

Independent Compliance Sampling of Process Wastewater at Vermont's Significant Industrial Users



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1. Introduction

Under the National Pollutant Discharge Elimination System (NPDES), the Environmental Protection Agency (EPA) administers a national pretreatment program for industrial facilities that discharge process wastewater to publicly owned treatment works (POTW). The objectives of the national pretreatment program are to:

- Prevent the introduction of pollutants into a POTW that will interfere with its operation, including interference with its use or disposal of municipal sludge,
- Prevent the introduction of pollutants into a POTW that will pass through the treatment works or otherwise be incompatible with it, and
- Improve opportunities to recycle and reclaim municipal and industrial wastewaters and sludges.

In 1982, the EPA delegated authority to the State of Vermont to administer the NPDES industrial user pretreatment program in Vermont. The State has assumed direct responsibility under 403.10 for implementing the pretreatment program.

Facilities that discharge process wastewater to POTWs are classified as Significant Industrial Users (SIUs). These facilities are required to obtain coverage under a Pretreatment Discharge Permit if they:

- Discharge an average of 25,000 gpd or more of process wastewater;
- Contribute 5% or more of the POTW's design dry weather hydraulic capacity;
- Contribute 5% or more of the POTW's design organic (i.e., BOD) capacity; or
- Have "reasonable potential" to adversely affect the POTW's operation or violate pretreatment standards or requirements.

Stone Environmental, Inc. (Stone) and Laboratory Excellence completed annual independent compliance sampling at 24 of the approximately 32 SIUs within Vermont. Sampling occurred from June through early October 2021. Each of the sampled SIUs is permitted to discharge process wastewater to a POTW (or in certain cases, multiple POTWs) in conformance with the requirements of their state-issued pretreatment permit. The pretreatment permits specify discharge limitations, monitoring and reporting requirements, special conditions, and prohibited discharges, among other provisions. The compliance sampling schedule, sampling methods, and analytical results are summarized in this report.

2. Sampling and Analytical Methods

2.1. Sample Collection

Prior to initiating sample collection, Stone and Laboratory Excellence developed a Quality Assurance Project Plan (QAPP) and individual facility sampling plans in coordination with the Vermont Department of Environmental Conservation (VT DEC). The project QAPP and sampling plans outlined the sampling methods, analytical methods, and quality assurance and quality control (QA/QC) procedures to be followed for annual sampling on a program and facility basis. Sampling requirements varied by facility, but were generally similar across facilities of the same type (e.g., similar sampling requirements at all breweries or metal finishing facilities). Sampling was completed in accordance with each facility's permit at the time of sampling. Sampling plans were updated with photographs and additional details following sampling events. Sample analysis was completed by Endyne Laboratories (Endyne), a National Environmental Laboratory Accreditation Program (NELAP) accredited lab.

2.1.1. Sampling Schedule

Sampling events occurred from June 28, 2022 through October 3, 2022. Scheduling was based on facility location and facility personnel availability. Table 1 summarizes the facilities sampled, associated permit numbers, sampling dates, effluent characteristics assessed, and where QC samples were collected. Facilities are listed twice if resampling was required.

Table 1: Facility sampling summary

Facility	Permit Number	Date(s)	Effluent Characteristics ^{1, 2}	QC Sample Collected
Agri-Mark – Middlebury	3-0401	7/12/2022 – 7/14/2022	Oil & Grease, BOD ₅ , TSS, TP, pH, Flow	
Agri-Mark – Middlebury	3-0401	9/16/2022	Oil & Grease (redo)	
Alchemist – Stowe	3-1557	9/7/2022	BOD ₅ , TSS, TP, pH, Flow	Yes
Alchemist – Waterbury	3-1553	7/12/2022 - 7/14/2022	BOD ₅ , pH, Flow	
Ben & Jerry's – Waterbury	3-0404	7/7/2022	BOD ₅ , TSS, TP, pH, Flow	
Ben and Jerry's – St Albans	3-1371	9/27/2022	Oil & Grease, BOD ₅ , Soluble BOD, TP, pH, Flow	
Commonwealth Dairy	3-1530	8/25/2022 – 8/26/2022	Oil & Grease, BOD ₅ , TSS, Flow	
Drews	3-1561	8/9/2022 – 8/10/2022	Oil & Grease, BOD ₅ , pH, Flow	
Edlund	3-1326	6/28/2022	Total Metals, Cyanide, TTO, pH, Flow	
Edlund	3-1326	7/26/2022	TTO (redo)	
Fiddlehead Brewery	3-1562	9/21/2022 - 9/22/2022	BOD ₅ , TSS, TAN, TKN, TP, pH, Flow	Yes
Franklin Foods	3-1055	9/7/2022	Oil & Grease, BOD ₅ , TP, pH, Flow	Yes
G.S. Precision Coating	3-1490	8/16/2022 – 8/17/2022	Total Metals, Cyanide, TTO, pH, Flow	
General Electric – Columbian Ave	3-0306	8/4/2022 – 8/5/2022	Total Metals, Cyanide, TTO, pH, Flow	
General Electric – Windcrest	3-1270	8/2/2022 – 8/3/2022	Total Metals, Cyanide, TTO, pH, Flow	Yes

Facility	Permit Number	Date(s)	Effluent Characteristics ^{1, 2}	QC Sample Collected
Ave				
Goodrich Corp Fuel Utility Systems	3-0337	7/18/2022	Total Metals, Cyanide, TTO, pH, Flow	
Lost Nation Brewery	3-1555	10/6/2022	BOD ₅ , TSS, pH, Flow	
Magic Hat (Zero Gravity)	3-1434	7/5/2022 - 7/6/2022	BOD ₅ , TP, pH, Flow	
Otter Creek Brewery	3-1410	6/28/2022 – 6/29/2022	BOD, pH, Flow	
Plumrose	3-0399	8/1/2022 – 8/2/2022	BOD ₅ , pH, Oil & Grease, Flow	Yes
Rock Art Brewery	3-1497	8/17/2022	BOD ₅ , TSS, TP, pH, Flow	
St Albans Creamery, LLC	3-1274	7/7/2022	BOD ₅ , TSS, TP, pH, Flow	
Trapp Brewing	3-1548	8/2/2022	BOD ₅ , TP, pH, Flow	
Vishay	3-1485	8/30/2022	TTO, pH, Flow	
VT Hard Cider	3-1546	8/19/2022	pH, BOD-5day, TSS, Flow	
VT Precision Tools	3-1501	7/26/2022	Total Metals, Cyanide, TTO, pH, Flow	

¹ BOD= Biochemical Oxygen Demand; BOD₅=Five-Day Biochemical Oxygen Demand; TSS=Total Suspended Solids; TP=Total Phosphorus; TTO=Total Toxic Organics; TAN=Total Ammonia-Nitrogen; TKN=Total Kjeldahl Nitrogen

²Total Toxic Organics (TTO) includes analyses for Pesticides and Polychlorinated Biphenyls (PCBs), Volatile Organic Compounds (VOCs), and Soluble Volatile Organic Compounds (SVOC)

2.1.2. Sampling Methods

Sampling was completed in accordance with permit requirements, sampling plans, and the project QAPP with exceptions noted as needed in Section 3 (Results). Three types of samples were collected based on permit requirements: grab sample, flow-proportioned sample, and manually flow-proportioned sample. Table 2, at the end of this section, details the sampling methodology for each facility, including the type of samples collected and effluent testing characteristics. Sampling events are described in detail in each monthly report provided in [Appendix A](#). Samplers recorded sample collection date and time, sampling methodology, equipment used, and total daily effluent flow on paper or electronic field forms. All data recorded on paper field forms were transcribed into electronic field forms as soon as possible. Electronic copies of sample collection data were submitted to the VT DEC along with this report.

Whenever possible, preference was given to using facility flow meters connected to the facility's automated sampler. Flow-proportioned samples were then collected using an autosampler programmed to collect sample aliquots into pre-cleaned carboys at a specified flow interval measured by the flow meter. When facility flow meters and autosamplers were used to collect flow-proportioned samples, samplers confirmed the sampling location, adhered to permit requirements, inspected the autosampler equipment, reviewed and reset the autosampler program as needed, used a clean carboy for collecting the sample, and confirmed refrigeration requirements were met.

At some facilities, sampling personnel deployed a separate autosampler to collect a manually flow-proportioned sample. This often occurred if permission was not granted to use a facility autosampler or a more representative sample could be collected using a separate autosampler. Facilities where manually flow-proportioned samples were collected are identified in Table 2. In this scenario, the time between sample aliquots was constant. Approximately 100 to 200 mL sample aliquots were collected into 500 mL or 1-L polyethylene bottles every 15 minutes for a total of four aliquots per hourly sample bottle. Variations from the target sample aliquot volumes were noted in field forms. At the end of sample collection, the volume of each hourly sample used to create the composite was calculated using the ratio of the volume represented by the individual sample and the total volume during the sampling period (Equation 1). Hourly flow measurements

were obtained using time lapse cameras focused on the facility flow meter or directly from facility flow meter records. The method used to obtain hourly flow records was recorded in sample collection notes.

$$V_{sample} = Q_i \left(\frac{V_{total}}{Q_{total}} \right) \quad \text{Equation 1}$$

Where:

V_{sample} = composite volume decanted from discrete hourly sample bottle

Q_i = hourly flow represented by the discrete sample bottle

Q_{total} = the total flow for the sampling period

V_{total} = total required sample volume (approx. 4 – 12 L)

Sample aliquot volumes (i.e., V_{sample}) from each hourly polyethylene bottle were measured using a pre-cleaned 500 ml or 1-L plastic graduated cylinder to create the manually flow-proportioned composite sample. Sample aliquot volumes were recorded in field sample collection forms. The contents of the graduated cylinder were composited in a pre-cleaned 14-L churn splitter. The target required sample volume (i.e., V_{total}) was set to the greater of either the minimum volume needed for sample analysis or the sufficient volume for operating the churn splitter. The composite sample was thoroughly mixed using the churn splitter, then poured into the appropriate pre-labeled sample container(s) provided by Endyne.

Grab sample collection is the most representative way to sample for specific effluent characteristics such as oil & grease. Grab samples were collected directly into sample containers provided by Endyne. Grab sample bottles were filled in accordance with the method sampling procedures (e.g., fill so no air bubbles for volatile organic compounds [VOCs]). If a preservative had been added (e.g., Total Ammonia-Nitrogen [TAN] samples), the sampler shook the capped bottle vigorously for one minute. Typically, grab samples are not composited. However, the permit requirements for Ben & Jerry's St Albans require the grab samples collected from each tank discharged over the 24-hour sampling period are composited. Permits for other facilities require collecting a batch grab sample, or composite of grab samples at the beginning, middle, and end. All variations from the three main sampling categories are identified with footnotes in Table 2.

In addition to wastewater samples collected for analysis, pH measurements were taken at each facility. A cleaned and calibrated pH meter was used to measure the pH at the sample location over a period of less than 15 minutes. Measurements were not taken in the composite jugs or laboratory-provided sample containers to minimize the potential for contamination. The measured pH of the wastewater stream was recorded on the laboratory COC and/or sample form.

Table 2. Sampling methodology by facility

Facility	Biochemical Oxygen Demand, 5-Day (BOD ₅)	Soluble BOD	Total Suspended Solids (TSS)	Total Ammonia-Nitrogen (TAN)	Total Kjeldahl Nitrogen (TKN)	Total Phosphorous (TP)	Total Metals	Cyanide	Total Toxic Organics (TTO)	Oil & Grease	pH
Agri-Mark – Middlebury	Composite ¹		Composite ¹			Composite ¹					Grab
Alchemist – Stowe	Composite ³		Composite ³								Grab
Alchemist – Waterbury	Composite ¹										Grab
Ben & Jerry's – St Albans	Composite ⁴	Composite ⁴								Grab	Grab
Ben & Jerrys – Waterbury	Composite ¹		Composite ¹			Composite ¹					Grab
Commonwealth Dairy	Composite ³		Composite ³							Grab	Grab
Drews, LLC	Composite ¹									Grab	Grab
Edlund Company							Composite ¹	Grab	Grab		Grab
Fiddlehead Brewing	Composite ¹		Composite ¹	Grab	Composite ¹	Composite ¹					Grab
Franklin Foods Inc.	Composite ¹					Composite ¹				Grab	Grab
G.S. Precision Coating, Inc.							Composite ¹	Grab	Grab		Grab
General Electric – Columbian Ave							Composite ¹	Grab	Grab		Grab
General Electric – Windcrest Road							Composite ¹	Grab	Grab		Grab
Goodrich Corp Fuel Utility Systems							Composite ¹	Grab	Grab		Grab
Lost Nation Brewery	Composite ¹		Composite ¹								Grab
Magic Hat Brewing	Composite ¹					Composite ¹					Grab
Otter Creek Brewing	Composite ¹										Grab
Plumrose USA	Composite ²									Grab	Grab
Rock Art Brewery LLC	Grab ⁵		Grab ⁵			Grab ⁵					Grab ⁵
St Albans Creamery, LLC	Composite ¹		Composite ¹			Composite ¹					Grab
Trapp Lager Brewery	Composite ³					Composite ³					Grab
Vishay Tansitor									Grab		Grab
VT Hard Cider – Exchange St.	Composite ¹		Composite ¹								Grab
VT Precision Tools							Grab		Grab		Grab

¹ Flow-proportioned sample collected using facility autosampler over the course of the day's discharge during operating hours and sampling duration specified in the SIU's sampling plan and on field forms.

² Manually flow-proportioned sample.

³ Flow-proportioned sample using facility time-paced autosampler for facility with consistent (i.e. within 10%) flow.

⁴ Composite sample consisting of grab samples taken from each tank discharged during 24-hour period.

⁵ Batch discharge composite sample. A grab sample of equal volume was collected at the beginning, middle, and end of the batch discharge. Samples were combined into a single sample for analysis.

2.1.3. Sample Collection Documentation

Sampling personnel recorded the information listed below on paper field forms or electronic field forms created using Esri Survey 123 at the time of sample collection. Sample collection documentation was reviewed as soon as possible following sampling collection and missing information was obtained or filled in as needed.

Information and data collected included:

- Sampling data;
- Facility information including name, address, permit number, access details, and sampling location;
- Sampler name;
- Equipment type and model;
- Sample collection method and associated details (i.e. sampling interval in terms of flow volume or time, collection time, autosampler programming, and/or total discharge volume);
- Effluent discharge volume; and
- Photos of sampling location and equipment

2.1.4. Sample Containers, Storage, and Shipping

Samples were collected into plastic or glass bottles depending on the analyte. All sample containers were prepared with necessary preservatives and provided by Endyne. All samples were labeled with project name, sampler identification, and sample date. Samples were transported to Endyne in coolers with wet ice, either by sampling personnel or a courier service. Samples were delivered to Endyne's Williston or Lebanon facility. A Chain of Custody form was completed by the sampler and accompanied every batch of samples delivered to the laboratory. Once the samples are accepted by the laboratory, they were subject to Endyne's internal tracking system. It was observed that on some occasions the receiving temperature measured and recorded by Endyne was great than 6°C or less than 0°C; however, all samples were stored in coolers with wet ice and none were frozen. It is suspected that higher temperatures were due to insufficient cooling time between sample collection and sample delivery (e.g., samples delivered to the lab within 3 hours of collection) and that low temperatures were due to the methods used for measuring temperature by the lab (point measurement of on one bottle).

2.1.5. Quality Control and Replicate Sample Collection

In addition to equipment maintenance and calibration procedures, QC samples were collected and analyzed to check sample collection techniques. A total of 16 QC samples were collected, representing approximately 14% of the total program sample load. For composite samples, field replicates were collected by setting up one autosampler and duplicating the sample compositing process to create two field replicates. For grab samples, field replicate collection involved collecting two duplicate grab samples using the same sample collection methods. Field replicate samples were collected for Total Phosphorous (TP) and Total Suspended Solids (TSS) analysis during the Alchemist – Stowe sampling event on September 7, 2022, for Total Ammonia-Nitrogen (TAN) analysis and pH measurement during the Fiddlehead Brewing sampling event on September 22, 2022, for Oil & Grease analysis during the Franklin Foods sampling event on September 7, 2022, and for Cyanide, Total Metals, and Total Toxic Organics (TTO) analysis during the G.E. Windcrest Road sampling event on August 3, 2022.

Trip blanks were only collected for Volatile Organic Compound (VOC) samples. Trip blanks were prepared by Endyne and consisted of an aliquot of analyte-free water or solvent brought to the field in a sealed container and exposed to the same surrounding environment as the collected samples. The trip or field blank remained sealed and was returned to Endyne for analysis alongside field samples.

Equipment blanks were run to check the cleanliness of non-facility provided autosamplers and equipment. To collect an equipment blank, analyte-free water was run through the autosampler tubing and into sample bottles prior to the start of sample collection. Equipment blanks were transported along with field samples. One set of equipment blanks was run for the Stone autosampler used to collect TP and TSS samples prior to the Fiddlehead Brewing sampling event to check that the cleaning procedures followed for that piece of equipment were sufficient. For all other facilities, the facility autosampler was used.

2.2. Analytical Methods

Samples were analyzed by Endyne using EPA-approved methods. The analytical method used for each parameter is identified in Table 3. Dioxin analysis for TTO samples was subcontracted to Alpha Analytical and Pace Laboratories. Analytical reports, including additional method and analysis qualifier information, which are provided in [Appendix B](#).

Table 3. Summary of sample analysis methods

Parameter	Method	Volume Required	Container Type ¹	Preservation	Holding Time
BOD, 5-Day (BOD ₅)	SM 5210B, SM210B(16)	1000 ml	P,G	0-6°C	48 hours
Soluble Biological Oxygen Demand (BOD) ²	SM 5210B	1000 ml	P,G	0-6°C	48 hours
Total Suspended Solids (TSS)	SM20 2540D, SM2540D-15	1000 ml	P,G	0-6°C	7 days
Total Ammonia-Nitrogen (TAN)	EPA 350.1	400 ml	P,G	0-6°C, H ₂ SO ₄ to pH <2	28 days
Total Kjeldahl Nitrogen (TKN)	EPA 351.2	400 ml	P,G	0-6°C, H ₂ SO ₄ to pH <2	28 days
Total Phosphorous (TP)	EPA 365.1	50 ml	P,G	0-6°C	48 hours
Cyanide	EPA 335.4	250 ml	P,G	0-6°C, Na ₂ S ₂ O ₃ , NaOH pH >12	14 days
Pesticides	EPA 608.3	2-1000 ml	Amber G	0-6°C, pH between 5-9	7 days/40 days
Total Metals	EPA 200.8	100 ml	P,G	HNO ₃ to pH <2	6 mos/Hg 28 days
Poly-Chlorinated Biphenyls (PCBs)	EPA 608.3	2-1000 ml	Amber G	0-6°C, pH between 5-9	1 year/1 year
Volatile Organic Compounds (VOCs)	EPA 624.1, EPA 8260C	2-40 ml vials	G, No Air Bubbles	0-6°C, HCl to pH <2	14 days
Semi-Volatile Organic Compounds (SVOCs) ³	EPA 625.1	2-1000 ml	Amber G	0-6°C, pH between 5-9	7 days
Oil and Grease	EPA 1664A	2-1000 ml	G	0-4°C, H ₂ SO ₄ to pH <2	28 days
pH ⁴	Stone SOP-5.107	NA	NA	NA	NA

¹ P=plastics; G=glass

² Analysis performed on same sample as BOD₅

³ TCDD analysis completed following EPA method 613

⁴ pH measured in the field following standard pH measurement methods

2.3. Data Processing

Analytical data was summarized by facility type. Daily loads were calculated by multiplying the total effluent discharge recorded over the sampling period by the measured concentration of a given parameter. If provided,

calculated daily loads were compared to the maximum daily loads in a given facility's permit. The measured pH was compared to the pH range identified in the facility permit. Data summaries and calculations were QC checked by personnel other than the data processor.

3. Results

3.1. Sampling Plans

Facility specific sampling plans drafted prior to sampling collection were updated following sampling in 2022 to include photographs of sampling equipment and facility specific details for facilitating collection of representative samples. Final sampling plans were provided to VT DEC.

3.2. Monthly Reports

Monthly reports including sample collection details, challenges encountered during sample collection, and photographs of sampling events are provided in [Appendix A](#).

3.3. Sample Collection and Analytical Results

Analytical results are presented and summarized in Tables 4, 5, and 6 by facility type. Sample collection and analytical analysis exceptions are noted in the footnotes. Dashes indicate that samples and analysis were not required for that parameter for a given facility, unless further explained by a footnote. When facilities were resampled due to sampling errors during the first event only the results from the second successful sampling event are included in the analytical results tables.

Sampling results for breweries and cider processing facilities are summarized in Table 4. All measured pH values and total daily flow volumes fell within the ranges listed on respective SIU permits. Load calculations are provided for comparison to daily maximum loads listed in facility permits. Daily loads calculated from the field and analytical data fell below the daily maximum loads listed in facility permits for all facilities in Table 4. The relative percent difference between the actual field sample and field replicates was less than 30% for all quality control samples collected at brewery and cider processing facilities. Additionally, the equipment blank results for TP and TSS were below the reporting limit, indicating that the equipment cleaning procedure followed between sampling events was adequate.

Sampling results for dairies and food processing facilities are summarized in Table 5. All analytical results and subsequent load estimates fell below the permit-listed requirements for the given parameters at the time of sampling. The total daily flow was higher than listed in permit requirements for one of the ten dairy and food processing facilities sampled. For these facilities, a field replicate sample was collected for oil and grease. The relative percent difference between the field sample (5.3 mg/L) and field replicate (2.8 mg/L) was 62% (>30%). It is anticipated that this variation is largely due to the inherent variability and difficulty in evenly mixing effluent water for oil and grease sample collection.

Sample results for metal finishing and other industrial facilities requiring pH, Total Metals, Cyanide, and TTO analysis are provided in Table 6. Analytical results are shown as concentrations only since daily maximum and monthly average values listed in these facilities' permits are provided as concentrations. The field replicate Cyanide result was 0.017 mg/L, while Cyanide was not detected above the reporting limit for the field sample. The relative percent difference between field samples and field replicates collected for total metals analysis was less than 10% for all metal analyses. The field replicate TTO sample did not include a

VOC sample, so cannot be accurately compared to the field sample. All pH measurement, Cyanide, Total Metals, and TTO results fell below permit-listed requirements.

Table 4. pH Measurements, analytical results, measured daily discharge, and estimated load for breweries and cider facilities

Location	pH	BOD-5day (mg/L)	TP (mg/L)	TSS (mg/L)	TAN (mg/L)	TKN (mg/L)	Total Flow (gal)	BOD-5Day Load (lbs/day)	TP Load (lbs/day)	TSS Load (lbs/day)	TAN Load (lbs/day)	TKN (lbs/day)
Alchemist – Stowe	7.34	<400 ^E	1.4	44	-	-	1,092	1.8 ^E	0.01	0.40	-	-
Alchemist – Stowe ^C	-	<400 ^E	1.4	33	-	-	1,092	1.8 ^E	0.01	0.30	-	-
Alchemist – Waterbury	6.58	1500	-	-	-	-	2,597	33	-	-	-	-
Fiddlehead Brewing	7.02	37	59	5.0	160	170 ^A	6,995	2	3	0.29	9.3	9.9
Fiddlehead Brewing ^D	6.97	-	<0.0012	<1	180	-	6,995	-	<0.01 ^F	0.03 ^F	11	-
Lost Nation Brewery	8.54	130	-	268	-	-	1,853	2	-	4.1	-	-
Magic Hat Brewing (Zero Gravity)	8.46	81	46	-	-	-	29,925	20	11	-	-	-
Otter Creek Brewing	7.26	6100	-	-	-	-	1,050	53	-	-	-	-
Rock Art Brewery LLC	7.09	370	5.0 ^B	50	-	-	830	3	-	0.35	-	-
Trapp Lager Brewery	7.44	1100	13	-	-	-	7,608	70	0.83	-	-	-

^A The sample was not preserved to a pH < 2.

^B The Laboratory Fortified Matrix (LFM) analysis had a recovery lower than defined acceptance limits. This indicates a potential negative bias in the reported value or a difficult sample matrix that resulted in poor reproducibility between sample aliquots for analysis.

^C Field replicate samples for BOD-5day, TP, and TSS

^D Field replicate samples for TAN and pH, equipment blank samples for TP and TSS

^E Level of accuracy reported by the laboratory was three orders of magnitude greater than typically reported and is associated with the dilutions performed by the lab. A value of 1/2 the reporting limit was used in the BOD Load calculation and the load estimate is likely an overestimate of the true value.

^F Results were below the reporting limit, half the reporting limit used in load calculations.

Table 5. pH measurement, analytical results, total measured flow, and estimated daily loads for dairies and food processing facilities.

Location	pH	BOD-5Day (mg/L)	Soluble BOD (mg/L)	TP (mg/L)	TSS (mg/L)	Oil and Grease (mg/L)	Total Flow (gal)	BOD-5Day Load (lbs/day)	Soluble BOD Load (lbs/day)	TP Load (lbs/day)	TSS Load (lbs/day)	Oil and Grease Load (lbs/day)
Agri-Mark – Middlebury	6.57	1200	-	22 ^A	190	14.8 ^B	419,200	4200	-	77	665	-
Agri-Mark – Middlebury ^H	7.71	-	-	-	-	11.3	-	-	-	-	-	-
Ben and Jerry's – St Albans	6.95	2700	1500	20	-	1330 ^D , 1220 ^E	76,640	1727	959	13	-	851 ^D , 780 ^E
Ben and Jerry's – Waterbury	6.79	370 ^C	-	13	1590	-	6,131	19	-	0.67	81	-
Commonwealth Dairy	7.59	820	-	-	180	14.9 ^F	110,763 ^J	760	-	-	170	14
Drews LLC	7.96	82	-	-	-	<2.0	4,500	3.1	-	-	-	0.04 ^K
Franklin Foods Inc	6.63	520	-	1	-	5.3 ^G	54,100	240	-	0.45	-	2.4
Franklin Foods Inc ^I	6.63	-	-	-	-	2.8	54,100	-	-	-	-	1.3
Plumrose USA	5.04	1000	-	-	-	14.5	43	0.36	-	-	-	0.01
St Albans Creamery LLC	7.9	580	-	1.5	123	-	292,691	1400	-	3.7	300	-

^A Lab Qualifier HS: Bottle was filled without the required headspace per the sampling instructions. The results have a decreased level of accuracy and may be biased low. Please refer to the applicable sampling instructions for future sampling.

^B Lab Qualifier MOD: Method Modification: The entire content of the sample container was not analyzed due to the nature of the sample matrix. Upon review, determined that the grab sample collection location used was not representative. Resampled on 9/16/2022

^C Lab Qualifier E: Sample was analyzed past Method specified holding time

^D Effluent Grab

^E Production Line 5, wastewater Tank 1 grab sample was collected and analyzed in addition to the effluent grab sample.

^F Lab Qualifier P2: The sample was not preserved to a pH <2

^G Oil and grease sample collected at start of sampling interval on 9/7/2022

^H Agri-Mark Middlebury oil and grease resample.

^I Replicate oil and grease sample for QC

^J Value exceeds daily maximum listed in permit

^K Results were below the reporting limit, half the reporting limit used in load calculations.

Table 6. Analytical results for facilities with pH, total metals, cyanide, and TTO permit requirements.

Location	pH	Cyanide (mg/L)	Aluminum (mg/L)	Cadmium (mg/L)	Chromium (mg/L)	Copper (mg/L)	Lead (mg/L)	Nickel (mg/L)	Silver (mg/L)	Zinc (mg/L)	TTOA (mg/L)	Total Flow (gal)
Edlund Company	7.30	<0.010	-	<0.0005	0.0254	0.0661	<0.0010	0.29	<0.010	0.052	-	2,720
Edlund Company ^B	-	-	-	-	-	-	-	-	-	-	0.305	- ^F
General Electric Columbian Ave	7.01	<0.010	-	<0.0005	0.0080	0.0023	<0.0010	0.0120	<0.010	<0.020	0.045	21,322
General Electric Windcrest Road	7.10	< 0.010	-	<0.0005	0.0148	0.0095	<0.0010	0.0142	<0.010	<0.020	0.047	99,089
General Electric Windcrest Road ^H	-	0.017	-	<0.0005	0.0156	0.0095	<0.0010	0.0144	<0.010	<0.020	0 ^E	99,089
Goodrich Corp Fuel Utility Systems	7.72	<0.010	18	<0.0005	0.0172	0.151	<0.0010	0.0196	<0.010	<0.020	0.069	1,954
GS Precision Coating	6.89	<0.010 ^C	-	<0.0005	0.0452	0.0684	0.0169	0.0384	<0.010	0.095	0.535	18,689
Vishay Transitor	6.85	-	-	-	-	-	-	-	-	-	0.029 ^D	400 ^G
VT Precision Tools	8.25	0.08	-	< 0.0005	0.864	0.0497	<0.0020	0.226	<0.010	0.032	0.069	768

^A Sum of individual compounds listed in Code of Federal Regulations (CFR) at 40 C.F.R 433.11€ with quantifiable concentrations greater than 0.01 mg/L. Compounds may vary based on type of facility and permit requirements.

^B Edlund TTO sample collected on a separate day due to incomplete sample collection on 6/28/2022

^C QA/QC associated with this analysis did not meet laboratory acceptance limits indicating the results may be biased low.

^D TTO sample does not include 2,3,7,8 - TCDD

^E TTO sample does not include VOC sample

^F Not recorded

^G Field notes indicate that a 100-gallon equalization tank discharges up to four times per day. Used maximum possible flow for total daily flow.

^H Field replicate samples collected for cyanide, total metals, and TTO analysis. Note: VOCs were not included in the TTO replicate due to overlooked sample collection.

4. Conclusions

Independent compliance samples were collected and analyzed for 24 of Vermont's approximately 32 SIU facilities. Overall, samples were collected using either facility equipment inspected by samplers or independent sampling equipment. Samplers were able to assess current sampling practices at facilities and adapt processes to collect representative samples during a given sampling event; however, challenges were occasionally encountered and noted in field forms and monthly sampling reports. Scheduling and sampling equipment challenges were able to be addressed through communication with facilities and the VT DEC and the use of independent sampling equipment. Additionally, analytical results indicate that none of the 24 facilities sampled in 2022 were out of compliance for effluent characteristics listed in their permit on the day of sample collection, except for one daily flow exceedance. The data collected as part of the 2022 sampling program, along with sampling plans generated as part of this sampling effort, can be used to inform improvements to the sampling program in future years.

Appendix A: Monthly Reports

Independent Compliance Sampling of Process Wastewater at Vermont's Significant Industrial Users: June 2022 Monthly Report



PROJECT NO.

20221085

REVIEWED BY:

DCB

PREPARED FOR:

Nick Giannetti / Pretreatment Coordinator
VT Agency of Natural Resources
Department of Environmental Conservation
Wastewater Management Division
1 National Life Drive, Davis 3
Montpelier / VT / 0502

SUBMITTED BY:

Meghan Arpino / Project Hydrologist
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier / VT 05602
marpino@stone-env.com
845.323.3436

Compliance Sampling of SIUs: June 2022 Monthly Report

Cover Photo:
Autosampler at
Otter Creek
Brewery

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1. Sampling Summary and Schedule

A summary of the sampling activities completed at each Significant Industrial User (SIU) facility sampled during June 2022 is provided in Table 1. Details are in the sections below. Photos from sampling events are provided in Appendix A. Laboratory reports, including analytical results and chain of custody (COC) forms documenting sample collection and delivery to the analytical laboratory, are provided in Appendix B.

Table 1: Summary of monthly sampling activities

Facility Sampled	Date(s)	Parameters Sampled or Measured
Otter Creek Brewery	6/28/2022 – 6/29/2022	BOD ₅ , pH
Edlund ¹	6/28/2022	Total Metals, Cyanide, VOC, pH

¹Additional grab samples will need to be collected from Edlund, see details in Section 1.2.

1.1. SIU Facility: Otter Creek Brewery

Otter Creek Brewery was sampled on June 29, 2022. A flow-proportioned 24-hour composite sample was collected over the discharge period for Biochemical Oxygen Demand (BOD₅) using the facility's autosampling equipment (model: Sigma900 Max) and flow meter (model: TigerMag EP). The equipment was inspected by the sampler prior to use. No equipment errors or malfunctions were encountered. The facility's refrigerated autosampler set to <6°C was used to collect 35-ml sample aliquots every 10 gallons of flow from 12:00 pm on 6/28/2022 to 12:00 pm on 6/29/2022. Samples were delivered to the analytical laboratory in a cooler with ice. A grab pH measurement was taken at 12:35 pm on 6/28/2022 using a handheld pH meter, with a resulting pH of 7.26.

Upon arrival at Otter Creek, the Stone scientist learned that Otter Creek Brewery has been sold and will no longer operate as a brewery.

1.2. SIU Facility: Edlund Company

Edlund Company sampling was initially scheduled for June 23, 2022. However, upon arrival samplers learned that the first batch discharge for that day had occurred prior to their arrival on site and an equipment malfunction occurred during autosampler setup, making it impossible to collect a representative sample on that day. Sampling was rescheduled for June 28, 2022. A flow-proportioned composite sample was collected for total metals analysis using the facility's flow meter and refrigerated autosampler, which was set to <6°C. The facility's decontaminated composite jug was used for sample collection because the container brought by the Stone Environmental scientist did not fit in the facility's autosampler. The rotimeter was set to collect 200 ml of sample per minute during each batch discharge. There are typically 16 two-minute duration batch discharges per day. The actual sample volume when measured was closer to 85 ml. The individual samples were dispensed directly to the collection jug to create a daily composite sample.

Towards the end of the composite sample collection period grab samples were collected for cyanide and VOC analysis. A handheld meter was used to measure pH, which was 7.30. Due to an oversight, the Stone scientist/subcontractor did not collect the SVOC (including TCDD) and Pesticide/PCB grab samples required in the sampling plan on the same day, and plans to return to Edlund to collect SVOC (including TCDD) and Pesticide/PCBs grab samples at a future date.

1.3. Updated Sampling Schedule

An updated sampling schedule as of July 15, 2022 is provided in Table 2. Stone will contact the DEC to inform them of any scheduling changes.

Table 2: Updated sampling schedule for June – September 2022.

Facility Name	Scheduled Sampling Date
Agri-Mark - Middlebury	7/12/2022 - 7/14/2022*
Alchemist - Stowe	8/9/2022
Alchemist - Waterbury	7/12 setup, 7/14 pickup*
Ben & Jerry's - St Albans	TBD
Ben & Jerrys - Waterbury	7/7/2022*
Commonwealth Dairy	TBD
Drews LLC	TBD
Edlund Company	6/28/2022*
Fiddlehead Brewing	TBD – Waiting on construction
Franklin Foods Inc	TBD
G.S. Precision Coating, Inc	TBD
General Electric - Columbian Ave	Tentative week of 7/25/2022
General Electric - Windcrest Road	Tentative week of 7/25/2022
Goodrich Corp Fuel Utility Systems	TBD
Lost Nation Brewery	TBD
Magic Hat Brewing (Zero Gravity)	7/5-7/6*
Otter Creek Brewing	6/28-6/29*
Plumrose USA	Tentative 7/27/2022
Rock Art Brewery LLC	8/17/2022
St Albans Creamery, LLC	7/5/2022*
Trapp Lager Brewery	7/26/2022
Vishay Tansitor	TBD
VT Hard Cider - Exchange St	Tentative 7/26/2022
VT Precision Tools	TBD

**Sampling has been completed or is in process*

Appendix A: Photos

Otter Creek Brewery



Figure 1. Otter Creek Brewery autosampler.



Figure 2. Otter Creek Brewery discharge pipe with inline flow meter.

Edlund Company, LLC



Figure 3. Edlund Company refrigerated autosampler.



Figure 4. Discharge pipe with inline rotimeter for triggering autosampler and pH meter for pH measurements.

Appendix B: Laboratory Reports and COCs



Stone Environmental, Inc.
535 Stone Cutters Way 070233
Montpelier, VT 05602
Atten: Meghan Arpino

PROJECT: Edlund Company
WORK ORDER: 2206-17131
DATE RECEIVED: June 28, 2022
DATE REPORTED: July 08, 2022
SAMPLER: Andy Fish

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com



160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 07/08/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Edlund CompanyWORK ORDER: 2206-17131
DATE RECEIVED: 06/28/2022

001	Site: Effluent Grab		Date Sampled: 6/28/22		Time: 14:04			
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.	
pH per Client	7.30	SU at __C	Client Data	6/28/22 14:04	W CLI	N		
Cyanide, Total	< 0.010	mg/L	EPA 335.4, R.1(1993)	7/5/22	N MAP	A		
Metals Digestion	Digested		EPA 200.7/200.8	6/30/22	W SJM	A		
Cadmium, Total	< 0.0005	mg/L	EPA 200.8	7/1/22 12:18	W SJM	A		
Chromium, Total	0.0254	mg/L	EPA 200.8	7/1/22 12:18	W SJM	A		
Copper, Total	0.0661	mg/L	EPA 200.8	7/1/22 12:18	W SJM	A		
Lead, Total	< 0.0010	mg/L	EPA 200.8	7/1/22 12:18	W SJM	A		
Nickel, Total	0.290	mg/L	EPA 200.8	7/1/22 12:18	W SJM	A		
Silver, Total	< 0.010	mg/L	EPA 200.8	7/1/22 12:18	W SJM	A		
Zinc, Total	0.052	mg/L	EPA 200.8	7/1/22 12:18	W SJM	A		
VOC Priority Pollutants								
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	6/29/22	W TRP	A		
Chloromethane	< 3.0	ug/L	EPA 624.1	6/29/22	W TRP	A		
Vinyl chloride	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A		
Bromomethane	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A		
Chloroethane	< 5.0	ug/L	EPA 624.1	6/29/22	W TRP	A		
Acrolein	< 5.0	ug/L	EPA 624.1	6/29/22	W TRP	A	M-	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	6/29/22	W TRP	A		
Acetone	2,050	ug/L	EPA 624.1	6/29/22	W TRP	N	CR	
Methylene chloride	< 5.0	ug/L	EPA 624.1	6/29/22	W TRP	A		
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A		
Acrylonitrile	< 5.0	ug/L	EPA 624.1	6/29/22	W TRP	A		
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A		
Chloroform	2.9	ug/L	EPA 624.1	6/29/22	W TRP	A	M+	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A		
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A	M-	
Benzene	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A		
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A		
Trichloroethene	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A		
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A		
Bromodichloromethane	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A	M-	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	6/29/22	W TRP	A		
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A		
Toluene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A		
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A		
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A		
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A		
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	M-	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A		
Ethylbenzene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A		
Xylenes, Total	< 2.0	ug/L	EPA 624.1	6/29/22	W TRP	A		
Bromoform	< 2.0	ug/L	EPA 624.1	6/29/22	W TRP	A	M-	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	6/29/22	W TRP	A		
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A		
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A		
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A		

Laboratory Report

DATE REPORTED: 07/08/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Edlund CompanyWORK ORDER: 2206-17131
DATE RECEIVED: 06/28/2022

001	Site: Effluent Grab			Date Sampled: 6/28/22		Time: 14:04	
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Naphthalene	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	U	
Surr. 1 (Dibromofluoromethane)	93	%	EPA 624.1	6/29/22	W TRP	A	
Surr. 2 (Toluene d8)	99	%	EPA 624.1	6/29/22	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	100	%	EPA 624.1	6/29/22	W TRP	A	
Unidentified Peaks	0		EPA 624.1	6/29/22	W TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	6/29/22	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	6/29/22	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	6/29/22	W TRP	A	

002	Site: Trip Blank			Date Sampled: 6/28/22		Time: 8:49	
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
VOC Priority Pollutants							
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	6/29/22	W TRP	A	
Acetone	< 10.0	ug/L	EPA 624.1	6/30/22	W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Chloroform	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	

Laboratory Report

DATE REPORTED: 07/08/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Edlund CompanyWORK ORDER: 2206-17131
DATE RECEIVED: 06/28/2022

002	Site: Trip Blank			Date Sampled: 6/28/22	Time: 8:49		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	U	
Surr. 1 (Dibromofluoromethane)	94	%	EPA 624.1	6/29/22	W TRP	A	
Surr. 2 (Toluene d8)	98	%	EPA 624.1	6/29/22	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	99	%	EPA 624.1	6/29/22	W TRP	A	
Unidentified Peaks	0		EPA 624.1	6/29/22	W TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	6/29/22	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	6/29/22	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	6/29/22	W TRP	A	

Report Summary of Qualifiers and Notes

CR: The value reported exceeded the analytical calibration range. Sample value determined by extrapolation and has a higher degree of uncertainty than a value bracketed by known standards.

M+: The Laboratory Fortified Matrix (LFM) analysis had a recovery greater than defined acceptance limits. This indicates a potential positive bias in the reported value or a difficult sample matrix that resulted in poor reproducibility between sample aliquots selected for analysis.

M-: The Laboratory Fortified Matrix (LFM) analysis had a recovery lower than defined acceptance limits. This indicates a potential negative bias in the reported value or a difficult sample matrix that resulted in poor reproducibility between sample aliquots selected for analysis.

Edlund Company

Endyne Inc. COC

2206-17131

Prepared: 6/17/22



2206-17131

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
cabraun@stone-env.com;accounting@

Cust # 071

DECRFI

W-70232

Stone Environmental, Inc.
Edlund Company

Effluent Grab

Sampled Date/Time: 6/28/22 @ 2:04 Sampler: 007pH Client Data 7.30

Cyanide, Total 1 - 8 oz Plastic for CN <6C, NaOH ____ Na2S2O3, Cl2 ____

☒ ~~Dioxins, Sub-contracted~~ 2 - 1 Liter Amber Glass <6C, pH 5-9 ____☒ ~~Pests, Priority Pollutant~~ 4 - 1 Liter Amber Glass <6C, Na2S2O3 ____, pH 5-9 ____
☒ ~~SVOC Priority Pollutants~~

Cadmium, Total 1 - 16 oz Plastic Total Metals HNO3 pH< 2 ____

Chromium, Total

Copper, Total

Lead, Total

Nickel, Total

Silver, Total

Zinc, Total

VOC Priority Pollutants 2 - 40ml vials <6C, Na2S2O3

Trip Blank 6/28/22 @ 8:44 AM

One or more sample bottles in this project must be
kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the
temperature preservation requirements are not satisfied. 007

Relinquished by: Andrew Pichler 6/28/22 3:03 PM accepted by: Stodmay 6/28/22 @ 1503
Date Time Date TimeRelinquished by: _____ Received by: _____
Date Time Date Time

Sites/Parameters correct as listed. Client Initials _____

Client Authorization to use Subcontract lab Client Initials _____

Sample origin: VT ☒ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PC#) _____

Requested Turnaround Time: Routine: Rush Due Date _____

Delv: Client Trmpl Ck Lab use Only
Temp C: 0.2 Log by _____
Comment: _____
VOC's have a 7 day Hold Time



160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Elma Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-583-1720
Fax 518-583-0052



Stone Environmental, Inc.
535 Stone Cutters Way 070233
Montpelier, VT 05602
Atten: Meghan Arpino

PROJECT: Otter Creek Brewing
WORK ORDER: 2206-17264
DATE RECEIVED: June 29, 2022
DATE REPORTED: July 05, 2022
SAMPLER: APH

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

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Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 07/05/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Otter Creek BrewingWORK ORDER: 2206-17264
DATE RECEIVED: 06/29/2022

001 Site: Effluent Grab Date Sampled: 6/29/22 Time: 12:05

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	7.26	SU at ___C	Client Data	6/29/22 12:05	W CLI	N	
BOD-5day	6,100	mg/L	SM 5210B(16)	6/29/22 15:29	W JSS	A	

Otter Creek Brewing

Endyne Inc. COC

Prepared: 6/16/22

2206-17264

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com; accounting@stone-env.com

Cust# 07C

DECRRP

W-70233C



2206-17264

Stone Environmental, Inc.
Otter Creek Brewing

Effluent Grab

Sampled Date/Time:

6/24/22 @ 12:05

Sampler:

APH

pH Client Data

7.26

BOD-5day

1 - 8 oz Plastic

<8C

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

APH

INITIAL

Relinquished by:

[Signature]

6/29/22 13:49

Date Time

Accepted by:

[Signature]

Date Time

Relinquished by:

Received by:

6/29/22 1349

Date/Time

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv: *[Signature]*
Temp C: 6.5
Comment:

Temp Ck:
Log by

Lab use Only



ENDYNE Inc.

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315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052

Independent Compliance Sampling of Process Wastewater at Vermont's Significant Industrial Users: July 2022 Monthly Report



PROJECT NO.

20221085

REVIEWED BY:

AH, MRA

PREPARED FOR:

Nick Giannetti / Pretreatment Coordinator
VT Agency of Natural Resources
Department of Environmental Conservation
Wastewater Management Division
1 National Life Drive, Davis 3
Montpelier / VT / 0502

SUBMITTED BY:

Meghan Arpino / Project Hydrologist
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier / VT 05602
marpino@stone-env.com
845.323.3436

Compliance Sampling of SIUs: July 2022 Monthly Report

Cover Photo:
Wastewater
Facility at Zero
Gravity Brewery
(Formerly Magic
Hat)

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1. Sampling Summary and Schedule

A summary of the sampling activities completed at each Significant Industrial User (SIU) facility sampled during July 2022 is provided in Table 1. Details are in the sections below. Photos from sampling events are provided in Appendix A. Laboratory reports, including analytical results and chain of custody (COC) forms documenting sample collection and delivery to the analytical laboratory, are provided in Appendix B.

Table 1: Summary of monthly sampling activities

Facility Sampled	Date(s)	Parameters Sampled or Measured
Agri-Mark - Middlebury	7/12/2022 – 7/14/2022	BOD ₅ , TSS, TP, pH
Alchemist - Waterbury	7/12/2022 setup, 7/14/2022 pickup	BOD ₅ , pH
Ben & Jerry's Waterbury	7/7/2022	BOD ₅ , TSS, TP, pH
Goodrich Corp Fuel Utility Systems	7/18/2022	Total Metals, Cyanide, TTO, pH, Dioxin
St Albans Creamery, LLC	7/5/2022	BOD ₅ , TSS, TP, pH
VT Precision Tools	7/26/2022	Total Metals, Cyanide, TTO, pH, Dioxin
Zero Gravity Brewery	7/5/2022 – 7/6/2022	BOD ₅ , TP, pH

1.1. Agri-Mark – Middlebury

Agri-Mark - Middlebury was sampled on July 14, 2022. A flow-proportioned 24-hour composite sample was collected over the discharge period for Biochemical Oxygen Demand (BOD₅), Total Phosphorus (TP), and Total Suspended Solids (TSS) using the facility's autosampling equipment (model: Hach/Sigma900) and flow meter (model: ABB). The equipment was inspected by the sampler prior to use. No equipment errors or malfunctions were encountered. The facility's refrigerated autosampler set to <6°C was used to collect approximately 50 ml sample aliquots every approximately 3750 gallons of flow from 12:01 am on 7/13/2022 to 12:00 am on 7/14/2022. The total discharge over the sampling period was 419,200 gallons. Samples were delivered to the analytical laboratory in a cooler with ice. A grab pH measurement was taken at 9:28 am on 7/14/2022 using a handheld pH meter, with a resulting pH of 6.57. A grab sample for Oil & Grease was also collected at 9:28 am on 7/14/2022, however the Oil & Grease sample will be recollected upon review of the sample location and method.

