSES

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIc

SAMPLE PREPARATION AND ANALYSIS SUMMARY PESTICIDE/PCB ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
H5958-01	Water	12/05/16	12/08/16	12/09/16	12/14/16

* Details For Test :PESTICIDE Group1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY
MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
H5958-01	Water	608	3510C		

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

EA Engineering Science & Technology
Project Name: 2016 Bianchi Weiss Greenhouse
Project # N/A
Chemtech Project # H5958
Test Name: PESTICIDE Group1

A. Number of Samples and Date of Receipt:
3 Water samples were received on 12/08/2016.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: PESTICIDE Group1. This data package contains results for PESTICIDE Group1.

C. Analytical Techniques:
The analysis was performed on instrument ECD_L. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11.The analysis of PESTICIDE Group1s was based on method 608 and extraction was done based on method 3510C.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds.
The MSD {H5958-03MSD} recoveries met requirements.
The RPD recoveries met criteria.
The Blank Spike met requirements for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements.
The second column has % RSD more than 10 % with average but first column is passing, as per method no corrective action was required
The Continuous Calibration met the requirements except for Tetrachloro-m-xylene, Decachlorobiphenyl in second column but it is passing in first column in file id PL021724.D.
The Continuous Calibration met the requirements except for Tetrachloro-m-xylene in second column but it is passing in first column in PL021743.D.
All the associates samples were passing for the surrogate recoveries for this target compound.

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

E. Additional Comments:

The sample # 152209-PW-01 , 152209-PW-01MS and 152209-PW-01MSD were extracted with reduce weight volume due having very limited volume received .

.

The Chlordane compound is not a part of the spike mix list; therefore the matrix spike and Matrix spike dup form are not reported.

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature Mildred V Reyes

APPROVED

By Mildred V Reyes, QAQC Supervisor at 3:53 pm, Dec 21, 2016

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: H5958

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

1st Level QA Review Signature: KALPANA RAYTHATTHA **Date:** 12/21/2016

2nd Level QA Review Signature: Mildred V Reyes Date:

APPROVED
By Mildred V Reyes, QAQC Supervisor at 3:53 pm, Dec 21, 2016

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	H5958	**OrderDate:**	12/8/2016 3:29:40 PM
Client:	EA Engineering Science & Technology	**Project:**	2016 Bianchi Weiss Greenhouse
Contact:	Megan Miller	**Location:**	O51

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
H5958-01	**152209-PW-01**	**Water**			**12/05/16**			**12/08/16**
			PESTICIDE Group1	608		12/09/16	12/14/16	

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: H5958 **Order ID:** H5958

Client: EA Engineering Science & Technology **Project ID:** 2016 Bianchi Weiss Greenhouse

Sample ID	Client ID		Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : 152209-PW-01									
H5958-01	152209-PW-01	Water	Chlordane	0.32		0.0218	0.0455	0.0909	ug/L
			Total Concentration:	**0.32**					

SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	12/05/16
Project:	2016 Bianchi Weiss Greenhouse	Date Received:	12/08/16
Client Sample ID:	152209-PW-01	SDG No.:	H5958
Lab Sample ID:	H5958-01	Matrix:	Water
Analytical Method:	E608	% Moisture:	100 Decanted:
Sample Wt/Vol:	550 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL021736.D	1	12/09/16 10:00	12/14/16 18:10	PB95164

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
57-74-9	Chlordane	0.321		0.0218	0.0455	0.0909	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	18.1		25 - 156		91%	SPK: 20
2051-24-3	Decachlorobiphenyl	14.8		10 - 148		74%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

QC SUMMARY

Surrogate Summary

SDG No.: H5958

Client: EA Engineering Science & Technology

Analytical Method: 608 Pest

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PL021561.D	PIBLK-PL021561.D	Decachlorobiphenyl	1	20	20.06	100		10	192
		Tetrachloro-m-xylene	1	20	18.76	94		10	172
		Decachlorobiphenyl	2	20	20.28	101		10	192
		Tetrachloro-m-xylene	2	20	19.02	95		10	172
I.BLK-PL021723.D	PIBLK-PL021723.D	Tetrachloro-m-xylene	1	20	18.08	90		25	156
		Decachlorobiphenyl	1	20	16.19	81		10	148
		Tetrachloro-m-xylene	2	20	18.64	93		25	156
		Decachlorobiphenyl	2	20	13.59	68		10	148
PB95164BS	PB95164BS	Tetrachloro-m-xylene	1	20	17.78	89		25	156
		Decachlorobiphenyl	1	20	16.85	84		10	148
		Tetrachloro-m-xylene	2	20	17.93	90		25	156
		Decachlorobiphenyl	2	20	14.84	74		10	148
H5958-01	152209-PW-01	Tetrachloro-m-xylene	1	20	18.11	91		25	156
		Decachlorobiphenyl	1	20	14.84	74		10	148
		Tetrachloro-m-xylene	2	20	16.92	85		25	156
		Decachlorobiphenyl	2	20	13.05	65		10	148
H5958-02MS	152209-PW-01MS	Tetrachloro-m-xylene	1	20	18.62	93		25	156
		Decachlorobiphenyl	1	20	16	80		10	148
		Tetrachloro-m-xylene	2	20	17.61	88		25	156
		Decachlorobiphenyl	2	20	13.29	66		10	148
H5958-03MSD	152209-PW-01MSD	Tetrachloro-m-xylene	1	20	15.18	76		25	156
		Decachlorobiphenyl	1	20	15.57	78		10	148
		Tetrachloro-m-xylene	2	20	16.44	82		25	156
		Decachlorobiphenyl	2	20	13.54	68		10	148
PB95164BL	PB95164BL	Tetrachloro-m-xylene	1	20	16.39	82		25	156
		Decachlorobiphenyl	1	20	15.42	77		10	148
		Tetrachloro-m-xylene	2	20	16.43	82		25	156
		Decachlorobiphenyl	2	20	13.39	67		10	148
I.BLK-PL021741.D	PIBLK-PL021741.D	Tetrachloro-m-xylene	1	20	19.07	95		25	156
		Decachlorobiphenyl	1	20	17.62	88		10	148
		Tetrachloro-m-xylene	2	20	19.3	97		25	156
		Decachlorobiphenyl	2	20	16.07	80		10	148