1.2. Alchemist – Waterbury

Alchemist - Waterbury was sampled on July 14, 2022. A flow-proportioned 24-hour composite sample was collected over the discharge period for Biochemical Oxygen Demand (BOD5) using the facility's autosampling equipment (model: ISCO 5800) and flow meter (model: Magmeter). The equipment was inspected by the sampler prior to use. No equipment errors or malfunctions were encountered. The facility's refrigerated autosampler set to $<6^{\circ}\text{C}$ was used to collect 100-ml sample aliquots every 40 gallons of flow (or every 2 pulses) from 5:37 am on 7/13/2022 to 1:54 am on 7/14/2022. The total discharge over the sampling period was 2597 gallons based on the totalizer readings. Samples were delivered to the analytical laboratory in a cooler with ice. A grab pH measurement was taken at 3:36 pm on 7/13/2022 using a handheld pH meter, with a resulting pH of 6.58.

1.3. Ben & Jerry's Waterbury

Ben & Jerry's - Waterbury was sampled on July 7, 2022. A manually flow-proportioned composite sample was collected over the 1 hour 22 minute hour discharge period for Biochemical Oxygen Demand (BOD5), Total Phosphorus (TP), and Total Suspended Solids (TSS). Samples were collected using a graduated cylinder taking 750 mL samples every 1000 gallons as displayed by the flow meter and composited into a polyethylene jug kept $<6^{\circ}\text{C}$ in a refrigerator. Samples were collected between 7:40 am and 9:02 am on 7/7/2022. The total discharge over the sampling period was 6131 gallons as read by the flow meter readout on the computer display screen. Samples were delivered to the analytical laboratory in a cooler with ice. A grab pH measurement was taken at 7:59 am on 7/7/2022 using a handheld pH meter, with a resulting pH of 6.79.

1.4. Goodrich Corp Fuel Utility Systems

Goodrich (now Collins Aerospace) was sampled on July 19 to 20, 2022. A flow-proportioned 24-hour composite sample was collected over the discharge period for Total Metals using the facility's autosampling equipment (model: ISCO 2700) and flow meter (model: Greyline OCF5). The equipment was inspected by the sampler prior to use. No equipment errors or malfunctions were encountered. The facility's refrigerated autosampler set to $<6^{\circ}\text{C}$ was used to collect 100-ml sample aliquots every 200 gallons of flow from 8:45 am on 7/19/2022 to 9:15 am on 7/20/2022. The total discharge over the sampling period was 1954 gallons. Samples were delivered to the analytical laboratory in a cooler with ice. A grab pH measurement was taken at 9:38 am on 7/20/2022 using a handheld pH meter, with a resulting pH of 7.72. Grab samples were also collected for Oil & Grease, Cyanide, Dioxins, Pesticides, SVOCs, and VOCs at 9:46 am on 7/20/2022 from the influent end of the flume due to low discharge volume in flume. Pictures were not permitted to be taken at the Goodrich (Collins Aerospace) facility.

1.5. St Albans Creamery, LLC

St Albans Creamery, LLC was sampled on July 6 to 7, 2022. A flow-proportioned 24-hour composite sample was collected over the discharge period for Biochemical Oxygen Demand (BOD5) using the facility's autosampling equipment (model: ISCO 3700) and flow meter (model: ISCO). The equipment was inspected by the sampler prior to use. No equipment errors or malfunctions were encountered. The facility's refrigerated autosampler set to $<6^{\circ}\text{C}$ was used to collect 130-ml sample aliquots every 5350 gallons of flow from 7:30 am on 7/6/2022 to 8:30 am on 7/7/2022. Samples were delivered to the analytical laboratory in a cooler with ice. A grab pH measurement was taken at 8:36 am on 7/7/2022 using a handheld pH meter, with a resulting pH of 7.9.

1.6. Vermont Precision Tools

VT Precision was sampled on July 26, 2022. Grab samples were collected for Total Metals, Cyanide, Dioxins, Pesticides/PCBs, SVOCs, and VOCs at 1:30 pm on 7/26/2022. Grab samples were collected from the 48-gallon equalization tank. A grab pH measurement was taken at 1:19 pm on 7/26/2022 using a handheld pH meter, with a resulting pH of 8.25. Sampler was unable to setup an autosampler for collecting composite sample for Total Metals analysis. At the time of this report, we were waiting for analytical results from Endyne, Inc..

1.7. Zero Gravity Brewery (Formerly Magic Hat)

Zero Gravity Brewery was sampled on July 6, 2022. A flow-proportioned 24-hour composite sample was collected over the discharge period for Biochemical Oxygen Demand (BOD₅) and Total Phosphorus (TP) using the facility's autosampling equipment (model: ISCO 2710/3710FR) and flow meter (model: Seametrics). The equipment was inspected by the sampler prior to use. No equipment errors or malfunctions were encountered. The facility's refrigerated autosampler set to <6°C was used to collect 25-ml sample aliquots every 1000 gallons (need to confirm correct interval with facility) of flow from 10:30 am on 7/5/2022 to 10:30 am on 7/6/2022. Samples were delivered to the analytical laboratory in a cooler with ice. A grab pH measurement was taken at 10:50 am on 7/5/2022 using a handheld pH meter, with a resulting pH of 8.46.

1.8. Updated Sampling Schedule

An updated sampling schedule as of August 15, 2022 is provided in Table 2. Stone will contact the DEC to inform them of any scheduling changes.

Table 2: Updated sampling schedule for June – September 2022.

Facility Name	Scheduled Sampling Date
Agri-Mark - Middlebury	7/12/2022 - 7/14/2022*
Alchemist - Stowe	9/7/2022
Alchemist - Waterbury	7/12 setup, 7/14 pickup*
Ben & Jerry's - St Albans	TBD
Ben & Jerrys - Waterbury	7/7/2022*
Commonwealth Dairy	8/23/2022
Drews LLC	8/9/2022*
Edlund Company	6/28/2022*
Fiddlehead Brewing	8/23/2022 – 8/24/2022
Franklin Foods Inc	8/31/2022 – 9/1/2022
G.S. Precision Coating, Inc	8/16/2022-8/17/2022
General Electric - Columbian Ave	8/4/2022-8/5/2022*
General Electric - Windcrest Road	8/2/2022*
Goodrich Corp Fuel Utility Systems	7/19/2022-7/20/2022*
Lost Nation Brewery	TBD - September
Magic Hat Brewing (Zero Gravity)	7/5-7/6*
Otter Creek Brewing	6/28-6/29*
Plumrose USA	8/1/2022 – 8/2/2022*
Rock Art Brewery LLC	8/17/2022*
St Albans Creamery, LLC	7/5/2022*
Trapp Lager Brewery	8/2/2022*
Vishay Tansitor	8/30/2022
VT Hard Cider - Exchange St	8/17/2022-8/18/2022*
VT Precision Tools	7/26/2022*

**Sampling has been completed or is in process*

Appendix A: Photos

Agri-Mark - Middlebury



Figure 1. Agri-Mark - Middlebury autosampler.



Figure 2. Agri-Mark - Middlebury grab sample collection.

Alchemist – Waterbury



Figure 3. Alchemist - Waterbury autosampler.



Figure 4. Alchemist - Waterbury sampling location upstream of flowmeter.

Ben & Jerry's Waterbury

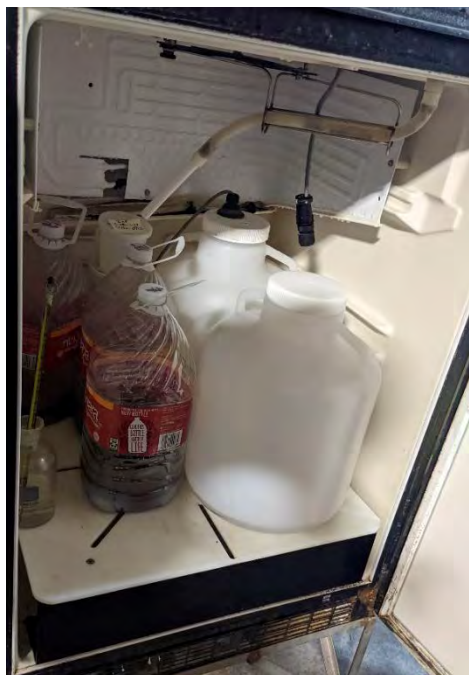


Figure 5. Ben & Jerry's - Waterbury autosampler.



Figure 6. Ben & Jerry's - Waterbury discharge pipe with inline flow meter.

St Albans Creamery, LLC



Figure 7. St Albans Creamery, LLC autosampler.



Figure 8. St Albans Creamery, LLC sample collection jug in base of autosampler.

Zero Gravity Brewery (Formerly Magic Hat)



Figure 9. Zero Gravity Brewery autosampler.



Figure 10. Zero Gravity Brewery discharge pipe with inline flow meter.

Vermont Precision Tools



Figure 11. Equalization tank at VT Precision.



Figure 12. Grab sample collection at VT Precision.

Appendix B: Laboratory Reports and COCs



Stone Environmental, Inc.	PROJECT: Agrimark - Middlebury
535 Stone Cutters Way 070233	WORK ORDER: 2207-19207
Montpelier, VT 05602	DATE RECEIVED: July 14, 2022
Atten: Meghan Arpino	DATE REPORTED: July 25, 2022
	SAMPLER: AF

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

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56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 07/25/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Agrimark - Middlebury

WORK ORDER: 2207-19207
DATE RECEIVED: 07/14/2022

001	Site: Effluent Composite			Date Sampled: 7/14/22		Time: 9:28		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.	
pH per Client	6.57	SU at _C	Client Data	7/14/22	9:28 W CLI	N		
BOD-5day	1,200	mg/L	SM 5210B(16)	7/14/22	15:18 W JSS	A		
Phosphorus, Total	22	mg/L	EPA 365.1, R.2(1993)	7/18/22	N MAP	A	HS	
Solids, Total Suspended	190	mg/L	SM 2540 D-15	7/19/22	W JSS	A		

002	Site: Effluent Grab						Date Sampled: 7/14/22	Time: 12:00
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.	
Oil & Grease Total Recoverable	14.8	mg/L	EPA 1664A	7/21/22	W CLD	A	MOD	

Report Summary of Qualifiers and Notes

HS: Bottle was filled without the required headspace per the sampling instructions. The results have a decreased level of accuracy and may be biased low. Please refer to the applicable sampling instructions for future sampling.

MOD: Method Modification: The entire content of the sample container was not analyzed due to the nature of the sample matrix.

3.496 2494 M 879x.04192

Agrimark - Middlebury

Endyne Inc. COC

Prepared: 8/22/22

2207-19207

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

456
Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting;

Cust # 070



2207-19207

DECREP: Stone Environmental, Inc.
Agrinark - Middlebury

W-70233A

Effluent Grab p H+0+6 Sampled Date/Time: 7/14/22 @ 9:28^{am} Sampler: GPF

pH Client Data 6.57

BOD-5day Composite 1 - 8 oz Plastic <8C
Solids, Total Suspended per client

Phosphorus, Total 1 - 60ml Vial <8C, H2SO4

Oil + grease - 500 ml glass - 250 ml glass - 46% HCL Grab per client

Effluent composite
12:01 7/13 - 12:00 7/14

FLOW-419,200

max day flow 4650
1 #ounds

max day flow 450 gpm
permission from town
to go to 550 gpm 1/2 hour

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

INITIALS

Relinquished by: Andrew Fiel 7/14/22 Accepted by:

Date Time

Date Time

Relinquished by: Received by: Chaim 7/14/22 11:55

Date Time

Date Time

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin. VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv: Client
Temp C: 11.5
Comment:

Temp Ck
Log by

Lab use Only



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Fax 603-878-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.
535 Stone Cutters Way 070233
Montpelier, VT 05602
Atten: Meghan Arpino

PROJECT: Alchemist - Waterbury
WORK ORDER: 2207-19340
DATE RECEIVED: July 14, 2022
DATE REPORTED: July 20, 2022
SAMPLER: HRA

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

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Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

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Laboratory Report

DATE REPORTED: 07/20/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Alchemist - WaterburyWORK ORDER: 2207-19340
DATE RECEIVED: 07/14/2022

001 Site: Effluent Grab Date Sampled: 7/14/22 Time: 9:20

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	6.58	SU at ___C	Client Data	7/14/22 9:20	W CLI	N	
BOD-5day	1,500	mg/L	SM 5210B(16)	7/15/22 12:42	W JSS	A	

Alchemist - Waterbury

Endyne Inc. COC

2207-19340

Prepared: 6/23/22



2207-19340

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust #

DEC

W-70:

Stone Environmental, Inc.
Alchemist - Waterbury

FORM 1-01-1

Effluent Grab

Sampled Date/Time: 7/14/22 @ 9:20 Sampler: HRA

pH Client Data 6.58

BOD-5day

✓ 1 - 8 oz Plastic

<6C

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied. HRA



Relinquished by: [Signature] 10:30am Date Time

Accepted by: [Signature] Date Time

Relinquished by: [Signature] Date Time

Received by: [Signature] 7/14/22 14:20 Date Time

Sites/Parameters correct as listed. Client Initials HRA

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☒ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#) 20221085

Requested Turnaround Time: Routine: Rush Due Date

Delv: GMM	Temp C: -3.3	Temp Ck	Log by	Lab use Only
Comment:				



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Plattsburgh, NY 12903
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Fax 518-563-0052



Stone Environmental, Inc.	PROJECT: Ben & Jerry's - Waterbury
535 Stone Cutters Way 070233	WORK ORDER: 2207-18153
Montpelier, VT 05602	DATE RECEIVED: July 07, 2022
Atten: Meghan Arpino	DATE REPORTED: July 19, 2022
	SAMPLER: Meghan Arpino

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

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Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

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Laboratory Report

DATE REPORTED: 07/19/2022

CLIENT: Stone Environmental, Inc.
 PROJECT: Ben & Jerry's - Waterbury

WORK ORDER: **2207-18153**
 DATE RECEIVED: 07/07/2022

001	Site: Effluent Grab			Date Sampled: 7/7/22		Time: 9:03		
Parameter	Result	Units	Method	Analysis Date/Time		Lab/Tech	NELAC	Qual.
pH per Client	6.79	SU at ___C	Client Data	7/7/22	9:03	W CLI	N	
BOD-5day	370	mg/L	SM 5210B(16)	7/13/22	12:15	W JSS	A	E
Phosphorus, Total	13	mg/L	EPA 365.1, R.2(1993)	7/12/22		N MAP	A	
Solids, Total Suspended	1,590	mg/L	SM 2540 D-15	7/12/22		W JSS	A	

Report Summary of Qualifiers and Notes

E: Sample was analyzed past Method specified holding time.

Ben & Jerry's - Waterbury

Endyne Inc. COC

2207-18153

Prepared: 8/22/22

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
636 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com; accounting@

Cust # 071

DECRF

W-70233.



2207-18153

Stone Environmental, Inc.
Ben & Jerry's - Waterbury

Page 1 of 1

Effluent Grab

Sampled Date/Time: 7/7/22 @ 9:03

Sampler: Meghan Arpino

pH Client Data 6.79 @ 18.1°C

BOD-5day

1 - 8 oz Plastic

<6C

Solids, Total Suspended

Phosphorus, Total

1 - 60ml Vial

<6C, H2SO4 ✓

One or more sample bottles in this project must be
kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the
temperature preservation requirements are not satisfied.

INITIAL

Relinquished by: Meghan Arpino 7/7/22 10:03

Date Time

Accepted by:

Relinquished by:

Received by: CAR 7/7/22 1002

Date Time

Date Time

Sites/Parameters correct as listed. Client Initials MCA

Date Time

Client Authorization to use Subcontract lab Client Initials MCASample origin: VT ☒ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date NADelv: ad
Temp C: 9.6
Comment:Temp Ck
Log by

Lab use Only



ENDYNE Inc.

www.endynelabs.com

160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
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58 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
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Stone Environmental, Inc.		PROJECT: Goodrich Corp Fuel Uty Systems
535 Stone Cutters Way	070233	WORK ORDER: 2207-19848
Montpelier, VT 05602		DATE RECEIVED: July 20, 2022
		DATE REPORTED: August 12, 2022
Atten: Meghan Arpino		SAMPLER: AF

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

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160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 08/12/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Goodrich Corp Fuel Uty Systems

WORK ORDER: 2207-19848
DATE RECEIVED: 07/20/2022

001	Site: Effluent Grab			Date Sampled: 7/20/22		Time: 9:30	
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
pH per Client	7.72	SU at __ C	Client Data	7/20/22 9:30	W CLI	N	
Cyanide, Total	< 0.010	mg/L	EPA 335.4, R.1(1993)	8/1/22	N MAP	A	
Metals Digestion	Digested		EPA 200.7/200.8	7/25/22	W SJM	A	
Aluminum, Total	18	mg/L	EPA 200.8	7/27/22 0:46	W SJM	A	
Cadmium, Total	< 0.0005	mg/L	EPA 200.8	7/26/22 15:16	W SJM	A	
Chromium, Total	0.0172	mg/L	EPA 200.8	7/26/22 15:16	W SJM	A	
Copper, Total	0.151	mg/L	EPA 200.8	7/26/22 15:16	W SJM	A	
Lead, Total	< 0.0010	mg/L	EPA 200.8	7/26/22 15:16	W SJM	A	
Nickel, Total	0.0196	mg/L	EPA 200.8	7/26/22 15:16	W SJM	A	
Silver, Total	< 0.010	mg/L	EPA 200.8	7/26/22 15:16	W SJM	A	
Zinc, Total	< 0.020	mg/L	EPA 200.8	7/26/22 15:16	W SJM	A	
Dioxins, Sub-contracted	See Attached			8/4/22	SWSUB	N	SPA
VOC Priority Pollutants							
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	7/23/22	W TRP	A	
Acetone	66.7	ug/L	EPA 624.1	7/23/22	W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Chloroform	2.3	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	

Laboratory Report

DATE REPORTED: 08/12/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Goodrich Corp Fuel Uty Systems

WORK ORDER: 2207-19848
DATE RECEIVED: 07/20/2022

001	Site: Effluent Grab		Date Sampled: 7/20/22		Time: 9:30		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	U	
Surr. 1 (Dibromofluoromethane)	101	%	EPA 624.1	7/23/22	W TRP	A	
Surr. 2 (Toluene d8)	96	%	EPA 624.1	7/23/22	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	101	%	EPA 624.1	7/23/22	W TRP	A	
Unidentified Peaks	0		EPA 624.1	7/23/22	W TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	7/23/22	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	7/23/22	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	7/23/22	W TRP	A	
Priority Pollutant Pesticides							
Sep Funnel Extraction	Completed		EPA 608.3	7/27/22	W ECM	A	
alpha-BHC	< 0.009	ug/L	EPA 608.3	8/2/22	W DPD	A	
gamma-BHC (Lindane)	< 0.012	ug/L	EPA 608.3	8/2/22	W DPD	A	
beta-BHC	< 0.018	ug/L	EPA 608.3	8/2/22	W DPD	A	
delta-BHC	< 0.027	ug/L	EPA 608.3	8/2/22	W DPD	A	
Heptachlor	< 0.009	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aldrin	< 0.012	ug/L	EPA 608.3	8/2/22	W DPD	A	
Heptachlor Epoxide	< 0.249	ug/L	EPA 608.3	8/2/22	W DPD	A	
4,4'-DDE	< 0.012	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endosulfan I	< 0.042	ug/L	EPA 608.3	8/2/22	W DPD	A	
Dieldrin	< 0.006	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endrin	< 0.018	ug/L	EPA 608.3	8/2/22	W DPD	A	
4,4'-DDD	< 0.033	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endosulfan II	< 0.012	ug/L	EPA 608.3	8/2/22	W DPD	A	
4,4'-DDT	< 0.036	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endrin Aldehyde	< 0.070	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endosulfan Sulfate	< 0.198	ug/L	EPA 608.3	8/2/22	W DPD	A	
Methoxychlor	< 0.1	ug/L	EPA 608.3	8/2/22	W DPD	A	
Chlordane	< 0.150	ug/L	EPA 608.3	8/2/22	W DPD	A	
Toxaphene	< 0.720	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1016 (PCB-1016)	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1221 (PCB-1221)	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1232 (PCB-1232)	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1242 (PCB-1242)	< 0.095	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1248 (PCB-1248)	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1254 (PCB-1254)	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1260	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Surrogate-TCMX	71	%	EPA 608.3	8/2/22	W DPD	A	
Surrogate-DCB	22	%	EPA 608.3	8/2/22	W DPD	A	
SVOC Priority Pollutants							
Extraction EPA 3510C	Completed		EPA 3510C	7/27/22	W CLD	A	
N-Nitrosodimethylamine	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Bis(2-chloroethyl)ether	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
2,2'-Oxybis(1-chloropropane	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	M-
N-Nitrosodi-n-propylamine	< 10.0	ug/L	EPA 625.1	7/27/22	W EEP	A	

Laboratory Report

DATE REPORTED: 08/12/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Goodrich Corp Fuel Uty Systems

WORK ORDER: 2207-19848
DATE RECEIVED: 07/20/2022

001 Site: Effluent Grab		Date Sampled: 7/20/22 Time: 9:30					
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Hexachloroethane	< 2.0	ug/L	EPA 625.1	7/27/22	W EEP	A	M-
Nitrobenzene	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	M-
Isophorone	< 2.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Bis(2-chloroethoxy)methane	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 625.1	7/27/22	W EEP	A	M-
Naphthalene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Hexachlorobutadiene	< 2.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Hexachlorocyclopentadiene	< 20.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
2-Chloronaphthalene	< 2.0	ug/L	EPA 625.1	7/27/22	W EEP	A	M-
Dimethyl phthalate	< 2.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
2,6-Dinitrotoluene	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Acenaphthylene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Acenaphthene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
2,4-Dinitrotoluene	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Fluorene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Diethyl phthalate	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
N-Nitrosodiphenylamine	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Azobenzene	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Hexachlorobenzene	< 1.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Phenanthrene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Anthracene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Di-n-butylphthalate	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Fluoranthene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Benzidine	< 20.0	ug/L	EPA 625.1	7/27/22	W EEP	A	RPD
Pyrene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Butyl benzyl phthalate	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Benzo(a)anthracene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Chrysene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Di-n-octylphthalate	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Benzo(b)fluoranthene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Benzo(k)fluoranthene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Benzo(a)pyrene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Indeno(1,2,3-cd)pyrene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Dibenzo(a,h)anthracene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Benzo(g,h,i)perylene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Phenol	< 2.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
2-Chlorophenol	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
2-Nitrophenol	< 10.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
2,4-Dimethylphenol	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
2,4-Dichlorophenol	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	M-
4-Chloro-3-methylphenol	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
2,4,6-Trichlorophenol	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	

Laboratory Report

DATE REPORTED: 08/12/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Goodrich Corp Fuel Uty Systems

WORK ORDER: 2207-19848
DATE RECEIVED: 07/20/2022

001	Site: Effluent Grab			Date Sampled: 7/20/22		Time: 9:30	
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
2,4-Dinitrophenol	< 20.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
4-Nitrophenol	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Pentachlorophenol	< 10.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
B/N Surr.1 Nitrobenzene-d5	53	%	EPA 625.1	7/27/22	W EEP	A	
B/N Surr.2 2-Fluorobiphenyl	55	%	EPA 625.1	7/27/22	W EEP	A	
B/N Surr.3 Terphenyl-d14	100	%	EPA 625.1	7/27/22	W EEP	A	
Acid Surr.1 2-Fluorophenol	26	%	EPA 625.1	7/27/22	W EEP	A	
Acid Surr.2 Phenol-d5	23	%	EPA 625.1	7/27/22	W EEP	A	
Acid Surr.3 Tribromophenol	104	%	EPA 625.1	7/27/22	W EEP	A	
Unidentified Peaks	> 10		EPA 625.1	7/27/22	W EEP	U	

002	Site: Trip Blank			Date Sampled: 6/28/22		Time: 9:26	
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
VOC Priority Pollutants							
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	7/23/22	W TRP	A	
Acetone	< 10.0	ug/L	EPA 624.1	7/23/22	W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Chloroform	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	7/23/22	W TRP	A	

Laboratory Report

DATE REPORTED: 08/12/2022

CLIENT: Stone Environmental, Inc.
 PROJECT: Goodrich Corp Fuel Uty Systems

WORK ORDER: 2207-19848
 DATE RECEIVED: 07/20/2022

002	Site: Trip Blank			Date Sampled: 6/28/22		Time: 9:26	
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Bromoform	< 2.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	U	
Surr. 1 (Dibromofluoromethane)	96	%	EPA 624.1	7/23/22	W TRP	A	
Surr. 2 (Toluene d8)	100	%	EPA 624.1	7/23/22	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	100	%	EPA 624.1	7/23/22	W TRP	A	
Unidentified Peaks	0		EPA 624.1	7/23/22	W TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	7/23/22	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	7/23/22	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	7/23/22	W TRP	A	

Report Summary of Qualifiers and Notes

M-: The Laboratory Fortified Matrix (LFM) analysis had a recovery lower than defined acceptance limits. This indicates a potential negative bias in the reported value or a difficult sample matrix that resulted in poor reproducibility between sample aliquots selected for analysis.

RPD: Variability observed. The Relative Percent Difference of the Matrix Spike Duplicate was above method acceptance limits.

SPA: Analysis performed by subcontracted laboratory, Pace Analytical, with the following state assigned laboratory ID numbers; VT0282, NY10888, NH2974. The complete subcontracted report has been appended to this report.



Pace Analytical Services, LLC.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

Report Prepared for:

Eileen Toomey
Endyne, Inc.
160 James Brown Drive
Williston VT 05495

**REPORT OF
LABORATORY
ANALYSIS FOR
TCDD**

Report Prepared Date:

August 10, 2022

Report Information:

Pace Project #: 10618289
Sample Receipt Date: 07/25/2022
Client Project #: 2207-19848 001 Effluent
Client Sub PO #: N/A
State Cert #: VT-027053137

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 2,3,7,8-TCDD Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Isaac Johnson, your Pace Project Manager.

This report has been reviewed by:

August 12, 2022

Isaac Johnson, Project Manager
(612) 607-1700
(612) 607-6444 (fax)
isaac.johnson@pacelabs.com



Report of Laboratory Analysis

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The results relate only to the samples included in this report.



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DISCUSSION

This report presents the results from the analysis performed on one sample submitted by a representative of Endyne, Inc. The sample was analyzed for the presence or absence of 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) using USEPA Method 1613B. The reporting limits were set to correspond to the lowest calibration point and a nominal 1-Liter sample amount, and the sensitivity was verified by signal-to-noise measurements. The quantitation limits, adjusted for sample extraction amount, may be somewhat higher or lower than the reporting limits provided in this report.

The isotopically-labeled TCDD internal standard in the sample extract was recovered at 58%. All of the labeled standard recoveries obtained for this project were within the target ranges specified in Method 1613B. Also, since the quantification of the native TCDD was based on isotope dilution, the data were automatically corrected for recovery and accurate values were obtained.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show that 2,3,7,8-TCDD was not detected.

Laboratory spike samples were also prepared using clean reference matrix that had been fortified with native standard material. The results show that the spiked native TCDD was recovered at 94-98% with a relative percent difference of 4.2%. These results were within the target ranges for the method. Matrix spikes were not prepared with the sample batch.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Missouri	10100
Alaska-DW	MN00064	Montana	CERT0092
Alaska-UST	17-009	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN00064
Arkansas - WW	88-0680	New Hampshire	2081
Arkansas-DW	MN00064	New Jersey	MN002
California	2929	New York	11647
Colorado	MN00064	North Carolina-	27700
Connecticut	PH-0256	North Carolina-	530
Florida	E87605	North Dakota	R-036
Georgia	959	Ohio-DW	41244
Hawaii	MN00064	Ohio-VAP (170	CL101
Idaho	MN00064	Ohio-VAP (180	CL110
Illinois	200011	Oklahoma	9507
Indiana	C-MN-01	Oregon- rimary	MN300001
Iowa	368	Oregon-Second	MN200001
Kansas	E-10167	Pennsylvania	68-00563
Kentucky-DW	90062	Puerto Rico	MN00064
Kentucky-WW	90062	South Carolina	74003
Louisiana-DEQ	AI-84596	Tennessee	TN02818
Louisiana-DW	MN00064	Texas	T104704192
Maine	MN00064	Utah	MN00064
Maryland	322	Vermont	VT-027053137
Michigan	9909	Virginia	460163
Minnesota	027-053-137	Washington	C486
Minnesota-Ag	via MN 027-053	West Virginia-D	382
Minnesota-Petr	1240	West Virginia-D	9952C
		Wisconsin	999407970
		Wyoming-UST	via A2LA 2926.

REPORT OF LABORATORY ANALYSIS

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Report No.....10618289



Pace Analytical Services, LLC
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Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

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Chain of Custody

Pace Analytical Minn

1700 Elm St SE

Minneapolis MN 55414

Ph 612-607-1700

STATE OF ORIGIN: _____ VERMONT

The analysis requested requires that you have and maintain NELAC certification. If you do not currently have NELAC certification in the above referenced State, and specified matrix please contact Endyne immediately at (802) 879-4333 ext 301. Thank you.

Copy of Report To	Billing Information	Project Information
CUSTOMER: Endyne, Inc.	BILL TO: Endyne, Inc.	2207-19848-W
ADDRESS: 160 James Brown Drive	ADDRESS: 160 James Brown Drive	TURN AROUND TIME:
Williston, VT 05495	Williston, VT 05495	SPECIAL INSTRUCTIONS:
ATTENTION: Eileen Toomey	ATTENTION: Reporting	
E-MAIL: etoomey@endynelabs.com	E-MAIL: etoomey@endynelabs.com	
PHONE: (802) 879-4333 x 300	PHONE: 802-879-4333 x 308	

Analysis Requested: Dioxins, Sub-contracted

Dioxins, Sub-contracted

Dioxins, Sub-contracted

Sample Identification	Matrix	DT TM Sampled
2207-19848 001 Effluent Grab	WW	7/20/22 9:30

001

WO#: 10618289




Relinquished by: (Sign, Date, Time)

Eileen Toomey 7/21/22

Received by: (Sign, Date, Time)

Ph. P. 7/25/22 1000

Report No.: 10618289_16437000_DFR

	DC#_Title: ENV-FRM-MIN4-0150 v05_Sample Condition Upon Receipt (SCUR)
	Effective Date: 04/12/2022

Sample Condition Upon Receipt	Client Name: <u>Endyne Inc</u>	Project #:	WO#: 10618289 PM: AW1 Due Date: 08/23/22 CLIENT: ENDYNE
Courier: <input type="checkbox"/> Fed Ex <input type="checkbox"/> Pace	<input type="checkbox"/> UPS <input checked="" type="checkbox"/> Speedee <input type="checkbox"/> USPS <input type="checkbox"/> Commercial	<input type="checkbox"/> Client	
Tracking Number: <u>1Z 3092x913 75997278</u>			

Custody Seal on Cooler/Box Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Seals Intact? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Biological Tissue Frozen? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Packing Material: <input type="checkbox"/> Bubble Wrap <input type="checkbox"/> Bubble Bags <input checked="" type="checkbox"/> None <input type="checkbox"/> Other: _____	Temp Blank? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Thermometer: <input type="checkbox"/> T3(0461) <input type="checkbox"/> T2(1336) <input type="checkbox"/> T3(0459) <input type="checkbox"/> T4(0254) <input type="checkbox"/> T5(0489) <input type="checkbox"/> T6(0235) <input type="checkbox"/> T7(0042) <input type="checkbox"/> 01339252/1710 <input type="checkbox"/> 122639816 <input type="checkbox"/> 140792808	Type of Ice: <input type="checkbox"/> Wet <input checked="" type="checkbox"/> Blue <input type="checkbox"/> None <input type="checkbox"/> Dry <input checked="" type="checkbox"/> Melted	

Did Samples Originate in West Virginia? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Were All Container Temps Taken? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Average Corrected Temp (no temp blank only): _____ °C	<input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142 <input checked="" type="checkbox"/> Container
Temp should be above freezing to 6°C		Cooler Temp Read w/temp blank: <u>4.7</u> °C	
		Correction Factor: <u>-0.2</u>	Cooler Temp Corrected w/temp blank: <u>4.9</u> °C

USDA Regulated Soil: ☐ N/A (water sample) Other: _____ **Date/Initials of Person Examining Contents:** AW 7/25/22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.

Location (check one): <input type="checkbox"/> Duluth <input checked="" type="checkbox"/> Minneapolis <input type="checkbox"/> Virginia	COMMENTS:
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 1.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2.
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> N/A 3.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 4.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 5.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 6.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 7.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 8.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 9. <u>AW 7/25/22 112 containers reviewed</u>
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>infect</u>
Is sufficient information available to reconcile the samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 11. If no, write ID/ Date/Time on Container Below: See Exception <input checked="" type="checkbox"/> ENV-FRM-MIN4-0142
Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other-	
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> NaOH <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Positive for Res. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No See Exception <input type="checkbox"/> ENV-FRM-MIN4-0142
	Chlorine? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No pH Paper Lot#
	Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Headspace in Methyl Mercury Container?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 13. See Exception <input type="checkbox"/> ENV-FRM-MIN4-0140
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 14.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Pace Trip Blank Lot # (if purchased):

CLIENT NOTIFICATION/RESOLUTION	Field Data Required? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Person Contacted: _____	Date/Time: _____
Comments/Resolution: _____	

Project Manager Review: Isaac Johnson **Date:** 7/25/22

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: AW

DC#_Title: ENV-FRM-MIN4-0142 v01_Sample Condition Upon Receipt
(SCUR) Exception Form

Effective Date: 02/25/2022

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No																		
			If yes, indicate who was contacted/date/time. If no, indicate reason why.																		
			Multiple Cooler Project? <input type="checkbox"/> Yes <input type="checkbox"/> No																		
			If you answered yes, fill out information to the left.																		
			<table border="1"> <thead> <tr> <th colspan="3">No Temp Blank</th> </tr> <tr> <th>Read Temp</th> <th>Corrected Temp</th> <th>Average Temp</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	No Temp Blank			Read Temp	Corrected Temp	Average Temp												
No Temp Blank																					
Read Temp	Corrected Temp	Average Temp																			

[illegible][illegible]

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition? <input type="checkbox"/> Yes <input type="checkbox"/> No	Initials
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	

Comments:

2nd container upon receiving was found shattered and therefore unusable

Qualtrax ID: 52763

Page 1 of 1



Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDEInterference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = SeeDiscussion

REPORT OF LABORATORY ANALYSIS

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Report No.....10618289_1613TCDD_DFR

Report No.....10618289

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www.pacelabs.com

Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Method 1613B Sample Analysis Results

Client - Endyne, Inc.

Client's Sample ID	2207-19848 001 Effluent Grab		
Lab Sample ID	10618289001		
Filename	F220803C_16		
Injected By	MS4		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	07/20/2022 09:30
ICAL ID	F220529	Received	07/25/2022 10:00
CCal Filename(s)	F220803C_01	Extracted	07/29/2022 13:20
Method Blank ID	BLANK-100334	Analyzed	08/04/2022 08:57

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	ND	—	10	2,3,7,8-TCDD-13C	2.00	58
				Recovery Standard 1,2,3,4-TCDD-13C	2.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	0.20	82

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

R = Recovery outside target range
E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
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Method 1613B Blank Analysis Results

Lab Sample Name	DFBLKTV	Matrix	Water
Lab Sample ID	BLANK-100334	Dilution	NA
Filename	F220803C_05	Extracted	07/29/2022 13:20
Total Amount Extracted	1000 mL	Analyzed	08/04/2022 00:35
ICAL ID	F220529	Injected By	SM
CCal Filename(s)	F220803C_01		

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	ND	—	10	2,3,7,8-TCDD-13C	2.00	58
				Recovery Standard 1,2,3,4-TCDD-13C	2.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	0.20	75

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-100335	Matrix	Water
Filename	F220803C_02	Dilution	NA
Total Amount Extracted	997 mL	Extracted	07/29/2022 13:20
ICAL ID	F220529	Analyzed	08/03/2022 22:18
CCal Filename	F220803C_01	Injected By	SM
Method Blank ID	BLANK-100334		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDD	10	9.8	7.3	14.6	98
2,3,7,8-TCDD-37Cl4	10	9.3	3.7	15.8	93
2,3,7,8-TCDD-13C	100	68	25.0	141.0	68

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCSD-100336	Matrix	Water
Filename	F220803C_03	Dilution	NA
Total Amount Extracted	1000 mL	Extracted	07/29/2022 13:20
ICAL ID	F220529	Analyzed	08/03/2022 23:03
CCal Filename	F220803C_01	Injected By	SM
Method Blank ID	BLANK-100334		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDD	10	9.4	7.3	14.6	94
2,3,7,8-TCDD-37Cl4	10	8.8	3.7	15.8	88
2,3,7,8-TCDD-13C	100	50	25.0	141.0	50

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Report No.....10618289_1613TCDD_DFR

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Pace Analytical Services, LLC
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Method 1613B

Spike Recovery Relative Percent Difference (RPD) Results

Client Endyne, Inc.
Spike 1 ID LCS-100335 Spike 2 ID LCSD-100336
Spike 1 Filename F220803C_02 Spike 2 Filename F220803C_03

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDD	98	94	4.2

%REC = Percent Recovered

RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

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Report No.....10618289_1613TCDD_DFR

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Goodrich Corp Fuel Uty Systems

Endyne Inc. COC

2207-19848

Prepared: 6/23/22



2207-19848

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accountingr

Cust # 070

DECRFP

W-70233C

Stone Environmental, Inc.
Goodrich Corp Fuel Uty Systems

Page 1 of 1

Effluent Grab

Sampled Date/Time: 7/21/22 @ 9:30

Sampler: GPF

pH Client Data 7.72

Cyanide, Total 1 - 8 oz Plastic for CN ✓ <6C, NaOH Na2S2O3, Cl2

Dioxins, Sub-contracted 2-1L Amber Glass ✓ <6C, pH 5-9

Pests, Priority Pollutant 4-1L Amber Glass ✓ <6C, Na2S2O3, pH 5-9
SVOC Priority Pollutants

Aluminum, Total 1 - 16 oz Plastic Total Metals HNO3 pH< 2

Cadmium, Total

Chromium, Total

Copper, Total

Lead, Total

Nickel, Total

Silver, Total

Zinc, Total

VOC Priority Pollutants 2 - 40ml vials ✓ <6C, Na2S2O3

Trip Blank

Sampled Date/Time: 7/21/22 @ 9:30

Sampler: GPF

VOC Priority Pollutants 2 - 40ml vials ✓ <6C, Na2S2O3

One or more sample bottles in this project must be
kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the
temperature preservation requirements are not satisfied.

INITIAL HERE

Relinquished by: Andrew Fish 7/20/22 11:55 AM

Date Time

Accepted by: Eileen Torrey 7/20/22 11:53

Date Time

Relinquished by: Received by:

Date Time

Date Time

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PC#)

Requested Turnaround Time: Routine: Rush Due Date

Delv: Client
Temp C: 15.2
Comment:

Temp Ck
Log by

Lab use Only



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Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.		PROJECT: St Albans Creamery, LLC
535 Stone Cutters Way	070233	WORK ORDER: 2207-18158
Montpelier, VT 05602		DATE RECEIVED: July 07, 2022
		DATE REPORTED: July 13, 2022
Atten: Meghan Arpino		SAMPLER: AF

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

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Laboratory Report

DATE REPORTED: 07/13/2022

CLIENT: Stone Environmental, Inc.
 PROJECT: St Albans Creamery, LLC

WORK ORDER: **2207-18158**
 DATE RECEIVED: 07/07/2022

001 Site: Effluent Composite Date Sampled: 7/7/22 Time: 8:36

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	7.90	SU at ___C	Client Data	7/7/22 8:36	W CLI	N	
BOD-5day	580	mg/L	SM 5210B(16)	7/8/22 10:00	W JSS	A	
Phosphorus, Total	1.5	mg/L	EPA 365.1, R.2(1993)	7/12/22	N MAP	A	
Solids, Total Suspended	123	mg/L	SM 2540 D-15	7/12/22	W JSS	A	

St Albans Creamery, LLC

Endyne Inc. COC

2207-18158

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Prepared: 6/23/22

Cust # 0:

DECRF

W-7025



2207-18158

Stone Environmental, Inc.
St Albans Creamery, LLC

Effluent Grab

Composite

Sampled Date/Time:

7/7/22 @ 8:36

Sampler:

DAF

pH Client Data *7.90*

BOD-5day

1 - 8 oz Plastic

<6C

Solids, Total Suspended

Phosphorus, Total

1 - 60ml Vial

<6C, H2SO4

*composite - 7:30 7/6/22
8:30 7/7/22*

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

INITIAL

Relinquished by:

Andrew Feil

Date Time

7/7/22 10:25am

Accepted by:

Chen Lomay

Date Time

7/7/22 10:25

Relinquished by:

Sites/Parameters correct as listed. Client Initials ☒

Date Time

Date Time

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☒ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv. Client

Temp C: *-3.4*

Comment:

Temp Ck

Log by

Lab use Only



ENDYNE Inc.

www.endynelabs.com

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Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.
535 Stone Cutters Way 070233
Montpelier, VT 05602
Atten: Meghan Arpino

PROJECT: Magic Hat Brewing
WORK ORDER: 2207-17857
DATE RECEIVED: July 06, 2022
DATE REPORTED: July 13, 2022
SAMPLER: APH

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com



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56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 07/13/2022

CLIENT: Stone Environmental, Inc.
 PROJECT: Magic Hat Brewing

WORK ORDER: **2207-17857**
 DATE RECEIVED: 07/06/2022

001 Site: Effluent Grab Date Sampled: 7/6/22 Time: 10:30

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	8.46	SU at ___C	Client Data	7/6/22 10:30	W CLI	N	
BOD-5day	81	mg/L	SM 5210B(16)	7/7/22 13:14	W JSS	A	
Phosphorus, Total	46	mg/L	EPA 365.1, R.2(1993)	7/12/22	N MAP	A	

Magic Hat Brewing

Endyne Inc. COC

2207-17857

Prepared: 6/16/22

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust #

DECI

W-702



2207-17857

Stone Environmental, Inc.
Magic Hat Brewing

Page 1 of 1

Effluent GrabSampled Date/Time: 7/6/22 @ 10:30 Sampler: APH

pH Client Data	<u>B.46</u>	
BOD-5day	<u>1 - 8 oz Plastic</u>	<u><6C</u>
Phosphorus, Total	<u>4 - 60 ml Vial</u>	<u><6C, H2SO4</u>

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

APH

INITIAL

Relinquished by: [Signature] 7/6/22 11:08 AM

Date Time

Accepted by:

Relinquished by: _____

Date Time

Received by: [Signature]

Date Time

Date Time

Sites/Parameters correct as listed. Client Initials _____

Client Authorization to use Subcontract lab Client Initials _____

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#) _____

Requested Turnaround Time: Routine: Rush Due Date _____

Delv: CS
Temp C: 5.9
Comment:

Temp Ck
Log by

Lab use Only



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Independent Compliance Sampling of Process Wastewater at Vermont's Significant Industrial Users: August 2022 Monthly Report



PROJECT NO.

20221085

REVIEWED BY:

APH

PREPARED FOR:

Nick Giannetti / Pretreatment Coordinator
VT Agency of Natural Resources
Department of Environmental Conservation
Wastewater Management Division
1 National Life Drive, Davis 3
Montpelier / VT / 0502

SUBMITTED BY:

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Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier / VT 05602
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845.323.3436

Compliance Sampling of SIUs: June 2022 Monthly Report

Cover Photo:
Wastewater tanks
at VT Hard
Cider.

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1. Sampling Summary and Schedule

A summary of the sampling activities completed at each Significant Industrial User (SIU) facility sampled during August 2022 is provided in Table 1. A total of 10 SIU facilities were sampled in August. Sampling events are described in more detail in the following sections. Photos from sampling events are provided in Appendix A. Laboratory reports, including analytical results and chain of custody (COC) forms documenting sample collection and delivery to the analytical laboratory, are provided in Appendix B. There are several instances where the laboratory recorded temperature upon receipt is greater than 6°C or lower than 0°C. We believe this is due to the receiving procedures at the laboratory and/or insufficient time for samples to cool down between collection and delivery, as all samples were stored and delivered in coolers with ice and none were frozen.

Table 1: Summary of sampling events completed in August 2022

Facility Sampled	Date(s)	Parameters Sampled or Measured
Commonwealth Dairy	8/25/2022 – 8/26/2022	Oil & Grease, BOD ₅ , TSS
Drews	8/9/2022 – 8/10/2022	Oil & Grease, BOD ₅
General Electric Columbian Ave	8/4/2022 – 8/5/2022	Total Metals, Cyanide, TTO, pH, Dioxin
General Electric Windcrest Ave	8/2/2022 – 8/3/2022	Total Metals, Cyanide, TTO, pH, Dioxin, Duplicate QC
G.S. Precision Coating	8/16/2022 – 8/17/2022	Total Metals, Cyanide, TTO, pH, Dioxin
Plumrose	8/1/2022 – 8/2/2022	BOD ₅ , pH
Rock Art Brewery	8/17/2022	BOD ₅ , TSS, TP, pH
Trapp Brewing	8/18/2022 – 8/19/2022	BOD ₅ , TSS, pH
Vishay	8/30/2022	Cyanide, TTO, pH
VT Hard Cider	8/18/2022	Total Metals, Cyanide, TTO, pH, Dioxin

1.1. Commonwealth Dairy

Commonwealth Dairy was sampled from 8/25/2022 to 8/26/2022. The facility's ISCO 4700 sampler and Endress-Hausser magnetic meter (mag meter) were inspected by sampling personnel and used for composite sample collection. The sampler temperature was set to 2.5°C. The autosampler was programmed to sample 60 ml every 10 minutes or 830 gallons. The pump delivered consistent flow and no samples

were collected when the pump was off. 24-hour composite samples were collected for Biochemical Oxygen Demand (BOD-5day) and Total Suspended Solids (TSS). A total of 110763 gallons were discharged from 8/25/2022 at 9:45:41 to 8/2/2022 at 9:45:41. No equipment errors or malfunctions were encountered.

Grab samples for pH and Oil and Grease were collected from a spigot on the effluent line (Figure 3). A grab pH measurement was taken at 9:50 am on 8/26/2022 using a handheld pH meter, with a resulting pH of 7.59. A grab sample for Oil & Grease was also collected at 9:50 am on 8/26/2022.

Samples were delivered to the analytical laboratory in a cooler with ice. Lab results were reported on 9/9/2022 and are provided in Appendix B, including a qualifier for the Oil and Grease sample indicating that the sample was not preserved to a pH <2. Possibly due to the lack on acid in the sample collection bottle.

1.2. Drew's

Drew's LLC was sampled from 7:30 am on 8/9/2022 to 7:30 am 8/10/2022. The facility's Global Water WS700 autosampler programed to collect 200 ml every 20 minutes into a carboy. The autosampler maintained a temperature of 4°C during sampling. The 50-gallon drum that discharges is emptied and refilled every 10 minutes. The total volume discharged was 4500 gallons. A 24-hour composite BOD-5day sample was collected. Grab samples were collected for pH and Oil & Grease at 7:30 am on 8/10/2022. The grab sample pH reading was 7.96. Samples were delivered to the analytical laboratory in a cooler with ice within 3 hours of sample collection. Sample results were reported for Oil & Grease and BOD-5day on 8/29/2022, there were no qualifiers for the samples or analysis. The sample temperature recorded upon receipt was > 6°C, possibly due to insufficient time for the grab sample to cool between collection and delivery to the lab.

1.3. General Electric Columbian Ave

The General Electric Columbian Ave facility was sampled from 8:00 am 8/4/2022 to 8:00 am 8/5/2022. A 24-hour flow-proportioned composite sample was collected for Total Metals analysis. Grab samples were collected for a pH reading and for cyanide, dioxin, PCBs/Pesticides, SVOCs, and VOCs. The composite sample was collected using the facility's ISCO 3700 autosampler connected to an ISCO Signature Series flowmeter. The autosampler was programmed to collect 150 ml aliquots every 800 gallons and to maintain a refrigerator temperature <6°C. The grab samples were collected from the effluent end of the Parshall flume at 7:49 am on 8/5. The measured pH was 7.01. Samples were delivered to the analytical laboratory in a cooler with ice on the same day as collect (8/5/2022). Sample results were reported on 9/1/2022 and are provided in Appendix A. Laboratory Fortified Matrix analysis had a recovery lower than the defined acceptance limits for benzidine and 3,3'-Dichlorobenzidine.

1.4. General Electric Windcrest Ave

The General Electric Windcrest Ave facility was sampled from 10:00 am 8/2/2022 to 10:30 am 8/3/2022. A 24-hour flow-proportioned composite sample was collected for Total Metals analysis. Grab samples were collected for a pH reading and for cyanide, dioxin, PCBs/Pesticides, SVOCs, and VOCs. The composite sample was collected using the facility's ISCO 3700 autosampler connected to an ISCO Signature Series flowmeter. The autosampler was programmed to collect 150 ml aliquots every 4300 gallons and to maintain a refrigerator temperature <6°C. The total volume discharged over the sampling period was 99,079 gallons. The grab samples were collected from the effluent end of the Parshall flume at 10:36 am on 8/3. The measured pH was 7.10.

Duplicate samples were collected for Total Metals, cyanide, PCBs/Pesticide, SVOC, and VOC analysis. However, the lab report received on 9/8/2022 indicates that the duplicate VOC sample was not analyzed. We are following up with the lab and sampling personnel to identify the reason the VOC sample was not analyzed.

Samples were delivered to the analytical laboratory in a cooler with ice on the same day as collected (8/3/2022). Sample results were reported on 9/8/2022 and are provided in Appendix A.

1.5. G.S. Precision Coating

Sampling was completed at G.S. Precision Coating from 10:30 am 8/16/22 to 10:30 am 8/17/2022. There was no autosampler setup at G.S. Precision, instead the composite sample is collected from a constant drip from a spigot on a 2" PVC pipe. The facility also did not have a flow meter or flow measuring device. Instead, measurements were taken of the depth of water in the tank and the number of discharges was counted. The composite sample consisted of 9 ml aliquots collected from the constant drip from the tanks, it was noted that the flow rate should be increased. Grab samples were collected for cyanide, dioxin, PCB/pesticides, SVOC, and VOC analysis and for pH measurement 10:40 on 8/17/2022. The pH measurement was 6.89. The samples were delivered to the lab in a cooler with ice on 8/17/2022. The lab results have not yet been reported.

1.6. Plumrose

Plumrose sampling was originally scheduled for 7/26/2022 to 7/27/2022; however the distributor arm on the autosampler jammed overnight. The autosampler was redeployed and successfully collected samples from 22:00 8/1/2022 to 6:00 8/2/2022, the only period of discharge during the 24 hours. It was difficult to avoid the standing water at the sampling location, the sample intake was placed downstream of the v-notch weir to collect as representative samples as possible of the discharge water. An ISCO 6712 autosampler deployed with ice in its base was programmed to collect 200 ml aliquots every 15 minutes into 1 L bottles. Each 1-liter bottle represented an hour. The samples were manually composited proportional to the hourly flow rate to create a flow-proportioned sample for BOD5 analysis. One Oil and Grease grab sample was collected at 11:10 pm on 8/1/2022. A replicate sample was also collected, but not analyzed due to miscommunication with the laboratory. A grab sample pH measurement was taken at 23:10 pm on 8/1/2022. The measured pH was 5.04. The grab samples were taken from the flowing area just upstream of the v-notch weir. Samples were delivered to the lab in a cooler with ice on 8/3/2022 and results reported on 8/9/2022.

1.7. Rock Art Brewery

Rock Art Brewery was sampled on 8/17/2022. Three grab samples were collected and composited from a single batch discharge that occurred from 15:51 to 16:08. The 200 ml grab samples were collected at the beginning, middle, and end of the batch discharge and combined in a carboy. Samples were mixed before decanting into sample bottles for BOD-5day, TSS, and TP analysis. A separate grab sample was collected for pH measurement at 15:59 on 8/17/2022. The resulting pH was 7.09. The samples were packed in a cooler with dry ice and delivered to the lab on 8/18/2022. The results were reported on 8/26/2022. There was a qualifier listed in the lab report for the TP analysis stating the Laboratory Fortified Matrix had low recovery, indicating that results may have a potential negative bias and/or the sample matrix was difficult.

1.8. Trapp Brewing

A time-paced composite sample was collected at Trapp Brewing from 8:28 am 8/2/2022 to 13:55 8/2/2022 for BOD-5day and TP analysis. The flow meter at Trapp Brewing is not connected to the autosampler equipment. Instead, samples were collected every 15 minutes that spanned 12 equal volume and rate tank discharges. The autosampler maintained a refrigerator temperature of 4°C over the course of sample collection. A grab sample was collected for pH measurement using a handheld meter at 14:06 8/2/22. The measured pH was 7.44. The samples were packed into a cooler with ice and delivered to the lab on 8/3/2022. Lab results were reported on 8/11/2022 and are provided in Appendix B.

1.9. Vermont Precision Tools

Vermont Precision Tools was sampled in July 2022, however laboratory results were unavailable at the time of the July 2022 monthly report. Laboratory results for this sample event are provided in Appendix B.

1.10. Vishay Tansitor

Sampling for TTO and pH at Vishay Tansitor occurred on 8/30/2022. Grab samples were collected from the 100 gal equalization tank for PCB/pesticides, SVOCs, and VOCs at 10:42 on 8/30/2022 and delivered to the lab in a cooler with ice on 8/30/2022. Due to oversight, a dioxin sample was not included on the Endyne laboratory COC and therefore not collected for Vishay. Vishay is a facility with a dioxin exemption writing into their permit. Laboratory results for the other parameters listed in Vishay's permit are provided in Appendix B.

1.11. VT Hard Cider

A flow-proportional composite sample for BOD-5day and TSS analysis was collected at VT Hard Cider from 9:30 on 8/18/2022 to 9:30 on 8/19/2022. Field notes indicate that the initial sampling event that started on 8/17/2022 failed, so the facility was resampled the following day. The facility's Sigma 5800 autosampler was programmed to collect 50 ml aliquots every 150 pulses (or approximately every 2250 gallons). A grab sample pH measurement was taken at 14:25 on 8/18/2022. The measured pH was 7.04. The samples were delivered to the lab in a cooler with ice on 8/19/2022. Sample results were reported on 8/26/2022 and are provided in Appendix B.

1.12. Updated Sampling Schedule

An updated sampling schedule as of September 13, 2022 is provided in Table 2. The three remaining facilities are Fiddlehead Brewing, scheduled for the week of September 19-23, as well as Ben and Jerry's St Albans and Lost Nation Brewery, both of which are scheduled for the week of September 26 – 30.

Table 2: Updated sampling schedule for June – September 2022.

Facility Name	Scheduled Sampling Date
Agri-Mark - Middlebury	7/12/2022 - 7/14/2022*
Alchemist - Stowe	9/7/2022*
Alchemist - Waterbury	7/12 setup, 7/14 pickup*
Ben & Jerry's - St Albans	9/27/2022
Ben & Jerrys - Waterbury	7/7/2022*
Commonwealth Dairy	8/25/2022*
Drews LLC	8/9/2022*

Edlund Company	6/28/2022*
Fiddlehead Brewing	9/19/2022-9/23/2022
Franklin Foods Inc	8/31/2022 – 9/1/2022
G.S. Precision Coating, Inc	8/16/2022-8/17/2022
General Electric - Columbian Ave	8/4/2022-8/5/2022*
General Electric - Windcrest Road	8/2/2022*
Goodrich Corp Fuel Utility Systems	7/19/2022-7/20/2022*
Lost Nation Brewery	9/29/2022
Magic Hat Brewing (Zero Gravity)	7/5-7/6*
Otter Creek Brewing	6/28-6/29*
Plumrose USA	8/1/2022 – 8/2/2022*
Rock Art Brewery LLC	8/17/2022*
St Albans Creamery, LLC	7/5/2022*
Trapp Lager Brewery	8/2/2022*
Vishay Tansitor	8/30/2022
VT Hard Cider - Exchange St	8/17/2022-8/18/2022*
VT Precision Tools	7/26/2022*

**Sampling has been completed or is in process and summary will be included in the next monthly report*

Appendix A: Photos

Commonwealth Dairy



Figure 1. Commonwealth autosampler.



Figure 2. Commonwealth manhole and flume.



Figure 3. Grab sample collection point on effluent line.

Drews



Figure 4. Drews sampling location.



Figure 5. Drews refrigerated autosampler.

General Electric Columbian Ave



Figure 6. General Electric Columbian Ave autosampling location.

General Electric Windcrest Ave



Figure 7. GE Windcrest flume.



Figure 8. GE Windcrest flow recording wheel.

G.S. Precision Coating



Figure 9. Zero Gravity Brewery autosampler.



Figure 10. Zero Gravity Brewery discharge pipe with inline flow meter.

Plumrose



Figure 11. Plumrose sampling location.



Figure 12. Stone autosampler setup for collecting a manually flow proportioned sample.

Rock Art Brewery



Figure 13. Wastewater tank at Rock Art Brewery.



Figure 14. Effluent pipe and grab sample location at Rock Art.

Trapp Brewing



Figure 15. Grab sample location at Trapp Brewing.



Figure 16. Autosampler at Trapp Brewing

Vishay Tansitor



Figure 17. Grab sample location at Vishay Tansitor.



Figure 18. Grab sample collection process at Vishay Tansitor.

VT Hard Cider

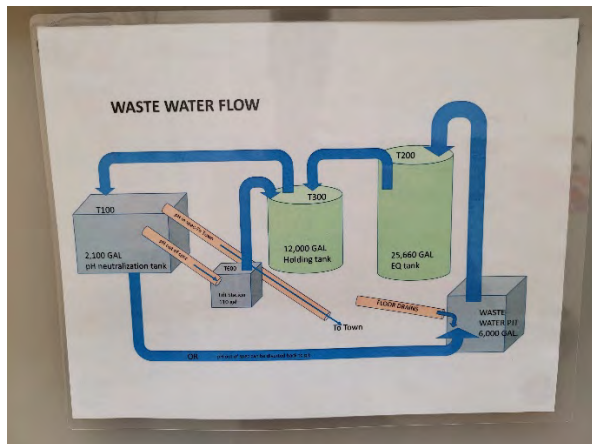


Figure 19. VT Hard Cider wastewater flow diagram.



Figure 20. VT Hard Cider grab sample location.



Figure 21. VT Hard Cider autosampler and thermometer.

Appendix B: Laboratory Reports and COCs



Laboratory Report

Stone Environmental, Inc. 070233
535 Stone Cutters Way
Montpelier, VT 05602

PROJECT: Commonwealth Dairy
WORK ORDER: 2208-24199
DATE RECEIVED: August 26, 2022
DATE REPORTED: September 09, 2022
SAMPLER: ADF

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody located at the end of this report.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

This NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Alexander J Rakotz
Laboratory Director Lebanon, NH

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160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

ELAP 11263



56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893

NH2037

Laboratory Report

DATE REPORTED: 09/09/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Commonwealth Dairy

WORK ORDER: **2208-24199**
DATE RECEIVED: 08/26/2022

001	Site: Effluent Grab			Date Sampled: 8/26/22		Time: 9:52			
<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>		<u>Lab/Tech</u>		<u>NELAC</u>	<u>Qual.</u>
pH per Client	7.59	SU at __C	Client Data	8/26/22	9:50	W	CLI	N	
Oil & Grease Total Recoverable	14.9	mg/L	EPA 1664A	9/7/22		W	CLD	A	P2
002	Site: Effluent Composite			Date Sampled: 8/26/22		Time: 10:00			
<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>		<u>Lab/Tech</u>		<u>NELAC</u>	<u>Qual.</u>
BOD-5day	820	mg/L	SM20 5210B	8/26/22	15:42	R	VGR	A	
Solids, Total Suspended	180	mg/L	SM20 2540D	8/29/22	12:34	R	VGR	A	

Report Summary of Qualifiers and Notes

P2: The sample was not preserved to a pH < 2.

Commonwealth Dairy

Endyne Inc. CCC

Prepared: 6/22/22

2208-24199

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust #

DI

W-1



Stone Environmental, Inc.
Commonwealth Dairy

Effluent Grab

Sampled Date/Time: 8/26/22 @

Sampler: 007

pH Client Data 7.59 at 9:52 am 8/26

Oil & Grease 1-Liter & 1-8 oz Amber Glass <6C, HCl

BOD-5day 1 - 16 oz Plastic <6C
Solids, Total Suspended

comp

5/25/22 - 8/26/22
10 am - 10 am

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with anaerobic temperature preservation requirements are:



Relinquished by: Andrew Fish

Accepted by:

Relinquished by:

Received by: DMV

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab. Client Initials

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv:

Temp C: 8.4
Comment: C

Temp Ck
Log by

Lab use Only



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315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Laboratory Report

Stone Environmental, Inc. 070233
535 Stone Cutters Way
Montpelier, VT 05602

PROJECT: Drews LLC

WORK ORDER: **2208-22327**

DATE RECEIVED: August 10, 2022

DATE REPORTED: August 29, 2022

SAMPLER: ADF

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody located at the end of this report.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

This NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers.

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Reviewed by:

Alexander J Rakotz
Laboratory Director Lebanon, NH

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ELAP 11263

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56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



NH2037

Laboratory Report

DATE REPORTED: 08/29/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Drews LLC

WORK ORDER: **2208-22327**
DATE RECEIVED: 08/10/2022

001 Site: Effluent Grab Date Sampled: 8/10/22 Time: 7:30

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	7.96	SU at __C	Client Data	8/10/22 7:30	W CLI	N	
Oil & Grease Total Recoverable	< 2.0	mg/L	EPA 1664A	8/25/22	W CLD	A	

002 Site: Effluent Composite Date Sampled: 8/10/22 Time: 7:30

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	7.96	SU	Client Data	8/10/22 7:30	W CLI	N	
BOD-5day	82	mg/L	SM20 5210B	8/10/22 16:04	R AJR	A	

Drews LLC

Endyne Inc. COC

2208-22327

Prepared: 6/23/22



2208-22327

Bill to:
Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:
Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust # 070

DECRFF

W-70233

Stone Environmental, Inc.
Drews LLC

Effluent Grab

Sampled Date/Time: 8/10/22 @ 7:30am Sampler: ADD

pH Client Data 7.96

Oil & Grease

1-1L & 1 - 8 oz Amber Glass

<6C, HCl

BOD-5day

1 - 1/2 gal Plastic

<6C

→ composite 7:30am 8/9 - 7:30am 9/10/22

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.



Relinquished by:

Andrew Felt 8/10/22 10:15

Accepted by:

Relinquished by:

Received by:

MS 8/10/22 12:15

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv:

Temp C:

Comment:

17.0 low

Temp Ck

Log by

Lab use Only



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Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: General Electric-Columbian Ave

WORK ORDER: **2208-21878**

DATE RECEIVED: August 05, 2022

DATE REPORTED: September 01, 2022

SAMPLER: Andy Fish

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

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Laboratory Report

DATE REPORTED: 09/01/2022

CLIENT: Stone Environmental, Inc.
PROJECT: General Electric-Columbian Ave

WORK ORDER: 2208-21878
DATE RECEIVED: 08/05/2022

001	Site: Effluent Grab		Date Sampled: 8/5/22		Time: 7:49			
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.	
pH per Client	7.01	SU at __ C	Client Data	8/5/22 7:49	W CLI	N		
Cyanide, Total	< 0.010	mg/L	EPA 335.4, R.1(1993)	8/10/22	N MAP	A		
Metals Digestion	Digested		EPA 200.7/200.8	8/12/22	W MGT	A		
Cadmium, Total	< 0.0005	mg/L	EPA 200.8	8/15/22 15:19	W SJM	A		
Chromium, Total	0.0080	mg/L	EPA 200.8	8/15/22 15:19	W SJM	A		
Copper, Total	0.0023	mg/L	EPA 200.8	8/15/22 15:19	W SJM	A		
Lead, Total	< 0.0010	mg/L	EPA 200.8	8/15/22 15:19	W SJM	A		
Nickel, Total	0.0120	mg/L	EPA 200.8	8/15/22 15:19	W SJM	A		
Silver, Total	< 0.010	mg/L	EPA 200.8	8/15/22 15:19	W SJM	A		
Zinc, Total	< 0.020	mg/L	EPA 200.8	8/15/22 15:19	W SJM	A		
Dioxins, Sub-contracted	See Attached		Attached	8/24/22	SWSUB	N	SPA	
VOC Priority Pollutants								
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	8/5/22	W TRP	A		
Chloromethane	< 3.0	ug/L	EPA 624.1	8/5/22	W TRP	A		
Vinyl chloride	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A		
Bromomethane	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A		
Chloroethane	< 5.0	ug/L	EPA 624.1	8/5/22	W TRP	A		
Acrolein	< 5.0	ug/L	EPA 624.1	8/5/22	W TRP	A		
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	8/5/22	W TRP	A		
Acetone	31.7	ug/L	EPA 624.1	8/5/22	W TRP	N		
Methylene chloride	< 5.0	ug/L	EPA 624.1	8/5/22	W TRP	A		
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A		
Acrylonitrile	< 5.0	ug/L	EPA 624.1	8/5/22	W TRP	A		
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A		
Chloroform	11.9	ug/L	EPA 624.1	8/5/22	W TRP	A		
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A		
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A		
Benzene	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A		
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A		
Trichloroethene	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A		
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A		
Bromodichloromethane	1.1	ug/L	EPA 624.1	8/5/22	W TRP	A		
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	8/5/22	W TRP	A		
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A		
Toluene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A		
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A		
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A		
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A		
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A		
Chlorobenzene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A		
Ethylbenzene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A		
Xylenes, Total	< 2.0	ug/L	EPA 624.1	8/5/22	W TRP	A		
Bromoform	< 2.0	ug/L	EPA 624.1	8/5/22	W TRP	A		
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	8/5/22	W TRP	A		
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A		
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A		

**ENDYNE Inc.**

www.endynelabs.com

Laboratory Report

DATE REPORTED: 09/01/2022

CLIENT: Stone Environmental, Inc.
PROJECT: General Electric-Columbian Ave

WORK ORDER: 2208-21878
DATE RECEIVED: 08/05/2022

001	Site: Effluent Grab		Date Sampled: 8/5/22		Time: 7:49	
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC Qual.
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A
Naphthalene	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	U
Surr. 1 (Dibromofluoromethane)	100	%	EPA 624.1	8/5/22	W TRP	A
Surr. 2 (Toluene d8)	99	%	EPA 624.1	8/5/22	W TRP	A
Surr. 3 (4-Bromofluorobenzene)	99	%	EPA 624.1	8/5/22	W TRP	A
Unidentified Peaks	1		EPA 624.1	8/5/22	W TRP	U
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	8/5/22	W TRP	A
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	8/5/22	W TRP	A
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	8/5/22	W TRP	A
Priority Pollutant Pesticides						
Sep Funnel Extraction	Completed		EPA 608.3	8/10/22	W CLD	A
alpha-BHC	< 0.009	ug/L	EPA 608.3	8/12/22	W DPD	A
gamma-BHC (Lindane)	< 0.012	ug/L	EPA 608.3	8/12/22	W DPD	A
beta-BHC	< 0.018	ug/L	EPA 608.3	8/12/22	W DPD	A
delta-BHC	< 0.027	ug/L	EPA 608.3	8/12/22	W DPD	A
Heptachlor	< 0.009	ug/L	EPA 608.3	8/12/22	W DPD	A
Aldrin	< 0.012	ug/L	EPA 608.3	8/12/22	W DPD	A
Heptachlor Epoxide	< 0.249	ug/L	EPA 608.3	8/12/22	W DPD	A
4,4'-DDE	< 0.012	ug/L	EPA 608.3	8/12/22	W DPD	A
Endosulfan I	< 0.042	ug/L	EPA 608.3	8/12/22	W DPD	A
Dieldrin	< 0.006	ug/L	EPA 608.3	8/12/22	W DPD	A
Endrin	< 0.018	ug/L	EPA 608.3	8/12/22	W DPD	A
4,4'-DDD	< 0.033	ug/L	EPA 608.3	8/12/22	W DPD	A
Endosulfan II	< 0.012	ug/L	EPA 608.3	8/12/22	W DPD	A
4,4'-DDT	< 0.036	ug/L	EPA 608.3	8/12/22	W DPD	A
Endrin Aldehyde	< 0.070	ug/L	EPA 608.3	8/12/22	W DPD	A
Endosulfan Sulfate	< 0.198	ug/L	EPA 608.3	8/12/22	W DPD	A
Methoxychlor	< 0.1	ug/L	EPA 608.3	8/12/22	W DPD	A
Chlordane	< 0.150	ug/L	EPA 608.3	8/12/22	W DPD	A
Toxaphene	< 0.720	ug/L	EPA 608.3	8/12/22	W DPD	A
Aroclor 1016 (PCB-1016)	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A
Aroclor 1221 (PCB-1221)	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A
Aroclor 1232 (PCB-1232)	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A
Aroclor 1242 (PCB-1242)	< 0.095	ug/L	EPA 608.3	8/11/22	W DPD	A
Aroclor 1248 (PCB-1248)	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A
Aroclor 1254 (PCB-1254)	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A
Aroclor 1260	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A
Surrogate-TCMX	75	%	EPA 608.3	8/12/22	W DPD	A
Surrogate-DCB	80	%	EPA 608.3	8/12/22	W DPD	A
SVOC Priority Pollutants						
Extraction EPA 3510C	Completed		EPA 3510C	8/12/22	W CLD	A
N-Nitrosodimethylamine	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A
Bis(2-chloroethyl)ether	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A
2,2'-Oxybis(1-chloropropane	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A
N-Nitrosodi-n-propylamine	< 10.0	ug/L	EPA 625.1	8/18/22	W EEP	A
Hexachloroethane	< 2.0	ug/L	EPA 625.1	8/18/22	W EEP	A

**ENDYNE Inc.**

www.endynelabs.com

Laboratory Report

DATE REPORTED: 09/01/2022

CLIENT: Stone Environmental, Inc.
PROJECT: General Electric-Columbian Ave

WORK ORDER: 2208-21878
DATE RECEIVED: 08/05/2022

001	Site: Effluent Grab		Date Sampled: 8/5/22		Time: 7:49		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Nitrobenzene	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Isophorone	< 2.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Bis(2-chloroethoxy)methane	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Naphthalene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Hexachlorobutadiene	< 2.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Hexachlorocyclopentadiene	< 20.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
2-Chloronaphthalene	< 2.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Dimethyl phthalate	< 2.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
2,6-Dinitrotoluene	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Acenaphthylene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Acenaphthene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
2,4-Dinitrotoluene	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Fluorene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Diethyl phthalate	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
N-Nitrosodiphenylamine	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Azobenzene	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Hexachlorobenzene	< 1.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Phenanthrene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Anthracene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Di-n-butylphthalate	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Fluoranthene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Benzidine	< 20.0	ug/L	EPA 625.1	8/18/22	W EEP	A	M-
Pyrene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Butyl benzyl phthalate	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Benzo(a)anthracene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Chrysene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	M-
Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Di-n-octylphthalate	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Benzo(b)fluoranthene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Benzo(k)fluoranthene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Benzo(a)pyrene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Indeno(1,2,3-cd)pyrene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Dibenzo(a,h)anthracene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Benzo(g,h,i)perylene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Phenol	< 2.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
2-Chlorophenol	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
2-Nitrophenol	< 10.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
2,4-Dimethylphenol	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
2,4-Dichlorophenol	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
4-Chloro-3-methylphenol	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
2,4,6-Trichlorophenol	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
2,4-Dinitrophenol	< 20.0	ug/L	EPA 625.1	8/18/22	W EEP	A	

Laboratory Report

DATE REPORTED: 09/01/2022

CLIENT: Stone Environmental, Inc.
PROJECT: General Electric-Columbian Ave

WORK ORDER: 2208-21878
DATE RECEIVED: 08/05/2022

001	Site: Effluent Grab			Date Sampled: 8/5/22	Time: 7:49		
<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
4-Nitrophenol	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Pentachlorophenol	< 10.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
B/N Surr.1 Nitrobenzene-d5	83	%	EPA 625.1	8/18/22	W EEP	A	
B/N Surr.2 2-Fluorobiphenyl	88	%	EPA 625.1	8/18/22	W EEP	A	
B/N Surr.3 Terphenyl-d14	106	%	EPA 625.1	8/18/22	W EEP	A	
Acid Surr.1 2-Fluorophenol	31	%	EPA 625.1	8/18/22	W EEP	A	
Acid Surr.2 Phenol-d5	27	%	EPA 625.1	8/18/22	W EEP	A	
Acid Surr.3 Tribromophenol	82	%	EPA 625.1	8/18/22	W EEP	A	
Unidentified Peaks	>10		EPA 625.1	8/18/22	W EEP	U	

002	Site: Trip Blank		Date Sampled: 8/5/22		Time: 7:49		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
VOC Priority Pollutants							
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	8/5/22	W TRP	A	
Acetone	< 10.0	ug/L	EPA 624.1	8/5/22	W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Chloroform	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	8/5/22	W TRP	A	

**ENDYNE Inc.**

www.endynelabs.com

Laboratory Report

DATE REPORTED: 09/01/2022

CLIENT: Stone Environmental, Inc.
 PROJECT: General Electric-Columbian Ave

WORK ORDER: **2208-21878**
 DATE RECEIVED: 08/05/2022

002	Site: Trip Blank		Date Sampled: 8/5/22		Time: 7:49		
<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	U	
Surr. 1 (Dibromofluoromethane)	101	%	EPA 624.1	8/5/22	W TRP	A	
Surr. 2 (Toluene d8)	101	%	EPA 624.1	8/5/22	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	100	%	EPA 624.1	8/5/22	W TRP	A	
Unidentified Peaks	0		EPA 624.1	8/5/22	W TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	8/5/22	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	8/5/22	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	8/5/22	W TRP	A	

Report Summary of Qualifiers and Notes

M-: The Laboratory Fortified Matrix (LFM) analysis had a recovery lower than defined acceptance limits. This indicates a potential negative bias in the reported value or a difficult sample matrix that resulted in poor reproducibility between sample aliquots selected for analysis.

SPA: Analysis performed by subcontracted laboratory, Pace Analytical, with the following state assigned laboratory ID numbers; VT0282, NY10888, NH2974. The complete subcontracted report has been appended to this report.

Report Prepared for:

Eileen Toomey
Endyne, Inc.
160 James Brown Drive
Williston VT 05495

**REPORT OF
LABORATORY
ANALYSIS FOR
TCDD**

Report Prepared Date:

August 30, 2022

Report Information:

Pace Project #: 10621412
Sample Receipt Date: 08/16/2022
Client Project #: 2206-21878-W
Client Sub PO #: N/A
State Cert #: N/A

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 2,3,7,8-TCDD Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Isaac Johnson, your Pace Project Manager.

This report has been reviewed by:



August 30, 2022

Isaac Johnson, Project Manager
(612) 607-1700
(612) 607-6444 (fax)
isaac.johnson@pacelabs.com



Report of Laboratory Analysis

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The results relate only to the samples included in this report.

DISCUSSION

This report presents the results from the analysis performed on one sample submitted by a representative of Endyne, Inc. The sample was analyzed for the presence or absence of 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) using USEPA Method 1613B. The reporting limits were set to correspond to the lowest calibration point and a nominal 1-Liter sample amount, and the sensitivity was verified by signal-to-noise measurements. The quantitation limits, adjusted for sample extraction amount, may be somewhat higher or lower than the reporting limits provided in this report. The sample was received above the recommended temperature range of 0-6 degrees Celsius.

The isotopically-labeled TCDD internal standard in the sample extract was recovered at 50%. All of the labeled standard recoveries obtained for this project were within the target ranges specified in Method 1613B. Also, since the quantification of the native TCDD was based on isotope dilution, the data were automatically corrected for recovery and accurate values were obtained.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show that 2,3,7,8-TCDD was not detected.

Laboratory spike samples were also prepared using clean reference matrix that had been fortified with native standard material. The results show that the spiked native TCDD was recovered at 124-151% with a relative percent difference of 19.6%. The recovery value obtained for 2,3,7,8-TCDD in the laboratory spike duplicate was above the target range, flagged "R" on the results table, and may indicate a high bias for this congener in these determinations. Matrix spikes were not prepared with the sample batch.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Missouri	10100
Alaska-DW	MN00064	Montana	CERT0092
Alaska-UST	17-009	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN00064
Arkansas - WW	88-0680	New Hampshire	2081
Arkansas-DW	MN00064	New Jersey	MN002
California	2929	New York	11647
Colorado	MN00064	North Carolina-	27700
Connecticut	PH-0256	North Carolina-	530
Florida	E87605	North Dakota	R-036
Georgia	959	Ohio-DW	41244
Hawaii	MN00064	Ohio-VAP (170	CL101
Idaho	MN00064	Ohio-VAP (180	CL110
Illinois	200011	Oklahoma	9507
Indiana	C-MN-01	Oregon- rimary	MN300001
Iowa	368	Oregon-Second	MN200001
Kansas	E-10167	Pennsylvania	68-00563
Kentucky-DW	90062	Puerto Rico	MN00064
Kentucky-WW	90062	South Carolina	74003
Louisiana-DEQ	AI-84596	Tennessee	TN02818
Louisiana-DW	MN00064	Texas	T104704192
Maine	MN00064	Utah	MN00064
Maryland	322	Vermont	VT-027053137
Michigan	9909	Virginia	460163
Minnesota	027-053-137	Washington	C486
Minnesota-Ag	via MN 027-053	West Virginia-D	382
Minnesota-Petr	1240	West Virginia-D	9952C
		Wisconsin	999407970
		Wyoming-UST	via A2LA 2926.

REPORT OF LABORATORY ANALYSIS

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Report No.....10621412



Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

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Chain of Custody

Pace Analytical Minn

1700 Elm St SE

Minneapolis

MN 55414

Ph 612-607-1700

STATE OF ORIGIN: _____ VERMONT

The analysis requested requires that you have and maintain NELAC certification. If you do not currently have NELAC certification in the above referenced State, and specified matrix please contact Endyne immediately at (802) 879-4333 ext 301. Thank you.

Copy of Report To		Billing Information		Project Information
CUSTOMER:	Endyne, Inc.	BILL TO:	Endyne, Inc.	2206-21878-W
ADDRESS:	160 James Brown Drive	ADDRESS:	160 James Brown Drive	TURN AROUND TIME:
	Williston, VT 05495		Williston, VT 05495	SPECIAL INSTRUCTIONS:
ATTENTION:	Eileen Toomey	ATTENTION:	Reporting	
E-MAIL:	etoomey@endynelabs.com	E-MAIL:	etoomey@endynelabs.com	
PHONE:	(802) 879-4333 x 300	PHONE:	802-879-4333 x 308	

Analysis Requested: **Dioxins, Sub-contracted**

Dioxins, Sub-contracted

Dioxins, Sub-contractedSample IdentificationMatrixDT TM Sampled

2208-21878 001 Effluent Grab

011

NP

8/5/22

7:49

001

WO#: 10621412



10621412

Relinquished by: (Sign, Date, Time)

Eileen Toomey 8/15/22

Received by: (Sign, Date, Time)

JAC 8/16/22



DC#_Title: ENV-FRM-MIN4-0150 v05_Sample Condition Upon Receipt (SCUR)

Effective Date: 04/12/2022

Sample Condition Upon Receipt

Client Name:

P.A. MN

Project #:

WO#: 10621412

PM: IJJ

Due Date: 09/15/22

CLIENT: ENDYNE

Courier:

☐ Fed Ex☒ UPS☐ USPS☐ Client☐ Pace☐ Speedee☐ Commercial

See Exceptions

☐ ENV-FRM-MIN4-0142

Tracking Number:

12704 2x9 15 7527 1977

Custody Seal on Cooler/Box Present?

☐ Yes☒ No

Seals Intact?

☐ Yes☒ No

Biological Tissue Frozen?

☐ Yes☐ No☒ N/A

Packing Material:

☐ Bubble Wrap☒ Bubble Bags☐ None☐ Other:

Temp Blank?

☐ Yes☒ No

Thermometer:

☐ T1(0461)☐ T2(1336)☐ T3(0459)☐ T4(0254)☐ T5(0489)☐ T6(0235)☐ T7 (0042)☐ 01339252/1710☐ 122639816☐ 140792808

Type of Ice:

☐ Wet☒ Blue☐ None☐ Dry☐ MeltedDid Samples Originate in West Virginia? ☐ Yes ☒ NoWere All Container Temps Taken? ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C

Cooler Temp Read w/temp blank:

°C

Average Corrected Temp (no temp blank only): 6.7 °C

☒ See Exceptions ENV-FRM-MIN4-0142
☐ 1 Container

Correction Factor: True

Cooler Temp Corrected w/temp blank:

°C

USDA Regulated Soil: (☒ N/A, ☐ Water sample/Other:)

Date/Initials of Person Examining Contents: KN 08/16/22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA.

Did samples originate from a foreign source (internationally, including

MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ NoHawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.

Location (check one): <input type="checkbox"/> Duluth <input checked="" type="checkbox"/> Minneapolis <input type="checkbox"/> Virginia	COMMENTS:
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 1.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2.
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 3.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8hr, <24 hrs, <input type="checkbox"/> >24 hrs
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrome <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 6.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 7.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 8.
-Pace Containers Used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 9.
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is sufficient information available to reconcile the samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 11. If no, write ID/ Date/Time on Container Below: See Exception <input type="checkbox"/> ENV-FRM-MIN4-0142
Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other-	
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> NaOH <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Positive for Res. <input type="checkbox"/> Yes <input type="checkbox"/> No Chlorine? <input type="checkbox"/> No pH Paper Lot#
	Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Headspace in Methyl Mercury Container?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 13. See Exception <input type="checkbox"/> ENV-FRM-MIN4-0140
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 14.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Pace Trip Blank Lot # (if purchased):

CLIENT NOTIFICATION/RESOLUTION

Person Contacted:

Date/Time:

Comments/Resolution:

Field Data Required? ☐ Yes ☐ No

Project Manager Review:

Isaac Johnson

Date: 8/16/22

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by:

Qualtrax ID: 52742

Report No.....10621412_1613TCDD_DFR

Page 1 of 1

Page 6 of 14



DC#_Title: ENV-FRM-MIN4-0142 v01_Sample Condition Upon Receipt
(SCUR) Exception Form

Effective Date: 02/25/2022

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No												
			If yes, indicate who was contacted/date/time. If no, indicate reason why.												
			Multiple Cooler Project? <input type="checkbox"/> Yes <input type="checkbox"/> No If you answered yes, fill out information to the left.												
			<table border="1"><thead><tr><th colspan="3">No Temp Blank</th></tr><tr><th>Read Temp</th><th>Corrected Temp</th><th>Average Temp</th></tr></thead><tbody><tr><td>7.5</td><td></td><td>6.9</td></tr><tr><td>6.2</td><td>TRUE</td><td></td></tr></tbody></table>	No Temp Blank			Read Temp	Corrected Temp	Average Temp	7.5		6.9	6.2	TRUE	
No Temp Blank															
Read Temp	Corrected Temp	Average Temp													
7.5		6.9													
6.2	TRUE														

Tracking Number/Temperature	

Issue Type:	Container Type	# of Containers
Sample ID		

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition? <input type="checkbox"/> Yes <input type="checkbox"/> No	Initials
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	

Comments:

Qualtrax ID: 52763

Page 1 of 1



Pace Analytical Services, LLC
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Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - Endyne, Inc.

Client's Sample ID	2208-21878 001 Effluent Grab		
Lab Sample ID	10621412001		
Filename	L220828B_12		
Injected By	JRH		
Total Amount Extracted	993 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	08/05/2022 07:49
ICAL ID	L220811	Received	08/16/2022 07:45
CCal Filename(s)	L220828B_01	Extracted	08/18/2022 12:07
Method Blank ID	BLANK-100754	Analyzed	08/28/2022 18:56

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	ND	—	10	2,3,7,8-TCDD-13C	2.00	50
				Recovery Standard 1,2,3,4-TCDD-13C	2.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	0.20	68

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

R = Recovery outside target range
E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

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Method 1613B Blank Analysis Results

Lab Sample Name	DFBLKAL	Matrix	Water
Lab Sample ID	BLANK-100754	Dilution	NA
Filename	L220824A_07	Extracted	08/18/2022 12:07
Total Amount Extracted	1010 mL	Analyzed	08/24/2022 17:13
ICAL ID	L220811	Injected By	SMT
CCal Filename(s)	L220824A_01		

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	ND	—	10	2,3,7,8-TCDD-13C	2.00	32
				Recovery Standard 1,2,3,4-TCDD-13C	2.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	0.20	63

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

RL = Reporting Limit

R = Recovery outside target range

REPORT OF LABORATORY ANALYSIS

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-100755	Matrix	Water
Filename	L220824A_02	Dilution	NA
Total Amount Extracted	1010 mL	Extracted	08/18/2022 12:07
ICAL ID	L220811	Analyzed	08/24/2022 13:38
CCal Filename	L220824A_01	Injected By	SMT
Method Blank ID	BLANK-100754		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDD	10	12	7.3	14.6	124
2,3,7,8-TCDD-37Cl4	10	6.7	3.7	15.8	67
2,3,7,8-TCDD-13C	100	29	25.0	141.0	29

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCSD-100756	Matrix	Water
Filename	L220824A_03	Dilution	NA
Total Amount Extracted	990 mL	Extracted	08/18/2022 12:07
ICAL ID	L220811	Analyzed	08/24/2022 14:21
CCal Filename	L220824A_01	Injected By	SMT
Method Blank ID	BLANK-100754		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDD	10	15	7.3	14.6	151 R
2,3,7,8-TCDD-37Cl4	10	6.4	3.7	15.8	64
2,3,7,8-TCDD-13C	100	31	25.0	141.0	31

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 1613B

Spike Recovery Relative Percent Difference (RPD) Results

Client Endyne, Inc.

Spike 1 ID LCS-100755
Spike 1 Filename L220824A_02

Spike 2 ID LCSD-100756
Spike 2 Filename L220824A_03

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDD	124	151	19.6

%REC = Percent Recovered

RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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General Electric-Columbian Ave

Endyne Inc. COC

2208-21878

Prepared: 8/23/22

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust #

DECF

W-702:



Stone Environmental, Inc.
General Electric-Columbian Ave

Effluent Grab

Sampled Date/Time: 8/5/22 @ 7:49 Sampler: UATpH Client Data 7.01

Cyanide, Total 1 - 8 oz Plastic for CN <6C, NaOH Na2S2O3, Cl2

Dioxins, Sub-contracted 2 - 1L Amber Glass <6C, pH 5-9

Pests, Priority Pollutant 4 - 1L Amber Glass <6C, Na2S2O3, pH 5-9
SVOC Priority Pollutants

Cadmium, Total 1 - 16 oz Plastic Total Metals HNO3 pH < 2

Chromium, Total

Copper, Total

Lead, Total

Nickel, Total

Silver, Total

Zinc, Total

VOC Priority Pollutants 2 - 40ml vials <6C, Na2S2O3

Trip Blank

Sampled Date/Time: / / @ Sampler:

VOC Priority Pollutants 2 - 40ml vials <6C, Na2S2O3

One or more sample bottles in this project must be
kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the
temperature preservation requirements are not satisfied. _____

Relinquished by: Andrew Fish 8/5/22 11:54 Accepted by: Elise Loney 8/5/22 @ 11:54
Date Time Date TimeRelinquished by: _____ Received by: _____
Date Time Date Time

Sites/Parameters correct as listed. Client Initials _____

Client Authorization to use Subcontract lab Client Initials _____

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#) _____

Requested Turnaround Time: Routine: Rush Due Date _____

Deliv Client
Temp C: -1.6
Comment:

Temp Ck Lab use Only
Log by



160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: General Electric-Windcrest Rd

WORK ORDER: **2208-21649**

DATE RECEIVED: August 03, 2022

DATE REPORTED: September 08, 2022

SAMPLER: Andy Fish

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

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160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 09/08/2022

CLIENT: Stone Environmental, Inc.
 PROJECT: General Electric-Windcrest Rd

WORK ORDER: 2208-21649
 DATE RECEIVED: 08/03/2022

001	Site: Effluent Grab/Composite			Date Sampled: 8/3/22		Time: 11:01		
Parameter	Result	Units	Method	Analysis Date/Time		Lab/Tech	NELAC	Qual.
pH per Client	7.1	SU at __ C	Client Data	8/3/22	11:01	W CLI	N	
Cyanide, Total	< 0.010	mg/L	EPA 335.4, R.1(1993)	8/10/22		N MAP	A	
Metals Digestion	Digested		EPA 200.7/200.8	8/5/22		W MGT	A	
Cadmium, Total	< 0.0005	mg/L	EPA 200.8	8/8/22	17:15	W MGT	A	
Chromium, Total	0.0148	mg/L	EPA 200.8	8/23/22	15:51	W SJM	A	
Copper, Total	0.0095	mg/L	EPA 200.8	8/8/22	17:15	W MGT	A	
Lead, Total	< 0.0010	mg/L	EPA 200.8	8/8/22	17:15	W MGT	A	
Nickel, Total	0.0142	mg/L	EPA 200.8	8/8/22	17:15	W MGT	A	
Silver, Total	< 0.010	mg/L	EPA 200.8	8/8/22	17:15	W MGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.8	8/8/22	17:15	W MGT	A	
Dioxins, Sub-contracted	See Attached		Attached	8/31/22		SWSUB	N	SBA
VOC Priority Pollutants								
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	8/4/22		W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	8/4/22		W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	8/4/22		W TRP	A	
Acetone	38.6	ug/L	EPA 624.1	8/4/22		W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Chloroform	7.6	ug/L	EPA 624.1	8/4/22		W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	8/4/22		W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	8/4/22		W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	8/4/22		W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	8/4/22		W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	8/4/22		W TRP	A	
Bromodichloromethane	0.9	ug/L	EPA 624.1	8/4/22		W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	8/4/22		W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	

**ENDYNE Inc.**

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Laboratory Report

DATE REPORTED: 09/08/2022

CLIENT: Stone Environmental, Inc.
PROJECT: General Electric-Windcrest Rd

WORK ORDER: 2208-21649
DATE RECEIVED: 08/03/2022

001	Site: Effluent Grab/Composite		Date Sampled: 8/3/22		Time: 11:01		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	8/4/22	W TRP	U	
Surr. 1 (Dibromofluoromethane)	101	%	EPA 624.1	8/4/22	W TRP	A	
Surr. 2 (Toluene d8)	100	%	EPA 624.1	8/4/22	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	99	%	EPA 624.1	8/4/22	W TRP	A	
Unidentified Peaks	0		EPA 624.1	8/4/22	W TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	8/4/22	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	8/4/22	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	8/4/22	W TRP	A	
Priority Pollutant Pesticides							
Sep Funnel Extraction	Completed		EPA 608.3	8/10/22	W CLD	A	
alpha-BHC	< 0.009	ug/L	EPA 608.3	8/12/22	W DPD	A	
gamma-BHC (Lindane)	< 0.012	ug/L	EPA 608.3	8/12/22	W DPD	A	
beta-BHC	< 0.018	ug/L	EPA 608.3	8/12/22	W DPD	A	
delta-BHC	< 0.027	ug/L	EPA 608.3	8/12/22	W DPD	A	
Heptachlor	< 0.009	ug/L	EPA 608.3	8/12/22	W DPD	A	
Aldrin	< 0.012	ug/L	EPA 608.3	8/12/22	W DPD	A	
Heptachlor Epoxide	< 0.249	ug/L	EPA 608.3	8/12/22	W DPD	A	
4,4'-DDE	< 0.012	ug/L	EPA 608.3	8/12/22	W DPD	A	
Endosulfan I	< 0.042	ug/L	EPA 608.3	8/12/22	W DPD	A	
Dieldrin	< 0.006	ug/L	EPA 608.3	8/12/22	W DPD	A	
Endrin	< 0.018	ug/L	EPA 608.3	8/12/22	W DPD	A	
4,4'-DDD	< 0.033	ug/L	EPA 608.3	8/12/22	W DPD	A	
Endosulfan II	< 0.012	ug/L	EPA 608.3	8/12/22	W DPD	A	
4,4'-DDT	< 0.036	ug/L	EPA 608.3	8/12/22	W DPD	A	
Endrin Aldehyde	< 0.070	ug/L	EPA 608.3	8/12/22	W DPD	A	
Endosulfan Sulfate	< 0.198	ug/L	EPA 608.3	8/12/22	W DPD	A	
Methoxychlor	< 0.1	ug/L	EPA 608.3	8/12/22	W DPD	A	
Chlordane	< 0.150	ug/L	EPA 608.3	8/12/22	W DPD	A	
Toxaphene	< 0.720	ug/L	EPA 608.3	8/12/22	W DPD	A	
Aroclor 1016 (PCB-1016)	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A	
Aroclor 1221 (PCB-1221)	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A	
Aroclor 1232 (PCB-1232)	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A	
Aroclor 1242 (PCB-1242)	< 0.095	ug/L	EPA 608.3	8/11/22	W DPD	A	
Aroclor 1248 (PCB-1248)	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A	
Aroclor 1254 (PCB-1254)	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A	
Aroclor 1260	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A	
Surrogate-TCMX	83	%	EPA 608.3	8/12/22	W DPD	A	
Surrogate-DCB	78	%	EPA 608.3	8/12/22	W DPD	A	
SVOC Priority Pollutants							
Extraction EPA 3510C	Completed		EPA 3510C	8/5/22	W CLD	A	
N-Nitrosodimethylamine	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Bis(2-chloroethyl)ether	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,2'-Oxybis(1-chloropropane	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Hexachloroethane	< 2.0	ug/L	EPA 625.1	8/16/22	W EEP	A	

**ENDYNE Inc.**

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Laboratory Report

DATE REPORTED: 09/08/2022

CLIENT: Stone Environmental, Inc.
PROJECT: General Electric-Windcrest Rd

WORK ORDER: 2208-21649
DATE RECEIVED: 08/03/2022

001	Site: Effluent Grab/Composite			Date Sampled: 8/3/22	Time: 11:01		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Nitrobenzene	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Isophorone	< 2.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Bis(2-chloroethoxy)methane	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Naphthalene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Hexachlorobutadiene	< 2.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Hexachlorocyclopentadiene	< 20.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2-Chloronaphthalene	< 2.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Dimethyl phthalate	< 2.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,6-Dinitrotoluene	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Acenaphthylene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Acenaphthene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4-Dinitrotoluene	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Fluorene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Diethyl phthalate	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
N-Nitrosodiphenylamine	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Azobenzene	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Hexachlorobenzene	< 1.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Phenanthrene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Anthracene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Di-n-butylphthalate	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Fluoranthene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzidine	< 20.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Pyrene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Butyl benzyl phthalate	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(a)anthracene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Chrysene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Di-n-octylphthalate	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(b)fluoranthene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(k)fluoranthene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(a)pyrene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Indeno(1,2,3-cd)pyrene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Dibenzo(a,h)anthracene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(g,h,i)perylene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Phenol	< 2.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2-Chlorophenol	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2-Nitrophenol	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4-Dimethylphenol	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4-Dichlorophenol	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
4-Chloro-3-methylphenol	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4,6-Trichlorophenol	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4-Dinitrophenol	< 20.0	ug/L	EPA 625.1	8/16/22	W EEP	A	

**ENDYNE Inc.**

www.endynelabs.com

Laboratory Report

DATE REPORTED: 09/08/2022

CLIENT: Stone Environmental, Inc.
PROJECT: General Electric-Windcrest Rd

WORK ORDER: 2208-21649
DATE RECEIVED: 08/03/2022

001	Site: Effluent Grab/Composite			Date Sampled: 8/3/22	Time: 11:01		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
4-Nitrophenol	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Pentachlorophenol	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
B/N Surr.1 Nitrobenzene-d5	56	%	EPA 625.1	8/16/22	W EEP	A	
B/N Surr.2 2-Fluorobiphenyl	67	%	EPA 625.1	8/16/22	W EEP	A	
B/N Surr.3 Terphenyl-d14	111	%	EPA 625.1	8/16/22	W EEP	A	
Acid Surr.1 2-Fluorophenol	26	%	EPA 625.1	8/16/22	W EEP	A	
Acid Surr.2 Phenol-d5	25	%	EPA 625.1	8/16/22	W EEP	A	
Acid Surr.3 Tribromophenol	96	%	EPA 625.1	8/16/22	W EEP	A	
Unidentified Peaks	> 10		EPA 625.1	8/16/22	W EEP	U	

002	Site: Trip Blank			Date Sampled: 8/3/22	Time: 11:01		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
VOC Priority Pollutants							
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	8/4/22	W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	8/4/22	W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	8/4/22	W TRP	A	
Acetone	< 10.0	ug/L	EPA 624.1	8/4/22	W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Chloroform	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	8/4/22	W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	8/4/22	W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	8/4/22	W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	8/4/22	W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	8/4/22	W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 624.1	8/4/22	W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	8/4/22	W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	8/4/22	W TRP	A	

Laboratory Report

DATE REPORTED: 09/08/2022

CLIENT: Stone Environmental, Inc.
 PROJECT: General Electric-Windcrest Rd

WORK ORDER: **2208-21649**
 DATE RECEIVED: 08/03/2022

002 Site: Trip Blank

Date Sampled: 8/3/22 Time: 11:01

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	8/4/22	W TRP	U	
Surr. 1 (Dibromofluoromethane)	101	%	EPA 624.1	8/4/22	W TRP	A	
Surr. 2 (Toluene d8)	101	%	EPA 624.1	8/4/22	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	102	%	EPA 624.1	8/4/22	W TRP	A	
Unidentified Peaks	0		EPA 624.1	8/4/22	W TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	8/4/22	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	8/4/22	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	8/4/22	W TRP	A	

Report Summary of Qualifiers and Notes

SBA: Analysis performed by subcontracted laboratory, Alpha Analytical, Mansfield MA. Results are presented here for your convenience. The complete subcontracted report has been appended to this report.