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: H5958

Client: EA Engineering Science & Technology

Analytical Method: _____ **DataFile :**

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:												

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: H5958

Client: EA Engineering Science & Technology

Analytical Method: _____ **DataFile :**

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:												

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: H5958

Client: EA Engineering Science & Technology

Analytical Method: _____ **Datafile :**

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB95164BL

Lab Name: CHEMTECH Contract: EAEN05

Lab Code: CHEM Case No.: H5958 SAS No.: H5958 SDG NO.: H5958

Lab Sample ID: PB95164BL Lab File ID: PL021739.D

Matrix: (soil/water) Water Extraction: (Type) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 12/09/2016

Date Analyzed (1): 12/14/2016 Date Analyzed (2): 12/14/2016

Time Analyzed (1): 18:53 Time Analyzed (2): 18:53

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB95164BS	PB95164BS	PL021725.D	12/14/2016	12/14/2016
152209-PW-01	H5958-01	PL021736.D	12/14/2016	12/14/2016
152209-PW-01MS	H5958-02MS	PL021737.D	12/14/2016	12/14/2016
152209-PW-01MSD	H5958-03MSD	PL021738.D	12/14/2016	12/14/2016

COMMENTS:

QC SAMPLE DATA

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	
Project:	2016 Bianchi Weiss Greenhouse	Date Received:	
Client Sample ID:	PB95164BL	SDG No.:	H5958
Lab Sample ID:	PB95164BL	Matrix:	Water
Analytical Method:	E608	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL021739.D	1	12/09/16 10:00	12/14/16 18:53	PB95164

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
57-74-9	Chlordane	0.05	U	0.012	0.025	0.05	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	16.4		25 - 156		82%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.4		10 - 148		77%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	12/07/16
Project:	2016 Bianchi Weiss Greenhouse	Date Received:	12/07/16
Client Sample ID:	PIBLK-PL021561.D	SDG No.:	H5958
Lab Sample ID:	I.BLK-PL021561.D	Matrix:	Water
Analytical Method:	E608	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL021561.D	1		12/07/16	PL120716

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
57-74-9	Chlordane	0.5	U	0.1	0.1	0.5	ug/L
SURROGATES							
2051-24-3	Decachlorobiphenyl	20.1		10 - 192		100%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.8		10 - 172		94%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	12/14/16
Project:	2016 Bianchi Weiss Greenhouse	Date Received:	12/14/16
Client Sample ID:	PIBLK-PL021723.D	SDG No.:	H5958
Lab Sample ID:	I.BLK-PL021723.D	Matrix:	Water
Analytical Method:	E608	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL021723.D	1		12/14/16	PL121416

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
57-74-9	Chlordane	0.5	U	0.12	0.25	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	18.1		25 - 156		90%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.2		10 - 148		81%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	12/14/16
Project:	2016 Bianchi Weiss Greenhouse	Date Received:	12/14/16
Client Sample ID:	PIBLK-PL021741.D	SDG No.:	H5958
Lab Sample ID:	I.BLK-PL021741.D	Matrix:	Water
Analytical Method:	E608	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL021741.D	1		12/14/16	PL121416

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
57-74-9	Chlordane	0.5	U	0.12	0.25	0.5	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	19.1		25 - 156		95%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.6		10 - 148		88%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	
Project:	2016 Bianchi Weiss Greenhouse	Date Received:	
Client Sample ID:	PB95164BS	SDG No.:	H5958
Lab Sample ID:	PB95164BS	Matrix:	Water
Analytical Method:	E608	% Moisture:	100 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL021725.D	1	12/09/16 10:00	12/14/16 15:31	PB95164

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD LOQ / CRQL	Units
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.8		25 - 156	89%	SPK: 20
2051-24-3	Decachlorobiphenyl	16.8		10 - 148	84%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	12/05/16
Project:	2016 Bianchi Weiss Greenhouse	Date Received:	12/08/16
Client Sample ID:	152209-PW-01MS	SDG No.:	H5958
Lab Sample ID:	H5958-02MS	Matrix:	Water
Analytical Method:	E608	% Moisture:	100 Decanted:
Sample Wt/Vol:	540 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL021737.D	1	12/09/16 10:00	12/14/16 18:24	PB95164

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
57-74-9	Chlordane	0.531		0.0222	0.0463	0.0926	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	18.6		25 - 156		93%	SPK: 20
2051-24-3	Decachlorobiphenyl	16		10 - 148		80%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	12/05/16
Project:	2016 Bianchi Weiss Greenhouse	Date Received:	12/08/16
Client Sample ID:	152209-PW-01MSD	SDG No.:	H5958
Lab Sample ID:	H5958-03MSD	Matrix:	Water
Analytical Method:	E608	% Moisture:	100 Decanted:
Sample Wt/Vol:	540 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL021738.D	1	12/09/16 10:00	12/14/16 18:39	PB95164

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
57-74-9	Chlordane	0.696		0.0222	0.0463	0.0926	ug/L
SURROGATES							
877-09-8	Tetrachloro-m-xylene	15.2		25 - 156		76%	SPK: 20
2051-24-3	Decachlorobiphenyl	15.6		10 - 148		78%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: EAEN05

Lab Code: CHEM **Case No.:** H5958 **SAS No.:** H5958 **SDG NO.:** H5958

Instrument ID: ECD_L **Calibration Date(s):** 12/07/2016 12/07/2016

Calibration Times: 21:04 22:01

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PL021573.D RT 750 = PL021574.D