ANALYTICAL REPORT

Lab Number:	L2242381
Client:	Endyne, Inc. 160 James Brown Drive Williston, VT 05495
ATTN:	Eileen Toomey
Phone:	(802) 879-4333
Project Name:	2208-21649-W
Project Number:	2208-21649-W
Report Date:	09/07/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: 2208-21649-W
Project Number: 2208-21649-W

Lab Number: L2242381
Report Date: 09/07/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2242381-01	2208-21649 001	DW	Not Specified	08/03/22 11:01	08/05/22

Project Name: 2208-21649-W
Project Number: 2208-21649-W

Lab Number: L2242381
Report Date: 09/07/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

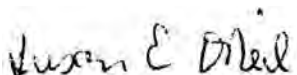
Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Susan O'Neil

Title: Technical Director/Representative

Date: 09/07/22

ORGANICS

SEMIVOLATILES

High Resolution Mass Spectrometry

Project Name: 2208-21649-W

Project Number: 2208-21649-W

Lab Number: L2242381

Report Date: 09/07/22

SAMPLE RESULTS

Lab ID: L2242381-01
 Client ID: 2208-21649 001
 Sample Location: Not Specified

Date Collected: 08/03/22 11:01
 Date Received: 08/05/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Dw
 Analytical Method: 132,1613B
 Analytical Date: 08/31/22 12:59
 Analyst: PB

Extraction Method: EPA 1613B
 Extraction Date: 08/08/22 10:50
 Cleanup Method: EPA 1613B
 Cleanup Date: 08/29/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
-----------	--------	-----------	------	-------	----	-----	-----------------

Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab

2,3,7,8-TCDD	ND			pg/l	10.0	--	1
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Surrogate/Cleanup Standard	% Recovery	Qualifier	Acceptance Criteria
13C12-2,3,7,8-TCDD	59		25-164
37CL4-2,3,7,8-TCDD	99		35-197

Project Name: 2208-21649-W

Lab Number: L2242381

Project Number: 2208-21649-W

Report Date: 09/07/22

Method Blank Analysis Batch Quality Control

Analytical Method: 132,1613B
 Analytical Date: 08/31/22 06:34
 Analyst: PB

Extraction Method: EPA 1613B
 Extraction Date: 08/08/22 10:50
 Cleanup Method: EPA 1613B
 Cleanup Date: 08/29/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab for sample(s): 01 Batch: WG1672454-1						
2,3,7,8-TCDD	ND			pg/l	10.0	--

Surrogate/Cleanup Standard	%Recovery	Qualifier	Acceptance Criteria
13C12-2,3,7,8-TCDF	70		24-169
13C12-2,3,7,8-TCDD	69		25-164
13C12-1,2,3,7,8-PeCDF	78		24-185
13C12-2,3,4,7,8-PeCDF	80		21-178
13C12-1,2,3,7,8-PeCDD	75		25-181
13C12-1,2,3,4,7,8-HxCDF	77		26-152
13C12-1,2,3,6,7,8-HxCDF	73		26-123
13C12-2,3,4,6,7,8-HxCDF	77		28-136
13C12-1,2,3,7,8,9-HxCDF	82		29-147
13C12-1,2,3,4,7,8-HxCDD	71		32-141
13C12-1,2,3,6,7,8-HxCDD	74		28-130
13C12-1,2,3,4,6,7,8-HpCDF	81		28-143
13C12-1,2,3,4,7,8,9-HpCDF	86		26-138
13C12-1,2,3,4,6,7,8-HpCDD	88		23-140
13C12-OCDD	92		17-157
37CL4-2,3,7,8-TCDD	98		35-197

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 2208-21649-W

Lab Number: L2242381

Project Number: 2208-21649-W

Report Date: 09/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab Associated sample(s): 01 Batch: WG1672454-2 WG1672454-3								
2,3,7,8-TCDD	109		114		67-158	4		25

Surrogate/Cleanup Standard	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
13C12-2,3,7,8-TCDF	64		78		24-169
13C12-2,3,7,8-TCDD	66		76		25-164
13C12-1,2,3,7,8-PeCDF	71		82		24-185
13C12-2,3,4,7,8-PeCDF	70		83		21-178
13C12-1,2,3,7,8-PeCDD	67		80		25-181
13C12-1,2,3,4,7,8-HxCDF	77		86		26-152
13C12-1,2,3,6,7,8-HxCDF	77		86		26-123
13C12-2,3,4,6,7,8-HxCDF	74		88		28-136
13C12-1,2,3,7,8,9-HxCDF	79		89		29-147
13C12-1,2,3,4,7,8-HxCDD	71		81		32-141
13C12-1,2,3,6,7,8-HxCDD	73		84		28-130
13C12-1,2,3,4,6,7,8-HpCDF	72		86		28-143
13C12-1,2,3,4,7,8,9-HpCDF	73		92		26-138
13C12-1,2,3,4,6,7,8-HpCDD	76		98		23-140
13C12-OCDD	65		97		17-157
37CL4-2,3,7,8-TCDD	93		127		35-197

Project Name: 2208-21649-W

Project Number: 2208-21649-W

Serial_No:09072211:01

Lab Number: L2242381

Report Date: 09/07/22

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler **Custody Seal**

A Absent

Container Information

Container ID **Container Type**

L2242381-01A Amber 1000ml unpreserved

Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
A	7	7	2.6	Y	Absent		A2-DIOXIN-1613(365)

Project Name: 2208-21649-W

Lab Number: L2242381

Project Number: 2208-21649-W

Report Date: 09/07/22

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: 2208-21649-W
Project Number: 2208-21649-W

Lab Number: L2242381
Report Date: 09/07/22

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: 2208-21649-W**Lab Number:** L2242381**Project Number:** 2208-21649-W**Report Date:** 09/07/22**Data Qualifiers**

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: 2208-21649-W
Project Number: 2208-21649-W

Lab Number: L2242381
Report Date: 09/07/22

REFERENCES

- 132 Method 1613 Revision B: Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution HRGC/HRMS. USEPA Office of Water, October 1994.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

8/6/22

C2242381

Chain of Custody

Alpha Analytical
Eight Walkup Drive

Westboro MA 01581

Ph 508-898-9220

STATE OF ORIGIN: VERMONT

The analysis requested requires that you have and maintain NELAC certification. If you do not currently have NELAC certification in the above referenced State, and specified matrix please contact Endyne immediately at (802) 879-4333 ext 301. Thank you.

Copy of Report To	Billing Information	Project Information
CUSTOMER: Endyne, Inc.	BILL TO: Endyne, Inc.	2208-21649-W
ADDRESS: 160 James Brown Drive Williston, VT 05495	ADDRESS: 160 James Brown Drive Williston, VT 05495	TURN AROUND TIME:
ATTENTION: Eileen Toomey	ATTENTION: Reporting	SPECIAL INSTRUCTIONS:
E-MAIL: etoomey@endynelabs.com	E-MAIL: etoomey@endynelabs.com	
PHONE: (802) 879-4333 x 300	PHONE: 802-879-4333 x 308	

Analysis Requested: Dioxins, Sub-contracted

Dioxins, Sub-contracted

Dioxins, Sub-contracted

Sample Identification

Matrix

DT TM Sampled

-01
2208-21649 001 Effluent Grab/Composite

011

DW

8/3/22 11:01

Relinquished by: (Sign, Date, Time)

Eml Outh

8/4/22

1600

Page 1 of 1 Sign, Date, Time

Richard L. Toomey

8-5-22-12:15

14:10

Page 1 of 1

Richard L. Toomey 8-5-22 - 12:15

18:50 8/5/22 18:50

AKC
-HAC
8/6/22 0845

Richard L. Toomey 8-6-22 6:14

General Electric-Windcrest Rd

Endyne Inc. COC

2208-21649

Prepared: 6/23/22

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust #

DI

W:



Stone Environmental, Inc.
General Electric-Windcrest Rd

Composite/Grab
Effluent Grab

Sampled Date/Time:

8/3/22 @ 11:01

Sampler:

Andy Fish

pH Client Data 7.1 at 10:30 am grab

*Cyanide, Total

1 - 8 oz Plastic for CN

<6C, NaOH Na2S2O3, Cl2

Dioxins, Sub-contracted

2 - 1L Amber Glass

<6C, pH 5-9

Pests, Priority Pollutant

4 - 1L Amber Glass

<6C, Na2S2O3, pH 5-9

SVOC Priority Pollutants

Cadmium, Total

1 - 16 oz Plastic Total Metals HNO3 pH< 2

Chromium, Total

Copper, Total

Lead, Total

Nickel, Total

Silver, Total

Zinc, Total

VOC Priority Pollutants

2 - 40ml vials

<6C, Na2S2O3

Trip Blank

Sampled Date/Time:

/ / @

Sampler:

[Signature]

VOC Priority Pollutants

2 - 40ml vials

<6C, Na2S2O3

One or more sample bottles in this project must be
kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the
temperature preservation requirements are not satisfied.

INITIAL HERE

Relinquished by:

Andrew Fish 8/3/22 15:20

Date Time

Accepted by:

Eileen Loney 8/3/22 @ 15:20

Date Time

Relinquished by:

Received by:

Sites/Parameters correct as listed. Client Initials

Date Time

Date Time

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Deliv. Client

Temp C: 6.1

Log by

Lab use Only

Comment:

* Dechlorid with ascorbic Acid



160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Plumrose USA

WORK ORDER: **2208-21486**

DATE RECEIVED: August 03, 2022

DATE REPORTED: August 09, 2022

SAMPLER: APH

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

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Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 08/09/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2208-21486**

PROJECT: Plumrose USA

DATE RECEIVED: 08/03/2022

001

Site: Effluent Grab

Date Sampled: 8/1/22

Time: 23:10

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	5.04	SU at __C	Client Data	8/1/22 23:10	W CLI	N	
BOD-5day	1,000	mg/L	SM 5210B(16)	8/3/22 15:13	W JSS	A	
Oil & Grease Total Recoverable	14.5	mg/L	EPA 1664A	8/5/22	W CLD	A	

**ENDYNE Inc.**

www.endynelabs.com

Plumrose USA

Endyne Inc. COC

2208-21486

Prepared: 8/23/22



2208-21486

Cust #

Stone Environmental, Inc.
Plumrose USA

DEC

W-70

Bill to:

Mr. Chris Stone

Stone Environmental, Inc.

535 Stone Cutters Way

Montpelier VT 05602

Ph: (802) 229-4541

Report to:

Meghan Arpino

Stone Environmental, Inc.

535 Stone Cutters Way

Montpelier VT 05602

dbraun@stone-env.com;accounting@

Page 1 of 1

Effluent Grab

Sampled Date/Time: 8/1/22 @ 23:10

Sampler: APH

pH Client Data 5.04

Oil & Grease

✓ 2L & 2- 8 oz Amber Glass <6C, HCl ✓

BOD-5day

✓ 1 - 8 oz Plastic <6C

Rec'd two sets of FOG's
-CSS 8/3/22

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

APH

INITIAL

Relinquished by:

APH

8/2/22 12:00

Date Time

Accepted by:

Relinquished by:

Received by:

Date Time

8/3/22 1330

Date Time

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Deliv: Gmm

Temp C: 10.1

Comment:

Temp Ck

Log by

Lab use Only



160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Rock Art Brewery LLC

WORK ORDER: **2208-23354**

DATE RECEIVED: August 18, 2022

DATE REPORTED: August 26, 2022

SAMPLER: Meghan

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 08/26/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2208-23354**

PROJECT: Rock Art Brewery LLC

DATE RECEIVED: 08/18/2022

001

Site: Effluent Grab

Date Sampled: 8/17/22 Time: 16:06

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	7.09	SU at __C	Client Data	8/17/22 16:06	W CLI	N	
BOD-5day	370	mg/L	SM 5210B(16)	8/19/22 10:40	W JSS	A	
Phosphorus, Total	5.0	mg/L	EPA 365.1, R.2(1993)	8/23/22 15:55	N LKL	A	M-
Solids, Total Suspended	50	mg/L	SM 2540 D-15	8/22/22	W JSS	A	

Report Summary of Qualifiers and Notes

M-: The Laboratory Fortified Matrix (LFM) analysis had a recovery lower than defined acceptance limits. This indicates a potential negative bias in the reported value or a difficult sample matrix that resulted in poor reproducibility between sample aliquots selected for analysis.

Rock Art Brewery LLC

Endyne Inc. COC

Prepared: 6/23/22

2208-23354



2208-23354

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust # 070233

DECRFPSIU

W-70233SAC

Stone Environmental, Inc.
Rock Art Brewery LLC

Effluent Grab

Sampled Date/Time: 8/17/22 @ 16:06

Sampler: Meghan Arpino

pH Client Data 7.09

BOD-5day

Solids, Total Suspended

Phosphorus, Total

✓ 1 - 8 oz Plastic

<6C

✓ 1 - 60ml Vial

<6C, H2SO4

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied. MKA



Relinquished by:

MKA

8/18/22 11:15

Date Time

Accepted by:

Relinquished by:

Received by:

Date Time

Date Time

Date Time

Sites/Parameters correct as listed. Client Initials MKA

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☒ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#) Stone Env

Requested Turnaround Time: Routine: Rush Due Date

Delv: 60

Temp C: 3.8

Comment:

Temp Ck

Log by

Lab use Only



160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052

Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Trapp Lager Brewing

WORK ORDER: **2208-21488**

DATE RECEIVED: August 03, 2022

DATE REPORTED: August 11, 2022

SAMPLER: MRA

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

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Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:



Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

Laboratory Report

DATE REPORTED: 08/11/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2208-21488**

PROJECT: Trapp Lager Brewing

DATE RECEIVED: 08/03/2022

001

Site: Effluent Grab

Date Sampled: 8/2/22

Time: 13:50

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	7.44	SU at __C	Client Data	8/2/22 13:50	W CLI	N	
BOD-5day	1,100	mg/L	SM 5210B(16)	8/4/22 9:18	W JSS	A	
Phosphorus, Total	13	mg/L	EPA 365.1, R.2(1993)	8/9/22 15:30	N LKL	A	

**ENDYNE Inc.**

www.endynelabs.com

Trapp Lager Brewing

Endyne Inc. COC

2208-21488

Prepared: 8/16/22

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust # 070

DECRFP

W-70233



Stone Environmental, Inc.
Trapp Lager Brewing

Effluent Grab

Sampled Date/Time: 8/2/22 @ 13:50 Sampler: MRA

pH Client Data 7.44

BOD-5day

✓ - 8 oz Plastic

<6C

Phosphorus, Total

✓ - 60 ml Vial

<6C, H2SO4

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

MRA



Relinquished by: [Signature] 8/2/22 14:45 Date Time

Accepted by:

Relinquished by: [Signature] Date Time

Received by:

[Signature] 8/2/22 13:30 Date Time

Sites/Parameters correct as listed. Client Initials MRA

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☒ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#) 00221085

Requested Turnaround Time: Routine: Rush Due Date

Delv: 6mm	Temp C: 10.1	Temp Ck	Lab use Only
Comment:		Log by	



160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052

Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Trapp Lager Brewing

WORK ORDER: **2208-21488**

DATE RECEIVED: August 03, 2022

DATE REPORTED: August 11, 2022

SAMPLER: MRA

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

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The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

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Reviewed by:



Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

Laboratory Report

DATE REPORTED: 08/11/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2208-21488**

PROJECT: Trapp Lager Brewing

DATE RECEIVED: 08/03/2022

001

Site: Effluent Grab

Date Sampled: 8/2/22

Time: 13:50

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	7.44	SU at __C	Client Data	8/2/22 13:50	W CLI	N	
BOD-5day	1,100	mg/L	SM 5210B(16)	8/4/22 9:18	W JSS	A	
Phosphorus, Total	13	mg/L	EPA 365.1, R.2(1993)	8/9/22 15:30	N LKL	A	

**ENDYNE Inc.**

www.endynelabs.com

Trapp Lager Brewing

Endyne Inc. COC

2208-21488

Prepared: 8/16/22

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust # 070

DECRFP

W-70233



Stone Environmental, Inc.
Trapp Lager Brewing

Effluent Grab

Sampled Date/Time: 8/2/22 @ 13:50 Sampler: MRA

pH Client Data 7.44

BOD-5day

✓ - 8 oz Plastic

<6C

Phosphorus, Total

✓ - 60 ml Vial

<6C, H2SO4

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

MRA



Relinquished by: [Signature] 8/2/22 14:45 Date Time

Accepted by:

Relinquished by: [Signature] Date Time

Received by:

[Signature] 8/2/22 13:30 Date Time

Sites/Parameters correct as listed. Client Initials MRA

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☒ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#) 00221085

Requested Turnaround Time: Routine: Rush Due Date

Delv: 6mm	Temp C: 10.1	Temp Ck	Lab use Only
Comment:		Log by	



160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Laboratory Report

Stone Environmental, Inc. 070233
535 Stone Cutters Way
Montpelier, VT 05602

PROJECT: Vishay Tansitor
WORK ORDER: 2208-24491
DATE RECEIVED: August 30, 2022
DATE REPORTED: September 14, 2022
SAMPLER: Illegible

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody located at the end of this report.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

This NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Alexander J Rakotz
Laboratory Director Lebanon, NH

www.endynelabs.com



ELAP 11263

160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



NH2037

Laboratory Report

DATE REPORTED: 09/14/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Vishay Tansitor

WORK ORDER: 2208-24491
DATE RECEIVED: 08/30/2022

001	Site: Effluent Grab			Date Sampled: 8/30/22		Time: 10:41			
Parameter	Result	Units	Method	Analysis Date/Time		Lab/Tech		NELAC	Qual.
pH per Client	6.85	SU at __C	Client Data	8/30/22	10:41	W	CLI	N	
VOC Priority Pollutants						W			
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Acetone	27.1	ug/L	EPA 624.1	9/1/22		W	TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Chloroform	1.8	ug/L	EPA 624.1	9/1/22		W	TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	9/1/22		W	TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	9/1/22		W	TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Bromodichloromethane	0.5	ug/L	EPA 624.1	9/1/22		W	TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Tetrachloroethene	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	PLE
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	9/1/22		W	TRP	U	
Surr. 1 (Dibromofluoromethane)	104	%	EPA 624.1	9/1/22		W	TRP	A	
Surr. 2 (Toluene d8)	98	%	EPA 624.1	9/1/22		W	TRP	A	
Surr. 3 (4-Bromofluorobenzene)	103	%	EPA 624.1	9/1/22		W	TRP	A	
Unidentified Peaks	0		EPA 624.1	9/1/22		W	TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	9/1/22		W	TRP	A	

Laboratory Report

DATE REPORTED: 09/14/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Vishay Tansitor

WORK ORDER: **2208-24491**
DATE RECEIVED: 08/30/2022

1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	9/1/22	W	TRP	A
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	9/1/22	W	TRP	A
Priority Pollutant Pesticides					W		
Sep Funnel Extraction	Completed		EPA 608.3	8/31/22	W	CLD	A
alpha-BHC	< 0.009	ug/L	EPA 608.3	9/1/22	W	DPD	A
gamma-BHC (Lindane)	< 0.012	ug/L	EPA 608.3	9/1/22	W	DPD	A
beta-BHC	< 0.018	ug/L	EPA 608.3	9/1/22	W	DPD	A
delta-BHC	< 0.027	ug/L	EPA 608.3	9/1/22	W	DPD	A
Heptachlor	< 0.009	ug/L	EPA 608.3	9/1/22	W	DPD	A
Aldrin	< 0.012	ug/L	EPA 608.3	9/1/22	W	DPD	A
Heptachlor Epoxide	< 0.249	ug/L	EPA 608.3	9/1/22	W	DPD	A
4,4'-DDE	< 0.012	ug/L	EPA 608.3	9/1/22	W	DPD	A
Endosulfan I	< 0.042	ug/L	EPA 608.3	9/1/22	W	DPD	A
Dieldrin	< 0.006	ug/L	EPA 608.3	9/1/22	W	DPD	A
Endrin	< 0.018	ug/L	EPA 608.3	9/1/22	W	DPD	A
4,4'-DDD	< 0.033	ug/L	EPA 608.3	9/1/22	W	DPD	A
Endosulfan II	< 0.012	ug/L	EPA 608.3	9/1/22	W	DPD	A
4,4'-DDT	< 0.036	ug/L	EPA 608.3	9/1/22	W	DPD	A
Endrin Aldehyde	< 0.070	ug/L	EPA 608.3	9/1/22	W	DPD	A
Endosulfan Sulfate	< 0.198	ug/L	EPA 608.3	9/1/22	W	DPD	A
Methoxychlor	< 0.1	ug/L	EPA 608.3	9/1/22	W	DPD	A
Chlordane	< 0.150	ug/L	EPA 608.3	9/1/22	W	DPD	A
Toxaphene	< 0.720	ug/L	EPA 608.3	9/1/22	W	DPD	A
Aroclor 1016 (PCB-1016)	< 0.45	ug/L	EPA 608.3	9/7/22	W	DPD	A
Aroclor 1221 (PCB-1221)	< 0.45	ug/L	EPA 608.3	9/7/22	W	DPD	A
Aroclor 1232 (PCB-1232)	< 0.45	ug/L	EPA 608.3	9/7/22	W	DPD	A
Aroclor 1242 (PCB-1242)	< 0.095	ug/L	EPA 608.3	9/7/22	W	DPD	A
Aroclor 1248 (PCB-1248)	< 0.45	ug/L	EPA 608.3	9/7/22	W	DPD	A
Aroclor 1254 (PCB-1254)	< 0.45	ug/L	EPA 608.3	9/7/22	W	DPD	A
Aroclor 1260	< 0.45	ug/L	EPA 608.3	9/7/22	W	DPD	A
Surrogate-TCMX	65	%	EPA 608.3	9/1/22	W	DPD	A
Surrogate-DCB	77	%	EPA 608.3	9/1/22	W	DPD	A
SVOC Priority Pollutants					W		
Extraction EPA 3510C	Completed		EPA 3510C	9/6/22	W	CLD	A
N-Nitrosodimethylamine	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A
Bis(2-chloroethyl)ether	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A
2,2'-Oxybis(1-chloropropane	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A
N-Nitrosodi-n-propylamine	< 10.0	ug/L	EPA 625.1	9/13/22	W	EEP	A
Hexachloroethane	< 2.0	ug/L	EPA 625.1	9/13/22	W	EEP	A
Nitrobenzene	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A
Isophorone	< 2.0	ug/L	EPA 625.1	9/13/22	W	EEP	A
Bis(2-chloroethoxy)methane	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 625.1	9/13/22	W	EEP	A
Naphthalene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A
Hexachlorobutadiene	< 2.0	ug/L	EPA 625.1	9/13/22	W	EEP	A
Hexachlorocyclopentadiene	< 20.0	ug/L	EPA 625.1	9/13/22	W	EEP	A

M-

Laboratory Report

DATE REPORTED: 09/14/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Vishay Tansitor

WORK ORDER: **2208-24491**
DATE RECEIVED: 08/30/2022

2-Chloronaphthalene	< 2.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Dimethyl phthalate	< 2.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
2,6-Dinitrotoluene	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Acenaphthylene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Acenaphthene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
2,4-Dinitrotoluene	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Fluorene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Diethyl phthalate	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
N-Nitrosodiphenylamine	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Azobenzene	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Hexachlorobenzene	< 1.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Phenanthrene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Anthracene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Di-n-butylphthalate	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Fluoranthene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Benzidine	< 20.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	RPD
Pyrene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Butyl benzyl phthalate	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Benzo(a)anthracene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Chrysene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Di-n-octylphthalate	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Benzo(b)fluoranthene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Benzo(k)fluoranthene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Benzo(a)pyrene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Indeno(1,2,3-cd)pyrene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Dibenzo(a,h)anthracene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Benzo(g,h,i)perylene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Phenol	< 2.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
2-Chlorophenol	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
2-Nitrophenol	< 10.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
2,4-Dimethylphenol	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
2,4-Dichlorophenol	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
4-Chloro-3-methylphenol	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
2,4,6-Trichlorophenol	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
2,4-Dinitrophenol	< 20.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
4-Nitrophenol	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Pentachlorophenol	< 10.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
B/N Surr.1 Nitrobenzene-d5	37	%	EPA 625.1	9/13/22	W	EEP	A	
B/N Surr.2 2-Fluorobiphenyl	40	%	EPA 625.1	9/13/22	W	EEP	A	
B/N Surr.3 Terphenyl-d14	84	%	EPA 625.1	9/13/22	W	EEP	A	
Acid Surr.1 2-Fluorophenol	17	%	EPA 625.1	9/13/22	W	EEP	A	

**ENDYNE Inc.**

www.endynelabs.com

Laboratory Report

DATE REPORTED: 09/14/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Vishay Tansitor

WORK ORDER: 2208-24491
DATE RECEIVED: 08/30/2022

Acid Surr.2 Phenol-d5	15	%	EPA 625.1	9/13/22	W	EEP	A
Acid Surr.3 Tribromophenol	66	%	EPA 625.1	9/13/22	W	EEP	A
Unidentified Peaks	1		EPA 625.1	9/13/22	W	EEP	U

002 Site: Trip Blank Date Sampled: 6/28/22 Time: 9:30

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
VOC Priority Pollutants					W		
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	9/1/22	W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	9/1/22	W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	9/1/22	W TRP	A	
Acetone	< 10.0	ug/L	EPA 624.1	9/1/22	W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Chloroform	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	9/1/22	W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	9/1/22	W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	9/1/22	W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	9/1/22	W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	9/1/22	W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 624.1	9/1/22	W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Tetrachloroethene	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	PLE
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	9/1/22	W TRP	U	
Surr. 1 (Dibromofluoromethane)	98	%	EPA 624.1	9/1/22	W TRP	A	
Surr. 2 (Toluene d8)	98	%	EPA 624.1	9/1/22	W TRP	A	

Laboratory Report

DATE REPORTED: 09/14/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Vishay Tansitor

WORK ORDER: **2208-24491**
DATE RECEIVED: 08/30/2022

Surr. 3 (4-Bromofluorobenzene)	102	%	EPA 624.1	9/1/22	W	TRP	A
Unidentified Peaks	0		EPA 624.1	9/1/22	W	TRP	U
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	9/1/22	W	TRP	A
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	9/1/22	W	TRP	A
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	9/1/22	W	TRP	A

Report Summary of Qualifiers and Notes

PLE: The reporting limit was increased due to contaminant present in the laboratory environment.

M-: The Laboratory Fortified Matrix (LFM) analysis had a recovery lower than defined acceptance limits. This indicates a potential negative bias in the reported value or a difficult sample matrix that resulted in poor reproducibility between sample aliquots selected for analysis.

RPD: Variability observed. The Relative Percent Difference of the Matrix Spike Duplicate was above method acceptance limits.

Vishay Tansitor

Endyne Inc

2208-24491

Prepared:



2208-24491

Stone Environmental, Inc.
Vishay Tansitor

Bill to:

Mr. Chris Stone

Stone Environmental, Inc.

535 Stone Cutters Way

Montpelier VT 05602

Ph: (802) 229-4541

Report to:

Meghan Arpino

Stone Environmental, Inc.

535 Stone Cutters Way

Montpelier VT 05602

dbraun@stone-env.com;accounting@

Page 1 of 1

Effluent Grab

Sampled Date/Time:

8/30/22 @ 10:41 Sampler: QAT

pH Client Data

6.85 at 10:41 am 8/30/22

Pests, Priority Pollutant

4 - 1L Amber Glass

<6C, Na2S2O3, pH 5-9

SVOC Priority Pollutants

VOC Priority Pollutants

2 - 40ml vials

<6C, Na2S2O3

Trip Blank

Sampled Date/Time:

6/28/22 @ 9:30 Sampler:

VOC Priority Pollutants

2 - 40ml vials

<6C, Na2S2O3

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.



Relinquished by:

Andrew T. 8/30 1:53

Accepted by:

Date Time

Relinquished by:

Date Time

Received by:

DG 8/30/22 1:55

Date Time

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv:

Temp C:

Comment:

12.1

cooler

Temp Ck

Log by

Lab use Only



ENDYNE Inc.

www.endynelabs.com

160 James Brown Dr.
Williston, VT 05495
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315 New York Rd.
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Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Vermont Precision Tools

WORK ORDER: 2207-20494

DATE RECEIVED: July 26, 2022

DATE REPORTED: September 09, 2022

SAMPLER: Andy Fish

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

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160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 09/09/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Vermont Precision Tools

WORK ORDER: 2207-20494
DATE RECEIVED: 07/26/2022

001	Site: Effluent Grab		Date Sampled: 7/26/22		Time: 13:30			
Parameter	Result	Units	Method	Analysis Date/Time		Lab/Tech	NELAC	Qual.
pH per Client	8.25	SU at __ C	Client Data	7/26/22	13:30	W CLI	N	
Cyanide, Total	0.080	mg/L	EPA 335.4, R.1(1993)	8/1/22		N MAP	A	
Metals Digestion	Digested		EPA 200.7/200.8	8/5/22		W MGT	A	
Cadmium, Total	< 0.0005	mg/L	EPA 200.8	8/8/22	15:03	W MGT	A	
Chromium, Total	0.864	mg/L	EPA 200.8	8/10/22	11:34	W MGT	A	
Copper, Total	0.0497	mg/L	EPA 200.8	8/8/22	15:03	W MGT	A	
Lead, Total	< 0.0020	mg/L	EPA 200.8	8/10/22	12:05	W MGT	A	
Nickel, Total	0.226	mg/L	EPA 200.8	8/8/22	15:03	W MGT	A	
Silver, Total	< 0.010	mg/L	EPA 200.8	8/8/22	15:03	W MGT	A	
Zinc, Total	0.032	mg/L	EPA 200.8	8/8/22	15:03	W MGT	A	
Dioxins, Sub-contracted	See Attached		Attached	9/9/22		SWSUB	N	SBA
VOC Priority Pollutants								
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	7/30/22		W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	7/30/22		W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	7/30/22		W TRP	A	
Acetone	28.3	ug/L	EPA 624.1	7/30/22		W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Chloroform	11.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	7/30/22		W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	7/30/22		W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	7/30/22		W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	7/30/22		W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	7/30/22		W TRP	A	
Bromodichloromethane	0.9	ug/L	EPA 624.1	7/30/22		W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	7/30/22		W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	

**ENDYNE Inc.**

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Laboratory Report

DATE REPORTED: 09/09/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Vermont Precision Tools

WORK ORDER: 2207-20494
DATE RECEIVED: 07/26/2022

001	Site: Effluent Grab		Date Sampled: 7/26/22		Time: 13:30		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	U	
Surr. 1 (Dibromofluoromethane)	100	%	EPA 624.1	7/30/22	W TRP	A	
Surr. 2 (Toluene d8)	101	%	EPA 624.1	7/30/22	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	101	%	EPA 624.1	7/30/22	W TRP	A	
Unidentified Peaks	1		EPA 624.1	7/30/22	W TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	7/30/22	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	7/30/22	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	7/30/22	W TRP	A	
Priority Pollutant Pesticides							
Sep Funnel Extraction	Completed		EPA 608.3	7/27/22	W ECM	A	
alpha-BHC	< 0.009	ug/L	EPA 608.3	8/2/22	W DPD	A	
gamma-BHC (Lindane)	< 0.012	ug/L	EPA 608.3	8/2/22	W DPD	A	
beta-BHC	< 0.018	ug/L	EPA 608.3	8/2/22	W DPD	A	
delta-BHC	< 0.027	ug/L	EPA 608.3	8/2/22	W DPD	A	
Heptachlor	< 0.009	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aldrin	< 0.012	ug/L	EPA 608.3	8/2/22	W DPD	A	
Heptachlor Epoxide	< 0.249	ug/L	EPA 608.3	8/2/22	W DPD	A	
4,4'-DDE	< 0.012	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endosulfan I	< 0.042	ug/L	EPA 608.3	8/2/22	W DPD	A	
Dieldrin	< 0.006	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endrin	< 0.018	ug/L	EPA 608.3	8/2/22	W DPD	A	
4,4'-DDD	< 0.033	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endosulfan II	< 0.012	ug/L	EPA 608.3	8/2/22	W DPD	A	
4,4'-DDT	< 0.036	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endrin Aldehyde	< 0.070	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endosulfan Sulfate	< 0.198	ug/L	EPA 608.3	8/2/22	W DPD	A	
Methoxychlor	< 0.1	ug/L	EPA 608.3	8/2/22	W DPD	A	
Chlordane	< 0.150	ug/L	EPA 608.3	8/2/22	W DPD	A	
Toxaphene	< 0.720	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1016 (PCB-1016)	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1221 (PCB-1221)	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1232 (PCB-1232)	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1242 (PCB-1242)	< 0.095	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1248 (PCB-1248)	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1254 (PCB-1254)	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1260	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Surrogate-TCMX	86	%	EPA 608.3	8/2/22	W DPD	A	
Surrogate-DCB	46	%	EPA 608.3	8/2/22	W DPD	A	
SVOC Priority Pollutants							
Extraction EPA 3510C	Completed		EPA 3510C	8/2/22	W ECM	A	
N-Nitrosodimethylamine	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Bis(2-chloroethyl)ether	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,2'-Oxybis(1-chloropropane	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
N-Nitrosodi-n-propylamine	< 50.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Hexachloroethane	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	

**ENDYNE Inc.**

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Laboratory Report

DATE REPORTED: 09/09/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Vermont Precision Tools

WORK ORDER: 2207-20494
DATE RECEIVED: 07/26/2022

001	Site: Effluent Grab		Date Sampled: 7/26/22		Time: 13:30		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Nitrobenzene	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Isophorone	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Bis(2-chloroethoxy)methane	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
1,2,4-Trichlorobenzene	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Naphthalene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Hexachlorobutadiene	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Hexachlorocyclopentadiene	< 100	ug/L	EPA 625.1	8/16/22	W EEP	A	
2-Chloronaphthalene	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Dimethyl phthalate	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,6-Dinitrotoluene	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Acenaphthylene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Acenaphthene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4-Dinitrotoluene	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Fluorene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Diethyl phthalate	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
4-Chlorophenyl phenyl ether	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
N-Nitrosodiphenylamine	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Azobenzene	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	U	
4-Bromophenyl phenyl ether	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Hexachlorobenzene	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Phenanthrene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Anthracene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Di-n-butylphthalate	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Fluoranthene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzidine	< 100	ug/L	EPA 625.1	8/16/22	W EEP	A	
Pyrene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Butyl benzyl phthalate	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(a)anthracene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Chrysene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
3,3'-Dichlorobenzidine	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Bis(2-ethylhexyl)phthalate	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Di-n-octylphthalate	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(b)fluoranthene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(k)fluoranthene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(a)pyrene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Indeno(1,2,3-cd)pyrene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Dibenzo(a,h)anthracene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(g,h,i)perylene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Phenol	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2-Chlorophenol	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2-Nitrophenol	< 50.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4-Dimethylphenol	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4-Dichlorophenol	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
4-Chloro-3-methylphenol	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4,6-Trichlorophenol	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4-Dinitrophenol	< 100	ug/L	EPA 625.1	8/16/22	W EEP	A	M-

Laboratory Report

DATE REPORTED: 09/09/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Vermont Precision Tools

WORK ORDER: 2207-20494
DATE RECEIVED: 07/26/2022

001	Site: Effluent Grab		Date Sampled: 7/26/22		Time: 13:30		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
4-Nitrophenol	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
4,6-Dinitro-2-methylphenol	< 100	ug/L	EPA 625.1	8/16/22	W EEP	A	
Pentachlorophenol	< 50.0	ug/L	EPA 625.1	8/16/22	W EEP	A	M-
B/N Surr.1 Nitrobenzene-d5	76	%	EPA 625.1	8/16/22	W EEP	A	
B/N Surr.2 2-Fluorobiphenyl	77	%	EPA 625.1	8/16/22	W EEP	A	
B/N Surr.3 Terphenyl-d14	105	%	EPA 625.1	8/16/22	W EEP	A	
Acid Surr.1 2-Fluorophenol	35	%	EPA 625.1	8/16/22	W EEP	A	
Acid Surr.2 Phenol-d5	29	%	EPA 625.1	8/16/22	W EEP	A	
Acid Surr.3 Tribromophenol	93	%	EPA 625.1	8/16/22	W EEP	A	
Unidentified Peaks	> 10		EPA 625.1	8/16/22	W EEP	U	

002	Site: Trip Blank		Date Sampled: 6/28/22		Time: 9:30		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
VOC Priority Pollutants							
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	7/30/22	W TRP	A	
Acetone	< 10.0	ug/L	EPA 624.1	7/30/22	W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Chloroform	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	7/30/22	W TRP	A	

Laboratory Report

DATE REPORTED: 09/09/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Vermont Precision Tools

WORK ORDER: 2207-20494
DATE RECEIVED: 07/26/2022

002 Site: Trip Blank

Date Sampled: 6/28/22 Time: 9:30

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	U	
Surr. 1 (Dibromofluoromethane)	102	%	EPA 624.1	7/30/22	W TRP	A	
Surr. 2 (Toluene d8)	99	%	EPA 624.1	7/30/22	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	101	%	EPA 624.1	7/30/22	W TRP	A	
Unidentified Peaks	0		EPA 624.1	7/30/22	W TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	7/30/22	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	7/30/22	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	7/30/22	W TRP	A	

Report Summary of Qualifiers and Notes

Method 624: Sample 002: The sample analysis was performed on a container with significant headspace. Results may be biased low.

Method 625: Sample 001: Reporting limits increased. Dilution required due to the nature of the sample matrix.

M-: The Laboratory Fortified Matrix (LFM) analysis had a recovery lower than defined acceptance limits. This indicates a potential negative bias in the reported value or a difficult sample matrix that resulted in poor reproducibility between sample aliquots selected for analysis.

SBA: Analysis performed by subcontracted laboratory, Alpha Analytical, Mansfield MA. Results are presented here for your convenience. The complete subcontracted report has been appended to this report.



ANALYTICAL REPORT

Lab Number:	L2240813
Client:	Endyne, Inc. 160 James Brown Drive Williston, VT 05495
ATTN:	Eileen Toomey
Phone:	(802) 879-4333
Project Name:	2207-20494-W
Project Number:	2207-20494-W
Report Date:	09/09/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: 2207-20494-W
Project Number: 2207-20494-W

Lab Number: L2240813
Report Date: 09/09/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2240813-01	2207-20494 001	WATER	Not Specified	07/26/22 13:30	07/29/22

Project Name: 2207-20494-W
Project Number: 2207-20494-W

Lab Number: L2240813
Report Date: 09/09/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: 2207-20494-W
Project Number: 2207-20494-W

Lab Number: L2240813
Report Date: 09/09/22

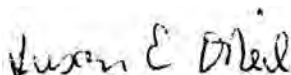
Case Narrative (continued)

Dioxins & Furans by Isotope Dilution HRMS

The WG1672509-3 LCSD recovery, associated with L2240813-01, is above the acceptance criteria for 2,3,7,8-tcdd (141%); however, the associated sample is non-detect to the RL for this target analyte. The results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Susan O'Neil

Title: Technical Director/Representative

Date: 09/09/22

ORGANICS

SEMIVOLATILES

High Resolution Mass Spectrometry

Project Name: 2207-20494-W**Lab Number:** L2240813**Project Number:** 2207-20494-W**Report Date:** 09/09/22**SAMPLE RESULTS**

Lab ID: L2240813-01
 Client ID: 2207-20494 001
 Sample Location: Not Specified

Date Collected: 07/26/22 13:30
 Date Received: 07/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8290A
 Analytical Date: 09/09/22 01:48
 Analyst: CP

Extraction Method: EPA 8290A
 Extraction Date: 08/08/22 11:23
 Cleanup Method: EPA 8290A
 Cleanup Date: 08/30/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
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Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab

2,3,7,8-TCDD	ND			pg/l	9.62	--	1
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Surrogate/Cleanup Standard	% Recovery	Qualifier	Acceptance Criteria
13C12-2,3,7,8-TCDD	51		40-135
37CL4-2,3,7,8-TCDD	99		40-135

Project Name: 2207-20494-W

Lab Number: L2240813

Project Number: 2207-20494-W

Report Date: 09/09/22

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8290A
 Analytical Date: 09/08/22 22:35
 Analyst: CP

Extraction Method: EPA 8290A
 Extraction Date: 08/08/22 11:23
 Cleanup Method: EPA 8290A
 Cleanup Date: 08/30/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab for sample(s): 01 Batch: WG1672509-1						
2,3,7,8-TCDD	ND			pg/l	10.0	--
Surrogate/Cleanup Standard	%Recovery		Qualifier	Acceptance Criteria		
13C12-2,3,7,8-TCDD	62			40-135		
37CL4-2,3,7,8-TCDD	102			40-135		

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 2207-20494-W**Lab Number:** L2240813**Project Number:** 2207-20494-W**Report Date:** 09/09/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab Associated sample(s): 01 Batch: WG1672509-2 WG1672509-3								
2,3,7,8-TCDD	124		141	Q	71-125	13		25

Surrogate/Cleanup Standard	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
13C12-2,3,7,8-TCDD	59		58		40-135
37CL4-2,3,7,8-TCDD	103		111		40-135

Project Name: 2207-20494-W**Lab Number:** L2240813**Project Number:** 2207-20494-W**Report Date:** 09/09/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2240813-01A	Amber 1000ml unpreserved	A	7	7	4.1	Y	Absent		A2-DIOXIN-8290(365)
L2240813-01B	Amber 1000ml unpreserved	A	7	7	4.1	Y	Absent		A2-DIOXIN-8290(365)

Project Name: 2207-20494-W
Project Number: 2207-20494-W

Lab Number: L2240813
Report Date: 09/09/22

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: 2207-20494-W
Project Number: 2207-20494-W

Lab Number: L2240813
Report Date: 09/09/22

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: 2207-20494-W
Project Number: 2207-20494-W

Lab Number: L2240813
Report Date: 09/09/22

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: 2207-20494-W
Project Number: 2207-20494-W

Lab Number: L2240813
Report Date: 09/09/22

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 19

Published Date: 4/2/2021 1:14:23 PM

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625/625.1:** alpha-Terpineol**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D/8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

7/30/22

L2240813

Chain of Custody

Alpha Analytical
Eight Walkup Drive

Westboro MA 01581

Ph 508-898-9220

STATE OF ORIGIN: VERMONT

The analysis requested requires that you have and maintain NELAC certification. If you do not currently have NELAC certification in the above referenced State, and specified matrix please contact Endyne immediately at (802) 879-4333 ext 301. Thank you.

Copy of Report To	Billing Information	Project Information
CUSTOMER: Endyne, Inc.	BILL TO: Endyne, Inc.	2207-20494-W
ADDRESS: 160 James Brown Drive	ADDRESS: 160 James Brown Drive	TURN AROUND TIME:
Williston, VT 05495	Williston, VT 05495	SPECIAL INSTRUCTIONS:
ATTENTION: Eileen Toomey	ATTENTION: Reporting	
E-MAIL: etoomey@endynelabs.com	E-MAIL: etoomey@endynelabs.com	
PHONE: (802) 879-4333 x 300	PHONE: 802-879-4333 x 308	

Dioxins, Sub-contracted

Sample IdentificationMatrixDT TM Sampled

2207-20494 001 Effluent Grab

010

NP

7/26/22 13:30

Wendy Moroney 7/30/22 2:30

Sam Oldrid 7/30/22 04:30

7/28/22

Rel B. Lyons 7/29/22

Relinquished by: (Sign, Date, Time)

E. O'Neil 1400

Page 16 of 16 (Sign, Date, Time)

B. Lyons 444 7/29/22 13:00

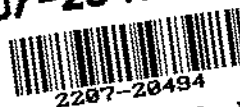
7/30/22 00:15

Vermont Precision Tools

Endyne Inc. COC

Prepared: 6/23/22

2207-20494



Stone Environmental, Inc.
Vermont Precision Tools

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust #

DE

W-7

Page 1 of 1

Effluent Grab

Sampled Date/Time:

7/26/22 @ 1:30

Sampler:

DA7

pH Client Data

8.25 taken at 1:18 pm

Cyanide, Total

1 - 8 oz Plastic for CN ✓

<6C, NaOH Na₂S₂O₃, Cl₂

Pests, Priority Pollutant

4- 1L Amber Glass

<6C, Na₂S₂O₃, pH 5-9

SVOC Priority Pollutants

6

Cadmium, Total

1 - 16 oz Plastic Total Metals

HNO₃ pH < 2

Chromium, Total

Copper, Total

Lead, Total

Nickel, Total

Silver, Total

Zinc, Total

Client collected the sample
and delivered to the lab
7/27/22. Collection date is as
above. ECT

VOC Priority Pollutants

2 - 40ml vials ✓

<6C, Na₂S₂O₃

Trip Blank

Sampled Date/Time:

6/28/22 @ 9:30 am

Sampler:

DA7

VOC Priority Pollutants

2 - 40ml vials

<6C, Na₂S₂O₃

One or more sample bottles in this project must be
kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the
temperature preservation requirements are not satisfied.

INITIAL HERE

Relinquished by:

Andrew Fish 7/26/22 3:23

Accepted by:

Eileen Torrey 7/26/22 @ 1523

Relinquished by:

Received by:

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin:

VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv: Client
Temp C: 13.4
Comment:

Temp Ck
Log by

Lab use Only



ENDYNE Inc.

www.endynelabs.com

160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Elna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: VT Hard Cider Exchange St

WORK ORDER: **2208-23502**

DATE RECEIVED: August 19, 2022

DATE REPORTED: August 26, 2022

SAMPLER: APH

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 08/26/2022

CLIENT: Stone Environmental, Inc.
 PROJECT: VT Hard Cider Exchange St

WORK ORDER: **2208-23502**
 DATE RECEIVED: 08/19/2022

001

Site: Effluent Grab

Date Sampled: 8/19/22 Time: 9:30

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	7.04	SU at __C	Client Data	8/19/22 9:30	W CLI	N	
BOD-5day	910	mg/L	SM 5210B(16)	8/19/22 16:26	W JSS	A	
Solids, Total Suspended	61	mg/L	SM 2540 D-15	8/24/22	W JSS	A	

VT Hard Cider Exchange St

Endyne Inc. COC

2208-23502

Prepared: 8/18/22



2208-23502

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust #

DEC

W-70

Stone Environmental, Inc.
UT Hard Cider Exchange St

Effluent Grab

Sampled Date/Time:

8/19/22 @ 9:30

Sampler:

APH

pH Client Data

7.04

BOD-5day

1- 8 oz Plastic

<6C

Solids, Total Suspended

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

APH

INITIAL HERE

Relinquished by:

[Signature]

8/19/22 15:00

Date Time

Accepted by:

[Signature]

Date Time

Relinquished by:

Received by:

8/19/22

1505

Date Time

Date Time

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv:

Temp C: -7.5

Comment:

Temp Ck

Log by

Lab use Only



160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03766
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Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052

Independent Compliance Sampling of Process Wastewater at Vermont Significant Industrial Users: September 2022 Monthly Report



PROJECT NO.

20221085

REVIEWED BY:

APH

PREPARED FOR:

Nick Giannetti / Pretreatment Coordinator
VT Agency of Natural Resources
Department of Environmental Conservation
Wastewater Management Division
1 National Life Drive, Davis 3
Montpelier / VT / 0502

SUBMITTED BY:

Meghan Arpino / Project Hydrologist
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier / VT 05602
marpino@stone-env.com
845.323.3436

Compliance Sampling of SIUs: September 2022 Monthly Report

Cover Photo:
Wastewater tanks
at Franklin
Foods.

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1. Sampling Summary and Schedule

A summary of the Significant Industrial User (SIU) sampling events completed in September and October 2022 is provided in Table 1. Sampling events are described in more detail in Section 1.1 through 1.4. Sampling event and facility photos are provided in Appendix A. Laboratory reports available at the time of this report, including chains of custody (COC), are provided in Appendix B. As in previous months, there are a few instances where the laboratory recorded temperature upon receipt is greater than 6°C or lower than 0°C. We believe this is due to the receiving procedures at the laboratory and/or insufficient time for samples to cool down between collection and delivery, as all samples were stored and delivered in coolers with ice, and none were frozen.

Table 1: Summary of sampling events completed in September/October 2022

Facility Sampled	Date(s)	Parameters Sampled or Measured
Alchemist – Stowe	9/7/2022	BOD ₅ , TSS, TP, pH
Ben and Jerry's – St Albans	9/27/2022	Oil & Grease, BOD ₅ , SBOD, TP, pH
Fiddlehead Brewery	9/21/2022	BOD ₅ , TSS, TAN, TKN, TP, pH
Franklin Foods	9/7/2022	Oil & Grease, BOD ₅ , TP, pH
Lost Nation Brewery	10/3/2022	BOD ₅ , TSS, pH

1.1. Alchemist – Stowe

Alchemist - Stowe was sampled on 9/7/2022 for a 4-hour period from 9:30 am to 1:30 pm. The facility's Hach AS950 sampler and mag meter were inspected by sampling personnel and used for time-paced composite sample collection representative of consistent flow. The autosampler was programed to collect 200 ml of wastewater every 15 minutes. The target discharge flow rate was 5.5 gpm. The pump delivered consistent flow, except for drops in flow rate lasting less than 5 minutes when the skimmer was operating. Composite samples were collected for Biochemical Oxygen Demand (BOD-5day) and Total Suspended Solids (TSS), and Total Phosphorus (TP). A total of 1,092.4 gallons were discharged during the 4-hour period. No equipment errors or malfunctions were encountered.

A grab pH measurement was taken at 12:55 pm using a handheld pH meter, with a resulting pH of 7.34. Samples were delivered to the analytical laboratory in a cooler with ice. Lab results were reported on 9/20/2022 and are provided in Appendix B, there were no qualifiers for the samples or analysis. The level of accuracy for the BOD-5day results is influenced by the analytical approach, in which the analyst makes assumptions around the expected BOD value based on the turbidity of the sample. The turbidity of the Alchemist sample led the analyst in the case to believe that the BOD was higher than it actually was,

therefore, there is more uncertainty around the BOD results and are reported with a lower level of accuracy that the Alchemist -Stowe typically sees in their analytical reports.

1.2. Ben and Jerry's – St. Albans

Ben and Jerry's – St. Albans was sampled from 12:00 am on 9/27/2022 to 11:59 am 9/27/2022. One sample aliquot was collected from each discharge tank based on the volume discharged from the tank. The sample aliquots were composited into a carboy stored in a refrigerator kept at $<6^{\circ}\text{C}$. The facility has three 13,000-gallon tanks (Lines 1 to 4) and two 7,000-gallon tanks (Line 5). A total of 9 discharges occurred during the 24-hour period, seven Line 1 tank discharges and two Line 5 tank discharges. The total volume discharged was 76,640 gallons. Grab samples were collected for pH at 4:16 pm and Oil & Grease at 10:06 am and 11:50 am. The grab sample pH reading was 6.95. Samples were stored on ice overnight and shipped via courier to the analytical laboratory in a cooler the next morning. Sample results were reported for Oil & Grease on 10/4/2022 and BOD-5day and TP on 10/10/2022, there were no qualifiers for the samples or analysis.

1.3. Fiddlehead Brewery

The Fiddlehead Brewery facility was sampled from 9:30 am 9/21/2022 to 9:30 am 9/22/2022. The facility discharge is set for a constant 5.5 gpm, so a time-paced sampling approach was used where 150 mL aliquots were collected every 15 minutes and composited for BOD-5day, TSS, TKN, and TSS analysis. The composite sample was collected using the facility's Sigma 5800 autosampler connected to an IFM flowmeter. The total volume discharged over the sampling period was 6,995 gallons.

Grab samples were collected for pH measurement and for TAN. The TAN sample was collected on 9/13/2022, during the first attempt at composite sample collection. This composite sample was determined not to be representative and improperly stored due to an overnight power outage. However, the TAN grab sample was not impacted by the power outage and therefore submitted for analysis. The grab samples were collected using the autosampler "Grab" function. On the day of TAN sample collection (first composite attempt, 9/13/2022), the pH was measured at 11:19 am (result = 6.97) and the TAN grab sample was collected at 11:30 am. A second pH grab sample was collected at 9:33 on 9/21/2022 with a result of 7.02.

Samples were delivered to the analytical laboratory in a cooler with ice on the same day as collection. Sample results were reported for BOD-5day, TAN, TKN, TP, and TSS on 10/10/2022 and the TAN grab sample and associated trip blanks on 9/26/2022. The result for TKN included a qualifier indicating that the sample was not preserved to a pH <2 . The bottle used for this sample was an Endyne provided sample bottle and it was assumed the correct amount of acid had been included. The lab results are provided in Appendix B.

1.4. Franklin Foods

The Franklin Foods facility was sampled from 6:00 am 9/7/2022 to 6:00 am 9/8/2022. A 24-hour manually flow-proportioned composite sample was collected for BOD-5day and TP analysis. The composite sample was collected using Stone's ISCO 6712 autosampler. Hourly flow measurements were obtained by taking hourly photographs of the flow meter display and checking the display against the facility flow wheel chart. The autosampler was packed with ice multiple times throughout the sample period to maintain a temperature $<6^{\circ}\text{C}$. The total volume discharged over the sampling period was 54,100 gallons.

Grab samples were collected for a pH measurement and for Oil & Grease analysis. One duplicate Oil & Grease sample was collected. The grab samples were collected from the sample port on the discharge pipe at 2:00 pm on 9/7/2022. The measured pH was 6.63.

Samples were delivered to the analytical laboratory in a cooler with ice on the same day as composite sample was collected (9/8/2022). Sample results were reported for Oil & Grease on 9/15/2022 and BOD-5day and TP on 9/20/2022 and are provided in Appendix B.

1.5. Lost Nation Brewing

Sampling was completed at Lost Nation Brewing from 5:30 am 10/6/22 to 2:30 pm 10/6/2022. The facility autosampler (Global Water WS700) was used to collect an approximately 400 mL aliquot every 150 gallons discharged for a flow-proportional composite sample. To pull aliquots of sufficient volume for a representative composite sample, the autosampler aliquot needed to be set at a volume almost double the target volume. Lost Nation is currently working to fix this setting issue, but this workaround was sufficient for this sampling effort. The autosampler was connected to a Rosemount flowmeter. The total volume discharged was 1,853 gallons. The composite sample jug was housed in a refrigerator with ice packs and wet ice added to the space surrounding the jug to ensure that a temperature of $< 6^{\circ}\text{C}$ was maintained during sampling. The composite sample was collected for BOD and TSS. One grab sample was collected for pH measurement at 9:58 am on 10/6/2022 using the “Test Pump” button on the autosampler which acts like a grab sample. The grab sample pH reading was 8.54. Samples were stored on ice overnight and shipped via courier to the laboratory on the morning of 10/7/2022. At the drafting of this monthly report, the sample results had not been reported. These will be included in the final report.

1.6. Updated Sampling Schedule

To date, all facilities have been sampled. Final sample dates for all facilities can be found in Table 2 below.

Table 2: Updated sampling schedule for June – September 2022.

Facility Name	Scheduled Sampling Date
Agri-Mark - Middlebury	7/12/2022 - 7/14/2022*
Alchemist - Stowe	9/7/2022*
Alchemist - Waterbury	7/12 setup, 7/14 pickup*
Ben & Jerry's - St Albans	9/27/2022*
Ben & Jerrys - Waterbury	7/7/2022*
Commonwealth Dairy	8/25/2022*
Drews LLC	8/9/2022*
Edlund Company	6/28/2022*
Fiddlehead Brewing	9/21/2022-9/22/2022*
Franklin Foods Inc	9/7/2022 – 9/8/2022*
G.S. Precision Coating, Inc	8/16/2022-8/17/2022*
General Electric - Columbian Ave	8/4/2022-8/5/2022*
General Electric - Windcrest Road	8/2/2022*
Goodrich Corp Fuel Utility Systems	7/19/2022-7/20/2022*
Lost Nation Brewery	10/6/2022*
Magic Hat Brewing (Zero Gravity)	7/5/2022-7/6/2022*
Otter Creek Brewing	6/28-6/29*
Plumrose USA	8/1/2022 – 8/2/2022*
Rock Art Brewery LLC	8/17/2022*
St Albans Creamery, LLC	7/5/2022*
Trapp Lager Brewery	8/2/2022*
Vishay Tansitor	8/30/2022
VT Hard Cider - Exchange St	8/17/2022-8/18/2022*
VT Precision Tools	7/26/2022*

**Sampling has been completed or is in process and summary will be included in the next monthly report*

Appendix A: Photos

Alchemist – Stowe

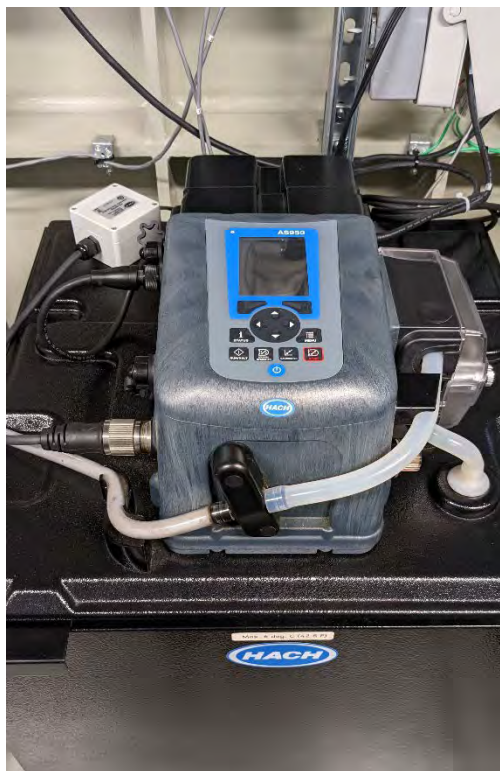


Figure 1. Alchemist - Stowe autosampler.



Figure 2. Grab sample collection point on effluent line and grate leading to composite sample intake line location.

Ben & Jerry's - St. Albans



Figure 3. Ben & Jerry's Line 5 sampling location.



Figure 4. Ben & Jerry's wastewater tank 1 with sampling port.

Fiddlehead Brewing



Figure 5. Fiddlehead Brewery autosampling location.



Figure 6. Fiddlehead Brewery discharge sample point.

Franklin Foods



Figure 7. Franklin Foods discharge point.



Figure 8. Franklin Foods sample point.

Lost Nation Brewing



Figure 9. Lost Nation Brewery refrigerated autosampler.



Figure 10. Lost Nation Brewery discharge sample point.

Appendix B: Laboratory Reports and COCs



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Alchemist - Stowe

WORK ORDER: **2209-25385**

DATE RECEIVED: September 07, 2022

DATE REPORTED: September 20, 2022

SAMPLER: MRA

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 09/20/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: 2209-25385

PROJECT: Alchemist - Stowe

DATE RECEIVED: 09/07/2022

001 Site: Effluent Grab Date Sampled: 9/7/22 Time: 13:30

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
pH per Client	7.34	SU at __C	Client Data	9/7/22 13:30	W CLI	N	
BOD-5day	< 400	mg/L	SM 5210B(16)	9/8/22 13:01	W JSS	A	
Phosphorus, Total	1.4	mg/L	EPA 365.1, R.2(1993)	9/13/22 12:25	N KAQ	A	
Solids, Total Suspended	44	mg/L	SM 2540 D-15	9/12/22	W JSS	A	

002 Site: Effluent Grab DUP Date Sampled: 9/7/22 Time: 13:30

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
BOD-5day	< 400	mg/L	SM 5210B(16)	9/8/22 13:09	W JSS	A	
Phosphorus, Total	1.4	mg/L	EPA 365.1, R.2(1993)	9/15/22	N MAP	A	
Solids, Total Suspended	33	mg/L	SM 2540 D-15	9/12/22	W JSS	A	

Alchemist - Stowe

Endyne Inc. COC

2209-25385

Prepared: 6/22/22



2209-25385

Bill to:
Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:
Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbaun@stone-env.com;accounting@

Cust # 070

DECRFF

W-70233.

Stone Environmental, Inc.
Alchemist - Stowe

Effluent Grab

Sampled Date/Time: 9/7/22 @ 1:30 PM Sampler: MRA

pH Client Data 7.34

BOD-5day

1 - 8 oz Plastic

<6C

Solids, Total Suspended

Phosphorus, Total

1 - 60ml Vial

<6C, H2SO4

QC dup ^{1 vial} BOD 5 day
Solids, Total Suspended

1602
1 - 8 oz Plastic
MRA, 9/7/22

<66

QC Duplicate
Phosphorus, Total

1 - 60 ml vial

<6C H2SO4

Please analyze duplicate QC samples.

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied: MKA



Relinquished by: [Signature] 9/7/22 2:38 PM

Date Time

Accepted by:

Relinquished by:

Received by:

Date Time

Date Time

Date Time

Sites/Parameters correct as listed. Client Initials MRA

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☒ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PC#)

Requested Turnaround Time: Routine: Rush Due Date

Delv: Client
Temp C: 0.1
Comment:

Temp Ck
Log by

Lab use Only



160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Ben & Jerry's St Albans

WORK ORDER: **2209-28080**

DATE RECEIVED: September 28, 2022

DATE REPORTED: October 10, 2022

SAMPLER: APH

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 10/10/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2209-28080**

PROJECT: Ben & Jerry's St Albans

DATE RECEIVED: 09/28/2022

001

Site: Effluent Grab

Date Sampled: 9/27/22 Time: 21:25

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>		<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	6.95	SU at __C	Client Data	9/27/22	21:25	W CLI	N	
BOD-5day, Soluble	1,500	mg/L	SM 5210B (-16)	9/29/22	14:33	W JSS	A	
BOD-5day	2,700	mg/L	SM 5210B(16)	9/29/22	14:28	W JSS	A	
Phosphorus, Total	20	mg/L	EPA 365.1, R.2(1993)	10/4/22		N MAP	A	

**ENDYNE Inc.**

www.endynelabs.com

Ben & Jerry's St Albans

Endyne Inc. COC

Prepared: 6/16/22

2209-28080

Bill to:

Mr. Chris Stone

Stone Environmental, Inc.

535 Stone Cutters Way

Montpelier VT 05602

Ph: (802) 229-4541

Report to:

Meghan Arpino

Stone Environmental, Inc.

535 Stone Cutters Way

Montpelier VT 05602

dbraun@stone-env.com;accounting@

Cust #

DECR

W-702



2209-28080

Stone Environmental, Inc.
Ben & Jerry's St Albans

Effluent Grab

Sampled Date/Time:

9/27/22 @ 21:25

Sampler:

APK

pH Client Data

6.95

~~Oil & Grease~~~~1 - 1 liter & 1 - 8 oz Amber Glass <6C, HOL~~

BOD-5day, Soluble

✓ 1 - 16 oz Plastic

<6C

BOD-5day

Phosphorus, Total

✓ 1 - 60 ml Vial

<6C, H2SO4

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

Relinquished by:

9/29/22 9:00

Date Time

Accepted by:

Date Time

Relinquished by:

Received by:

9/28/22 1445

Date Time

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab. Client Initials

Sample origin:

VT

☐

NH

☐

NY

☐

Other

☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv: GMM

Temp C: -5.4

Comment:

Tmpl Ck

Log by

Lab use Only



ENDYNE Inc.

www.endynelabs.com

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Fax 603-678-4893

315 New York Rd.

Plattsburgh, NY 12903

Ph 518-563-1720

Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Ben & Jerry's St Albans

WORK ORDER: **2209-27886**

DATE RECEIVED: September 27, 2022

DATE REPORTED: October 04, 2022

SAMPLER: Andy

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 10/04/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2209-27886**

PROJECT: Ben & Jerry's St Albans

DATE RECEIVED: 09/27/2022

001 Site: Effluent Grab Date Sampled: 9/27/22 Time: 10:06

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
Oil & Grease Total Recoverable	1330	mg/L	EPA 1664A	10/3/22	W CLD	N	

002 Site: Tank 1 Date Sampled: 9/27/22 Time: 11:50

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
Oil & Grease Total Recoverable	1220	mg/L	EPA 1664A	10/3/22	W CLD	N	

Ben & Jerry's St Albans

Endyne Inc. COC

Lab Use WO#

Prepared: 6/16/22

2209-27886

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust # 01



2209-27886

DECRI

Stone Environmental, Inc.
Ben & Jerry's St Albans

W-7023

Effluent Grab

Sampled Date/Time:

9/27/22 @ 10:06

Sampler:

Andy

pH Client Data

Oil & Grease



1 - Liter & 1 - 8 oz Amber Glass <6C, HCL

BOD-5day, Soluble
BOD-5day

1 - 16 oz Plastic

<6C

Phosphorus, Total

1 - 60 ml Vial

<6C, H2SO4

Tank 1

Oil & Grease

9/27/22 11:50am

One or more sample bottles in this project must be
kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the
temperature preservation requirements are not satisfied.

Relinquished by:

Andrew Fish 9/27/22 5:15
Date Time

Accepted by:

Relinquished by:

Received by:

Clara Ho 9/27/22 12:15
Date Time

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Deliv:

Temp C:

Comment:

Client

5.8

Temp Ck

Log by

Lab use Only



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315 New York Rd.
Plattsburgh, NY 12903
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Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Fiddlehead Brewing

WORK ORDER: **2209-27313**

DATE RECEIVED: September 22, 2022

DATE REPORTED: October 10, 2022

SAMPLER: APH

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

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Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

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56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 10/10/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2209-27313**

PROJECT: Fiddlehead Brewing

DATE RECEIVED: 09/22/2022

001

Site: Effluent Grab

Date Sampled: 9/22/22 Time: 9:30

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	7.02	SU at __C	Client Data	9/22/22 9:30	W CLI	N	
BOD-5day	37	mg/L	SM 5210B(16)	9/23/22 12:07	W JSS	A	
Ammonia as N	160	mg/L	EPA 350.1, R.2(1993)	10/5/22	N MAP	A	
TKN	170	mg/L	EPA 351.2, R.2(1993)	10/5/22	N MAP	A	P2
Phosphorus, Total	59	mg/L	EPA 365.1, R.2(1993)	9/29/22	N MAP	A	
Solids, Total Suspended	5	mg/L	SM 2540 D-15	9/27/22	W JSS	A	

Report Summary of Qualifiers and Notes

P2: The sample was not preserved to a pH < 2.

Fiddlehead Brewing

Endyne Inc. COC

2209-27313

Prepared: 6/23/22



2209-27313

Stone Environmental, Inc.
Fiddlehead Brewing

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arplno
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust# 07

DECRF

W-70231

Page 1 of 1

Effluent Grab

Sampled Date/Time:

9/22/22 @ 9:30

Sampler:

AP4

pH Client Data

7.02

BOD-5day

✓ 1 - 16 oz Plastic

<6C

Solids, Total Suspended

Ammonia as N

✓ 1 - 32 oz Plastic

<6C, NY Phos, H2SO4

TKN

Phosphorus, Total

✓ 1 - 60ml Vial

<6C, H2SO4

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

APM

INITIALS

Relinquished by:

[Signature]

9/22/22 10:05

Date Time

Accepted by:

Relinquished by:

Date Time

Received by:

Date Time

Date Time

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv: *[Signature]*

Temp C: 3.9

Comment:

Temp Ck

Log by

Lab use Only



ENDYNE Inc.

www.endynelabs.com

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315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Fiddlehead Brewing

WORK ORDER: **2209-25958**

DATE RECEIVED: September 13, 2022

DATE REPORTED: September 26, 2022

SAMPLER: APH

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

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Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 09/26/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2209-25958**

PROJECT: Fiddlehead Brewing

DATE RECEIVED: 09/13/2022

001 Site: Effluent Grab Date Sampled: 9/13/22 Time: 11:30

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	6.97	SU at __C	Client Data	9/13/22 11:30	W CLI	N	
Ammonia as N	180	mg/L	EPA 350.1, R.2(1993)	9/23/22	N CAL	A	

002 Site: Effluent Grab Date Sampled: 9/13/22 Time: 9:30

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
Phosphorus, Total	< 0.012	mg/L	EPA 365.1, R.2(1993)	9/22/22	N CAL	A	
Solids, Total Suspended	< 1	mg/L	SM 2540 D-15	9/19/22	W JSS	A	

Fiddlehead Brewing

Endyne Inc. COC

2209-25958

Prepared: 8/23/22

Bill to: Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to: Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust # 071
DECRFI
W-7023

2209-25958
Stone Environmental, Inc.
Fiddlehead Brewing

Effluent Grab

Sampled Date/Time: 9/13/22 @ 11:30

Sampler: APH

pH Client Data 6.97

@ 9:30

~~POB-5107~~ 1 - 16 oz Plastic <6C
Solids, Total Suspended - Fiddlehead-TB

@ 11:30

Ammonia as N 1 - 32 oz Plastic <6C, NY Phos, H2SO4

@ 9:30

Phosphorus, Total - Fiddlehead-TB 1 - 60ml Vial <6C, H2SO4

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

APH



Relinquished by:

Ala J

9/13/22

12:38

Date Time

Accepted by:

Relinquished by:

Received by:

Chair de

9/13/22 10:40

Date Time

Date Time

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv: Client
Temp C: 6.1
Comment:

Tmpl Ck
Log by

Lab use Only



ENDYNE Inc.

www.endynelabs.com

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315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Franklin Foods, Inc

WORK ORDER: **2209-25469**

DATE RECEIVED: September 08, 2022

DATE REPORTED: September 20, 2022

SAMPLER: APH

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

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Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

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56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 09/20/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2209-25469**

PROJECT: Franklin Foods, Inc

DATE RECEIVED: 09/08/2022

001

Site: Effluent Grab

Date Sampled: 9/8/22

Time: 7:00

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	6.63	SU at __C	Client Data	9/8/22 7:00	W CLI	N	
BOD-5day	520	mg/L	SM 5210B(16)	9/8/22 14:21	W JSS	A	
Phosphorus, Total	1.0	mg/L	EPA 365.1, R.2(1993)	9/15/22	N MAP	A	M+

Report Summary of Qualifiers and Notes

M+: The Laboratory Fortified Matrix (LFM) analysis had a recovery greater than defined acceptance limits. This indicates a potential positive bias in the reported value or a difficult sample matrix that resulted in poor reproducibility between sample aliquots selected for analysis.

Franklin Foods, Inc

Endyne Inc. COC

2209-25469

Prepared: 6/23/22



2209-25469

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust #

Stone Environmental, Inc.
Franklin Foods, Inc

6 of 1

Effluent Grab

Sampled Date/Time:

9 / 8 / 22 @ 7:00 AM

Sampler:

APH

pH Client Data

6.63

~~Oil & Grease~~

~~1 L & 1 - 8 oz Amber Glass~~

~~<6C, HCl~~

BOD-5day

✓ 1 - 8 oz Plastic

<6C

Phosphorus, Total

✓ 1 - 60ml Vial

<6C, H2SO4

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

APH

INITIAL

Relinquished by:

Alex Dwyer 9/8/22 9:07

Accepted by:

Relinquished by:

Received by:

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin:

VT

☐ NH

☐ NY

☐ Other

☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv: *nd*

Temp C: *0.0*

Comment:

Temp Ck

Log by

Lab use Only



160 James Brown Dr.
Williston, VT 05495
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315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Franklin Foods, Inc

WORK ORDER: **2209-25468**

DATE RECEIVED: September 08, 2022

DATE REPORTED: September 15, 2022

SAMPLER: APH

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 09/15/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2209-25468**

PROJECT: Franklin Foods, Inc

DATE RECEIVED: 09/08/2022

001 Site: Effluent Grab Date Sampled: 9/7/22 Time: 14:00

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	6.63	SU at __C	Client Data	9/8/22 7:00	W CLI	N	
Oil & Grease Total Recoverable	5.3	mg/L	EPA 1664A	9/14/22	W CLD	A	

002 Site: Effluent Grab Duplicate Date Sampled: 9/7/22 Time: 14:00

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	6.63	SU at __C	Client Data	9/8/22 7:00	W CLI	N	
Oil & Grease Total Recoverable	2.8	mg/L	EPA 1664A	9/14/22	W CLD	A	

Franklin Foods, Inc

Endyne Inc. COC

Prepared: 6/23/22

2209-25468



2209-25468

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Argino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust #

DECI

W-7C

Stone Environmental, Inc.
Franklin Foods, Inc

Page 1 of 1

Effluent Grab

Sampled Date/Time:

9/7/22 @ 14:00

Sampler:

APH

pH Client Data

6.63

Oil & Grease

Franklin Foods

1-L & 1 - 8 oz Amber Glass

<6C, HCl

BOD-5day

1 - 8 oz Plastic

<6C

Phosphorus, Total

1 - 60ml Vial

<6C, H2SO4

Oil & Grease

FF-2

1-L & 1-8oz Amber

<6C, HCl

Two Sets Rec'd, run extra as duplicate
-CSS 9/8/22

One or more sample bottles in this project must be
kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the
temperature preservation requirements are not satisfied.

APH

INITIALS

Relinquished by:

APH

9/8/22 9:07

Date Time

Accepted by:

Relinquished by:

Received by:

Date Time

9/8/22 9:07

Date/Time

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin:

VT

☐

NH

☐

NY

☐

Other

☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Dely:

Temp C: 0.0

Comment:

Tmpl Ck

Log by

Lab use Only



ENDYNE Inc.

www.endynelabs.com

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Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052

Appendix B: Analytical Results



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Agrimark - Middlebury

WORK ORDER: **2207-19207**

DATE RECEIVED: July 14, 2022

DATE REPORTED: July 25, 2022

SAMPLER: AF

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

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Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

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Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 07/25/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: 2207-19207

PROJECT: Agrimark - Middlebury

DATE RECEIVED: 07/14/2022

001 Site: Effluent Composite Date Sampled: 7/14/22 Time: 9:28

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
pH per Client	6.57	SU at __C	Client Data	7/14/22 9:28	W CLI	N	
BOD-5day	1,200	mg/L	SM 5210B(16)	7/14/22 15:18	W JSS	A	
Phosphorus, Total	22	mg/L	EPA 365.1, R.2(1993)	7/18/22	N MAP	A	HS
Solids, Total Suspended	190	mg/L	SM 2540 D-15	7/19/22	W JSS	A	

002 Site: Effluent Grab Date Sampled: 7/14/22 Time: 12:00

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Oil & Grease Total Recoverable	14.8	mg/L	EPA 1664A	7/21/22	W CLD	A	MOD

Report Summary of Qualifiers and Notes

HS: Bottle was filled without the required headspace per the sampling instructions. The results have a decreased level of accuracy and may be biased low. Please refer to the applicable sampling instructions for future sampling.

MOD: Method Modification: The entire content of the sample container was not analyzed due to the nature of the sample matrix.

3,486

3486

41

839 x .04192

Agrimark - Middlebury

Endyne Inc. COC

2207-19207

Prepared: 6/22/22

Bill to:
Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to: 450
Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust # 070



DECRFP: Stone Environmental, Inc.
Agrinark - Middlebury
W-70233AI

Effluent Grab p H + 0 + 6 Sampled Date/Time: 7/14/22 @ 9:28^{am} Sampler: GA7

pH Client Data 6.57

BOD-5day
Solids, Total Suspended

Composite
per client 1 - 8 oz Plastic

<6C

Phosphorus, Total

1 - 60ml Vial

<6C, H2SO4

Oil + grease - 500 ml glass
250 ml glass - 16% HCL

Grab per client

Effluent composite
12:01 7/13 - 12:00 7/14

FLOW - 419,200

max daily 465C
1 hours

max day flow = 450 gpm
permission from town
to go to 550 gpm for
1/2 hour

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.



Relinquished by: Andrew Fiel 7/14/22

Date Time

Accepted by: _____

Date Time

Relinquished by: _____

Date Time

Received by: Chad H 7/14/22 11:55

Date Time

Sites/Parameters correct as listed. Client Initials _____

Client Authorization to use Subcontract lab Client Initials _____

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#) _____

Requested Turnaround Time: Routine: Rush Due Date _____

Delv: Clients
Temp C: 11.5
Comment:

Temp Ck
Log by

Lab use Only



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315 New York Rd.
Plattsburgh, NY 12903
Ph 518-583-1720
Fax 518-583-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Agrimark - Middlebury

WORK ORDER: **2209-26687**

DATE RECEIVED: September 16, 2022

DATE REPORTED: September 26, 2022

SAMPLER: AF

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

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Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

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56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 09/26/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2209-26687**

PROJECT: Agrimark - Middlebury

DATE RECEIVED: 09/16/2022

001

Site: Effluent Grab

Date Sampled: 9/16/22 Time: 9:50

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	7.71	SU at __C	Client Data	9/16/22 9:50	W CLI	N	
Oil & Grease Total Recoverable	11.3	mg/L	EPA 1664A	9/22/22	W CLD	A	

Agrimark - Middlebury

Endyne Inc. COC

2209-26687

Prepared: 6/22/22



2209-26687

Bill to:
Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:
Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust # ()
DECR
W-7023

Stone Environmental, Inc.
Agrimark - Middlebury

Page 1 of 1

Effluent Grab

Sampled Date/Time: 6/16/22 @ 9:50 Sampler: QD7pH Client Data 7.71

BOD-5day

1 - 8 oz Plastic

<6C

Solids, Total Suspended

Phosphorus, Total

1 - 60ml Vial

<6C, H2SO4

Oil & Grease

1L & 1-8oz Amber Glass

Had to submerge bottle to get sample
so I added HCL at volumes of
~~5ml~~ to 5ml/L and 1m/8oz to
each of the bottles respectively

One or more sample bottles in this project must be
kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the
temperature preservation requirements are not satisfied.

Relinquished by: Andrew Fash 9/16/22 11:10

Date Time

Accepted by: Alex Loney 9/16/22 @ 11:10

Date Time

Relinquished by:

Received by:

Date Time

Sites/Parameters correct as listed. Client Initials _____

Date Time

Client Authorization to use Subcontract lab Client Initials _____

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#) _____

Requested Turnaround Time: Routine: Rush Due Date _____

Deliv: Client
Temp C: 4.2
Comment:

Temp Ck
Log by

Lab use Only



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Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Alchemist - Stowe

WORK ORDER: **2209-25385**

DATE RECEIVED: September 07, 2022

DATE REPORTED: September 20, 2022

SAMPLER: MRA

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

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Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 09/20/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: 2209-25385

PROJECT: Alchemist - Stowe

DATE RECEIVED: 09/07/2022

001 Site: Effluent Grab Date Sampled: 9/7/22 Time: 13:30

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
pH per Client	7.34	SU at __C	Client Data	9/7/22 13:30	W CLI	N	
BOD-5day	< 400	mg/L	SM 5210B(16)	9/8/22 13:01	W JSS	A	
Phosphorus, Total	1.4	mg/L	EPA 365.1, R.2(1993)	9/13/22 12:25	N KAQ	A	
Solids, Total Suspended	44	mg/L	SM 2540 D-15	9/12/22	W JSS	A	

002 Site: Effluent Grab DUP Date Sampled: 9/7/22 Time: 13:30

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
BOD-5day	< 400	mg/L	SM 5210B(16)	9/8/22 13:09	W JSS	A	
Phosphorus, Total	1.4	mg/L	EPA 365.1, R.2(1993)	9/15/22	N MAP	A	
Solids, Total Suspended	33	mg/L	SM 2540 D-15	9/12/22	W JSS	A	

Alchemist - Stowe

Endyne Inc. COC

2209-25385

Prepared: 6/22/22



2209-25385

Bill to:
Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:
Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust # 070

DECRFF

W-70233

Stone Environmental, Inc.
Alchemist - Stowe

Effluent Grab

Sampled Date/Time: 9/7/22 @ 1:30 PM Sampler: HRA

pH Client Data 7.34

BOD-5day

1 - 8 oz Plastic

<6C

Solids, Total Suspended

Phosphorus, Total

1 - 60ml Vial

<6C, H2SO4

QC dup ^{1 vial} BOD 5 day
Solids, Total Suspended

1 - 8 oz Plastic
1602
NKA, 9/7/22

<66

QC Duplicate
Phosphorus, Total

1 - 60 ml vial

<6C H2SO4

Please analyze duplicate QC samples.

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied: NKA



Relinquished by: [Signature] 9/7/22 2:38 PM

Date Time

Accepted by:

Relinquished by:

Received by: [Signature]

Date Time

Date Time

Sites/Parameters correct as listed. Client Initials NKA

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☒ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PC#)

Requested Turnaround Time: Routine: Rush Due Date

Delv: Client
Temp C: 0.1
Comment:

Temp Ck
Log by

Lab use Only



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Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Alchemist - Waterbury

WORK ORDER: **2207-19340**

DATE RECEIVED: July 14, 2022

DATE REPORTED: July 20, 2022

SAMPLER: HRA

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

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Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

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56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 07/20/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2207-19340**

PROJECT: Alchemist - Waterbury

DATE RECEIVED: 07/14/2022

001

Site: Effluent Grab

Date Sampled: 7/14/22 Time: 9:20

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	6.58	SU at __C	Client Data	7/14/22 9:20	W CLI	N	
BOD-5day	1,500	mg/L	SM 5210B(16)	7/15/22 12:42	W JSS	A	

Alchemist - Waterbury

Endyne Inc. COC

2207-19340

Prepared: 6/23/22



2207-19340

Bill to:
Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:
Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
cabraun@stone-env.com;accounting@stone-env.com

Cust #
DEC
W-70.

Stone Environmental, Inc.
Alchemist - Waterbury

Effluent Grab

Sampled Date/Time: 7/14/22 @ 9:20 Sampler: HRA

pH Client Data 6.58

BOD-5day

✓ 1 - 8 oz Plastic

<6C

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied. HRA



Relinquished by: [Signature] 10:30am Date Time

Relinquished by: [Signature] Date Time

Sites/Parameters correct as listed. Client Initials HRA

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☒ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#) 20221085

Requested Turnaround Time: Routine: Rush Due Date

Delv: GMM
Temp C: -3.3
Comment:

Temp Ck
Log by

Lab use Only



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Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Ben & Jerry's St Albans

WORK ORDER: **2209-28080**

DATE RECEIVED: September 28, 2022

DATE REPORTED: October 10, 2022

SAMPLER: APH

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

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Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

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56 Etna Road, Lebanon, NH 03766
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Laboratory Report

DATE REPORTED: 10/10/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2209-28080**

PROJECT: Ben & Jerry's St Albans

DATE RECEIVED: 09/28/2022

001

Site: Effluent Grab

Date Sampled: 9/27/22 Time: 21:25

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>		<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	6.95	SU at __C	Client Data	9/27/22	21:25	W CLI	N	
BOD-5day, Soluble	1,500	mg/L	SM 5210B (-16)	9/29/22	14:33	W JSS	A	
BOD-5day	2,700	mg/L	SM 5210B(16)	9/29/22	14:28	W JSS	A	
Phosphorus, Total	20	mg/L	EPA 365.1, R.2(1993)	10/4/22		N MAP	A	

**ENDYNE Inc.**

www.endynelabs.com

Ben & Jerry's St Albans

Endyne Inc. COC

Prepared: 6/16/22

2209-28080

Bill to:

Mr. Chris Stone

Stone Environmental, Inc.

535 Stone Cutters Way

Montpelier VT 05602

Ph: (802) 229-4541

Report to:

Meghan Arpino

Stone Environmental, Inc.

535 Stone Cutters Way

Montpelier VT 05602

dbraun@stone-env.com;accounting@

Cust #

DECR

W-702



2209-28080

Stone Environmental, Inc.
Ben & Jerry's St Albans

Effluent Grab

Sampled Date/Time:

9/27/22 @ 21:25

Sampler:

APK

pH Client Data

6.95

~~Oil & Grease~~~~1 - 1 liter & 1 - 8 oz Amber Glass <6C, HCL~~

BOD-5day, Soluble

✓ 1 - 16 oz Plastic

<6C

BOD-5day

Phosphorus, Total

✓ 1 - 60 ml Vial

<6C, H2SO4

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

Relinquished by:

9/29/22 9:00

Date Time

Accepted by:

Date Time

Relinquished by:

Received by:

9/28/22 1445

Date Time

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab. Client Initials

Sample origin:

VT

☐

NH

☐

NY

☐

Other

☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv: 6mm

Temp C: -5.4

Comment:

Tmpl Ck

Log by

Lab use Only



ENDYNE Inc.

www.endynelabs.com

160 James Brown Dr.

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Ph 802-879-4333

Fax 802-879-7103

55 Etna Road

Lebanon, NH 03766

Ph 603-678-4891

Fax 603-678-4893

315 New York Rd.

Plattsburgh, NY 12903

Ph 518-563-1720

Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Ben & Jerry's St Albans

WORK ORDER: **2209-27886**

DATE RECEIVED: September 27, 2022

DATE REPORTED: October 04, 2022

SAMPLER: Andy

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

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56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 10/04/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2209-27886**

PROJECT: Ben & Jerry's St Albans

DATE RECEIVED: 09/27/2022

001	Site: Effluent Grab	Date Sampled: 9/27/22	Time: 10:06
-----	---------------------	-----------------------	-------------

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
Oil & Grease Total Recoverable	1330	mg/L	EPA 1664A	10/3/22	W CLD	N	

002	Site: Tank 1	Date Sampled: 9/27/22	Time: 11:50
-----	--------------	-----------------------	-------------

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
Oil & Grease Total Recoverable	1220	mg/L	EPA 1664A	10/3/22	W CLD	N	

Ben & Jerry's St Albans

Endyne Inc. COC

Lab Use WO#

Prepared: 6/16/22

2209-27886

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust # 01



2209-27886

DECRF Stone Environmental, Inc.
Ben & Jerry's St Albans

W-7023

Effluent Grab

Sampled Date/Time: 9/27/22 @ 10:06 Sampler: Andy

pH Client Data _____

Oil & Grease



1 - Liter & 1 - 8 oz Amber Glass <6C, HCL

BOD-5day, Soluble
BOD-5day

1 - 16 oz Plastic

<6C

Phosphorus, Total

1 - 60 ml Vial

<6C, H2SO4 _____

Tank 1

Oil & Grease

9/27/22 11:50am

One or more sample bottles in this project must be
kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the
temperature preservation requirements are not satisfied. _____



Relinquished by: Andrew Fish 9/27/22 5:15

Date Time

Accepted by: _____

Relinquished by: _____

Date Time

Received by: _____

Date Time

Sites/Parameters correct as listed. Client Initials _____

Client Authorization to use Subcontract lab Client Initials _____

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#) _____

Requested Turnaround Time: Routine: Rush Due Date _____

Deliv: Client
Temp C: 5.8
Comment:Temp Ck
Log by

Lab use Only



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Plattsburgh, NY 12903
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Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Ben & Jerry's - Waterbury

WORK ORDER: **2207-18153**

DATE RECEIVED: July 07, 2022

DATE REPORTED: July 19, 2022

SAMPLER: Meghan Arpino

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

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Laboratory Report

DATE REPORTED: 07/19/2022

CLIENT: Stone Environmental, Inc.
 PROJECT: Ben & Jerry's - Waterbury

WORK ORDER: **2207-18153**
 DATE RECEIVED: 07/07/2022

001 Site: Effluent Grab Date Sampled: 7/7/22 Time: 9:03

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	6.79	SU at __C	Client Data	7/7/22 9:03	W CLI	N	
BOD-5day	370	mg/L	SM 5210B(16)	7/13/22 12:15	W JSS	A	E
Phosphorus, Total	13	mg/L	EPA 365.1, R.2(1993)	7/12/22	N MAP	A	
Solids, Total Suspended	1,590	mg/L	SM 2540 D-15	7/12/22	W JSS	A	

Report Summary of Qualifiers and Notes

E: Sample was analyzed past Method specified holding time.

**ENDYNE Inc.**

www.endynelabs.com

Ben & Jerry's - Waterbury

Endyne Inc. COC

2207-18153

Prepared: 6/22/22



2207-18153

Bill to: Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to: Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting;

Cust # 071
DECRFF
W-70233.

Stone Environmental, Inc.
Ben & Jerry's - Waterbury

Page 1 of 1

Effluent Grab

Sampled Date/Time:

7/7/22 @ 9:03

Sampler:

Meghan Arpino

pH Client Data 6.79 @ 18.1°C

BOD-5day

1 - 8 oz Plastic

<6C

Solids, Total Suspended

Phosphorus, Total

1 - 60ml Vial

<6C, H2SO4

✓

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

INITIALS

Relinquished by:

7/7/22 10:03

Date Time

Accepted by:

Relinquished by:

Received by:

7/7/22 10:02

Date Time

Sites/Parameters correct as listed. Client Initials

MKR

Client Authorization to use Subcontract lab Client Initials

MKR

Sample origin:

VT

☒ NH☐ NY☐ Other☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

NA

Delv: at
Temp C: 9.6
Comment:

Temp Ck
Log by

Lab use Only



ENDYNE Inc.

www.endynelabs.com

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Fax 518-563-0052



Laboratory Report

Stone Environmental, Inc. 070233
535 Stone Cutters Way
Montpelier, VT 05602

PROJECT: Commonwealth Dairy
WORK ORDER: 2208-24199
DATE RECEIVED: August 26, 2022
DATE REPORTED: September 09, 2022
SAMPLER: ADF

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody located at the end of this report.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

This NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Alexander J Rakotz
Laboratory Director Lebanon, NH

www.endynelabs.com



ELAP 11263

160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



NH2037

Laboratory Report

DATE REPORTED: 09/09/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Commonwealth Dairy

WORK ORDER: **2208-24199**
DATE RECEIVED: 08/26/2022

001	Site: Effluent Grab			Date Sampled: 8/26/22		Time: 9:52			
<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>		<u>Lab/Tech</u>		<u>NELAC</u>	<u>Qual.</u>
pH per Client	7.59	SU at __C	Client Data	8/26/22	9:50	W	CLI	N	
Oil & Grease Total Recoverable	14.9	mg/L	EPA 1664A	9/7/22		W	CLD	A	P2
002	Site: Effluent Composite			Date Sampled: 8/26/22		Time: 10:00			
<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>		<u>Lab/Tech</u>		<u>NELAC</u>	<u>Qual.</u>
BOD-5day	820	mg/L	SM20 5210B	8/26/22	15:42	R	VGR	A	
Solids, Total Suspended	180	mg/L	SM20 2540D	8/29/22	12:34	R	VGR	A	

Report Summary of Qualifiers and Notes

P2: The sample was not preserved to a pH < 2.

Commonwealth Dairy

Endyne Inc. CCC

Prepared: 6/22/22

2208-24199

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust #

DI

W-1



Stone Environmental, Inc.
Commonwealth Dairy

Effluent Grab

Sampled Date/Time: 8/26/22 @

Sampler: 007

pH Client Data 7.59 at 9:52 am 8/26

Oil & Grease 1-Liter & 1-8 oz Amber Glass <6C, HCl

BOD-5day 1 - 16 oz Plastic <6C
Solids, Total Suspended

comp

5/25/22 - 8/26/22
10 am - 10 am

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with anaerobic temperature preservation requirements are:



Relinquished by: Andrew Fish

Accepted by:

Relinquished by: 11/5/22

Received by: DMV

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab. Client Initials

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv:

Temp C:

Comment:

8.4

C

Temp Ck
Log by

Lab use Only



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315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Laboratory Report

Stone Environmental, Inc. 070233
535 Stone Cutters Way
Montpelier, VT 05602

PROJECT: Drews LLC

WORK ORDER: **2208-22327**

DATE RECEIVED: August 10, 2022

DATE REPORTED: August 29, 2022

SAMPLER: ADF

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody located at the end of this report.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

This NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Alexander J Rakotz
Laboratory Director Lebanon, NH

www.endynelabs.com

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ELAP 11263

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



NH2037

Laboratory Report

DATE REPORTED: 08/29/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Drews LLC

WORK ORDER: **2208-22327**
DATE RECEIVED: 08/10/2022

001 Site: Effluent Grab Date Sampled: 8/10/22 Time: 7:30

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	7.96	SU at __C	Client Data	8/10/22 7:30	W CLI	N	
Oil & Grease Total Recoverable	< 2.0	mg/L	EPA 1664A	8/25/22	W CLD	A	

002 Site: Effluent Composite Date Sampled: 8/10/22 Time: 7:30

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	7.96	SU	Client Data	8/10/22 7:30	W CLI	N	
BOD-5day	82	mg/L	SM20 5210B	8/10/22 16:04	R AJR	A	

Drews LLC

Endyne Inc. COC

2208-22327

Prepared: 6/23/22



2208-22327

Bill to:
Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:
Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust # 070

DECRFF

W-70233

Stone Environmental, Inc.
Drews LLC

Effluent Grab

Sampled Date/Time: 8/10/22 @ 7:30am Sampler: ADD

pH Client Data 7.96

Oil & Grease

1-1L & 1 - 8 oz Amber Glass

<6C, HCl

BOD-5day

1 - 1/2 gal Plastic

<6C

→ composite 7:30am 8/9 - 7:30am 9/10/22

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.