RT 500 = PL021575.D RT 250 = PL021576.D RT 050 = PL021577.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Chlordane-1	(1)	4.67	4.67	4.67	4.67	4.67	4.67	4.57	4.77
Chlordane-2	(2)	4.85	4.85	4.85	4.85	4.85	4.85	4.75	4.95
Chlordane-3	(3)	5.74	5.74	5.74	5.74	5.74	5.74	5.64	5.84
Chlordane-4	(4)	5.82	5.82	5.82	5.82	5.82	5.82	5.72	5.92
Chlordane-5	(5)	6.59	6.59	6.59	6.59	6.59	6.59	6.49	6.69
Decachlorobiphenyl		8.60	8.60	8.60	8.60	8.60	8.60	8.50	8.70
Tetrachloro-m-xylene		3.72	3.72	3.72	3.72	3.72	3.72	3.62	3.82

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: EAEN05

Lab Code: CHEM **Case No.:** H5958 **SAS No.:** H5958 **SDG NO.:** H5958

Instrument ID: ECD_L **Calibration Date(s):** 12/07/2016 12/07/2016

Calibration Times: 21:04 22:01

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PL021573.D RT 750 = PL021574.D

RT 500 = PL021575.D RT 250 = PL021576.D RT 050 = PL021577.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Chlordane-1	(1)	3.95	3.95	3.95	3.95	3.95	3.95	3.85	4.05
Chlordane-2	(2)	4.10	4.10	4.10	4.10	4.10	4.10	4.00	4.20
Chlordane-3	(3)	4.97	4.97	4.97	4.97	4.97	4.97	4.87	5.07
Chlordane-4	(4)	5.03	5.03	5.03	5.03	5.03	5.03	4.93	5.13
Chlordane-5	(5)	5.83	5.83	5.83	5.83	5.83	5.83	5.73	5.93
Decachlorobiphenyl		7.75	7.75	7.75	7.75	7.75	7.75	7.65	7.85
Tetrachloro-m-xylene		3.13	3.13	3.13	3.13	3.13	3.13	3.03	3.23

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: EAEN05

Lab Code: CHEM **Case No.:** H5958 **SAS No.:** H5958 **SDG NO.:** H5958

Instrument ID: ECD_L **Calibration Date(s):** 12/07/2016 12/07/2016

Calibration Times: 21:04 22:01

GC Column: ZB-MR1 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PL021573.D **CF 750 =** PL021574.D

CF 500 = PL021575.D **CF 250 =** PL021576.D **CF 050 =** PL021577.D

COMPOUND	CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Chlordane-1 (1)	44839900	44110000	45969500	45233400	42424400	44515400	3
Chlordane-2 (2)	50527900	49901600	52570500	51476600	50104600	50916200	2
Chlordane-3 (3)	160540000	155881000	163116000	166353000	162747000	161727000	2
Chlordane-4 (4)	187744000	183216000	192929000	193732000	198009000	191126000	3
Chlordane-5 (5)	37464200	36984500	39511300	40066300	40614000	38928100	4
Decachlorobiphenyl	79331000	79942400	86619800	90186500	101545000	87525000	10
Tetrachloro-m-xylene	101442000	100153000	104285000	101656000	102821000	102071000	2

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: EAEN05

Lab Code: CHEM **Case No.:** H5958 **SAS No.:** H5958 **SDG NO.:** H5958

Instrument ID: ECD_L **Calibration Date(s):** 12/07/2016 12/07/2016

Calibration Times: 21:04 22:01

GC Column: ZB-MR2 **ID:** 0.32 (mm)

LAB FILE ID: **CF 1000 =** PL021573.D **CF 750 =** PL021574.D

CF 500 = PL021575.D **CF 250 =** PL021576.D **CF 050 =** PL021577.D

COMPOUND	CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Chlordane-1 (1)	142540000	139584000	144046000	137881000	140279000	140866000	2
Chlordane-2 (2)	208591000	204096000	210805000	200982000	197093000	204314000	3
Chlordane-3 (3)	467654000	454729000	470337000	444442000	413765000	450185000	5
Chlordane-4 (4)	467061000	455289000	475600000	449468000	431261000	455736000	4
Chlordane-5 (5)	140962000	136909000	142792000	134554000	131480000	137340000	3
Decachlorobiphenyl	316757000	317093000	340097000	348694000	396618000	343852000	10
Tetrachloro-m-xylene	341952000	336760000	347803000	333733000	326390000	337328000	2

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: EAEN05

Lab Code: CHEM **Case No.:** H5958 **SAS No.:** H5958 **SDG NO.:** H5958

Instrument ID: ECD_L **Date(s) Analyzed:** 12/07/2016 12/07/2016

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Chlordane	1000	1	4.67	4.57	4.77	44839900
		2	4.85	4.75	4.95	50527900
		3	5.74	5.64	5.84	160540000
		4	5.82	5.72	5.92	187744000
		5	6.59	6.49	6.69	37464200
Chlordane	250	1	4.67	4.57	4.77	45233400
		2	4.85	4.75	4.95	51476600
		3	5.74	5.64	5.84	166353000
		4	5.82	5.72	5.92	193732000
		5	6.59	6.49	6.69	40066300
Chlordane	50	1	4.67	4.57	4.77	42424400
		2	4.85	4.75	4.95	50104600
		3	5.74	5.64	5.84	162747000
		4	5.82	5.72	5.92	198009000
		5	6.59	6.49	6.69	40614000
Chlordane	500	1	4.67	4.57	4.77	45969500
		2	4.85	4.75	4.95	52570500
		3	5.74	5.64	5.84	163116000
		4	5.82	5.72	5.92	192929000
		5	6.59	6.49	6.69	39511300
Chlordane	750	1	4.67	4.57	4.77	44110000
		2	4.85	4.75	4.95	49901600
		3	5.74	5.64	5.84	155881000
		4	5.82	5.72	5.92	183216000
		5	6.59	6.49	6.69	36984500