Relinquished by:

Andrew Felt 8/10/22 10:15

Accepted by:

Relinquished by:

Received by:

MS 8/10/22 12:15

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv:

Temp C:

Comment:

17.0

Temp Ck

Log by

Lab use Only



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315 New York Rd.
Plattsburgh, NY 12903
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Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Edlund Company

WORK ORDER: **2206-17131**

DATE RECEIVED: June 28, 2022

DATE REPORTED: July 08, 2022

SAMPLER: Andy Fish

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

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Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

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Laboratory Report

DATE REPORTED: 07/08/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: 2206-17131

PROJECT: Edlund Company

DATE RECEIVED: 06/28/2022

001	Site: Effluent Grab		Date Sampled: 6/28/22		Time: 14:04			
Parameter	Result	Units	Method	Analysis Date/Time		Lab/Tech	NELAC	Qual.
pH per Client	7.30	SU at __ C	Client Data	6/28/22	14:04	W CLI	N	
Cyanide, Total	< 0.010	mg/L	EPA 335.4, R.1(1993)	7/5/22		N MAP	A	
Metals Digestion	Digested		EPA 200.7/200.8	6/30/22		W SJM	A	
Cadmium, Total	< 0.0005	mg/L	EPA 200.8	7/1/22	12:18	W SJM	A	
Chromium, Total	0.0254	mg/L	EPA 200.8	7/1/22	12:18	W SJM	A	
Copper, Total	0.0661	mg/L	EPA 200.8	7/1/22	12:18	W SJM	A	
Lead, Total	< 0.0010	mg/L	EPA 200.8	7/1/22	12:18	W SJM	A	
Nickel, Total	0.290	mg/L	EPA 200.8	7/1/22	12:18	W SJM	A	
Silver, Total	< 0.010	mg/L	EPA 200.8	7/1/22	12:18	W SJM	A	
Zinc, Total	0.052	mg/L	EPA 200.8	7/1/22	12:18	W SJM	A	
VOC Priority Pollutants								
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	6/29/22		W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	6/29/22		W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	6/29/22		W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	6/29/22		W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	6/29/22		W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	6/29/22		W TRP	A	M-
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	6/29/22		W TRP	A	
Acetone	2,050	ug/L	EPA 624.1	6/29/22		W TRP	N	CR
Methylene chloride	< 5.0	ug/L	EPA 624.1	6/29/22		W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	6/29/22		W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	6/29/22		W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	6/29/22		W TRP	A	
Chloroform	2.9	ug/L	EPA 624.1	6/29/22		W TRP	A	M+
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	6/29/22		W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	6/29/22		W TRP	A	M-
Benzene	< 0.5	ug/L	EPA 624.1	6/29/22		W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	6/29/22		W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	6/29/22		W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	6/29/22		W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 624.1	6/29/22		W TRP	A	M-
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	6/29/22		W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	6/29/22		W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	6/29/22		W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	6/29/22		W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	6/29/22		W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	6/29/22		W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	6/29/22		W TRP	A	M-
Chlorobenzene	< 1.0	ug/L	EPA 624.1	6/29/22		W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	6/29/22		W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	6/29/22		W TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	6/29/22		W TRP	A	M-
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	6/29/22		W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	6/29/22		W TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	6/29/22		W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	6/29/22		W TRP	A	

**ENDYNE Inc.**

www.endynelabs.com

Laboratory Report

DATE REPORTED: 07/08/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Edlund Company

WORK ORDER: 2206-17131
DATE RECEIVED: 06/28/2022

001	Site: Effluent Grab			Date Sampled: 6/28/22	Time: 14:04		
<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
Naphthalene	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	U	
Surr. 1 (Dibromofluoromethane)	93	%	EPA 624.1	6/29/22	W TRP	A	
Surr. 2 (Toluene d8)	99	%	EPA 624.1	6/29/22	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	100	%	EPA 624.1	6/29/22	W TRP	A	
Unidentified Peaks	0		EPA 624.1	6/29/22	W TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	6/29/22	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	6/29/22	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	6/29/22	W TRP	A	

002	Site: Trip Blank		Date Sampled: 6/28/22		Time: 8:49		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
VOC Priority Pollutants							
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	6/29/22	W TRP	A	
Acetone	< 10.0	ug/L	EPA 624.1	6/30/22	W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Chloroform	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	

**ENDYNE Inc.**

www.endynelabs.com

Laboratory Report

DATE REPORTED: 07/08/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: 2206-17131

PROJECT: Edlund Company

DATE RECEIVED: 06/28/2022

002

Site: Trip Blank

Date Sampled: 6/28/22 Time: 8:49

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	6/29/22	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	6/29/22	W TRP	U	
Surr. 1 (Dibromofluoromethane)	94	%	EPA 624.1	6/29/22	W TRP	A	
Surr. 2 (Toluene d8)	98	%	EPA 624.1	6/29/22	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	99	%	EPA 624.1	6/29/22	W TRP	A	
Unidentified Peaks	0		EPA 624.1	6/29/22	W TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	6/29/22	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	6/29/22	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	6/29/22	W TRP	A	

Report Summary of Qualifiers and Notes

CR: The value reported exceeded the analytical calibration range. Sample value determined by extrapolation and has a higher degree of uncertainty than a value bracketed by known standards.

M+: The Laboratory Fortified Matrix (LFM) analysis had a recovery greater than defined acceptance limits. This indicates a potential positive bias in the reported value or a difficult sample matrix that resulted in poor reproducibility between sample aliquots selected for analysis.

M-: The Laboratory Fortified Matrix (LFM) analysis had a recovery lower than defined acceptance limits. This indicates a potential negative bias in the reported value or a difficult sample matrix that resulted in poor reproducibility between sample aliquots selected for analysis.

Edlund Company

Endyne Inc. COC

2206-17131

Prepared: 6/17/22

Bill to: Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to: Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
cbraun@stone-env.com;accounting

Cust # 071
DECRFI
W-70233

Stone Environmental, Inc.
Edlund Company



2206-17131

Effluent Grab

Sampled Date/Time: 6/28/22 @ 7:04 Sampler: 007pH Client Data 7.30

Cyanide, Total 1 - 8 oz Plastic for CN <6C, NaOH Na2S2O3, Cl2

X Dioxins, Sub-contracted 2 - 1 Liter Amber Glass <6C, pH 5-9

X Pests, Priority Pollutant 4 - 1 Liter Amber Glass <6C, Na2S2O3, pH 5-9
SVOC Priority Pollutants

Cadmium, Total 1 - 16 oz Plastic Total Metals HNO3 pH< 2

Chromium, Total

Copper, Total

Lead, Total

Nickel, Total

Silver, Total

Zinc, Total

VOC Priority Pollutants 2 - 40ml vials <6C, Na2S2O3

Trip Blank 6/28/22 @ 8:44 10t

One or more sample bottles in this project must be
kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the
temperature preservation requirements are not satisfied. 007



Relinquished by: Andrew Fish 6/28/22 3:03 PM Accepted by: Goodman 6/28/22 @ 1503
Date Time Date Time

Relinquished by: _____ Received by: _____
Date Time Date Time

Sites/Parameters correct as listed. Client Initials _____

Client Authorization to use Subcontract lab Client Initials _____

Sample origin: VT ☒ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#) _____

Requested Turnaround Time: Routine: Rush Due Date _____

Delv: Client Tmpl Ck Lab use Only
Temp C: 0.2 Log by
Comment:
VOC's have a 7 day Hold Time



ENDYNE Inc.

www.endynelabs.com

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Williston, VT 05495
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Fax 802-879-7103

56 Etna Road
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Ph 603-678-4891
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315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Edlund Company

WORK ORDER: **2207-20493**

DATE RECEIVED: July 26, 2022

DATE REPORTED: September 09, 2022

SAMPLER: Andy Fish

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 09/09/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: 2207-20493

PROJECT: Edlund Company

DATE RECEIVED: 07/26/2022

001

Site: Effluent Grab

Date Sampled: 7/26/22

Time: 11:30

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Dioxins, Sub-contracted	See Attached		Attached	9/9/22	SWSUB	N	SBA
VOC Priority Pollutants							
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	7/28/22	W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	7/28/22	W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	7/28/22	W TRP	A	
Acetone	301	ug/L	EPA 624.1	7/28/22	W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
Chloroform	4.4	ug/L	EPA 624.1	7/28/22	W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	7/28/22	W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	7/28/22	W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	7/28/22	W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	7/28/22	W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	7/28/22	W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 624.1	7/28/22	W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	7/28/22	W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/28/22	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	7/28/22	W TRP	U	
Surr. 1 (Dibromofluoromethane)	98	%	EPA 624.1	7/28/22	W TRP	A	
Surr. 2 (Toluene d8)	97	%	EPA 624.1	7/28/22	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	98	%	EPA 624.1	7/28/22	W TRP	A	
Unidentified Peaks	3		EPA 624.1	7/28/22	W TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	7/28/22	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	7/28/22	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	7/28/22	W TRP	A	
Priority Pollutant Pesticides							

**ENDYNE Inc.**

www.endynelabs.com

Laboratory Report

DATE REPORTED: 09/09/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: 2207-20493

PROJECT: Edlund Company

DATE RECEIVED: 07/26/2022

001	Site: Effluent Grab		Date Sampled: 7/26/22		Time: 11:30		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Sep Funnel Extraction	Completed		EPA 608.3	7/27/22	W ECM	A	
alpha-BHC	< 0.009	ug/L	EPA 608.3	8/2/22	W DPD	A	
gamma-BHC (Lindane)	< 0.012	ug/L	EPA 608.3	8/2/22	W DPD	A	
beta-BHC	< 0.018	ug/L	EPA 608.3	8/2/22	W DPD	A	
delta-BHC	< 0.027	ug/L	EPA 608.3	8/2/22	W DPD	A	
Heptachlor	< 0.009	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aldrin	< 0.012	ug/L	EPA 608.3	8/2/22	W DPD	A	
Heptachlor Epoxide	< 0.249	ug/L	EPA 608.3	8/2/22	W DPD	A	
4,4'-DDE	< 0.012	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endosulfan I	< 0.042	ug/L	EPA 608.3	8/2/22	W DPD	A	
Dieldrin	< 0.006	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endrin	< 0.018	ug/L	EPA 608.3	8/2/22	W DPD	A	
4,4'-DDD	< 0.033	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endosulfan II	< 0.012	ug/L	EPA 608.3	8/2/22	W DPD	A	
4,4'-DDT	< 0.036	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endrin Aldehyde	< 0.070	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endosulfan Sulfate	< 0.198	ug/L	EPA 608.3	8/2/22	W DPD	A	
Methoxychlor	< 0.1	ug/L	EPA 608.3	8/2/22	W DPD	A	
Chlordane	< 0.150	ug/L	EPA 608.3	8/2/22	W DPD	A	
Toxaphene	< 0.720	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1016 (PCB-1016)	< 4.5	ug/L	EPA 608.3	8/3/22	W DPD	A	
Aroclor 1221 (PCB-1221)	< 4.5	ug/L	EPA 608.3	8/3/22	W DPD	A	
Aroclor 1232 (PCB-1232)	< 4.5	ug/L	EPA 608.3	8/3/22	W DPD	A	
Aroclor 1242 (PCB-1242)	< 0.95	ug/L	EPA 608.3	8/3/22	W DPD	A	
Aroclor 1248 (PCB-1248)	< 4.5	ug/L	EPA 608.3	8/3/22	W DPD	A	
Aroclor 1254 (PCB-1254)	< 4.5	ug/L	EPA 608.3	8/3/22	W DPD	A	
Aroclor 1260	< 4.5	ug/L	EPA 608.3	8/3/22	W DPD	A	
Surrogate-TCMX	84	%	EPA 608.3	8/2/22	W DPD	A	
Surrogate-DCB	16	%	EPA 608.3	8/2/22	W DPD	A	
SVOC Priority Pollutants							
Extraction EPA 3510C	Completed		EPA 3510C	8/2/22	W ECM	A	
N-Nitrosodimethylamine	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Bis(2-chloroethyl)ether	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,2'-Oxybis(1-chloropropane	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
N-Nitrosodi-n-propylamine	< 50.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Hexachloroethane	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Nitrobenzene	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Isophorone	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Bis(2-chloroethoxy)methane	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
1,2,4-Trichlorobenzene	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Naphthalene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Hexachlorobutadiene	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Hexachlorocyclopentadiene	< 100	ug/L	EPA 625.1	8/16/22	W EEP	A	
2-Chloronaphthalene	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Dimethyl phthalate	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,6-Dinitrotoluene	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	

**ENDYNE Inc.**

www.endynelabs.com

Laboratory Report

DATE REPORTED: 09/09/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: 2207-20493

PROJECT: Edlund Company

DATE RECEIVED: 07/26/2022

001	Site: Effluent Grab		Date Sampled: 7/26/22		Time: 11:30		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Acenaphthylene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Acenaphthene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4-Dinitrotoluene	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Fluorene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Diethyl phthalate	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
4-Chlorophenyl phenyl ether	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
N-Nitrosodiphenylamine	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Azobenzene	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	U	
4-Bromophenyl phenyl ether	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Hexachlorobenzene	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Phenanthrene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Anthracene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Di-n-butylphthalate	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Fluoranthene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzidine	< 100	ug/L	EPA 625.1	8/16/22	W EEP	A	
Pyrene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Butyl benzyl phthalate	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(a)anthracene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Chrysene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
3,3'-Dichlorobenzidine	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Bis(2-ethylhexyl)phthalate	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Di-n-octylphthalate	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(b)fluoranthene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(k)fluoranthene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(a)pyrene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Indeno(1,2,3-cd)pyrene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Dibenzo(a,h)anthracene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(g,h,i)perylene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Phenol	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2-Chlorophenol	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2-Nitrophenol	< 50.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4-Dimethylphenol	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4-Dichlorophenol	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
4-Chloro-3-methylphenol	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4,6-Trichlorophenol	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4-Dinitrophenol	< 100	ug/L	EPA 625.1	8/16/22	W EEP	A	
4-Nitrophenol	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
4,6-Dinitro-2-methylphenol	< 100	ug/L	EPA 625.1	8/16/22	W EEP	A	
Pentachlorophenol	< 50.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
B/N Surr.1 Nitrobenzene-d5	73	%	EPA 625.1	8/16/22	W EEP	A	
B/N Surr.2 2-Fluorobiphenyl	81	%	EPA 625.1	8/16/22	W EEP	A	
B/N Surr.3 Terphenyl-d14	103	%	EPA 625.1	8/16/22	W EEP	A	
Acid Surr.1 2-Fluorophenol	36	%	EPA 625.1	8/16/22	W EEP	A	
Acid Surr.2 Phenol-d5	28	%	EPA 625.1	8/16/22	W EEP	A	
Acid Surr.3 Tribromophenol	92	%	EPA 625.1	8/16/22	W EEP	A	
Unidentified Peaks	> 10		EPA 625.1	8/16/22	W EEP	U	

Laboratory Report

DATE REPORTED: 09/09/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Edlund Company

WORK ORDER: 2207-20493
DATE RECEIVED: 07/26/2022

002 Site: Trip Blank

Date Sampled: 6/28/22 Time: 9:30

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
VOC Priority Pollutants							
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	7/30/22	W TRP	A	
Acetone	< 10.0	ug/L	EPA 624.1	7/30/22	W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Chloroform	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Naphthalene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	U	PLE
Surr. 1 (Dibromofluoromethane)	99	%	EPA 624.1	7/30/22	W TRP	A	
Surr. 2 (Toluene d8)	100	%	EPA 624.1	7/30/22	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	99	%	EPA 624.1	7/30/22	W TRP	A	
Unidentified Peaks	0		EPA 624.1	7/30/22	W TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	7/30/22	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	7/30/22	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	7/30/22	W TRP	A	

Laboratory Report

DATE REPORTED: 09/09/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2207-20493**

PROJECT: Edlund Company

DATE RECEIVED: 07/26/2022

Report Summary of Qualifiers and Notes

Method 624: Sample 002: The sample analysis was performed on a container with significant headspace. Results may be biased low.

PLE: The reporting limit was increased due to contaminant present in the laboratory environment.

Method 625: Sample 001: Reporting limits increased. Dilution required due to the nature of the sample matrix.

SBA: Analysis performed by subcontracted laboratory, Alpha Analytical, Mansfield MA. Results are presented here for your convenience. The complete subcontracted report has been appended to this report.



ANALYTICAL REPORT

Lab Number:	L2240818
Client:	Endyne, Inc. 160 James Brown Drive Williston, VT 05495
ATTN:	Eileen Toomey
Phone:	(802) 879-4333
Project Name:	2207-20493-W
Project Number:	2207-20493-W
Report Date:	09/09/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: 2207-20493-W
Project Number: 2207-20493-W

Lab Number: L2240818
Report Date: 09/09/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2240818-01	2207-20493 001	WATER	Not Specified	07/28/22 11:30	07/29/22

Project Name: 2207-20493-W
Project Number: 2207-20493-W

Lab Number: L2240818
Report Date: 09/09/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

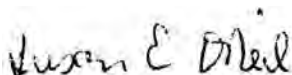
Project Name: 2207-20493-W**Lab Number:** L2240818**Project Number:** 2207-20493-W**Report Date:** 09/09/22**Case Narrative (continued)**

Dioxins & Furans by Isotope Dilution HRMS

The WG1672509-3 LCSD recovery, associated with L2240818-01, is above the acceptance criteria for 2,3,7,8-tcdd (141%); however, the associated sample is non-detect to the RL for this target analyte. The results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Susan O'Neil

Title: Technical Director/Representative

Date: 09/09/22

ORGANICS

SEMIVOLATILES

High Resolution Mass Spectrometry

Project Name: 2207-20493-W

Lab Number: L2240818

Project Number: 2207-20493-W

Report Date: 09/09/22

SAMPLE RESULTS

Lab ID: L2240818-01
 Client ID: 2207-20493 001
 Sample Location: Not Specified

Date Collected: 07/28/22 11:30
 Date Received: 07/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8290A
 Analytical Date: 09/09/22 02:52
 Analyst: CP

Extraction Method: EPA 8290A
 Extraction Date: 08/08/22 11:23
 Cleanup Method: EPA 8290A
 Cleanup Date: 08/30/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
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Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab

2,3,7,8-TCDD	ND			pg/l	10.0	--	1
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Surrogate/Cleanup Standard	% Recovery	Qualifier	Acceptance Criteria
13C12-2,3,7,8-TCDD	63		40-135
37CL4-2,3,7,8-TCDD	101		40-135

Project Name: 2207-20493-W

Lab Number: L2240818

Project Number: 2207-20493-W

Report Date: 09/09/22

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8290A
 Analytical Date: 09/08/22 22:35
 Analyst: CP

Extraction Method: EPA 8290A
 Extraction Date: 08/08/22 11:23
 Cleanup Method: EPA 8290A
 Cleanup Date: 08/30/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab for sample(s): 01 Batch: WG1672509-1						
2,3,7,8-TCDD	ND			pg/l	10.0	--
Surrogate/Cleanup Standard	%Recovery		Qualifier	Acceptance Criteria		
13C12-2,3,7,8-TCDD	62			40-135		
37CL4-2,3,7,8-TCDD	102			40-135		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 2207-20493-W

Lab Number: L2240818

Project Number: 2207-20493-W

Report Date: 09/09/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab Associated sample(s): 01 Batch: WG1672509-2 WG1672509-3								
2,3,7,8-TCDD	124		141	Q	71-125	13		25

Surrogate/Cleanup Standard	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
13C12-2,3,7,8-TCDD	59		58		40-135
37CL4-2,3,7,8-TCDD	103		111		40-135

Project Name: 2207-20493-W**Lab Number:** L2240818**Project Number:** 2207-20493-W**Report Date:** 09/09/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2240818-01A	Amber 500ml unpreserved	NA	NA			Y	Absent		A2-DIOXIN-8290(365)
L2240818-01B	Amber 500ml unpreserved	NA	NA			Y	Absent		A2-DIOXIN-8290(365)

Project Name: 2207-20493-W

Lab Number: L2240818

Project Number: 2207-20493-W

Report Date: 09/09/22

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: 2207-20493-W
Project Number: 2207-20493-W

Lab Number: L2240818
Report Date: 09/09/22

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: 2207-20493-W**Lab Number:** L2240818**Project Number:** 2207-20493-W**Report Date:** 09/09/22**Data Qualifiers**

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: 2207-20493-W
Project Number: 2207-20493-W

Lab Number: L2240818
Report Date: 09/09/22

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 19

Published Date: 4/2/2021 1:14:23 PM

Page 1 of 1

Certification Information**The following analytes are not included in our Primary NELAP Scope of Accreditation:****Westborough Facility****EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625/625.1:** alpha-Terpineol**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D/8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B**The following analytes are included in our Massachusetts DEP Scope of Accreditation****Westborough Facility:****Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

7/30/22

L2240818

Chain of Custody

Alpha Analytical
Eight Walkup Drive
Westboro MA 01581
Ph 508-898-9220

STATE OF ORIGIN: _____ VERMONT

The analysis requested requires that you have and maintain NELAC certification. If you do not currently have NELAC certification in the above referenced State, and specified matrix please contact Endyne immediately at (802) 879-4333 ext 301. Thank you.

Copy of Report To	Billing Information	Project Information
CUSTOMER: Endyne, Inc.	BILL TO: Endyne, Inc.	2207-20493-W
ADDRESS: 160 James Brown Drive	ADDRESS: 160 James Brown Drive	TURN AROUND TIME: _____
Williston, VT 05495	Williston, VT 05495	SPECIAL INSTRUCTIONS: _____
ATTENTION: Eileen Toomey	ATTENTION: Reporting	
E-MAIL: etoomey@endynelabs.com	E-MAIL: etoomey@endynelabs.com	
PHONE: (802) 879-4333 x 300	PHONE: 802-879-4333 x 308	

Analysis Requested: Dioxins, Sub-contracted

Dioxins, Sub-contracted

Dioxins, Sub-contracted

Sample Identification	Matrix	DT TM Sampled
2207-20493 001 Effluent Grab	NP	7/26/22 11:30

Wendy Moray 7/30/22 2:30

Sam Oldrid 7/30/22 04:30 7/28/22
Eml Oill 1400

Rel B Lyons 7/29/22
16:05

Relinquished by: (Sign, Date, Time)

Page 16 of 17

Received by: (Sign, Date, Time)

B Lyons AAL 7/29/22

13:00

7/30/22 00:15

Sample Subcontract Terms
(READ BEFORE LOGGING SAMPLES INTO LIMS)

Date: 29 Jul 22

Samples: 2207-20511(NY); 2207-20515(NY); 2207-20517(NY)

Endyne, Inc agrees to subcontract these samples to Alpha Analytical under the following conditions:

The samples in this cooler are from New York State! Analysis must be in accordance with NY ELAP, including but not limited to accreditation, holding times, bottle/temperature/preservation requirements, calibration requirements, required NY reporting limits, and qualifiers. Please notify Endyne immediately if these conditions can not be met for the enclosed samples.

Assume that all of the analysis requested in this subcontract work order is for compliance monitoring. ALL tests must be run according to NELAC and NY ELAP regulations and by labs that are currently NYS accredited to run those tests. **No sample may be subcontracted to another lab** without the **written** consent of Endyne, Inc and must not be sent to a lab that is not NY ELAP approved for that testing.

In the event that an instrument is out of service, or another problem occurs, please contact us immediately. To arrange for the subcontracting of any of these tests, call us at (518) 563-1720 and fax this form to (518) 563-0052 with the testing information filled out below. This form must be signed and returned by Endyne staff before any samples may be subcontracted.

By logging these samples into LIMS, you are acknowledging that you have read and understand these requirements. Endyne reserves the right to refuse payment to the subcontract lab if these conditions are not met, as our data would not be usable to our client.

<u>Sample ID #</u>	<u>Tests Requesting to Subcontract</u>	<u>Subcontract Lab</u>	<u>Endyne Staff Signature</u>

Edlund Company

Endyne Inc. COC

Prepared: 6/17/22

2207-20493

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust #

DECI

W-702



2207-20493

Stone Environmental, Inc.
Edlund Company

Effluent Grab

Sampled Date/Time:

7/26/22 @ 11:30

Sampler:

Andy Fish

pH Client Data

Cyanide, Total *Not Required*

1 - 8 oz Plastic for CN

<6C, NaOH Na2S2O3, Cl2

Dioxins, Sub-contracted

2 - 1 Liter Amber Glass

<6C, pH 5-9

Pests, Priority Pollutant

4 - 1 Liter Amber Glass

<6C, Na2S2O3, pH 5-9

SVOC Priority Pollutants

Cadmium, Total

1 - 16 oz Plastic Total Metals HNO3 pH < 2

Chromium, Total

Copper, Total

Lead, Total

Nickel, Total

Silver, Total

Zinc, Total

Not Required

VOC Priority Pollutants

2 - 40ml vials

<6C, Na2S2O3

Trip Blank

1-vial 6/28/22 @ 9:30

One or more sample bottles in this project must be
kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the
temperature preservation requirements are not satisfied.

Relinquished by:

Andrew Fish

7/26/22 3:23

Date Time

Accepted by:

Celia Torrey

7/26/22 @ 1523

Date Time

Relinquished by:

Received by:

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin:

VT

☐

NH

☐

NY

☐

Other

☐

Special reporting instructions:

(PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv: Client

Temp C: 13.4

Comment:

Tmpl Ck

Log by

Lab use Only

VOC's have a 7 day Hold Time



160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Fiddlehead Brewing

WORK ORDER: **2209-27313**

DATE RECEIVED: September 22, 2022

DATE REPORTED: October 10, 2022

SAMPLER: APH

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 10/10/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2209-27313**

PROJECT: Fiddlehead Brewing

DATE RECEIVED: 09/22/2022

001

Site: Effluent Grab

Date Sampled: 9/22/22 Time: 9:30

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	7.02	SU at __C	Client Data	9/22/22 9:30	W CLI	N	
BOD-5day	37	mg/L	SM 5210B(16)	9/23/22 12:07	W JSS	A	
Ammonia as N	160	mg/L	EPA 350.1, R.2(1993)	10/5/22	N MAP	A	
TKN	170	mg/L	EPA 351.2, R.2(1993)	10/5/22	N MAP	A	P2
Phosphorus, Total	59	mg/L	EPA 365.1, R.2(1993)	9/29/22	N MAP	A	
Solids, Total Suspended	5	mg/L	SM 2540 D-15	9/27/22	W JSS	A	

Report Summary of Qualifiers and Notes

P2: The sample was not preserved to a pH < 2.

Fiddlehead Brewing

Endyne Inc. COC

2209-27313

Prepared: 6/23/22



2209-27313

Cust# 07

DECRF

Stone Environmental, Inc.
Fiddlehead Brewing

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arplno
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

W-70231

Page 1 of 1

Effluent Grab

Sampled Date/Time:

9/22/22 @ 9:30

Sampler:

AP4

pH Client Data

7.02

BOD-5day

✓ 1 - 16 oz Plastic

<6C

Solids, Total Suspended

Ammonia as N

✓ 1 - 32 oz Plastic

<6C, NY Phos, H2SO4

TKN

Phosphorus, Total

✓ 1 - 60ml Vial

<6C, H2SO4

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

APM

INITIALS

Relinquished by:

[Signature]

9/22/22 10:05

Date Time

Accepted by:

Relinquished by:

Date Time

Received by:

Date Time

Date Time

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv: *[Signature]*

Temp C: 3.9

Comment:

Temp Ck

Log by

Lab use Only



160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Elna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Fiddlehead Brewing

WORK ORDER: **2209-25958**

DATE RECEIVED: September 13, 2022

DATE REPORTED: September 26, 2022

SAMPLER: APH

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 09/26/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2209-25958**

PROJECT: Fiddlehead Brewing

DATE RECEIVED: 09/13/2022

001 Site: Effluent Grab Date Sampled: 9/13/22 Time: 11:30

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	6.97	SU at __C	Client Data	9/13/22 11:30	W CLI	N	
Ammonia as N	180	mg/L	EPA 350.1, R.2(1993)	9/23/22	N CAL	A	

002 Site: Effluent Grab Date Sampled: 9/13/22 Time: 9:30

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
Phosphorus, Total	< 0.012	mg/L	EPA 365.1, R.2(1993)	9/22/22	N CAL	A	
Solids, Total Suspended	< 1	mg/L	SM 2540 D-15	9/19/22	W JSS	A	

Fiddlehead Brewing

Endyne Inc. COC

2209-25958

Prepared: 8/23/22

Bill to: Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to: Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust # 071
DECRFI
W-7023

2209-25958
Stone Environmental, Inc.
Fiddlehead Brewing

Effluent Grab

Sampled Date/Time: 9/13/22 @ 11:30

Sampler: APH

pH Client Data 6.97

@ 9:30

~~POB-5107~~ 1 - 16 oz Plastic <6C
Solids, Total Suspended - Fiddlehead-TB

@ 11:30

Ammonia as N 1 - 32 oz Plastic <6C, NY Phos, H2SO4

@ 9:30

Phosphorus, Total - Fiddlehead-TB 1 - 60ml Vial <6C, H2SO4

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

APH



Relinquished by:

Ala J

9/13/22

12:38

Date Time

Accepted by:

Relinquished by:

Received by:

Chair de

9/13/22 10:40

Date Time

Date Time

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv: Client
Temp C: 6.1
Comment:

Tmpl Ck
Log by

Lab use Only



ENDYNE Inc.

www.endynelabs.com

180 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Franklin Foods, Inc

WORK ORDER: **2209-25469**

DATE RECEIVED: September 08, 2022

DATE REPORTED: September 20, 2022

SAMPLER: APH

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

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Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 09/20/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2209-25469**

PROJECT: Franklin Foods, Inc

DATE RECEIVED: 09/08/2022

001

Site: Effluent Grab

Date Sampled: 9/8/22

Time: 7:00

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	6.63	SU at __C	Client Data	9/8/22 7:00	W CLI	N	
BOD-5day	520	mg/L	SM 5210B(16)	9/8/22 14:21	W JSS	A	
Phosphorus, Total	1.0	mg/L	EPA 365.1, R.2(1993)	9/15/22	N MAP	A	M+

Report Summary of Qualifiers and Notes

M+: The Laboratory Fortified Matrix (LFM) analysis had a recovery greater than defined acceptance limits. This indicates a potential positive bias in the reported value or a difficult sample matrix that resulted in poor reproducibility between sample aliquots selected for analysis.

Franklin Foods, Inc

Endyne Inc. COC

2209-25469

Prepared: 6/23/22



2209-25469

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust #

Stone Environmental, Inc.
Franklin Foods, Inc

6 of 1

Effluent Grab

Sampled Date/Time:

9 / 8 / 22 @ 7:00 AM

Sampler:

APH

pH Client Data

6.63

~~Oil & Grease~~

~~1 L & 1 - 8 oz Amber Glass~~

~~<6C, HCl~~

BOD-5day

✓ 1 - 8 oz Plastic

<6C

Phosphorus, Total

✓ 1 - 60ml Vial

<6C, H2SO4

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

APH

INITIAL

Relinquished by:

Alex Dwyer 9/8/22 9:07

Date Time

Accepted by:

Relinquished by:

Received by:

Date Time

Date Time

9/8/22 907

Date Time

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin:

VT

☐ NH

☐ NY

☐ Other

☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv: *nd*

Temp C: *0.0*

Comment:

Temp Ck

Log by

Lab use Only



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56 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Franklin Foods, Inc

WORK ORDER: **2209-25468**

DATE RECEIVED: September 08, 2022

DATE REPORTED: September 15, 2022

SAMPLER: APH

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

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Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

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56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 09/15/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2209-25468**

PROJECT: Franklin Foods, Inc

DATE RECEIVED: 09/08/2022

001 Site: Effluent Grab Date Sampled: 9/7/22 Time: 14:00

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	6.63	SU at __C	Client Data	9/8/22 7:00	W CLI	N	
Oil & Grease Total Recoverable	5.3	mg/L	EPA 1664A	9/14/22	W CLD	A	

002 Site: Effluent Grab Duplicate Date Sampled: 9/7/22 Time: 14:00

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	6.63	SU at __C	Client Data	9/8/22 7:00	W CLI	N	
Oil & Grease Total Recoverable	2.8	mg/L	EPA 1664A	9/14/22	W CLD	A	

Franklin Foods, Inc

Endyne Inc. COC

Prepared: 6/23/22

2209-25468



2209-25468

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Argino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust #

DECI

W-7C

Stone Environmental, Inc.
Franklin Foods, Inc

Page 1 of 1

Effluent Grab

Sampled Date/Time:

9/7/22 @ 14:00

Sampler:

APH

pH Client Data

6.63

Oil & Grease

Franklin Foods

1-L & 1 - 8 oz Amber Glass

<6C, HCl

BOD-5day

1 - 8 oz Plastic

<6C

Phosphorus, Total

1 - 60ml Vial

<6C, H2SO4

Oil & Grease

FF-2

1-L & 1-8oz Amber

<6C, HCl

Two Sets Rec'd, run extra as duplicate
-CSS 9/8/22

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

APH



Relinquished by:

APC

9/8/22 9:07

Date Time

Accepted by:

Relinquished by:

Received by:

Date Time

Date Time

9/8/22 9:07

Date Time

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin:

VT

☐ NH

☐ NY

☐ Other

☐

Special reporting instructions:

(PO#)

Requested Turnaround Time: Routine: Rush Due Date

Dely:

cc

Temp C:

0.0

Comment:

Temp Ck

Log by

Lab use Only



ENDYNE Inc.

www.endynelabs.com

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315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: G.S. Precision Coating, Inc

WORK ORDER: **2208-23251**

DATE RECEIVED: August 17, 2022

DATE REPORTED: September 16, 2022

SAMPLER: ADF

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

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Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

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Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 09/16/2022

CLIENT: Stone Environmental, Inc.
PROJECT: G.S. Precision Coating, Inc

WORK ORDER: 2208-23251
DATE RECEIVED: 08/17/2022

001	Site: Effluent Grab		Date Sampled: 8/17/22		Time: 10:40			
Parameter	Result	Units	Method	Analysis Date/Time		Lab/Tech	NELAC	Qual.
pH per Client	6.89	SU at __C	Client Data	8/17/22	10:40	W CLI	N	
Cyanide, Total	< 0.010	mg/L	EPA 335.4, R.1(1993)	8/22/22		N MAP	A	QA-
Dioxins, Sub-contracted	See Attached		Attached	9/8/22		SWSUB	N	SPA
VOC Priority Pollutants								
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	8/19/22		W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	8/19/22		W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	8/19/22		W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	8/19/22		W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	8/19/22		W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	8/19/22		W TRP	A	M-
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	8/19/22		W TRP	A	
Acetone	529	ug/L	EPA 624.1	8/19/22		W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	8/19/22		W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	8/19/22		W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	8/19/22		W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	8/19/22		W TRP	A	
Chloroform	5.4	ug/L	EPA 624.1	8/19/22		W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	8/19/22		W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	8/19/22		W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	8/19/22		W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	8/19/22		W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	8/19/22		W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	8/19/22		W TRP	A	
Bromodichloromethane	0.9	ug/L	EPA 624.1	8/19/22		W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	8/19/22		W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	8/19/22		W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	8/19/22		W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	8/19/22		W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	8/19/22		W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	8/19/22		W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	8/19/22		W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	8/19/22		W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	8/19/22		W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	8/19/22		W TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	8/19/22		W TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	8/19/22		W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/19/22		W TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/19/22		W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/19/22		W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	8/19/22		W TRP	U	
Surr. 1 (Dibromofluoromethane)	103	%	EPA 624.1	8/19/22		W TRP	A	
Surr. 2 (Toluene d8)	99	%	EPA 624.1	8/19/22		W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	101	%	EPA 624.1	8/19/22		W TRP	A	
Unidentified Peaks	0		EPA 624.1	8/19/22		W TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	8/19/22		W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	8/19/22		W TRP	A	

Laboratory Report

DATE REPORTED: 09/16/2022

CLIENT: Stone Environmental, Inc.
PROJECT: G.S. Precision Coating, Inc

WORK ORDER: 2208-23251
DATE RECEIVED: 08/17/2022

001	Site: Effluent Grab		Date Sampled: 8/17/22		Time: 10:40		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	8/19/22	W TRP	A	
Priority Pollutant Pesticides							
Sep Funnel Extraction	Completed		EPA 608.3	8/19/22	W ECM	A	
alpha-BHC	< 0.009	ug/L	EPA 608.3	8/22/22	W DPD	A	
gamma-BHC (Lindane)	< 0.012	ug/L	EPA 608.3	8/22/22	W DPD	A	
beta-BHC	< 0.018	ug/L	EPA 608.3	8/22/22	W DPD	A	
delta-BHC	< 0.027	ug/L	EPA 608.3	8/22/22	W DPD	A	
Heptachlor	< 0.009	ug/L	EPA 608.3	8/22/22	W DPD	A	
Aldrin	< 0.012	ug/L	EPA 608.3	8/22/22	W DPD	A	
Heptachlor Epoxide	< 0.249	ug/L	EPA 608.3	8/22/22	W DPD	A	
4,4'-DDE	< 0.012	ug/L	EPA 608.3	8/22/22	W DPD	A	
Endosulfan I	< 0.042	ug/L	EPA 608.3	8/22/22	W DPD	A	
Dieldrin	< 0.006	ug/L	EPA 608.3	8/22/22	W DPD	A	
Endrin	< 0.018	ug/L	EPA 608.3	8/22/22	W DPD	A	
4,4'-DDD	< 0.033	ug/L	EPA 608.3	8/22/22	W DPD	A	
Endosulfan II	< 0.012	ug/L	EPA 608.3	8/22/22	W DPD	A	
4,4'-DDT	< 0.036	ug/L	EPA 608.3	8/22/22	W DPD	A	
Endrin Aldehyde	< 0.070	ug/L	EPA 608.3	8/22/22	W DPD	A	
Endosulfan Sulfate	< 0.198	ug/L	EPA 608.3	8/22/22	W DPD	A	
Methoxychlor	< 0.1	ug/L	EPA 608.3	8/22/22	W DPD	A	
Chlordane	< 0.150	ug/L	EPA 608.3	8/22/22	W DPD	A	
Toxaphene	< 0.720	ug/L	EPA 608.3	8/22/22	W DPD	A	
Aroclor 1016 (PCB-1016)	< 0.45	ug/L	EPA 608.3	8/23/22	W DPD	A	
Aroclor 1221 (PCB-1221)	< 0.45	ug/L	EPA 608.3	8/23/22	W DPD	A	
Aroclor 1232 (PCB-1232)	< 0.45	ug/L	EPA 608.3	8/23/22	W DPD	A	
Aroclor 1242 (PCB-1242)	< 0.095	ug/L	EPA 608.3	8/23/22	W DPD	A	
Aroclor 1248 (PCB-1248)	< 0.45	ug/L	EPA 608.3	8/23/22	W DPD	A	
Aroclor 1254 (PCB-1254)	< 0.45	ug/L	EPA 608.3	8/23/22	W DPD	A	
Aroclor 1260	< 0.45	ug/L	EPA 608.3	8/23/22	W DPD	A	
Surrogate-TCMX	45	%	EPA 608.3	8/22/22	W DPD	A	
Surrogate-DCB	4	%	EPA 608.3	8/22/22	W DPD	A	QS-
SVOC Priority Pollutants							
Extraction EPA 3510C	Completed		EPA 3510C	8/24/22	W ECM	A	
N-Nitrosodimethylamine	< 5.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
Bis(2-chloroethyl)ether	< 5.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
2,2'-Oxybis(1-chloropropane	< 5.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
Hexachloroethane	< 2.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
Nitrobenzene	< 5.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
Isophorone	< 2.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
Bis(2-chloroethoxy)methane	< 5.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
Naphthalene	< 0.5	ug/L	EPA 625.1	8/26/22	W EEP	A	
Hexachlorobutadiene	< 2.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
Hexachlorocyclopentadiene	< 20.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
2-Chloronaphthalene	< 2.0	ug/L	EPA 625.1	8/26/22	W EEP	A	

**ENDYNE Inc.**

www.endynelabs.com

Laboratory Report

DATE REPORTED: 09/16/2022

CLIENT: Stone Environmental, Inc.
 PROJECT: G.S. Precision Coating, Inc

WORK ORDER: 2208-23251
 DATE RECEIVED: 08/17/2022

001 Site: Effluent Grab		Date Sampled: 8/17/22		Time: 10:40			
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Dimethyl phthalate	< 2.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
2,6-Dinitrotoluene	< 5.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
Acenaphthylene	< 0.5	ug/L	EPA 625.1	8/26/22	W EEP	A	
Acenaphthene	< 0.5	ug/L	EPA 625.1	8/26/22	W EEP	A	
2,4-Dinitrotoluene	< 5.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
Fluorene	< 0.5	ug/L	EPA 625.1	8/26/22	W EEP	A	
Diethyl phthalate	< 5.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
N-Nitrosodiphenylamine	< 5.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
Azobenzene	< 5.0	ug/L	EPA 625.1	8/26/22	W EEP	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
Hexachlorobenzene	< 1.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
Phenanthrene	< 0.5	ug/L	EPA 625.1	8/26/22	W EEP	A	
Anthracene	< 0.5	ug/L	EPA 625.1	8/26/22	W EEP	A	
Di-n-butylphthalate	< 5.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
Fluoranthene	< 0.5	ug/L	EPA 625.1	8/26/22	W EEP	A	
Benzidine	< 20.0	ug/L	EPA 625.1	8/26/22	W EEP	A	RPD
Pyrene	< 0.5	ug/L	EPA 625.1	8/26/22	W EEP	A	
Butyl benzyl phthalate	< 5.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
Benzo(a)anthracene	< 0.5	ug/L	EPA 625.1	8/26/22	W EEP	A	
Chrysene	< 0.5	ug/L	EPA 625.1	8/26/22	W EEP	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
Di-n-octylphthalate	< 5.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
Benzo(b)fluoranthene	< 0.5	ug/L	EPA 625.1	8/26/22	W EEP	A	
Benzo(k)fluoranthene	< 0.5	ug/L	EPA 625.1	8/26/22	W EEP	A	
Benzo(a)pyrene	< 0.5	ug/L	EPA 625.1	8/26/22	W EEP	A	
Indeno(1,2,3-cd)pyrene	< 0.5	ug/L	EPA 625.1	8/26/22	W EEP	A	
Dibenzo(a,h)anthracene	< 0.5	ug/L	EPA 625.1	8/26/22	W EEP	A	
Benzo(g,h,i)perylene	< 0.5	ug/L	EPA 625.1	8/26/22	W EEP	A	
Phenol	< 2.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
2-Chlorophenol	< 5.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
2-Nitrophenol	< 10.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
2,4-Dimethylphenol	< 5.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
2,4-Dichlorophenol	< 5.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
4-Chloro-3-methylphenol	< 5.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
2,4,6-Trichlorophenol	< 5.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
2,4-Dinitrophenol	< 20.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
4-Nitrophenol	< 5.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
Pentachlorophenol	< 10.0	ug/L	EPA 625.1	8/26/22	W EEP	A	
B/N Surr.1 Nitrobenzene-d5	63	%	EPA 625.1	8/26/22	W EEP	A	
B/N Surr.2 2-Fluorobiphenyl	70	%	EPA 625.1	8/26/22	W EEP	A	
B/N Surr.3 Terphenyl-d14	89	%	EPA 625.1	8/26/22	W EEP	A	
Acid Surr.1 2-Fluorophenol	28	%	EPA 625.1	8/26/22	W EEP	A	
Acid Surr.2 Phenol-d5	24	%	EPA 625.1	8/26/22	W EEP	A	

**ENDYNE Inc.**

www.endynelabs.com

Laboratory Report

DATE REPORTED: 09/16/2022

CLIENT: Stone Environmental, Inc.
PROJECT: G.S. Precision Coating, Inc

WORK ORDER: 2208-23251
DATE RECEIVED: 08/17/2022

001 Site: Effluent Grab Date Sampled: 8/17/22 Time: 10:40

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Acid Surr.3 Tribromophenol	75	%	EPA 625.1	8/26/22	W EEP	A	
Unidentified Peaks	>10		EPA 625.1	8/26/22	W EEP	U	

002 Site: Trip Blank Date Sampled: 6/28/22 Time: 9:24

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
VOC Priority Pollutants							
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	8/20/22	W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	8/20/22	W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	8/20/22	W TRP	A	
Acetone	< 10.0	ug/L	EPA 624.1	8/20/22	W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
Chloroform	< 1.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	8/20/22	W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	8/20/22	W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	8/20/22	W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	8/20/22	W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	8/20/22	W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 624.1	8/20/22	W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	8/20/22	W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/20/22	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	8/20/22	W TRP	U	
Surr. 1 (Dibromofluoromethane)	96	%	EPA 624.1	8/20/22	W TRP	A	
Surr. 2 (Toluene d8)	98	%	EPA 624.1	8/20/22	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	98	%	EPA 624.1	8/20/22	W TRP	A	

Laboratory Report

DATE REPORTED: 09/16/2022

CLIENT: Stone Environmental, Inc.
PROJECT: G.S. Precision Coating, Inc

WORK ORDER: 2208-23251
DATE RECEIVED: 08/17/2022

002 Site: Trip Blank Date Sampled: 6/28/22 Time: 9:24

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Unidentified Peaks	0		EPA 624.1	8/20/22	W TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	8/20/22	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	8/20/22	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	8/20/22	W TRP	A	

003 Site: Effluent Composite Date Sampled: 8/17/22 Time: 10:30

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Metals Digestion	Digested		EPA 200.7/200.8	8/26/22	W SJM	A	
Cadmium, Total	< 0.0005	mg/L	EPA 200.8	8/29/22 12:24	W SJM	A	
Chromium, Total	0.0452	mg/L	EPA 200.8	8/29/22 12:24	W SJM	A	
Copper, Total	0.0684	mg/L	EPA 200.8	8/29/22 12:24	W SJM	A	
Lead, Total	0.0169	mg/L	EPA 200.8	8/29/22 12:24	W SJM	A	
Nickel, Total	0.0384	mg/L	EPA 200.8	8/29/22 12:24	W SJM	A	
Silver, Total	< 0.010	mg/L	EPA 200.8	8/29/22 12:24	W SJM	A	
Zinc, Total	0.095	mg/L	EPA 200.8	8/29/22 12:24	W SJM	A	

Report Summary of Qualifiers and Notes

M-: The Laboratory Fortified Matrix (LFM) analysis had a recovery lower than defined acceptance limits. This indicates a potential negative bias in the reported value or a difficult sample matrix that resulted in poor reproducibility between sample aliquots selected for analysis.

QA-: QA/QC associated with this analysis did not meet laboratory acceptance limits indicating the results may be biased low.

QS-: Sample surrogate recovery was below laboratory control limits. Associated results may be biased low.

RPD: Variability observed. The Relative Percent Difference of the Matrix Spike Duplicate was above method acceptance limits.

SPA: Analysis performed by subcontracted laboratory, Pace Analytical, with the following state assigned laboratory ID numbers; VT0282, NY10888, NH2974. The complete subcontracted report has been appended to this report.

Report Prepared for:

Eileen Toomey
Endyne, Inc.
160 James Brown Drive
Williston VT 05495

REPORT OF LABORATORY ANALYSIS FOR PCDD/PCDF

Report Prepared Date:

September 15, 2022

Report Information:

Pace Project #: 10623209
Sample Receipt Date: 08/26/2022
Client Project #: 2208-23251-W
Client Sub PO #: N/A
State Cert #: VT-027053137

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Isaac Johnson, your Pace Project Manager.