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INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: EAEN05

Lab Code: CHEM **Case No.:** H5958 **SAS No.:** H5958 **SDG NO.:** H5958

Instrument ID: ECD_L **Date(s) Analyzed:** 12/07/2016 12/07/2016

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Chlordane	1000	1	3.95	3.85	4.05	142540000
		2	4.10	4.00	4.20	208591000
		3	4.97	4.87	5.07	467654000
		4	5.03	4.93	5.13	467061000
		5	5.83	5.73	5.93	140962000
Chlordane	250	1	3.95	3.85	4.05	137881000
		2	4.10	4.00	4.20	200982000
		3	4.97	4.87	5.07	444442000
		4	5.03	4.93	5.13	449468000
		5	5.83	5.73	5.93	134554000
Chlordane	50	1	3.95	3.85	4.05	140279000
		2	4.10	4.00	4.20	197093000
		3	4.97	4.87	5.07	413765000
		4	5.03	4.93	5.13	431261000
		5	5.83	5.73	5.93	131480000
Chlordane	500	1	3.95	3.85	4.05	144046000
		2	4.10	4.00	4.20	210805000
		3	4.97	4.87	5.07	470337000
		4	5.03	4.93	5.13	475600000
		5	5.83	5.73	5.93	142792000
Chlordane	750	1	3.95	3.85	4.05	139584000
		2	4.10	4.00	4.20	204096000
		3	4.97	4.87	5.07	454729000
		4	5.03	4.93	5.13	455289000
		5	5.83	5.73	5.93	136909000

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CALIBRATION VERIFICATION SUMMARY

Contract: EAEN05

Lab Code: CHEM **Case No.:** H5958 **SAS No.:** H5958 **SDG NO.:** H5958

Continuing Calib Date: 12/14/2016 **Initial Calibration Date(s):** 12/07/2016 12/07/2016

Continuing Calib Time: 15:17 **Initial Calibration Time(s):** 18:55 19:52

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Chlordane-1	(1)	4.66	0.00	-0.10	0.10	-4.66
Chlordane-2	(2)	4.84	0.00	-0.10	0.10	-4.84
Chlordane-3	(3)	5.73	0.00	-0.10	0.10	-5.73
Chlordane-4	(4)	5.81	0.00	-0.10	0.10	-5.81
Chlordane-5	(5)	6.58	0.00	-0.10	0.10	-6.58
Tetrachloro-m-xylene		3.71	3.72	3.62	3.82	0.01
Decachlorobiphenyl		8.60	8.61	8.51	8.71	0.01

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: EAEN05

Lab Code: CHEM **Case No.:** H5958 **SAS No.:** H5958 **SDG NO.:** H5958

Continuing Calib Date: 12/14/2016 **Initial Calibration Date(s):** 12/07/2016 12/07/2016

Continuing Calib Time: 15:17 **Initial Calibration Time(s):** 18:55 19:52

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Chlordane-1 (1)	3.95	0.00	-0.10	0.10	-3.95
Chlordane-2 (2)	4.09	0.00	-0.10	0.10	-4.09
Chlordane-3 (3)	4.97	0.00	-0.10	0.10	-4.97
Chlordane-4 (4)	5.02	0.00	-0.10	0.10	-5.02
Chlordane-5 (5)	5.82	0.00	-0.10	0.10	-5.82
Tetrachloro-m-xylene	3.12	3.13	3.03	3.23	0.01
Decachlorobiphenyl	7.73	7.75	7.65	7.85	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: EAEN05

Lab Code: CHEM **Case No.:** H5958 **SAS No.:** H5958 **SDG NO.:** H5958

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 12/07/2016 12/07/2016

Client Sample No.: CCAL01 **Date Analyzed:** 12/14/2016

Lab Sample No.: PCHLORCCC500 **Data File :** PL021724.D **Time Analyzed:** 15:17

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Chlordane-1	4.658	-0.100	0.100	536.580	500.000	7.3
Chlordane-2	4.839	-0.100	0.100	556.170	500.000	11.2
Chlordane-3	5.733	-0.100	0.100	484.570	500.000	-3.1
Chlordane-4	5.808	-0.100	0.100	482.620	500.000	-3.5
Chlordane-5	6.579	-0.100	0.100	462.450	500.000	-7.5
Decachlorobiphenyl	8.596	8.505	8.705	47.120	50.000	-5.8
Tetrachloro-m-xylene	3.708	3.615	3.815	54.090	50.000	8.2

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: EAEN05

Lab Code: CHEM **Case No.:** H5958 **SAS No.:** H5958 **SDG NO.:** H5958

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/07/2016 12/07/2016

Client Sample No.: CCAL01 **Date Analyzed:** 12/14/2016

Lab Sample No.: PCHLORCCC500 **Data File :** PL021724.D **Time Analyzed:** 15:17

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Chlordane-1	3.946	-0.100	0.100	523.240	500.000	4.6
Chlordane-2	4.088	-0.100	0.100	522.000	500.000	4.4
Chlordane-3	4.965	-0.100	0.100	486.550	500.000	-2.7
Chlordane-4	5.019	-0.100	0.100	499.520	500.000	-0.1
Chlordane-5	5.824	-0.100	0.100	507.900	500.000	1.6
Decachlorobiphenyl	7.733	7.646	7.846	40.530	50.000	-18.9
Tetrachloro-m-xylene	3.120	3.025	3.225	61.670	50.000	23.3

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: EAEN05

Lab Code: CHEM **Case No.:** H5958 **SAS No.:** H5958 **SDG NO.:** H5958

Continuing Calib Date: 12/14/2016 **Initial Calibration Date(s):** 12/07/2016 12/07/2016

Continuing Calib Time: 19:50 **Initial Calibration Time(s):** 18:55 19:52

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Chlordane-1	(1)	4.66	0.00	-0.10	0.10	-4.66
Chlordane-2	(2)	4.84	0.00	-0.10	0.10	-4.84
Chlordane-3	(3)	5.73	0.00	-0.10	0.10	-5.73
Chlordane-4	(4)	5.81	0.00	-0.10	0.10	-5.81
Chlordane-5	(5)	6.58	0.00	-0.10	0.10	-6.58
Tetrachloro-m-xylene		3.71	3.72	3.62	3.82	0.01
Decachlorobiphenyl		8.59	8.61	8.51	8.71	0.02

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: EAEN05

Lab Code: CHEM **Case No.:** H5958 **SAS No.:** H5958 **SDG NO.:** H5958

Continuing Calib Date: 12/14/2016 **Initial Calibration Date(s):** 12/07/2016 12/07/2016

Continuing Calib Time: 19:50 **Initial Calibration Time(s):** 18:55 19:52

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Chlordane-1	(1)	3.94	0.00	-0.10	0.10	-3.94
Chlordane-2	(2)	4.09	0.00	-0.10	0.10	-4.09
Chlordane-3	(3)	4.96	0.00	-0.10	0.10	-4.96
Chlordane-4	(4)	5.02	0.00	-0.10	0.10	-5.02
Chlordane-5	(5)	5.82	0.00	-0.10	0.10	-5.82
Tetrachloro-m-xylene		3.12	3.13	3.03	3.23	0.01
Decachlorobiphenyl		7.73	7.75	7.65	7.85	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: EAEN05

Lab Code: CHEM **Case No.:** H5958 **SAS No.:** H5958 **SDG NO.:** H5958

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 12/07/2016 12/07/2016

Client Sample No.: CCAL02 **Date Analyzed:** 12/14/2016

Lab Sample No.: PCHLORCCC500 **Data File :** PL021743.D **Time Analyzed:** 19:50

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Chlordane-1	4.656	-0.100	0.100	561.680	500.000	12.3
Chlordane-2	4.837	-0.100	0.100	574.550	500.000	14.9
Chlordane-3	5.731	-0.100	0.100	513.160	500.000	2.6
Chlordane-4	5.806	-0.100	0.100	513.810	500.000	2.8
Chlordane-5	6.577	-0.100	0.100	484.000	500.000	-3.2
Decachlorobiphenyl	8.594	8.505	8.705	47.840	50.000	-4.3
Tetrachloro-m-xylene	3.706	3.615	3.815	55.870	50.000	11.7

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CALIBRATION VERIFICATION SUMMARY

Contract: EAEN05

Lab Code: CHEM **Case No.:** H5958 **SAS No.:** H5958 **SDG NO.:** H5958

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 12/07/2016 12/07/2016

Client Sample No.: CCAL02 **Date Analyzed:** 12/14/2016

Lab Sample No.: PCHLORCCC500 **Data File :** PL021743.D **Time Analyzed:** 19:50

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Chlordane-1	3.944	-0.100	0.100	556.720	500.000	11.3
Chlordane-2	4.087	-0.100	0.100	549.890	500.000	10.0
Chlordane-3	4.962	-0.100	0.100	555.550	500.000	11.1
Chlordane-4	5.018	-0.100	0.100	542.110	500.000	8.4
Chlordane-5	5.822	-0.100	0.100	540.840	500.000	8.2
Decachlorobiphenyl	7.729	7.646	7.846	44.290	50.000	-11.4
Tetrachloro-m-xylene	3.119	3.025	3.225	63.890	50.000	27.8

Analytical Sequence

Client: EA Engineering Science & Technology **SDG No.:** H5958

Project: 2016 Bianchi Weiss Greenhouse **Instrument ID:** ECD_L

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 12/07/2016 12/07/2016

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	12/07/2016	18:12	PL021561.D	8.61	3.72
PCHLORICC1000	PCHLORICC1000	12/07/2016	21:04	PL021573.D	8.60	3.72
PCHLORICC750	PCHLORICC750	12/07/2016	21:18	PL021574.D	8.60	3.72
PCHLORICC500	PCHLORICC500	12/07/2016	21:32	PL021575.D	8.60	3.72
PCHLORICC250	PCHLORICC250	12/07/2016	21:47	PL021576.D	8.60	3.72
PCHLORICC050	PCHLORICC050	12/07/2016	22:01	PL021577.D	8.60	3.72
I.BLK	I.BLK	12/14/2016	15:02	PL021723.D	8.60	3.71
PCHLORCCC500	PCHLORCCC500	12/14/2016	15:17	PL021724.D	8.60	3.71
PB95164BS	PB95164BS	12/14/2016	15:31	PL021725.D	8.60	3.71
152209-PW-01	H5958-01	12/14/2016	18:10	PL021736.D	8.60	3.71
152209-PW-01MS	H5958-02MS	12/14/2016	18:24	PL021737.D	8.59	3.71
152209-PW-01MSD	H5958-03MSD	12/14/2016	18:39	PL021738.D	8.60	3.71
PB95164BL	PB95164BL	12/14/2016	18:53	PL021739.D	8.60	3.71
I.BLK	I.BLK	12/14/2016	19:22	PL021741.D	8.59	3.71
PCHLORCCC500	PCHLORCCC500	12/14/2016	19:50	PL021743.D	8.59	3.71