This report has been reviewed by:



September 15, 2022

Isaac Johnson, Project Manager
(612) 607-1700
(612) 607-6444 (fax)
isaac.johnson@pacelabs.com



Report of Laboratory Analysis

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The results relate only to the samples included in this report.

DISCUSSION

This report presents the results from the analysis performed on one sample submitted by a representative of Endyne, Inc. The sample was analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using USEPA Method 1613B. The reporting limits were based on signal-to-noise measurements. Estimated Maximum Possible Concentration (EMPC) values were treated as positives in the toxic equivalence calculations. The sample was received above the recommended temperature range of 0-6 degrees Celsius.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extract ranged from 18-32%. Except for four low values, which were flagged "R" on the results table, the labeled standard recoveries obtained for this project were within the target ranges specified in Method 1613B. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

Values were flagged "I" where incorrect isotope ratios were obtained. Concentrations below the calibration range were flagged "J" and should be regarded as estimates.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to contain trace levels of selected congeners. These levels were below the calibration range of the method. Sample levels similar to the corresponding blank levels were flagged "B" on the results table and may be, at least partially, attributed to the background.

Laboratory spike samples were also prepared using clean reference matrix that had been fortified with native standard materials. The recoveries of the native compounds ranged from 98-134% with relative percent differences of 0.9-6.2%. These results were within the target ranges for the method. Matrix spikes were not prepared with the sample batch.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Missouri	10100
Alaska-DW	MN00064	Montana	CERT0092
Alaska-UST	17-009	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN00064
Arkansas - WW	88-0680	New Hampshire	2081
Arkansas-DW	MN00064	New Jersey	MN002
California	2929	New York	11647
Colorado	MN00064	North Carolina-	27700
Connecticut	PH-0256	North Carolina-	530
Florida	E87605	North Dakota	R-036
Georgia	959	Ohio-DW	41244
Hawaii	MN00064	Ohio-VAP (170	CL101
Idaho	MN00064	Ohio-VAP (180	CL110
Illinois	200011	Oklahoma	9507
Indiana	C-MN-01	Oregon- rimary	MN300001
Iowa	368	Oregon-Second	MN200001
Kansas	E-10167	Pennsylvania	68-00563
Kentucky-DW	90062	Puerto Rico	MN00064
Kentucky-WW	90062	South Carolina	74003
Louisiana-DEQ	AI-84596	Tennessee	TN02818
Louisiana-DW	MN00064	Texas	T104704192
Maine	MN00064	Utah	MN00064
Maryland	322	Vermont	VT-027053137
Michigan	9909	Virginia	460163
Minnesota	027-053-137	Washington	C486
Minnesota-Ag	via MN 027-053	West Virginia-D	382
Minnesota-Petr	1240	West Virginia-D	9952C
		Wisconsin	999407970
		Wyoming-UST	via A2LA 2926.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

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WO#: 10623209



10623209

Chain of Custody

Pace Analytical Minn

1700 Elm St SE

Minneapolis

MN 55414

Ph 612-607-1700

STATE OF ORIGIN: VERMONT

The analysis requested requires that you have and maintain NELAC certification. If you do not currently have NELAC certification in the above referenced State, and specified matrix please contact Endyne immediately at (802) 879-4333 ext 301. Thank you.

Copy of Report To	Billing Information	Project Information
CUSTOMER: Endyne, Inc.	BILL TO: Endyne, Inc.	2208-23251-W
ADDRESS: 160 James Brown Drive Williston, VT 05495	ADDRESS: 160 James Brown Drive Williston, VT 05495	TURN AROUND TIME:
ATTENTION: Eileen Toomey	ATTENTION: Reporting	SPECIAL INSTRUCTIONS:
E-MAIL: etoomey@endynelabs.com	E-MAIL: etoomey@endynelabs.com	
PHONE: (802) 879-4333 x 300	PHONE: 802-879-4333 x 308	

Page 5 of 14

Analysis Requested: Dioxins, Sub-contracted

Dioxins, Sub-contracted

Dioxins, Sub-contracted

Sample IdentificationMatrixDT TM Sampled

2208-23251 001 Effluent Grab

010


WW

8/17/22 10:40

WJ

Relinquished by: (Sign, Date, Time)

Received by: (Sign, Date, Time)

 8/25/22 8am
AM W Pace 8/26/22 09:20

Effective Date:

Sample Condition
Upon Receipt

Client Name:

Endyne Inc

Project #:

WO#: 10623209

PM: IJJ

Due Date: 09/27/22

CLIENT: ENDYNE

Courier: ☐ FedEx ☒ UPS ☐ USPS ☐ Client
☐ Pace ☐ Speedee ☐ CommercialTracking Number: 127092X90173919324 ☐ See Exceptions
ENV-FRM-MIN4-0142Custody Seal on Cooler/Box Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ NoBiological Tissue Frozen? ☐ Yes ☐ No ☒ N/APacking Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ OtherTemp Blank? ☐ Yes ☒ NoThermometer: ☐ T1 (0461) ☐ T2 (1336) ☐ T3 (0459)
☒ T4 (0254) ☐ T5 (0178) ☐ 01339252/1710Type of Ice: ☐ Wet ☒ Blue ☐ Dry ☐ None
☐ MeltedDid Samples Originate in West Virginia? ☐ Yes ☒ NoWere All Container Temps Taken? ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6 °C

Cooler temp Read w/Temp Blank: °C

Average Corrected Temp

(no temp blank only): 10.1 °C

Correction Factor: Sub 0.1

Cooler Temp Corrected w/temp blank: °C

☒ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 ContainerJSDA Regulated Soil: ☒ N/A, water sample/other: _____

Date/Initials of Person Examining Contents: 8/26/22 ADCZ

Did samples originate in a quarantine zone within the United States: AL, AR, AZ CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check maps)? ☐ Yes ☐ NoDid samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

Location (Check one): <input type="checkbox"/> Duluth <input checked="" type="checkbox"/> Minneapolis <input type="checkbox"/> Virginia	COMMENTS
Chain of Custody Present and Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and/or Signature on COC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4. If fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 <input type="checkbox"/> No
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E.coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrom <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Sufficient Sample Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Field Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. If no, write ID/Date/Time of container below: <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
Is sufficient information available to reconcile the samples to the COC? Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other	12. Sample # <input type="checkbox"/> NaOH <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> Zinc Acetate
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Positive for Residual Chlorine? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaQH >10 Cyanide)	pH Paper Lot # Residual Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and <input checked="" type="checkbox"/> Biotins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks—verify with PM first.)	13.
Headspace in Methyl Mercury Container? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14. <input type="checkbox"/> See Exceptions ENV-FRM-MIN4-0142
Extra labels present on soil VOA or WIDRO containers? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15. Pace Trip Blank Lot # (if purchased):
Headspace in VOA Vials (greater than 6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
3 Trip Blanks Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____
Comments/Resolution: _____Field Data Required? ☐ Yes ☐ No

Date/Time: _____

Project Manager Review: Isaac Johnson

Date: 8/29/22

NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

DC#_Title: ENV-FRM-MIN4-0142 v01_Sample Condition Upon Receipt
(SCUR) Exception Form

Effective Date: 02/25/2022

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No																		
2208-23251	B614	2	If yes, indicate who was contacted/date/time. If no, indicate reason why.																		
			Multiple Cooler Project? <input type="checkbox"/> Yes <input type="checkbox"/> No If you answered yes, fill out information to the left.																		
			<table border="1"> <thead> <tr> <th colspan="3">No Temp Blank</th> </tr> <tr> <th>Read Temp</th> <th>Corrected Temp</th> <th>Average Temp</th> </tr> </thead> <tbody> <tr> <td>11.9</td> <td>11.8</td> <td>10.1</td> </tr> <tr> <td>10.0</td> <td>9.9</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	No Temp Blank			Read Temp	Corrected Temp	Average Temp	11.9	11.8	10.1	10.0	9.9							
No Temp Blank																					
Read Temp	Corrected Temp	Average Temp																			
11.9	11.8	10.1																			
10.0	9.9																				

[illegible]

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	

Comments:[illegible]



Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
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www.pacelabs.com

Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - Endyne, Inc.

Client's Sample ID	2208-23251 001 Effluent Grab		
Lab Sample ID	10623209001		
Filename	L220907B_10		
Injected By	SMT		
Total Amount Extracted	997 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	08/17/2022 10:40
ICAL ID	L220811	Received	08/26/2022 09:20
CCal Filename(s)	L220907A_18	Extracted	08/30/2022 11:20
Method Blank ID	BLANK-100960	Analyzed	09/08/2022 01:35

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	—	0.63		2,3,7,8-TCDF-13C	2.00	31
Total TCDF	ND	—	0.63		2,3,7,8-TCDD-13C	2.00	26
					1,2,3,7,8-PeCDF-13C	2.00	31
2,3,7,8-TCDD	ND	—	0.77		2,3,4,7,8-PeCDF-13C	2.00	31
Total TCDD	ND	—	0.77		1,2,3,7,8-PeCDD-13C	2.00	32
					1,2,3,4,7,8-HxCDF-13C	2.00	27
1,2,3,7,8-PeCDF	ND	—	0.53		1,2,3,6,7,8-HxCDF-13C	2.00	32
2,3,4,7,8-PeCDF	ND	—	0.25		2,3,4,6,7,8-HxCDF-13C	2.00	29
Total PeCDF	ND	—	0.25		1,2,3,7,8,9-HxCDF-13C	2.00	28 R
					1,2,3,4,7,8-HxCDD-13C	2.00	29 R
1,2,3,7,8-PeCDD	ND	—	0.93		1,2,3,6,7,8-HxCDD-13C	2.00	30
Total PeCDD	ND	—	0.93		1,2,3,4,6,7,8-HpCDF-13C	2.00	25 R
					1,2,3,4,7,8,9-HpCDF-13C	2.00	21 R
1,2,3,4,7,8-HxCDF	ND	—	0.79		1,2,3,4,6,7,8-HpCDD-13C	2.00	25
1,2,3,6,7,8-HxCDF	ND	—	0.56		OCDD-13C	4.00	18
2,3,4,6,7,8-HxCDF	ND	—	0.89				
1,2,3,7,8,9-HxCDF	1.0	—	0.65	BJ	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1.0	—	0.56	BJ	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.7	—	0.97	J	2,3,7,8-TCDD-37Cl4	0.20	60
1,2,3,6,7,8-HxCDD	ND	—	0.99				
1,2,3,7,8,9-HxCDD	ND	—	0.83				
Total HxCDD	1.7	—	0.83	BJ			
1,2,3,4,6,7,8-HpCDF	—	2.0	0.88	IJ	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	—	1.1		Equivalence: 0.34 pg/L		
Total HpCDF	ND	—	0.88		(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	3.9	—	2.3	J			
Total HpCDD	8.2	—	2.3	BJ			
OCDF	—	4.9	2.5	IJ			
OCDD	23	—	3.7	BJ			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
EDL = Estimated Detection Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

J = Estimated value
B = Less than 10x higher than method blank level
R = Recovery outside target range
I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 1613B Blank Analysis Results

Lab Sample Name	DFBLKCX	Matrix	Water
Lab Sample ID	BLANK-100960	Dilution	NA
Filename	L220906A_08	Extracted	08/30/2022 11:20
Total Amount Extracted	977 mL	Analyzed	09/06/2022 18:28
ICAL ID	L220811	Injected By	SMT
CCal Filename(s)	L220906A_01		

Native Isomers	Conc pg/L	EMPC pg/L	EDL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	—	0.71	2,3,7,8-TCDF-13C	2.00	68
Total TCDF	ND	—	0.71	2,3,7,8-TCDD-13C	2.00	59
				1,2,3,7,8-PeCDF-13C	2.00	87
2,3,7,8-TCDD	ND	—	1.2	2,3,4,7,8-PeCDF-13C	2.00	86
Total TCDD	ND	—	1.2	1,2,3,7,8-PeCDD-13C	2.00	94
				1,2,3,4,7,8-HxCDF-13C	2.00	44
1,2,3,7,8-PeCDF	—	0.92	0.72 J	1,2,3,6,7,8-HxCDF-13C	2.00	52
2,3,4,7,8-PeCDF	—	1.0	0.56 J	2,3,4,6,7,8-HxCDF-13C	2.00	55
Total PeCDF	ND	—	0.56	1,2,3,7,8,9-HxCDF-13C	2.00	55
				1,2,3,4,7,8-HxCDD-13C	2.00	54
1,2,3,7,8-PeCDD	—	1.4	0.89 J	1,2,3,6,7,8-HxCDD-13C	2.00	56
Total PeCDD	ND	—	0.89	1,2,3,4,6,7,8-HpCDF-13C	2.00	48
				1,2,3,4,7,8,9-HpCDF-13C	2.00	29
1,2,3,4,7,8-HxCDF	ND	—	1.5	1,2,3,4,6,7,8-HpCDD-13C	2.00	56
1,2,3,6,7,8-HxCDF	—	2.1	1.2 J	OCDD-13C	4.00	46
2,3,4,6,7,8-HxCDF	—	1.1	1.1 J			
1,2,3,7,8,9-HxCDF	2.6	—	1.2 J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	2.6	—	1.1 J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	—	3.1	0.97 J	2,3,7,8-TCDD-37Cl4	0.20	88
1,2,3,6,7,8-HxCDD	2.2	—	0.96 J			
1,2,3,7,8,9-HxCDD	—	1.4	0.98 J			
Total HxCDD	2.2	—	0.96 J			
1,2,3,4,6,7,8-HpCDF	—	2.9	1.4 J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	—	6.1	4.1 J	Equivalence: 3.1 pg/L		
Total HpCDF	5.8	—	1.4 J	(Lower-bound - Using 2005 WHO Factors)		
1,2,3,4,6,7,8-HpCDD	—	5.9	4.1 J			
Total HpCDD	6.2	—	4.1 J			
OCDF	7.4	—	1.8 J			
OCDD	34	—	2.0 J			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

EDL = Estimated Detection Limit

J = Estimated value

I = Isotope ratio out of specification

REPORT OF LABORATORY ANALYSIS

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-100961	Matrix	Water
Filename	L220906A_02	Dilution	NA
Total Amount Extracted	968 mL	Extracted	08/30/2022 11:20
ICAL ID	L220811	Analyzed	09/06/2022 14:11
CCal Filename	L220906A_01	Injected By	SMT
Method Blank ID	BLANK-100960		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	11	7.5	15.8	114
2,3,7,8-TCDD	10	13	6.7	15.8	132
1,2,3,7,8-PeCDF	50	55	40.0	67.0	109
2,3,4,7,8-PeCDF	50	57	34.0	80.0	115
1,2,3,7,8-PeCDD	50	55	35.0	71.0	109
1,2,3,4,7,8-HxCDF	50	51	36.0	67.0	101
1,2,3,6,7,8-HxCDF	50	62	42.0	65.0	124
2,3,4,6,7,8-HxCDF	50	58	35.0	78.0	115
1,2,3,7,8,9-HxCDF	50	55	39.0	65.0	110
1,2,3,4,7,8-HxCDD	50	60	35.0	82.0	119
1,2,3,6,7,8-HxCDD	50	54	38.0	67.0	109
1,2,3,7,8,9-HxCDD	50	55	32.0	81.0	110
1,2,3,4,6,7,8-HpCDF	50	50	41.0	61.0	99
1,2,3,4,7,8,9-HpCDF	50	57	39.0	69.0	113
1,2,3,4,6,7,8-HpCDD	50	50	35.0	70.0	99
OCDF	100	100	63.0	170.0	105
OCDD	100	100	78.0	144.0	103
2,3,7,8-TCDD-37Cl4	10	8.0	3.1	19.1	80
2,3,7,8-TCDF-13C	100	55	22.0	152.0	55
2,3,7,8-TCDD-13C	100	47	20.0	175.0	47
1,2,3,7,8-PeCDF-13C	100	72	21.0	192.0	72
2,3,4,7,8-PeCDF-13C	100	69	13.0	328.0	69
1,2,3,7,8-PeCDD-13C	100	80	21.0	227.0	80
1,2,3,4,7,8-HxCDF-13C	100	32	19.0	202.0	32
1,2,3,6,7,8-HxCDF-13C	100	40	21.0	159.0	40
2,3,4,6,7,8-HxCDF-13C	100	44	22.0	176.0	44
1,2,3,7,8,9-HxCDF-13C	100	44	17.0	205.0	44
1,2,3,4,7,8-HxCDD-13C	100	42	21.0	193.0	42
1,2,3,6,7,8-HxCDD-13C	100	47	25.0	163.0	47
1,2,3,4,6,7,8-HpCDF-13C	100	39	21.0	158.0	39
1,2,3,4,7,8,9-HpCDF-13C	100	31	20.0	186.0	31
1,2,3,4,6,7,8-HpCDD-13C	100	47	26.0	166.0	47
OCDD-13C	200	80	26.0	397.0	40

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCSD-100962	Matrix	Water
Filename	L220906A_03	Dilution	NA
Total Amount Extracted	995 mL	Extracted	08/30/2022 11:20
ICAL ID	L220811	Analyzed	09/06/2022 14:53
CCal Filename	L220906A_01	Injected By	SMT
Method Blank ID	BLANK-100960		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDF	10	12	7.5	15.8	116
2,3,7,8-TCDD	10	13	6.7	15.8	134
1,2,3,7,8-PeCDF	50	58	40.0	67.0	116
2,3,4,7,8-PeCDF	50	59	34.0	80.0	119
1,2,3,7,8-PeCDD	50	55	35.0	71.0	110
1,2,3,4,7,8-HxCDF	50	51	36.0	67.0	103
1,2,3,6,7,8-HxCDF	50	63	42.0	65.0	127
2,3,4,6,7,8-HxCDF	50	59	35.0	78.0	119
1,2,3,7,8,9-HxCDF	50	57	39.0	65.0	114
1,2,3,4,7,8-HxCDD	50	62	35.0	82.0	123
1,2,3,6,7,8-HxCDD	50	56	38.0	67.0	112
1,2,3,7,8,9-HxCDD	50	57	32.0	81.0	113
1,2,3,4,6,7,8-HpCDF	50	50	41.0	61.0	101
1,2,3,4,7,8,9-HpCDF	50	59	39.0	69.0	118
1,2,3,4,6,7,8-HpCDD	50	49	35.0	70.0	98
OCDF	100	100	63.0	170.0	104
OCDD	100	100	78.0	144.0	100
2,3,7,8-TCDD-37Cl4	10	8.6	3.1	19.1	86
2,3,7,8-TCDF-13C	100	55	22.0	152.0	55
2,3,7,8-TCDD-13C	100	48	20.0	175.0	48
1,2,3,7,8-PeCDF-13C	100	65	21.0	192.0	65
2,3,4,7,8-PeCDF-13C	100	68	13.0	328.0	68
1,2,3,7,8-PeCDD-13C	100	73	21.0	227.0	73
1,2,3,4,7,8-HxCDF-13C	100	34	19.0	202.0	34
1,2,3,6,7,8-HxCDF-13C	100	43	21.0	159.0	43
2,3,4,6,7,8-HxCDF-13C	100	46	22.0	176.0	46
1,2,3,7,8,9-HxCDF-13C	100	46	17.0	205.0	46
1,2,3,4,7,8-HxCDD-13C	100	46	21.0	193.0	46
1,2,3,6,7,8-HxCDD-13C	100	46	25.0	163.0	46
1,2,3,4,6,7,8-HpCDF-13C	100	40	21.0	158.0	40
1,2,3,4,7,8,9-HpCDF-13C	100	34	20.0	186.0	34
1,2,3,4,6,7,8-HpCDD-13C	100	49	26.0	166.0	49
OCDD-13C	200	85	26.0	397.0	42

Cs = Concentration Spiked (ng/mL)
 Cr = Concentration Recovered (ng/mL)
 Rec. = Recovery (Expressed as Percent)
 Control Limit Reference: Method 1613, Table 6, 10/94 Revision
 R = Recovery outside of control limits
 Nn = Value obtained from additional analysis
 * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 1613B

Spike Recovery Relative Percent Difference (RPD) Results

Client Endyne, Inc.

Spike 1 ID LCS-100961
Spike 1 Filename L220906A_02

Spike 2 ID LCSD-100962
Spike 2 Filename L220906A_03

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDF	114	116	1.7
2,3,7,8-TCDD	132	134	1.5
1,2,3,7,8-PeCDF	109	116	6.2
2,3,4,7,8-PeCDF	115	119	3.4
1,2,3,7,8-PeCDD	109	110	0.9
1,2,3,4,7,8-HxCDF	101	103	2.0
1,2,3,6,7,8-HxCDF	124	127	2.4
2,3,4,6,7,8-HxCDF	115	119	3.4
1,2,3,7,8,9-HxCDF	110	114	3.6
1,2,3,4,7,8-HxCDD	119	123	3.3
1,2,3,6,7,8-HxCDD	109	112	2.7
1,2,3,7,8,9-HxCDD	110	113	2.7
1,2,3,4,6,7,8-HpCDF	99	101	2.0
1,2,3,4,7,8,9-HpCDF	113	118	4.3
1,2,3,4,6,7,8-HpCDD	99	98	1.0
OCDF	105	104	1.0
OCDD	103	100	3.0

%REC = Percent Recovered

RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

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G.S. Precision Coating, Inc

Bill to:
Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:
Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Endyne Inc. COC

Prepared: 6/23/22

Cust #

DEI

W-7

2208-23251



Stone Environmental, Inc.
G.S. Precision Coating, Inc

Effluent Grab

Sampled Date/Time: 8/17/22 @ 10:40am Sampler: ADZ

pH Client Data	<u>6.89</u>	
Cyanide, Total	1 - 8 oz Plastic for CN	<6C, NaOH Na2S2O3, Cl2
Dioxins, Sub-contracted	2 - 1L Amber Glass	<6C, pH 5-9
Pests, Priority Pollutant	4 - 1L Amber Glass	<6C, Na2S2O3, pH 5-9
SVOC Priority Pollutants		
Cadmium, Total	1 - 16 oz Plastic Total Metals	HNO3 pH < 2
Chromium, Total		
Copper, Total		
Lead, Total		
Nickel, Total		
Silver, Total		
Zinc, Total		
VOC Priority Pollutants	2 - 40ml vials	<6C, Na2S2O3

Composite

10:30am 8/16 - 10:30 8/17

*CZ
AS
8/17/22
1532
1140-22*

Trip Blank

Sampled Date/Time: 6/28/22 @ 9:24 Sampler: _____

VOC Priority Pollutants	2 - 40ml vials	<6C, Na2S2O3
-------------------------	----------------	--------------

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.



Relinquished by: _____	Accepted by: _____
Relinquished by: _____	Received by: <u>DMU</u> <u>8.17.22</u> <u>237</u>
Sites/Parameters correct as listed. Client Initials _____	Date Time _____
Client Authorization to use Subcontract lab Client Initials _____	Date Time _____
Sample origin: VT <input type="checkbox"/> NH <input type="checkbox"/> NY <input type="checkbox"/> Other <input type="checkbox"/>	
Special reporting instructions: (PO#) _____	
Requested Turnaround Time: Routine: Rush Due Date _____	

Delv: _____	Temp Ck _____	Lab use Only
Temp C: <u>10.7</u>	Log by _____	
Comment: <u>C</u>		



160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Elna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: General Electric-Columbian Ave

WORK ORDER: **2208-21878**

DATE RECEIVED: August 05, 2022

DATE REPORTED: September 01, 2022

SAMPLER: Andy Fish

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

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Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 09/01/2022

CLIENT: Stone Environmental, Inc.
PROJECT: General Electric-Columbian Ave

WORK ORDER: 2208-21878
DATE RECEIVED: 08/05/2022

001	Site: Effluent Grab		Date Sampled: 8/5/22		Time: 7:49			
Parameter	Result	Units	Method	Analysis Date/Time		Lab/Tech	NELAC	Qual.
pH per Client	7.01	SU at __ C	Client Data	8/5/22	7:49	W CLI	N	
Cyanide, Total	< 0.010	mg/L	EPA 335.4, R.1(1993)	8/10/22		N MAP	A	
Metals Digestion	Digested		EPA 200.7/200.8	8/12/22		W MGT	A	
Cadmium, Total	< 0.0005	mg/L	EPA 200.8	8/15/22	15:19	W SJM	A	
Chromium, Total	0.0080	mg/L	EPA 200.8	8/15/22	15:19	W SJM	A	
Copper, Total	0.0023	mg/L	EPA 200.8	8/15/22	15:19	W SJM	A	
Lead, Total	< 0.0010	mg/L	EPA 200.8	8/15/22	15:19	W SJM	A	
Nickel, Total	0.0120	mg/L	EPA 200.8	8/15/22	15:19	W SJM	A	
Silver, Total	< 0.010	mg/L	EPA 200.8	8/15/22	15:19	W SJM	A	
Zinc, Total	< 0.020	mg/L	EPA 200.8	8/15/22	15:19	W SJM	A	
Dioxins, Sub-contracted	See Attached		Attached	8/24/22		SWSUB	N	SPA
VOC Priority Pollutants								
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	8/5/22		W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	8/5/22		W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	8/5/22		W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	8/5/22		W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	8/5/22		W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	8/5/22		W TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	8/5/22		W TRP	A	
Acetone	31.7	ug/L	EPA 624.1	8/5/22		W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	8/5/22		W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	8/5/22		W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	8/5/22		W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	8/5/22		W TRP	A	
Chloroform	11.9	ug/L	EPA 624.1	8/5/22		W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	8/5/22		W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	8/5/22		W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	8/5/22		W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	8/5/22		W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	8/5/22		W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	8/5/22		W TRP	A	
Bromodichloromethane	1.1	ug/L	EPA 624.1	8/5/22		W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	8/5/22		W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	8/5/22		W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	8/5/22		W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	8/5/22		W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	8/5/22		W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	8/5/22		W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	8/5/22		W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	8/5/22		W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	8/5/22		W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	8/5/22		W TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	8/5/22		W TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	8/5/22		W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/5/22		W TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/5/22		W TRP	A	

**ENDYNE Inc.**

www.endynelabs.com

Laboratory Report

DATE REPORTED: 09/01/2022

CLIENT: Stone Environmental, Inc.
PROJECT: General Electric-Columbian Ave

WORK ORDER: 2208-21878
DATE RECEIVED: 08/05/2022

001	Site: Effluent Grab		Date Sampled: 8/5/22		Time: 7:49	
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC Qual.
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A
Naphthalene	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	U
Surr. 1 (Dibromofluoromethane)	100	%	EPA 624.1	8/5/22	W TRP	A
Surr. 2 (Toluene d8)	99	%	EPA 624.1	8/5/22	W TRP	A
Surr. 3 (4-Bromofluorobenzene)	99	%	EPA 624.1	8/5/22	W TRP	A
Unidentified Peaks	1		EPA 624.1	8/5/22	W TRP	U
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	8/5/22	W TRP	A
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	8/5/22	W TRP	A
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	8/5/22	W TRP	A
Priority Pollutant Pesticides						
Sep Funnel Extraction	Completed		EPA 608.3	8/10/22	W CLD	A
alpha-BHC	< 0.009	ug/L	EPA 608.3	8/12/22	W DPD	A
gamma-BHC (Lindane)	< 0.012	ug/L	EPA 608.3	8/12/22	W DPD	A
beta-BHC	< 0.018	ug/L	EPA 608.3	8/12/22	W DPD	A
delta-BHC	< 0.027	ug/L	EPA 608.3	8/12/22	W DPD	A
Heptachlor	< 0.009	ug/L	EPA 608.3	8/12/22	W DPD	A
Aldrin	< 0.012	ug/L	EPA 608.3	8/12/22	W DPD	A
Heptachlor Epoxide	< 0.249	ug/L	EPA 608.3	8/12/22	W DPD	A
4,4'-DDE	< 0.012	ug/L	EPA 608.3	8/12/22	W DPD	A
Endosulfan I	< 0.042	ug/L	EPA 608.3	8/12/22	W DPD	A
Dieldrin	< 0.006	ug/L	EPA 608.3	8/12/22	W DPD	A
Endrin	< 0.018	ug/L	EPA 608.3	8/12/22	W DPD	A
4,4'-DDD	< 0.033	ug/L	EPA 608.3	8/12/22	W DPD	A
Endosulfan II	< 0.012	ug/L	EPA 608.3	8/12/22	W DPD	A
4,4'-DDT	< 0.036	ug/L	EPA 608.3	8/12/22	W DPD	A
Endrin Aldehyde	< 0.070	ug/L	EPA 608.3	8/12/22	W DPD	A
Endosulfan Sulfate	< 0.198	ug/L	EPA 608.3	8/12/22	W DPD	A
Methoxychlor	< 0.1	ug/L	EPA 608.3	8/12/22	W DPD	A
Chlordane	< 0.150	ug/L	EPA 608.3	8/12/22	W DPD	A
Toxaphene	< 0.720	ug/L	EPA 608.3	8/12/22	W DPD	A
Aroclor 1016 (PCB-1016)	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A
Aroclor 1221 (PCB-1221)	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A
Aroclor 1232 (PCB-1232)	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A
Aroclor 1242 (PCB-1242)	< 0.095	ug/L	EPA 608.3	8/11/22	W DPD	A
Aroclor 1248 (PCB-1248)	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A
Aroclor 1254 (PCB-1254)	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A
Aroclor 1260	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A
Surrogate-TCMX	75	%	EPA 608.3	8/12/22	W DPD	A
Surrogate-DCB	80	%	EPA 608.3	8/12/22	W DPD	A
SVOC Priority Pollutants						
Extraction EPA 3510C	Completed		EPA 3510C	8/12/22	W CLD	A
N-Nitrosodimethylamine	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A
Bis(2-chloroethyl)ether	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A
2,2'-Oxybis(1-chloropropane	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A
N-Nitrosodi-n-propylamine	< 10.0	ug/L	EPA 625.1	8/18/22	W EEP	A
Hexachloroethane	< 2.0	ug/L	EPA 625.1	8/18/22	W EEP	A

**ENDYNE Inc.**

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Laboratory Report

DATE REPORTED: 09/01/2022

CLIENT: Stone Environmental, Inc.
PROJECT: General Electric-Columbian Ave

WORK ORDER: 2208-21878
DATE RECEIVED: 08/05/2022

001	Site: Effluent Grab		Date Sampled: 8/5/22		Time: 7:49		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Nitrobenzene	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Isophorone	< 2.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Bis(2-chloroethoxy)methane	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Naphthalene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Hexachlorobutadiene	< 2.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Hexachlorocyclopentadiene	< 20.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
2-Chloronaphthalene	< 2.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Dimethyl phthalate	< 2.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
2,6-Dinitrotoluene	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Acenaphthylene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Acenaphthene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
2,4-Dinitrotoluene	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Fluorene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Diethyl phthalate	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
N-Nitrosodiphenylamine	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Azobenzene	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Hexachlorobenzene	< 1.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Phenanthrene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Anthracene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Di-n-butylphthalate	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Fluoranthene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Benzidine	< 20.0	ug/L	EPA 625.1	8/18/22	W EEP	A	M-
Pyrene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Butyl benzyl phthalate	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Benzo(a)anthracene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Chrysene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	M-
Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Di-n-octylphthalate	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Benzo(b)fluoranthene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Benzo(k)fluoranthene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Benzo(a)pyrene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Indeno(1,2,3-cd)pyrene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Dibenzo(a,h)anthracene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Benzo(g,h,i)perylene	< 0.5	ug/L	EPA 625.1	8/18/22	W EEP	A	
Phenol	< 2.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
2-Chlorophenol	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
2-Nitrophenol	< 10.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
2,4-Dimethylphenol	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
2,4-Dichlorophenol	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
4-Chloro-3-methylphenol	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
2,4,6-Trichlorophenol	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
2,4-Dinitrophenol	< 20.0	ug/L	EPA 625.1	8/18/22	W EEP	A	

Laboratory Report

DATE REPORTED: 09/01/2022

CLIENT: Stone Environmental, Inc.
PROJECT: General Electric-Columbian Ave

WORK ORDER: 2208-21878
DATE RECEIVED: 08/05/2022

001	Site: Effluent Grab			Date Sampled: 8/5/22	Time: 7:49		
<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
4-Nitrophenol	< 5.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
Pentachlorophenol	< 10.0	ug/L	EPA 625.1	8/18/22	W EEP	A	
B/N Surr.1 Nitrobenzene-d5	83	%	EPA 625.1	8/18/22	W EEP	A	
B/N Surr.2 2-Fluorobiphenyl	88	%	EPA 625.1	8/18/22	W EEP	A	
B/N Surr.3 Terphenyl-d14	106	%	EPA 625.1	8/18/22	W EEP	A	
Acid Surr.1 2-Fluorophenol	31	%	EPA 625.1	8/18/22	W EEP	A	
Acid Surr.2 Phenol-d5	27	%	EPA 625.1	8/18/22	W EEP	A	
Acid Surr.3 Tribromophenol	82	%	EPA 625.1	8/18/22	W EEP	A	
Unidentified Peaks	>10		EPA 625.1	8/18/22	W EEP	U	

002	Site: Trip Blank		Date Sampled: 8/5/22		Time: 7:49		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
VOC Priority Pollutants							
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	8/5/22	W TRP	A	
Acetone	< 10.0	ug/L	EPA 624.1	8/5/22	W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Chloroform	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	8/5/22	W TRP	A	

**ENDYNE Inc.**

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Laboratory Report

DATE REPORTED: 09/01/2022

CLIENT: Stone Environmental, Inc.
 PROJECT: General Electric-Columbian Ave

WORK ORDER: **2208-21878**
 DATE RECEIVED: 08/05/2022

002	Site: Trip Blank		Date Sampled: 8/5/22		Time: 7:49		
<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/5/22	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	8/5/22	W TRP	U	
Surr. 1 (Dibromofluoromethane)	101	%	EPA 624.1	8/5/22	W TRP	A	
Surr. 2 (Toluene d8)	101	%	EPA 624.1	8/5/22	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	100	%	EPA 624.1	8/5/22	W TRP	A	
Unidentified Peaks	0		EPA 624.1	8/5/22	W TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	8/5/22	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	8/5/22	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	8/5/22	W TRP	A	

Report Summary of Qualifiers and Notes

M-: The Laboratory Fortified Matrix (LFM) analysis had a recovery lower than defined acceptance limits. This indicates a potential negative bias in the reported value or a difficult sample matrix that resulted in poor reproducibility between sample aliquots selected for analysis.

SPA: Analysis performed by subcontracted laboratory, Pace Analytical, with the following state assigned laboratory ID numbers; VT0282, NY10888, NH2974. The complete subcontracted report has been appended to this report.

Report Prepared for:

Eileen Toomey
Endyne, Inc.
160 James Brown Drive
Williston VT 05495

**REPORT OF
LABORATORY
ANALYSIS FOR
TCDD**

Report Prepared Date:

August 30, 2022

Report Information:

Pace Project #: 10621412
Sample Receipt Date: 08/16/2022
Client Project #: 2206-21878-W
Client Sub PO #: N/A
State Cert #: N/A

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 2,3,7,8-TCDD Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Isaac Johnson, your Pace Project Manager.

This report has been reviewed by:



August 30, 2022

Isaac Johnson, Project Manager
(612) 607-1700
(612) 607-6444 (fax)
isaac.johnson@pacelabs.com



Report of Laboratory Analysis

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The results relate only to the samples included in this report.

DISCUSSION

This report presents the results from the analysis performed on one sample submitted by a representative of Endyne, Inc. The sample was analyzed for the presence or absence of 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) using USEPA Method 1613B. The reporting limits were set to correspond to the lowest calibration point and a nominal 1-Liter sample amount, and the sensitivity was verified by signal-to-noise measurements. The quantitation limits, adjusted for sample extraction amount, may be somewhat higher or lower than the reporting limits provided in this report. The sample was received above the recommended temperature range of 0-6 degrees Celsius.

The isotopically-labeled TCDD internal standard in the sample extract was recovered at 50%. All of the labeled standard recoveries obtained for this project were within the target ranges specified in Method 1613B. Also, since the quantification of the native TCDD was based on isotope dilution, the data were automatically corrected for recovery and accurate values were obtained.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show that 2,3,7,8-TCDD was not detected.

Laboratory spike samples were also prepared using clean reference matrix that had been fortified with native standard material. The results show that the spiked native TCDD was recovered at 124-151% with a relative percent difference of 19.6%. The recovery value obtained for 2,3,7,8-TCDD in the laboratory spike duplicate was above the target range, flagged "R" on the results table, and may indicate a high bias for this congener in these determinations. Matrix spikes were not prepared with the sample batch.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Missouri	10100
Alaska-DW	MN00064	Montana	CERT0092
Alaska-UST	17-009	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN00064
Arkansas - WW	88-0680	New Hampshire	2081
Arkansas-DW	MN00064	New Jersey	MN002
California	2929	New York	11647
Colorado	MN00064	North Carolina-	27700
Connecticut	PH-0256	North Carolina-	530
Florida	E87605	North Dakota	R-036
Georgia	959	Ohio-DW	41244
Hawaii	MN00064	Ohio-VAP (170	CL101
Idaho	MN00064	Ohio-VAP (180	CL110
Illinois	200011	Oklahoma	9507
Indiana	C-MN-01	Oregon- rimary	MN300001
Iowa	368	Oregon-Second	MN200001
Kansas	E-10167	Pennsylvania	68-00563
Kentucky-DW	90062	Puerto Rico	MN00064
Kentucky-WW	90062	South Carolina	74003
Louisiana-DEQ	AI-84596	Tennessee	TN02818
Louisiana-DW	MN00064	Texas	T104704192
Maine	MN00064	Utah	MN00064
Maryland	322	Vermont	VT-027053137
Michigan	9909	Virginia	460163
Minnesota	027-053-137	Washington	C486
Minnesota-Ag	via MN 027-053	West Virginia-D	382
Minnesota-Petr	1240	West Virginia-D	9952C
		Wisconsin	999407970
		Wyoming-UST	via A2LA 2926.

REPORT OF LABORATORY ANALYSIS

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Report No.....10621412



Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

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Chain of Custody

Pace Analytical Minn

1700 Elm St SE

Minneapolis

MN 55414

Ph 612-607-1700

STATE OF ORIGIN: _____ VERMONT

The analysis requested requires that you have and maintain NELAC certification. If you do not currently have NELAC certification in the above referenced State, and specified matrix please contact Endyne immediately at (802) 879-4333 ext 301. Thank you.

Copy of Report To		Billing Information		Project Information
CUSTOMER:	Endyne, Inc.	BILL TO:	Endyne, Inc.	2206-21878-W
ADDRESS:	160 James Brown Drive	ADDRESS:	160 James Brown Drive	TURN AROUND TIME:
	Williston, VT 05495		Williston, VT 05495	SPECIAL INSTRUCTIONS:
ATTENTION:	Eileen Toomey	ATTENTION:	Reporting	
E-MAIL:	etoomey@endynelabs.com	E-MAIL:	etoomey@endynelabs.com	
PHONE:	(802) 879-4333 x 300	PHONE:	802-879-4333 x 308	

Analysis Requested: **Dioxins, Sub-contracted**

Dioxins, Sub-contracted

Dioxins, Sub-contractedSample IdentificationMatrixDT TM Sampled

2208-21878 001 Effluent Grab

011

NP

8/5/22

7:49

001

WO#: 10621412



10621412

Relinquished by: (Sign, Date, Time)

Eileen Toomey 8/15/22

Received by: (Sign, Date, Time)

Jace 8/16/22



DC#_Title: ENV-FRM-MIN4-0150 v05_Sample Condition Upon Receipt (SCUR)

Effective Date: 04/12/2022

Sample Condition Upon Receipt

Client Name:

Project #:

WO#: 10621412

PM: IJJ

Due Date: 09/15/22

CLIENT: ENDYNE

Courier:

☐ Fed Ex ☒ UPS ☐ USPS ☐ Client
☐ Pace ☐ Speedee ☐ Commercial

See Exceptions
☐ ENV-FRM-MIN4-0142

Tracking Number: 12704 2x9 15 7527 1977

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No

Seals Intact? ☐ Yes ☒ No

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other:

Temp Blank? ☐ Yes ☒ No

Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☐ T5(0489) ☐ T6(0235)
☐ T7 (0042) ☐ 01339252/1710 ☐ 122639816 ☐ 140792808

Type of Ice: ☐ Wet ☒ Blue ☐ None ☐ Dry ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☒ No Were All Container Temps Taken? ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C

Cooler Temp Read w/temp blank: °C

Average Corrected Temp (no temp blank only): 6.7 °C ☒ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container

Correction Factor: True Cooler Temp Corrected w/temp blank: °C

USDA Regulated Soil: (☒ N/A, (water sample/Other:)

Date/Initials of Person Examining Contents: KN 08/16/22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA.

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.

Location (check one): <input type="checkbox"/> Duluth <input checked="" type="checkbox"/> Minneapolis <input type="checkbox"/> Virginia	COMMENTS:
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 1.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 2.
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 3.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8hr, <24 hrs, <input type="checkbox"/> >24 hrs
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrome <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 6.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 7.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 8.
-Pace Containers Used?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 9.
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is sufficient information available to reconcile the samples to the COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 11. If no, write ID/ Date/Time on Container Below: See Exception <input type="checkbox"/> ENV-FRM-MIN4-0142
Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other-	
All containers needing acid/base preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> NaOH <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Positive for Res. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No See Exception <input type="checkbox"/> ENV-FRM-MIN4-0142
	pH Paper Lot#
	Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Headspace in Methyl Mercury Container?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 13. See Exception <input type="checkbox"/> ENV-FRM-MIN4-0140
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A 14.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Pace Trip Blank Lot # (if purchased):

CLIENT NOTIFICATION/RESOLUTION

Person Contacted:

Date/Time:

Field Data Required? ☐ Yes ☐ No

Comments/Resolution:

Project Manager Review: Isaac Johnson

Date: 8/16/22

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by:

Qualtrax ID: 52742

Report No.....10621412_1613TCDD_DFR

Page 1 of 1

Page 6 of 14



DC#_Title: ENV-FRM-MIN4-0142 v01_Sample Condition Upon Receipt
(SCUR) Exception Form

Effective Date: 02/25/2022

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No												
			If yes, indicate who was contacted/date/time. If no, indicate reason why.												
			Multiple Cooler Project? <input type="checkbox"/> Yes <input type="checkbox"/> No If you answered yes, fill out information to the left.												
			<table border="1"><thead><tr><th colspan="3">No Temp Blank</th></tr><tr><th>Read Temp</th><th>Corrected Temp</th><th>Average Temp</th></tr></thead><tbody><tr><td>7.5</td><td></td><td>6.9</td></tr><tr><td>6.2</td><td>TRUE</td><td></td></tr></tbody></table>	No Temp Blank			Read Temp	Corrected Temp	Average Temp	7.5		6.9	6.2	TRUE	
No Temp Blank															
Read Temp	Corrected Temp	Average Temp													
7.5		6.9													
6.2	TRUE														

Tracking Number/Temperature	

Issue Type:	Container Type	# of Containers
Sample ID		

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition? <input type="checkbox"/> Yes <input type="checkbox"/> No	Initials
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	

Comments:

Qualtrax ID: 52763

Page 1 of 1



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1700 Elm Street, Suite 200
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Phone: 612.607.1700
Fax: 612.607.6444
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Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

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Appendix B

Sample Analysis Summary

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Method 1613B Sample Analysis Results

Client - Endyne, Inc.

Client's Sample ID	2208-21878 001 Effluent Grab		
Lab Sample ID	10621412001		
Filename	L220828B_12		
Injected By	JRH		
Total Amount Extracted	993 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	08/05/2022 07:49
ICAL ID	L220811	Received	08/16/2022 07:45
CCal Filename(s)	L220828B_01	Extracted	08/18/2022 12:07
Method Blank ID	BLANK-100754	Analyzed	08/28/2022 18:56

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	ND	—	10	2,3,7,8-TCDD-13C	2.00	50
				Recovery Standard 1,2,3,4-TCDD-13C	2.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	0.20	68

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

R = Recovery outside target range
E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

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Method 1613B Blank Analysis Results

Lab Sample Name	DFBLKAL	Matrix	Water
Lab Sample ID	BLANK-100754	Dilution	NA
Filename	L220824A_07	Extracted	08/18/2022 12:07
Total Amount Extracted	1010 mL	Analyzed	08/24/2022 17:13
ICAL ID	L220811	Injected By	SMT
CCal Filename(s)	L220824A_01		

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	ND	—	10	2,3,7,8-TCDD-13C	2.00	32
				Recovery Standard 1,2,3,4-TCDD-13C	2.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	0.20	63

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).

EMPC = Estimated Maximum Possible Concentration

RL = Reporting Limit

R = Recovery outside target range

REPORT OF LABORATORY ANALYSIS

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-100755	Matrix	Water
Filename	L220824A_02	Dilution	NA
Total Amount Extracted	1010 mL	Extracted	08/18/2022 12:07
ICAL ID	L220811	Analyzed	08/24/2022 13:38
CCal Filename	L220824A_01	Injected By	SMT
Method Blank ID	BLANK-100754		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDD	10	12	7.3	14.6	124
2,3,7,8-TCDD-37Cl4	10	6.7	3.7	15.8	67
2,3,7,8-TCDD-13C	100	29	25.0	141.0	29

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCSD-100756	Matrix	Water
Filename	L220824A_03	Dilution	NA
Total Amount Extracted	990 mL	Extracted	08/18/2022 12:07
ICAL ID	L220811	Analyzed	08/24/2022 14:21
CCal Filename	L220824A_01	Injected By	SMT
Method Blank ID	BLANK-100754		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDD	10	15	7.3	14.6	151 R
2,3,7,8-TCDD-37Cl4	10	6.4	3.7	15.8	64
2,3,7,8-TCDD-13C	100	31	25.0	141.0	31

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

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Method 1613B

Spike Recovery Relative Percent Difference (RPD) Results

Client Endyne, Inc.

Spike 1 ID LCS-100755
Spike 1 Filename L220824A_02

Spike 2 ID LCSD-100756
Spike 2 Filename L220824A_03

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDD	124	151	19.6

%REC = Percent Recovered

RPD = The difference between the two values divided by the mean value

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General Electric-Columbian Ave

Endyne Inc. COC

2208-21878

Prepared: 8/23/22

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust #

DECF

W-702:



Stone Environmental, Inc.
General Electric-Columbian Ave

Effluent Grab

Sampled Date/Time: 8/5/22 @ 7:49 Sampler: UATpH Client Data 7.01

Cyanide, Total 1 - 8 oz Plastic for CN <6C, NaOH Na2S2O3, Cl2

Dioxins, Sub-contracted 2 - 1L Amber Glass <6C, pH 5-9

Pests, Priority Pollutant 4 - 1L Amber Glass <6C, Na2S2O3, pH 5-9
SVOC Priority Pollutants

Cadmium, Total 1 - 16 oz Plastic Total Metals HNO3 pH < 2

Chromium, Total

Copper, Total

Lead, Total

Nickel, Total

Silver, Total

Zinc, Total

VOC Priority Pollutants 2 - 40ml vials <6C, Na2S2O3

Trip Blank

Sampled Date/Time: / / @ Sampler:

VOC Priority Pollutants 2 - 40ml vials <6C, Na2S2O3

One or more sample bottles in this project must be
kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the
temperature preservation requirements are not satisfied.