Analytical Sequence

Client: EA Engineering Science & Technology **SDG No.:** H5958

Project: 2016 Bianchi Weiss Greenhouse **Instrument ID:** ECD_L

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 12/07/2016 12/07/2016

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	12/07/2016	18:12	PL021561.D	7.75	3.12
PCHLORICC1000	PCHLORICC1000	12/07/2016	21:04	PL021573.D	7.75	3.13
PCHLORICC750	PCHLORICC750	12/07/2016	21:18	PL021574.D	7.75	3.13
PCHLORICC500	PCHLORICC500	12/07/2016	21:32	PL021575.D	7.75	3.13
PCHLORICC250	PCHLORICC250	12/07/2016	21:47	PL021576.D	7.75	3.13
PCHLORICC050	PCHLORICC050	12/07/2016	22:01	PL021577.D	7.75	3.13
I.BLK	I.BLK	12/14/2016	15:02	PL021723.D	7.73	3.12
PCHLORCCC500	PCHLORCCC500	12/14/2016	15:17	PL021724.D	7.73	3.12
PB95164BS	PB95164BS	12/14/2016	15:31	PL021725.D	7.73	3.12
152209-PW-01	H5958-01	12/14/2016	18:10	PL021736.D	7.73	3.12
152209-PW-01MS	H5958-02MS	12/14/2016	18:24	PL021737.D	7.73	3.12
152209-PW-01MSD	H5958-03MSD	12/14/2016	18:39	PL021738.D	7.73	3.12
PB95164BL	PB95164BL	12/14/2016	18:53	PL021739.D	7.73	3.12
I.BLK	I.BLK	12/14/2016	19:22	PL021741.D	7.73	3.12
PCHLORCCC500	PCHLORCCC500	12/14/2016	19:50	PL021743.D	7.73	3.12

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
152209-PW-01

Contract: EAEN05

Lab Code: CHEM Case No.: H5958 SAS No.: H5958 SDG NO.: H5958

Lab Sample ID: H5958-01 Date(s) Analyzed: 12/14/2016 12/14/2016

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PL021736.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Chlordane	1	4.66	4.61	4.71	0.80		
	2	0.00	0.00	0.00	0.00		
	3	5.73	5.68	5.78	0.16		
COLUMN 1	4	5.81	5.76	5.86	0.17		
	5	6.58	6.53	6.63	0.15	0.321	
	1	3.95	3.90	4.00	0.73		
	2	0.00	0.00	0.00	0.00		
	3	4.96	4.91	5.01	0.11		
	4	5.02	4.97	5.07	0.25		
COLUMN 2	5	5.82	5.77	5.87	0.17	0.314	1.98

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IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
152209-PW-01MS

Contract: EAEN05

Lab Code: CHEM Case No.: H5958 SAS No.: H5958 SDG NO.: H5958

Lab Sample ID: H5958-02MS Date(s) Analyzed: 12/14/2016 12/14/2016

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PL021737.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Chlordane	1	4.66	4.61	4.71	1.12		
	2	4.84	4.79	4.89	0.46		
	3	5.73	5.68	5.78	0.32		
COLUMN 1	4	5.80	5.75	5.85	0.29		
	5	6.58	6.53	6.63	0.16	0.469	
	1	3.94	3.89	3.99	0.80		
	2	4.09	4.04	4.14	0.44		
	3	4.96	4.91	5.01	0.31		
	4	5.02	4.97	5.07	0.43		
COLUMN 2	5	5.82	5.77	5.87	0.68	0.531	12.32

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.
152209-PW-01MSD

Contract: EAEN05

Lab Code: CHEM Case No.: H5958 SAS No.: H5958 SDG NO.: H5958

Lab Sample ID: H5958-03MSD Date(s) Analyzed: 12/14/2016 12/14/2016

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

GC Column: (1): ZB-MR1 ID: 0.32 (mm) GC Column:(2): ZB-MR2 ID: 0.32 (mm)

Data file PL021738.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Chlordane	1	4.66	4.61	4.71	1.88		
	2	4.84	4.79	4.89	0.49		
	3	5.73	5.68	5.78	0.37		
COLUMN 1	4	5.80	5.75	5.85	0.52		
	5	6.58	6.53	6.63	0.22	0.696	
	1	3.95	3.90	4.00	0.91		
	2	4.09	4.04	4.14	0.45		
	3	4.96	4.91	5.01	0.35		
	4	5.02	4.97	5.07	0.51		
COLUMN 2	5	5.82	5.77	5.87	0.64	0.571	19.71

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. H5958
QUOTE NO. JC
COC Number 043489

6.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: EA ENGINEERING, PC
ADDRESS: 6712 BROOKLAWN PKWY, STE 104
CITY: SYRACUSE STATE: NY ZIP: 13211
ATTENTION: MEGAN MILLER
PHONE: 315 431 4610 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: BIANCHI - WEISS GREENHOUSE
PROJECT NO.: 14907.29 LOCATION: PATCHOGUE, NY
PROJECT MANAGER: MEGAN MILLER
e-mail: MMILLER@EAEST.COM
PHONE: 315-431-4610 FAX:

CLIENT BILLING INFORMATION

BILL TO: EA ACCTS. PAYABLE PO#: 14907.29
ADDRESS: NORTHEASTAP@EAEST.COM
CITY: NEWBURGH STATE: NY ZIP:
ATTENTION: MELANIE DINA PHONE:

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *
HARD COPY: _____ DAYS *
EDD: EA IQ TAT DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
* STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ LEVEL 1: Results only
☒ Others SEE BELOW
☐ LEVEL 2: Results + QC
☐ LEVEL 3: Results (plus results raw data) + QC
☐ LEVEL 4: Results + QC (all raw data)
☒ EDD Format: NYSDEC EQUIS

ANALYSIS

EPA Method 600 (608 Chlorda

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 E	2	3	4	5	6	7	8	9	COMMENTS
1. HS958	152209-PW-01	GW		X	12/5/16	1455	3	X						CAT B			MS/MSD HERE
2. LD	152209-SW-01	SW			12/5/16	1531	1							DELIVERABLES			*SURFACE WATER
3.	152209-MW-41	GW			12/6/16	1010											
4.	152209-PDI-PZ-02					1034											
5. HS001	152209-TPMW-01					1108								CAT A			
6.	152209-PDI-PZ-01					1130								DELIVERABLES			
7. LD	152209-WO-07					1214											
8.	152209-WO-08					1226											
9.	152209-WO-09					1350											
10.	152209-WO-10					1349											

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. STEPHEN SOLOMON	12/7/16 1300	1. UPS
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3. UPS	12-8-16 10:30	3. Chris

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant Cooler Temp. 5.2
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments: CAT B. FOR PW-01 & SW-01; CAT A FOR ALL OTHERS
Ice in Cooler?: yes

Page 1 of 3

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT
Shipment Complete: ☐ YES ☐ NO

Revision 8/2007

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. H5958
QUOTE NO.
COC Number 043487

6.1

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY:
ADDRESS: SAME
CITY: STATE: ZIP: A
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME:
PROJECT NO.: LOCATION:
PROJECT MANAGER: PAGE
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS: 1
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: DAYS *
HARD COPY: DAYS *
EDD: DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
* STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ LEVEL 1: Results only
☒ Others CAT A
☐ LEVEL 2: Results + QC
☐ LEVEL 3: Results (plus results raw data) + QC
☐ LEVEL 4: Results + QC (all raw data)
☒ EDD Format: NYSDEC EQuIS

ANALYSIS

1 EPA METHOD 608 (CHLORDANE) 2 3 4 5 6 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	152209 - MW33I	GW		X	12/6/16	1435	1	X									
2.	152209 - MW33D					1498											
3.	152209 - MW33S					1505											
4.	152209 - ~~MW33P~~ WO-33P					1525											
5.	152209 - WO-19				12/7/16	0801											
6.	152209 - WO-27				12/7/16	0853											
7.	152209 - WO-25					0901											
8.	152209 - WO-30					1002											
9.	152209 - WO-31					0954											
10.	152209 - WO-28					1131											

E

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Stephen Schoner 8PO	12/07/16 1300	1. UPS
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3. UPS	12-8-16 1030	3. Chris

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant Cooler Temp. 5.2
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments: Ice in Cooler?: YES

Page 2 of 3

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☐ YES ☐ NO

Revision 8/2007

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. H5958
QUOTE NO.
COC Number 043488

6.1

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY:
ADDRESS: SAME
CITY: STATE: ZIP:
ATTENTION:
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME:
PROJECT NO.: LOCATION:
PROJECT MANAGER: PAGE
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: DAYS *
HARD COPY: DAYS *
EDD: STANDARD DAYS *
PREAPPROVED TAT: ☐ YES ☐ NO
* STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ LEVEL 1: Results only
☒ Others CATA
☐ LEVEL 2: Results + QC
☐ LEVEL 3: Results (plus results raw data) + QC
☐ LEVEL 4: Results + QC (all raw data)
☒ EDD Format: NYSDEC EQUIS

ANALYSIS

1 EIA Method 6200 (Chlorides)
2
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CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	152209 - FD-01	GW		X	12/06/16	—	1	X									
2.	152209 - FD-02				12/06/16	—											
3.	152209 - FB-120516				12/05/16	1630											
4.	152209 - FB-120616				12/06/16	1630											
5.	152209 - FB-120716				12/07/16	1145											
6.	152209 - WO-26				12/07/16	1053											
7.																	
8.																	
9.																	
10.																	

E

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Stephen Soldner	12/07/16 1300	1. UPS
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3. UPS	12-8-16 1030	3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant Cooler Temp. 3.2
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:
Ice in Cooler?: Yes

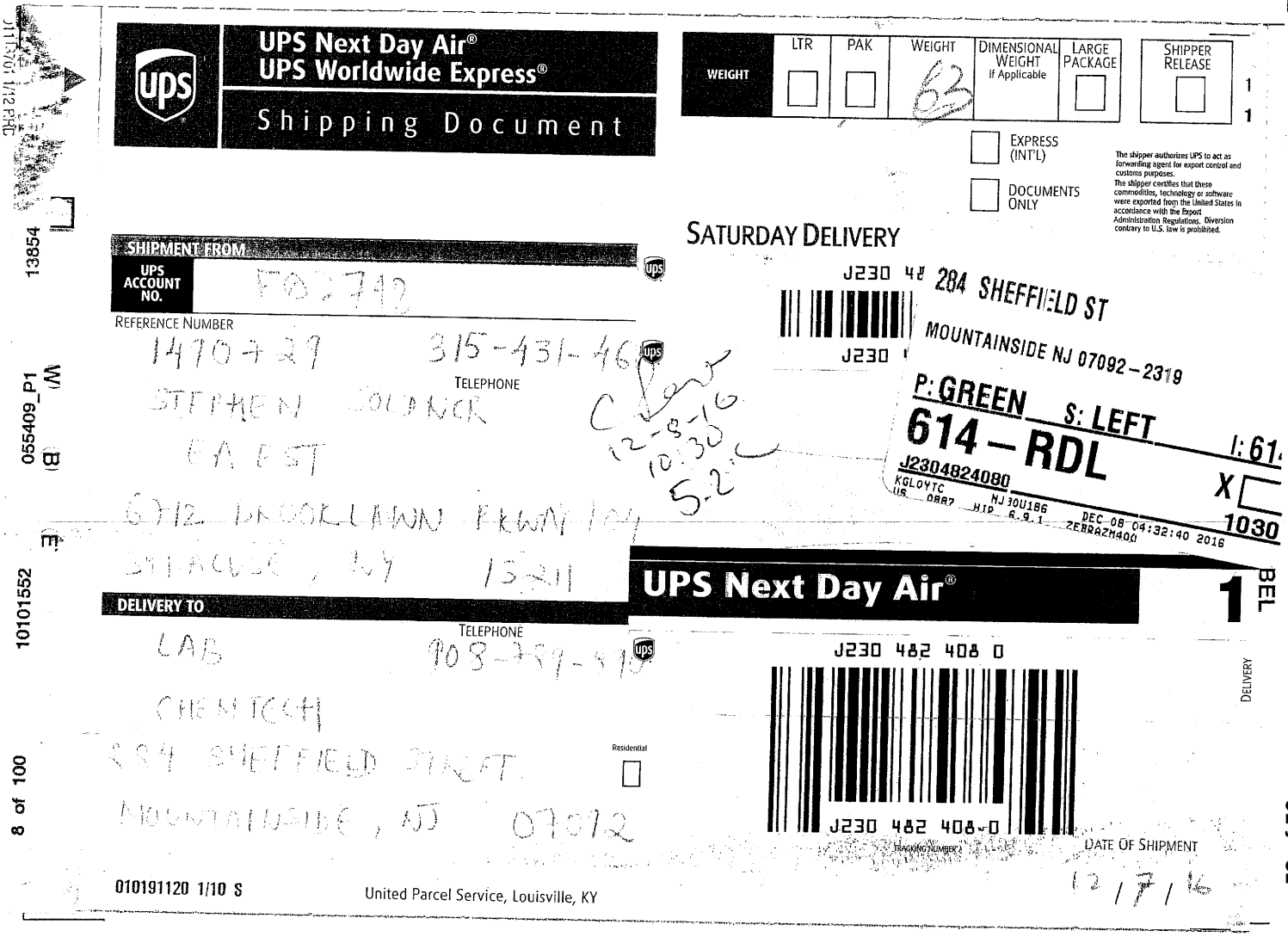
Page 3 of 3

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT CHEMTECH: ☐ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☐ YES ☐ NO

Revision 8/2007

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY



UPS Next Day Air®
UPS Worldwide Express®
Shipping Document

WEIGHT | LTR | PAK | WEIGHT 63 | DIMENSIONAL WEIGHT If Applicable | LARGE PACKAGE | SHIPPER RELEASE

EXPRESS (INT'L)
DOCUMENTS ONLY

The shipper authorizes UPS to act as forwarding agent for export control and customs purposes.
The shipper certifies that these commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

SATURDAY DELIVERY

SHIPMENT FROM
UPS ACCOUNT NO. F0:712
REFERENCE NUMBER
1470429
315-431-46
TELEPHONE
STEPHEN SOLONCK
EAST
6012 BROOKLAWN PKWY 104
SYRACUSE, NY 13211

J230 482 284 SHEFFIELD ST
MOUNTAINSIDE NJ 07092-2319
P:GREEN S:LEFT
614 – RDL
J2304824080
KGLOYTC US 0887 NJ 30U186 HIP 6.9.1 DEC 08 04:32:40 2016 2EBRAZM400
1030

DELIVERY TO
LAB
CHEMTECH
284 SHEFFIELD STREET
MOUNTAINSIDE, NJ 07092
TELEPHONE 908-789-8900
Residential

UPS Next Day Air®
J230 482 408 0
J230 482 408-0
TRACKING NUMBER
DATE OF SHIPMENT 12/7/16

010191120 1/10 S
United Parcel Service, Louisville, KY

DELIVERY

C 12-8-16 10:30 5.2

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055409_P1
10101552
8 of 100
53 of 56
H5958

6.2

UPS Next Day Air®
UPS Worldwide Express®
Shipping Document

WEIGHT	LTR	PAK	WEIGHT	DIMENSIONAL WEIGHT If Applicable	LARGE PACKAGE	SHIPPER RELEASE
	☐	☐	4g		☐	☐

1
1

☐ EXPRESS (INT'L)

☐ DOCUMENTS ONLY

SATURDAY DELIVERY ☐

The shipper authorizes UPS to act as forwarding agent for export control and customs purposes. The shipper certifies that these commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

SHIPMENT FROM

UPS ACCOUNT NO. F02741

REFERENCE NUMBER 14904 21

TELEPHONE 431 4 212

CST

6712 Brookl[illegible] Pkwy 104

Syracuse NY 13211

J230 482 407 1

J230 482 407 1

C Rosa
12-8-16
10:30
4.8

EXPORT EXPORT

WITHIN BRACKETS

DELIVERY TO

UPS Next Day Air®

1

TELEPHONE 908 7[illegible]

LAB

CHEMTECH

284 Sheffield St

[illegible] NJ 0[illegible]

Residential ☐

J230 482 407 1

J230 482 407 1

TRACKING NUMBER

DELIVERY

DATE OF SHIPMENT 12/7/16

010191120 1/10 S

United Parcel Service, Louisville, KY

6.2

01113701 1/12 RRD

13853

055408_P1

10101552

9 of 100

UPS Next Day Air®
UPS Worldwide Express®
Shipping Document

WEIGHT	LTR	PAK	WEIGHT	DIMENSIONAL WEIGHT If Applicable	LARGE PACKAGE	SHIPPER RELEASE
	☐	☐	4½		☐	☐

1

☐ EXPRESS (INT'L)

☐ DOCUMENTS ONLY

☐

SATURDAY DELIVERY

The shipper authorizes UPS to act as forwarding agent for export control and customs purposes.
The shipper certifies that these commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

J230 482 409 9

J230 482 409 9

EXPORT

SHIPMENT FROM

UPS ACCOUNT NO. [illegible]

REFERENCE NUMBER

[illegible]

TELEPHONE

[illegible]

Clara
12-8-16
10:30

DELIVERY TO

TELEPHONE

[illegible]

Residential ☐

UPS Next Day Air®

1

J230 482 409 9

J230 482 409 9

TRACKING NUMBER

DATE OF SHIPMENT

12/7/16

DELIVERY

55 of 56

010191120 1/10 S

United Parcel Service, Louisville, KY

H5958

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	EP-W-14-030
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Florida	E87935
Maine	2012025
Maryland	296
New Hampshire	255413
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-13-00380
Texas	T104704488-13-5