Relinquished by: Andrew Fish 8/5/22 11:54 Accepted by: Elise Loney 8/5/22 @ 11:54
Date Time Date TimeRelinquished by: Received by:
Date Time Date TimeSites/Parameters correct as listed. Client Initials Client Authorization to use Subcontract lab Client Initials Sample origin: VT ☐ NH ☐ NY ☐ Other ☐Special reporting instructions: (PO#) Requested Turnaround Time: Routine: Rush Due Date

Delv Client
Temp C: -1.6
Comment:

Temp Ck
Log by

Lab use Only



160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: General Electric-Windcrest Rd

WORK ORDER: **2208-21649**

DATE RECEIVED: August 03, 2022

DATE REPORTED: September 08, 2022

SAMPLER: Andy Fish

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 09/08/2022

CLIENT: Stone Environmental, Inc.
PROJECT: General Electric-Windcrest Rd

WORK ORDER: 2208-21649
DATE RECEIVED: 08/03/2022

001	Site: Effluent Grab/Composite			Date Sampled: 8/3/22		Time: 11:01		
Parameter	Result	Units	Method	Analysis Date/Time		Lab/Tech	NELAC	Qual.
pH per Client	7.1	SU at __ C	Client Data	8/3/22	11:01	W CLI	N	
Cyanide, Total	< 0.010	mg/L	EPA 335.4, R.1(1993)	8/10/22		N MAP	A	
Metals Digestion	Digested		EPA 200.7/200.8	8/5/22		W MGT	A	
Cadmium, Total	< 0.0005	mg/L	EPA 200.8	8/8/22	17:15	W MGT	A	
Chromium, Total	0.0148	mg/L	EPA 200.8	8/23/22	15:51	W SJM	A	
Copper, Total	0.0095	mg/L	EPA 200.8	8/8/22	17:15	W MGT	A	
Lead, Total	< 0.0010	mg/L	EPA 200.8	8/8/22	17:15	W MGT	A	
Nickel, Total	0.0142	mg/L	EPA 200.8	8/8/22	17:15	W MGT	A	
Silver, Total	< 0.010	mg/L	EPA 200.8	8/8/22	17:15	W MGT	A	
Zinc, Total	< 0.020	mg/L	EPA 200.8	8/8/22	17:15	W MGT	A	
Dioxins, Sub-contracted	See Attached		Attached	8/31/22		SWSUB	N	SBA
VOC Priority Pollutants								
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	8/4/22		W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	8/4/22		W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	8/4/22		W TRP	A	
Acetone	38.6	ug/L	EPA 624.1	8/4/22		W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Chloroform	7.6	ug/L	EPA 624.1	8/4/22		W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	8/4/22		W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	8/4/22		W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	8/4/22		W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	8/4/22		W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	8/4/22		W TRP	A	
Bromodichloromethane	0.9	ug/L	EPA 624.1	8/4/22		W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	8/4/22		W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/4/22		W TRP	A	

**ENDYNE Inc.**

www.endynelabs.com

Laboratory Report

DATE REPORTED: 09/08/2022

CLIENT: Stone Environmental, Inc.
 PROJECT: General Electric-Windcrest Rd

WORK ORDER: 2208-21649
 DATE RECEIVED: 08/03/2022

001	Site: Effluent Grab/Composite			Date Sampled: 8/3/22	Time: 11:01		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	8/4/22	W TRP	U	
Surr. 1 (Dibromofluoromethane)	101	%	EPA 624.1	8/4/22	W TRP	A	
Surr. 2 (Toluene d8)	100	%	EPA 624.1	8/4/22	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	99	%	EPA 624.1	8/4/22	W TRP	A	
Unidentified Peaks	0		EPA 624.1	8/4/22	W TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	8/4/22	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	8/4/22	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	8/4/22	W TRP	A	
Priority Pollutant Pesticides							
Sep Funnel Extraction	Completed		EPA 608.3	8/10/22	W CLD	A	
alpha-BHC	< 0.009	ug/L	EPA 608.3	8/12/22	W DPD	A	
gamma-BHC (Lindane)	< 0.012	ug/L	EPA 608.3	8/12/22	W DPD	A	
beta-BHC	< 0.018	ug/L	EPA 608.3	8/12/22	W DPD	A	
delta-BHC	< 0.027	ug/L	EPA 608.3	8/12/22	W DPD	A	
Heptachlor	< 0.009	ug/L	EPA 608.3	8/12/22	W DPD	A	
Aldrin	< 0.012	ug/L	EPA 608.3	8/12/22	W DPD	A	
Heptachlor Epoxide	< 0.249	ug/L	EPA 608.3	8/12/22	W DPD	A	
4,4'-DDE	< 0.012	ug/L	EPA 608.3	8/12/22	W DPD	A	
Endosulfan I	< 0.042	ug/L	EPA 608.3	8/12/22	W DPD	A	
Dieldrin	< 0.006	ug/L	EPA 608.3	8/12/22	W DPD	A	
Endrin	< 0.018	ug/L	EPA 608.3	8/12/22	W DPD	A	
4,4'-DDD	< 0.033	ug/L	EPA 608.3	8/12/22	W DPD	A	
Endosulfan II	< 0.012	ug/L	EPA 608.3	8/12/22	W DPD	A	
4,4'-DDT	< 0.036	ug/L	EPA 608.3	8/12/22	W DPD	A	
Endrin Aldehyde	< 0.070	ug/L	EPA 608.3	8/12/22	W DPD	A	
Endosulfan Sulfate	< 0.198	ug/L	EPA 608.3	8/12/22	W DPD	A	
Methoxychlor	< 0.1	ug/L	EPA 608.3	8/12/22	W DPD	A	
Chlordane	< 0.150	ug/L	EPA 608.3	8/12/22	W DPD	A	
Toxaphene	< 0.720	ug/L	EPA 608.3	8/12/22	W DPD	A	
Aroclor 1016 (PCB-1016)	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A	
Aroclor 1221 (PCB-1221)	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A	
Aroclor 1232 (PCB-1232)	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A	
Aroclor 1242 (PCB-1242)	< 0.095	ug/L	EPA 608.3	8/11/22	W DPD	A	
Aroclor 1248 (PCB-1248)	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A	
Aroclor 1254 (PCB-1254)	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A	
Aroclor 1260	< 0.45	ug/L	EPA 608.3	8/11/22	W DPD	A	
Surrogate-TCMX	83	%	EPA 608.3	8/12/22	W DPD	A	
Surrogate-DCB	78	%	EPA 608.3	8/12/22	W DPD	A	
SVOC Priority Pollutants							
Extraction EPA 3510C	Completed		EPA 3510C	8/5/22	W CLD	A	
N-Nitrosodimethylamine	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Bis(2-chloroethyl)ether	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,2'-Oxybis(1-chloropropane	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
N-Nitrosodi-n-propylamine	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Hexachloroethane	< 2.0	ug/L	EPA 625.1	8/16/22	W EEP	A	

Laboratory Report

DATE REPORTED: 09/08/2022

CLIENT: Stone Environmental, Inc.
PROJECT: General Electric-Windcrest Rd

WORK ORDER: 2208-21649
DATE RECEIVED: 08/03/2022

001	Site: Effluent Grab/Composite			Date Sampled: 8/3/22	Time: 11:01		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Nitrobenzene	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Isophorone	< 2.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Bis(2-chloroethoxy)methane	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Naphthalene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Hexachlorobutadiene	< 2.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Hexachlorocyclopentadiene	< 20.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2-Chloronaphthalene	< 2.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Dimethyl phthalate	< 2.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,6-Dinitrotoluene	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Acenaphthylene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Acenaphthene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4-Dinitrotoluene	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Fluorene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Diethyl phthalate	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
N-Nitrosodiphenylamine	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Azobenzene	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Hexachlorobenzene	< 1.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Phenanthrene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Anthracene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Di-n-butylphthalate	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Fluoranthene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzidine	< 20.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Pyrene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Butyl benzyl phthalate	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(a)anthracene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Chrysene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Di-n-octylphthalate	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(b)fluoranthene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(k)fluoranthene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(a)pyrene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Indeno(1,2,3-cd)pyrene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Dibenzo(a,h)anthracene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(g,h,i)perylene	< 0.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Phenol	< 2.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2-Chlorophenol	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2-Nitrophenol	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4-Dimethylphenol	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4-Dichlorophenol	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
4-Chloro-3-methylphenol	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4,6-Trichlorophenol	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4-Dinitrophenol	< 20.0	ug/L	EPA 625.1	8/16/22	W EEP	A	

**ENDYNE Inc.**

www.endynelabs.com

Laboratory Report

DATE REPORTED: 09/08/2022

CLIENT: Stone Environmental, Inc.
PROJECT: General Electric-Windcrest Rd

WORK ORDER: 2208-21649
DATE RECEIVED: 08/03/2022

001	Site: Effluent Grab/Composite			Date Sampled: 8/3/22	Time: 11:01		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
4-Nitrophenol	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Pentachlorophenol	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
B/N Surr.1 Nitrobenzene-d5	56	%	EPA 625.1	8/16/22	W EEP	A	
B/N Surr.2 2-Fluorobiphenyl	67	%	EPA 625.1	8/16/22	W EEP	A	
B/N Surr.3 Terphenyl-d14	111	%	EPA 625.1	8/16/22	W EEP	A	
Acid Surr.1 2-Fluorophenol	26	%	EPA 625.1	8/16/22	W EEP	A	
Acid Surr.2 Phenol-d5	25	%	EPA 625.1	8/16/22	W EEP	A	
Acid Surr.3 Tribromophenol	96	%	EPA 625.1	8/16/22	W EEP	A	
Unidentified Peaks	> 10		EPA 625.1	8/16/22	W EEP	U	

002	Site: Trip Blank			Date Sampled: 8/3/22	Time: 11:01		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
VOC Priority Pollutants							
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	8/4/22	W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	8/4/22	W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	8/4/22	W TRP	A	
Acetone	< 10.0	ug/L	EPA 624.1	8/4/22	W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Chloroform	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	8/4/22	W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	8/4/22	W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	8/4/22	W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	8/4/22	W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	8/4/22	W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 624.1	8/4/22	W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	8/4/22	W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	8/4/22	W TRP	A	

Laboratory Report

DATE REPORTED: 09/08/2022

CLIENT: Stone Environmental, Inc.
 PROJECT: General Electric-Windcrest Rd

WORK ORDER: **2208-21649**
 DATE RECEIVED: 08/03/2022

002 Site: Trip Blank

Date Sampled: 8/3/22 Time: 11:01

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	8/4/22	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	8/4/22	W TRP	U	
Surr. 1 (Dibromofluoromethane)	101	%	EPA 624.1	8/4/22	W TRP	A	
Surr. 2 (Toluene d8)	101	%	EPA 624.1	8/4/22	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	102	%	EPA 624.1	8/4/22	W TRP	A	
Unidentified Peaks	0		EPA 624.1	8/4/22	W TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	8/4/22	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	8/4/22	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	8/4/22	W TRP	A	

Report Summary of Qualifiers and Notes

SBA: Analysis performed by subcontracted laboratory, Alpha Analytical, Mansfield MA. Results are presented here for your convenience. The complete subcontracted report has been appended to this report.



ANALYTICAL REPORT

Lab Number:	L2242381
Client:	Endyne, Inc. 160 James Brown Drive Williston, VT 05495
ATTN:	Eileen Toomey
Phone:	(802) 879-4333
Project Name:	2208-21649-W
Project Number:	2208-21649-W
Report Date:	09/07/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: 2208-21649-W
Project Number: 2208-21649-W

Lab Number: L2242381
Report Date: 09/07/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2242381-01	2208-21649 001	DW	Not Specified	08/03/22 11:01	08/05/22

Project Name: 2208-21649-W
Project Number: 2208-21649-W

Lab Number: L2242381
Report Date: 09/07/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

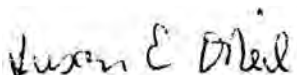
Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Susan O'Neil

Title: Technical Director/Representative

Date: 09/07/22

ORGANICS

SEMIVOLATILES

High Resolution Mass Spectrometry

Project Name: 2208-21649-W**Lab Number:** L2242381**Project Number:** 2208-21649-W**Report Date:** 09/07/22**SAMPLE RESULTS**

Lab ID: L2242381-01
 Client ID: 2208-21649 001
 Sample Location: Not Specified

Date Collected: 08/03/22 11:01
 Date Received: 08/05/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Dw
 Analytical Method: 132,1613B
 Analytical Date: 08/31/22 12:59
 Analyst: PB

Extraction Method: EPA 1613B
 Extraction Date: 08/08/22 10:50
 Cleanup Method: EPA 1613B
 Cleanup Date: 08/29/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
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Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab

2,3,7,8-TCDD	ND			pg/l	10.0	--	1
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Surrogate/Cleanup Standard	% Recovery	Qualifier	Acceptance Criteria
13C12-2,3,7,8-TCDD	59		25-164
37CL4-2,3,7,8-TCDD	99		35-197

Project Name: 2208-21649-W

Lab Number: L2242381

Project Number: 2208-21649-W

Report Date: 09/07/22

Method Blank Analysis Batch Quality Control

Analytical Method: 132,1613B
 Analytical Date: 08/31/22 06:34
 Analyst: PB

Extraction Method: EPA 1613B
 Extraction Date: 08/08/22 10:50
 Cleanup Method: EPA 1613B
 Cleanup Date: 08/29/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab for sample(s): 01 Batch: WG1672454-1						
2,3,7,8-TCDD	ND			pg/l	10.0	--

Surrogate/Cleanup Standard	%Recovery	Qualifier	Acceptance Criteria
13C12-2,3,7,8-TCDF	70		24-169
13C12-2,3,7,8-TCDD	69		25-164
13C12-1,2,3,7,8-PeCDF	78		24-185
13C12-2,3,4,7,8-PeCDF	80		21-178
13C12-1,2,3,7,8-PeCDD	75		25-181
13C12-1,2,3,4,7,8-HxCDF	77		26-152
13C12-1,2,3,6,7,8-HxCDF	73		26-123
13C12-2,3,4,6,7,8-HxCDF	77		28-136
13C12-1,2,3,7,8,9-HxCDF	82		29-147
13C12-1,2,3,4,7,8-HxCDD	71		32-141
13C12-1,2,3,6,7,8-HxCDD	74		28-130
13C12-1,2,3,4,6,7,8-HpCDF	81		28-143
13C12-1,2,3,4,7,8,9-HpCDF	86		26-138
13C12-1,2,3,4,6,7,8-HpCDD	88		23-140
13C12-OCDD	92		17-157
37CL4-2,3,7,8-TCDD	98		35-197

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 2208-21649-W

Lab Number: L2242381

Project Number: 2208-21649-W

Report Date: 09/07/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab Associated sample(s): 01 Batch: WG1672454-2 WG1672454-3								
2,3,7,8-TCDD	109		114		67-158	4		25

Surrogate/Cleanup Standard	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
13C12-2,3,7,8-TCDF	64		78		24-169
13C12-2,3,7,8-TCDD	66		76		25-164
13C12-1,2,3,7,8-PeCDF	71		82		24-185
13C12-2,3,4,7,8-PeCDF	70		83		21-178
13C12-1,2,3,7,8-PeCDD	67		80		25-181
13C12-1,2,3,4,7,8-HxCDF	77		86		26-152
13C12-1,2,3,6,7,8-HxCDF	77		86		26-123
13C12-2,3,4,6,7,8-HxCDF	74		88		28-136
13C12-1,2,3,7,8,9-HxCDF	79		89		29-147
13C12-1,2,3,4,7,8-HxCDD	71		81		32-141
13C12-1,2,3,6,7,8-HxCDD	73		84		28-130
13C12-1,2,3,4,6,7,8-HpCDF	72		86		28-143
13C12-1,2,3,4,7,8,9-HpCDF	73		92		26-138
13C12-1,2,3,4,6,7,8-HpCDD	76		98		23-140
13C12-OCDD	65		97		17-157
37CL4-2,3,7,8-TCDD	93		127		35-197

Project Name: 2208-21649-W

Project Number: 2208-21649-W

Serial_No:09072211:01

Lab Number: L2242381

Report Date: 09/07/22

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler **Custody Seal**

A Absent

Container Information

Container ID **Container Type**

L2242381-01A Amber 1000ml unpreserved

Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
A	7	7	2.6	Y	Absent		A2-DIOXIN-1613(365)

Project Name: 2208-21649-W

Lab Number: L2242381

Project Number: 2208-21649-W

Report Date: 09/07/22

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: 2208-21649-W
Project Number: 2208-21649-W

Lab Number: L2242381
Report Date: 09/07/22

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: 2208-21649-W**Lab Number:** L2242381**Project Number:** 2208-21649-W**Report Date:** 09/07/22**Data Qualifiers**

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: 2208-21649-W
Project Number: 2208-21649-W

Lab Number: L2242381
Report Date: 09/07/22

REFERENCES

- 132 Method 1613 Revision B: Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution HRGC/HRMS. USEPA Office of Water, October 1994.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 625/625.1: alpha-Terpineol

EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D/8270E: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522, EPA 537.1.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

8/6/22

C2242381

Chain of Custody

Alpha Analytical
Eight Walkup Drive

Westboro MA 01581

Ph 508-898-9220

STATE OF ORIGIN: VERMONT

The analysis requested requires that you have and maintain NELAC certification. If you do not currently have NELAC certification in the above referenced State, and specified matrix please contact Endyne immediately at (802) 879-4333 ext 301. Thank you.

Copy of Report To	Billing Information	Project Information
CUSTOMER: Endyne, Inc.	BILL TO: Endyne, Inc.	2208-21649-W
ADDRESS: 160 James Brown Drive Williston, VT 05495	ADDRESS: 160 James Brown Drive Williston, VT 05495	TURN AROUND TIME:
ATTENTION: Eileen Toomey	ATTENTION: Reporting	SPECIAL INSTRUCTIONS:
E-MAIL: etoomey@endynelabs.com	E-MAIL: etoomey@endynelabs.com	
PHONE: (802) 879-4333 x 300	PHONE: 802-879-4333 x 308	

Analysis Requested: Dioxins, Sub-contracted

Dioxins, Sub-contracted

Dioxins, Sub-contracted

Sample Identification

Matrix

DT TM Sampled

-01
2208-21649 001 Effluent Grab/Composite

011

DW

8/3/22 11:01

Relinquished by: (Sign, Date, Time)

Eml Outh

8/4/22

1600

Page 1 of 1 Sign, Date, Time

Richard L. Toomey

8-5-22-12:15

14:10

Page 1 of 1

Richard L. Toomey 8-5-22 - 12:15

18:50 8/5/22 18:50

AKC
-HAC
8/6/22 0845

Richard L. Toomey 8-6-22 6:14

General Electric-Windcrest Rd

Endyne Inc. COC

2208-21649

Prepared: 6/23/22

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com; accounting@

Cust #

DI

W:



Stone Environmental, Inc.
General Electric-Windcrest Rd

Composite/Grab
Effluent Grab

Sampled Date/Time:

8/3/22 @ 11:01

Sampler:

Andy Fish

pH Client Data 7.1 at 10:30 am grab

*Cyanide, Total

1 - 8 oz Plastic for CN

<6C, NaOH Na2S2O3, Cl2

Dioxins, Sub-contracted

2 - 1L Amber Glass

<6C, pH 5-9

Pests, Priority Pollutant

4 - 1L Amber Glass

<6C, Na2S2O3, pH 5-9

SVOC Priority Pollutants

Cadmium, Total

1 - 16 oz Plastic Total Metals

HNO3 pH< 2

Chromium, Total

Copper, Total

Lead, Total

Nickel, Total

Silver, Total

Zinc, Total

VOC Priority Pollutants

2 - 40ml vials

<6C, Na2S2O3

Trip Blank

Sampled Date/Time:

/ / @

Sampler:

[Signature]

VOC Priority Pollutants

2 - 40ml vials

<6C, Na2S2O3

One or more sample bottles in this project must be
kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the
temperature preservation requirements are not satisfied.

INITIALS

Relinquished by:

Andrew Fish 8/3/22 15:20

Date Time

Accepted by:

Eileen Loney 8/3/22 @ 15:20

Date Time

Relinquished by:

Received by:

Sites/Parameters correct as listed. Client Initials

Date Time

Date Time

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Deliv. Client

Temp C: 6.1

Log by

Lab use Only

Comment:

* Dechlorid with ascorbic Acid



160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Goodrich Corp Fuel Uty Systems

WORK ORDER: **2207-19848**

DATE RECEIVED: July 20, 2022

DATE REPORTED: August 12, 2022

SAMPLER: AF

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 08/12/2022

CLIENT: Stone Environmental, Inc.
 PROJECT: Goodrich Corp Fuel Uty Systems

WORK ORDER: 2207-19848
 DATE RECEIVED: 07/20/2022

001	Site: Effluent Grab		Date Sampled: 7/20/22		Time: 9:30			
Parameter	Result	Units	Method	Analysis Date/Time		Lab/Tech	NELAC	Qual.
pH per Client	7.72	SU at __ C	Client Data	7/20/22	9:30	W CLI	N	
Cyanide, Total	< 0.010	mg/L	EPA 335.4, R.1(1993)	8/1/22		N MAP	A	
Metals Digestion	Digested		EPA 200.7/200.8	7/25/22		W SJM	A	
Aluminum, Total	18	mg/L	EPA 200.8	7/27/22	0:46	W SJM	A	
Cadmium, Total	< 0.0005	mg/L	EPA 200.8	7/26/22	15:16	W SJM	A	
Chromium, Total	0.0172	mg/L	EPA 200.8	7/26/22	15:16	W SJM	A	
Copper, Total	0.151	mg/L	EPA 200.8	7/26/22	15:16	W SJM	A	
Lead, Total	< 0.0010	mg/L	EPA 200.8	7/26/22	15:16	W SJM	A	
Nickel, Total	0.0196	mg/L	EPA 200.8	7/26/22	15:16	W SJM	A	
Silver, Total	< 0.010	mg/L	EPA 200.8	7/26/22	15:16	W SJM	A	
Zinc, Total	< 0.020	mg/L	EPA 200.8	7/26/22	15:16	W SJM	A	
Dioxins, Sub-contracted	See Attached			8/4/22		SWSUB	N	SPA
VOC Priority Pollutants								
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	7/23/22		W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	7/23/22		W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	7/23/22		W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	7/23/22		W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	7/23/22		W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	7/23/22		W TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	7/23/22		W TRP	A	
Acetone	66.7	ug/L	EPA 624.1	7/23/22		W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	7/23/22		W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	7/23/22		W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	7/23/22		W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	7/23/22		W TRP	A	
Chloroform	2.3	ug/L	EPA 624.1	7/23/22		W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	7/23/22		W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	7/23/22		W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	7/23/22		W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	7/23/22		W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	7/23/22		W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	7/23/22		W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 624.1	7/23/22		W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	7/23/22		W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	7/23/22		W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	7/23/22		W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	7/23/22		W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	7/23/22		W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	7/23/22		W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	7/23/22		W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	7/23/22		W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	7/23/22		W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	7/23/22		W TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	7/23/22		W TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	7/23/22		W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/23/22		W TRP	A	

**ENDYNE Inc.**

www.endynelabs.com

Laboratory Report

DATE REPORTED: 08/12/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Goodrich Corp Fuel Uty Systems

WORK ORDER: 2207-19848
DATE RECEIVED: 07/20/2022

001	Site: Effluent Grab		Date Sampled: 7/20/22		Time: 9:30		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	U	
Surr. 1 (Dibromofluoromethane)	101	%	EPA 624.1	7/23/22	W TRP	A	
Surr. 2 (Toluene d8)	96	%	EPA 624.1	7/23/22	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	101	%	EPA 624.1	7/23/22	W TRP	A	
Unidentified Peaks	0		EPA 624.1	7/23/22	W TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	7/23/22	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	7/23/22	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	7/23/22	W TRP	A	
Priority Pollutant Pesticides							
Sep Funnel Extraction	Completed		EPA 608.3	7/27/22	W ECM	A	
alpha-BHC	< 0.009	ug/L	EPA 608.3	8/2/22	W DPD	A	
gamma-BHC (Lindane)	< 0.012	ug/L	EPA 608.3	8/2/22	W DPD	A	
beta-BHC	< 0.018	ug/L	EPA 608.3	8/2/22	W DPD	A	
delta-BHC	< 0.027	ug/L	EPA 608.3	8/2/22	W DPD	A	
Heptachlor	< 0.009	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aldrin	< 0.012	ug/L	EPA 608.3	8/2/22	W DPD	A	
Heptachlor Epoxide	< 0.249	ug/L	EPA 608.3	8/2/22	W DPD	A	
4,4'-DDE	< 0.012	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endosulfan I	< 0.042	ug/L	EPA 608.3	8/2/22	W DPD	A	
Dieldrin	< 0.006	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endrin	< 0.018	ug/L	EPA 608.3	8/2/22	W DPD	A	
4,4'-DDD	< 0.033	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endosulfan II	< 0.012	ug/L	EPA 608.3	8/2/22	W DPD	A	
4,4'-DDT	< 0.036	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endrin Aldehyde	< 0.070	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endosulfan Sulfate	< 0.198	ug/L	EPA 608.3	8/2/22	W DPD	A	
Methoxychlor	< 0.1	ug/L	EPA 608.3	8/2/22	W DPD	A	
Chlordane	< 0.150	ug/L	EPA 608.3	8/2/22	W DPD	A	
Toxaphene	< 0.720	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1016 (PCB-1016)	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1221 (PCB-1221)	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1232 (PCB-1232)	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1242 (PCB-1242)	< 0.095	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1248 (PCB-1248)	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1254 (PCB-1254)	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1260	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Surrogate-TCMX	71	%	EPA 608.3	8/2/22	W DPD	A	
Surrogate-DCB	22	%	EPA 608.3	8/2/22	W DPD	A	
SVOC Priority Pollutants							
Extraction EPA 3510C	Completed		EPA 3510C	7/27/22	W CLD	A	
N-Nitrosodimethylamine	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Bis(2-chloroethyl)ether	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
2,2'-Oxybis(1-chloropropane	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	M-
N-Nitrosodi-n-propylamine	< 10.0	ug/L	EPA 625.1	7/27/22	W EEP	A	

**ENDYNE Inc.**

www.endynelabs.com

Laboratory Report

DATE REPORTED: 08/12/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Goodrich Corp Fuel Uty Systems

WORK ORDER: 2207-19848
DATE RECEIVED: 07/20/2022

001	Site: Effluent Grab		Date Sampled: 7/20/22		Time: 9:30		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Hexachloroethane	< 2.0	ug/L	EPA 625.1	7/27/22	W EEP	A	M-
Nitrobenzene	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	M-
Isophorone	< 2.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Bis(2-chloroethoxy)methane	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 625.1	7/27/22	W EEP	A	M-
Naphthalene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Hexachlorobutadiene	< 2.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Hexachlorocyclopentadiene	< 20.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
2-Chloronaphthalene	< 2.0	ug/L	EPA 625.1	7/27/22	W EEP	A	M-
Dimethyl phthalate	< 2.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
2,6-Dinitrotoluene	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Acenaphthylene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Acenaphthene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
2,4-Dinitrotoluene	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Fluorene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Diethyl phthalate	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
N-Nitrosodiphenylamine	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Azobenzene	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Hexachlorobenzene	< 1.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Phenanthrene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Anthracene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Di-n-butylphthalate	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Fluoranthene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Benzidine	< 20.0	ug/L	EPA 625.1	7/27/22	W EEP	A	RPD
Pyrene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Butyl benzyl phthalate	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Benzo(a)anthracene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Chrysene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Di-n-octylphthalate	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Benzo(b)fluoranthene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Benzo(k)fluoranthene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Benzo(a)pyrene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Indeno(1,2,3-cd)pyrene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Dibenzo(a,h)anthracene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Benzo(g,h,i)perylene	< 0.5	ug/L	EPA 625.1	7/27/22	W EEP	A	
Phenol	< 2.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
2-Chlorophenol	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
2-Nitrophenol	< 10.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
2,4-Dimethylphenol	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
2,4-Dichlorophenol	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	M-
4-Chloro-3-methylphenol	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
2,4,6-Trichlorophenol	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	

Laboratory Report

DATE REPORTED: 08/12/2022

CLIENT: Stone Environmental, Inc.
 PROJECT: Goodrich Corp Fuel Uty Systems

WORK ORDER: 2207-19848
 DATE RECEIVED: 07/20/2022

001 Site: Effluent Grab Date Sampled: 7/20/22 Time: 9:30

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
2,4-Dinitrophenol	< 20.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
4-Nitrophenol	< 5.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
Pentachlorophenol	< 10.0	ug/L	EPA 625.1	7/27/22	W EEP	A	
B/N Surr.1 Nitrobenzene-d5	53	%	EPA 625.1	7/27/22	W EEP	A	
B/N Surr.2 2-Fluorobiphenyl	55	%	EPA 625.1	7/27/22	W EEP	A	
B/N Surr.3 Terphenyl-d14	100	%	EPA 625.1	7/27/22	W EEP	A	
Acid Surr.1 2-Fluorophenol	26	%	EPA 625.1	7/27/22	W EEP	A	
Acid Surr.2 Phenol-d5	23	%	EPA 625.1	7/27/22	W EEP	A	
Acid Surr.3 Tribromophenol	104	%	EPA 625.1	7/27/22	W EEP	A	
Unidentified Peaks	> 10		EPA 625.1	7/27/22	W EEP	U	

002 Site: Trip Blank Date Sampled: 6/28/22 Time: 9:26

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
VOC Priority Pollutants							
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	7/23/22	W TRP	A	
Acetone	< 10.0	ug/L	EPA 624.1	7/23/22	W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Chloroform	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	7/23/22	W TRP	A	

Laboratory Report

DATE REPORTED: 08/12/2022

CLIENT: Stone Environmental, Inc.
 PROJECT: Goodrich Corp Fuel Uty Systems

WORK ORDER: 2207-19848
 DATE RECEIVED: 07/20/2022

002	Site: Trip Blank		Date Sampled: 6/28/22		Time: 9:26		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Bromoform	< 2.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/23/22	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	7/23/22	W TRP	U	
Surr. 1 (Dibromofluoromethane)	96	%	EPA 624.1	7/23/22	W TRP	A	
Surr. 2 (Toluene d8)	100	%	EPA 624.1	7/23/22	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	100	%	EPA 624.1	7/23/22	W TRP	A	
Unidentified Peaks	0		EPA 624.1	7/23/22	W TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	7/23/22	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	7/23/22	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	7/23/22	W TRP	A	

Report Summary of Qualifiers and Notes

M-: The Laboratory Fortified Matrix (LFM) analysis had a recovery lower than defined acceptance limits. This indicates a potential negative bias in the reported value or a difficult sample matrix that resulted in poor reproducibility between sample aliquots selected for analysis.

RPD: Variability observed. The Relative Percent Difference of the Matrix Spike Duplicate was above method acceptance limits.

SPA: Analysis performed by subcontracted laboratory, Pace Analytical, with the following state assigned laboratory ID numbers; VT0282, NY10888, NH2974. The complete subcontracted report has been appended to this report.

Report Prepared for:

Eileen Toomey
Endyne, Inc.
160 James Brown Drive
Williston VT 05495

**REPORT OF
LABORATORY
ANALYSIS FOR
TCDD**

Report Prepared Date:

August 10, 2022

Report Information:

Pace Project #: 10618289
Sample Receipt Date: 07/25/2022
Client Project #: 2207-19848 001 Effluent
Client Sub PO #: N/A
State Cert #: VT-027053137

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 2,3,7,8-TCDD Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Isaac Johnson, your Pace Project Manager.

This report has been reviewed by:



August 12, 2022

Isaac Johnson, Project Manager
(612) 607-1700
(612) 607-6444 (fax)
isaac.johnson@pacelabs.com



Report of Laboratory Analysis

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.

DISCUSSION

This report presents the results from the analysis performed on one sample submitted by a representative of Endyne, Inc. The sample was analyzed for the presence or absence of 2,3,7,8-tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD) using USEPA Method 1613B. The reporting limits were set to correspond to the lowest calibration point and a nominal 1-Liter sample amount, and the sensitivity was verified by signal-to-noise measurements. The quantitation limits, adjusted for sample extraction amount, may be somewhat higher or lower than the reporting limits provided in this report.

The isotopically-labeled TCDD internal standard in the sample extract was recovered at 58%. All of the labeled standard recoveries obtained for this project were within the target ranges specified in Method 1613B. Also, since the quantification of the native TCDD was based on isotope dilution, the data were automatically corrected for recovery and accurate values were obtained.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show that 2,3,7,8-TCDD was not detected.

Laboratory spike samples were also prepared using clean reference matrix that had been fortified with native standard material. The results show that the spiked native TCDD was recovered at 94-98% with a relative percent difference of 4.2%. These results were within the target ranges for the method. Matrix spikes were not prepared with the sample batch.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Missouri	10100
Alaska-DW	MN00064	Montana	CERT0092
Alaska-UST	17-009	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN00064
Arkansas - WW	88-0680	New Hampshire	2081
Arkansas-DW	MN00064	New Jersey	MN002
California	2929	New York	11647
Colorado	MN00064	North Carolina-	27700
Connecticut	PH-0256	North Carolina-	530
Florida	E87605	North Dakota	R-036
Georgia	959	Ohio-DW	41244
Hawaii	MN00064	Ohio-VAP (170	CL101
Idaho	MN00064	Ohio-VAP (180	CL110
Illinois	200011	Oklahoma	9507
Indiana	C-MN-01	Oregon- rimary	MN300001
Iowa	368	Oregon-Second	MN200001
Kansas	E-10167	Pennsylvania	68-00563
Kentucky-DW	90062	Puerto Rico	MN00064
Kentucky-WW	90062	South Carolina	74003
Louisiana-DEQ	AI-84596	Tennessee	TN02818
Louisiana-DW	MN00064	Texas	T104704192
Maine	MN00064	Utah	MN00064
Maryland	322	Vermont	VT-027053137
Michigan	9909	Virginia	460163
Minnesota	027-053-137	Washington	C486
Minnesota-Ag	via MN 027-053	West Virginia-D	382
Minnesota-Petr	1240	West Virginia-D	9952C
		Wisconsin	999407970
		Wyoming-UST	via A2LA 2926.

REPORT OF LABORATORY ANALYSIS

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Report No.....10618289



Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

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Chain of Custody

Pace Analytical Minn

1700 Elm St SE

Minneapolis MN 55414

Ph 612-607-1700

STATE OF ORIGIN: _____ VERMONT

The analysis requested requires that you have and maintain NELAC certification. If you do not currently have NELAC certification in the above referenced State, and specified matrix please contact Endyne immediately at (802) 879-4333 ext 301. Thank you.

Copy of Report To		Billing Information		Project Information
CUSTOMER:	Endyne, Inc.	BILL TO:	Endyne, Inc.	2207-19848-W
ADDRESS:	160 James Brown Drive	ADDRESS:	160 James Brown Drive	TURN AROUND TIME:
	Williston, VT 05495		Williston, VT 05495	SPECIAL INSTRUCTIONS:
ATTENTION:	Eileen Toomey	ATTENTION:	Reporting	
E-MAIL:	etoomey@endynelabs.com	E-MAIL:	etoomey@endynelabs.com	
PHONE:	(802) 879-4333 x 300	PHONE:	802-879-4333 x 308	

Analysis Requested: Dioxins, Sub-contracted

Dioxins, Sub-contracted

Dioxins, Sub-contracted

Sample IdentificationMatrixDT TM Sampled

2207-19848 001 Effluent Grab

011 / 012

WW

7/20/22 9:30

001

WO#: 10618289



10618289

Relinquished by: (Sign, Date, Time)

Eileen Toomey 7/21/22

Received by: (Sign, Date, Time)

A. Price 7/25/22 1000

Report No.: 10618289_1613TODLE DFR



DC#_Title: ENV-FRM-MIN4-0150 v05_Sample Condition Upon Receipt (SCUR)

Effective Date: 04/12/2022

Sample Condition Upon Receipt

Client Name:

Project #:

Endyne Inc

WO#: 10618289

PM: AW1

Due Date: 08/23/22

CLIENT: ENDYNE

Courier:

☐ Fed Ex ☒ UPS ☐ USPS ☐ Client
☐ Pace ☐ SpeedDee ☐ Commercial

See Exceptions
☐ ENV-FRM-MIN4-0142

Tracking Number: 1Z 709 2x9 13 7599 7278

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No

Seals Intact? ☐ Yes ☒ No

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None

Other: _____

Temp Blank? ☐ Yes ☒ No

Thermometer: ☒ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☐ T5(0489) ☐ T6(0235)
☐ T7 (0042) ☐ 01339252/1710 ☐ 122639816 ☐ 140792808

Type of Ice: ☐ Wet ☒ Blue ☐ None ☐ Dry ☒ Melted

Did Samples Originate in West Virginia? ☐ Yes ☒ No Were All Container Temps Taken? ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C

Cooler Temp Read w/temp blank: 4.7 °C

7/25/22 IJJ

Correction Factor: 10.2 Cooler Temp Corrected w/temp blank: 4.9 °C

Average Corrected Temp (no temp blank only): _____ °C ☐ See Exceptions ENV-FRM-MIN4-0142 ☒ 1 Container

USDA Regulated Soil: (☒ N/A water sample, Other: _____)

Date/Initials of Person Examining Contents: AH 7/25/22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.

Location (check one): <input type="checkbox"/> Duluth <input checked="" type="checkbox"/> Minneapolis <input type="checkbox"/> Virginia	COMMENTS:
Chain of Custody Present and Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and/or Signature on COC? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	3.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8hr, <24 hrs, <input type="checkbox"/> >24 hrs
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrome <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	9. AH 7/25/22 112 containers reviewed intact
Field Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is sufficient information available to reconcile the samples to the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. If no, write ID/ Date/Time on Container Below: See Exception <input checked="" type="checkbox"/> ENV-FRM-MIN4-0142
Matrix: <input checked="" type="checkbox"/> Water <input type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other-	
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> NaOH <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> Zinc Acetate
(HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide)	
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Positive for Res. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No See Exception <input type="checkbox"/> ENV-FRM-MIN4-0142
	pH Paper Lot#
	Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Headspace in Methyl Mercury Container? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Extra labels present on soil VOA or WIDRO containers? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. See Exception <input type="checkbox"/> ENV-FRM-MIN4-0140
Headspace in VOA Vials (greater than 6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14. Pace Trip Blank Lot # (if purchased):
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

CLIENT NOTIFICATION/RESOLUTION

Person Contacted:

Date/Time:

Field Data Required? ☐ Yes ☐ No

Comments/Resolution:

Project Manager Review: Isaac Johnson

Date: 7/25/22

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: AW



DC#_Title: ENV-FRM-MIN4-0142 v01_Sample Condition Upon Receipt
(SCUR) Exception Form

Effective Date: 02/25/2022

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No																		
			If yes, indicate who was contacted/date/time. If no, indicate reason why.																		
			Multiple Cooler Project? <input type="checkbox"/> Yes <input type="checkbox"/> No If you answered yes, fill out information to the left.																		
			<table border="1"><thead><tr><th colspan="3">No Temp Blank</th></tr><tr><th>Read Temp</th><th>Corrected Temp</th><th>Average Temp</th></tr></thead><tbody><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></tbody></table>	No Temp Blank			Read Temp	Corrected Temp	Average Temp												
No Temp Blank																					
Read Temp	Corrected Temp	Average Temp																			

Tracking Number/Temperature	

Issue Type:	Container Type	# of Containers
Sample ID	Type	

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition? <input type="checkbox"/> Yes <input type="checkbox"/> No	Initials
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	

Comments:

2nd container upon receiving was found shattered and therefore unusable

Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDEInterference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = SeeDiscussion

REPORT OF LABORATORY ANALYSIS

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Report No.....10618289



Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

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Method 1613B Sample Analysis Results

Client - Endyne, Inc.

Client's Sample ID	2207-19848 001 Effluent Grab		
Lab Sample ID	10618289001		
Filename	F220803C_16		
Injected By	MS4		
Total Amount Extracted	1020 mL	Matrix	Water
% Moisture	NA	Dilution	NA
Dry Weight Extracted	NA	Collected	07/20/2022 09:30
ICAL ID	F220529	Received	07/25/2022 10:00
CCal Filename(s)	F220803C_01	Extracted	07/29/2022 13:20
Method Blank ID	BLANK-100334	Analyzed	08/04/2022 08:57

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	ND	—	10	2,3,7,8-TCDD-13C	2.00	58
				Recovery Standard 1,2,3,4-TCDD-13C	2.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	0.20	82

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

R = Recovery outside target range
E = Exceeds calibration range

REPORT OF LABORATORY ANALYSIS

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Method 1613B Blank Analysis Results

Lab Sample Name	DFBLKTV	Matrix	Water
Lab Sample ID	BLANK-100334	Dilution	NA
Filename	F220803C_05	Extracted	07/29/2022 13:20
Total Amount Extracted	1000 mL	Analyzed	08/04/2022 00:35
ICAL ID	F220529	Injected By	SM
CCal Filename(s)	F220803C_01		

Native Isomers	Conc pg/L	EMPC pg/L	RL pg/L	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDD	ND	—	10	2,3,7,8-TCDD-13C	2.00	58
				Recovery Standard 1,2,3,4-TCDD-13C	2.00	NA
				Cleanup Standard 2,3,7,8-TCDD-37Cl4	0.20	75

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

REPORT OF LABORATORY ANALYSIS

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCS-100335	Matrix	Water
Filename	F220803C_02	Dilution	NA
Total Amount Extracted	997 mL	Extracted	07/29/2022 13:20
ICAL ID	F220529	Analyzed	08/03/2022 22:18
CCal Filename	F220803C_01	Injected By	SM
Method Blank ID	BLANK-100334		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDD	10	9.8	7.3	14.6	98
2,3,7,8-TCDD-37Cl4	10	9.3	3.7	15.8	93
2,3,7,8-TCDD-13C	100	68	25.0	141.0	68

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 1613B Laboratory Control Spike Results

Lab Sample ID	LCSD-100336	Matrix	Water
Filename	F220803C_03	Dilution	NA
Total Amount Extracted	1000 mL	Extracted	07/29/2022 13:20
ICAL ID	F220529	Analyzed	08/03/2022 23:03
CCal Filename	F220803C_01	Injected By	SM
Method Blank ID	BLANK-100334		

Compound	Cs	Cr	Lower Limit	Upper Limit	% Rec.
2,3,7,8-TCDD	10	9.4	7.3	14.6	94
2,3,7,8-TCDD-37Cl4	10	8.8	3.7	15.8	88
2,3,7,8-TCDD-13C	100	50	25.0	141.0	50

Cs = Concentration Spiked (ng/mL)
Cr = Concentration Recovered (ng/mL)
Rec. = Recovery (Expressed as Percent)
Control Limit Reference: Method 1613, Table 6, 10/94 Revision
R = Recovery outside of control limits
Nn = Value obtained from additional analysis
* = See Discussion

REPORT OF LABORATORY ANALYSIS

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Method 1613B

Spike Recovery Relative Percent Difference (RPD) Results

Client Endyne, Inc.

Spike 1 ID LCS-100335
Spike 1 Filename F220803C_02

Spike 2 ID LCSD-100336
Spike 2 Filename F220803C_03

Compound	Spike 1 %REC	Spike 2 %REC	%RPD
2,3,7,8-TCDD	98	94	4.2

%REC = Percent Recovered

RPD = The difference between the two values divided by the mean value

REPORT OF LABORATORY ANALYSIS

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Goodrich Corp Fuel Uty Systems

Endyne Inc. COC

2207-19848

Prepared: 8/23/22



2207-19848

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust # 070.

DECRFP

W-70233C

Stone Environmental, Inc.
Goodrich Corp Fuel Uty Systems

Page 1 of 1

Effluent Grab

Sampled Date/Time:

7/21/22 @ 9:30

Sampler:

GPF

pH Client Data

7.72

Cyanide, Total

1 - 8 oz Plastic for CN ✓

<6C, NaOH Na2S2O3, Cl2

Dioxins, Sub-contracted

2-1L Amber Glass ✓

<6C, pH 5-9

Pests, Priority Pollutant
SVOC Priority Pollutants

4-1L Amber Glass ✓

<6C, Na2S2O3, pH 5-9

Aluminum, Total

1 - 16 oz Plastic Total Metals HNO3 pH< 2

Cadmium, Total

Chromium, Total

Copper, Total

Lead, Total

Nickel, Total

Silver, Total

Zinc, Total

VOC Priority Pollutants

2 - 40ml vials ✓

<6C, Na2S2O3

Trip Blank

Sampled Date/Time:

6/28/22 @ 9:26am
7/21/22 @ 4:30

Sampler:

GPF

VOC Priority Pollutants

2 - 40ml vials /

<6C, Na2S2O3

One or more sample bottles in this project must be
kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the
temperature preservation requirements are not satisfied.

INITIAL HERE

Relinquished by:

Andrew Fish 7/20/22 11:55am

Date Time

Accepted by:

Cleen Jormay 7/20/22 @ 11:53

Date Time

Relinquished by:

Received by:

Date Time

Date Time

Sites/Parameters correct as listed. Client initials

Client Authorization to use Subcontract lab Client initials

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PC#)

Requested Turnaround Time: Routine: Rush Due Date

Delv: Client
Temp C: 15.2
Comment:

Tmpl Ck
Log by

Lab use Only



160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Lost Nation Brewery

WORK ORDER: **2210-29306**

DATE RECEIVED: October 07, 2022

DATE REPORTED: October 14, 2022

SAMPLER: APH

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 10/14/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2210-29306**

PROJECT: Lost Nation Brewery

DATE RECEIVED: 10/07/2022

001

Site: Effluent Grab

Date Sampled: 10/6/22 Time: 14:30

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	8.54	SU at __C	Client Data	10/6/22 14:30	W CLI	N	
BOD-5day	130	mg/L	SM 5210B(16)	10/7/22 15:35	W JSS	A	
Solids, Total Suspended	268	mg/L	SM 2540 D-15	10/13/22	W JSS	A	

Lost Nation Brewery

Endyne Inc. COC

2210-29306

Prepared: 6/23/22



2210-29306

Stone Environmental, Inc.
Lost Nation Brewery

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust # 070

DECRFP

W-70233L

Page 1 of 1

Effluent Grab

Sampled Date/Time:

10/6/22 @ 14:30

Sampler:

APH

pH Client Data

8.54

BOD-5day

✓ 1 - 8 oz Plastic

<6C

Solids, Total Suspended

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

APH

INITIAL HERE

Relinquished by:

APX

10/7/22 9:00

Date Time

Accepted by:

Date Time

Relinquished by:

Received by:

Date Time

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv: 6mm
Temp C: 15.0
Comment:

Tmpl Ck
Log by

Lab use Only



ENDYNE Inc.

www.endynelabs.com

160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Magic Hat Brewing

WORK ORDER: 2207-17857

DATE RECEIVED: July 06, 2022

DATE REPORTED: July 13, 2022

SAMPLER: APH

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 07/13/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2207-17857**

PROJECT: Magic Hat Brewing

DATE RECEIVED: 07/06/2022

001

Site: Effluent Grab

Date Sampled: 7/6/22

Time: 10:30

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	8.46	SU at __C	Client Data	7/6/22 10:30	W CLI	N	
BOD-5day	81	mg/L	SM 5210B(16)	7/7/22 13:14	W JSS	A	
Phosphorus, Total	46	mg/L	EPA 365.1, R.2(1993)	7/12/22	N MAP	A	

Magic Hat Brewing

Endyne Inc. COC

2207-17857

Prepared: 6/16/22



2207-17857

Bill to: Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to: Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust #
DEC#
W-702

Stone Environmental, Inc.
Magic Hat Brewing

Page 1 of 1

Effluent Grab

Sampled Date/Time: 7 / 6 / 22 @ 10:30

Sampler: APH

pH Client Data 8.46

BOD-5day

1 - 8 oz Plastic

<6C

Phosphorus, Total

1 - 60 ml Vial

<6C, H2SO4

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

APH



Relinquished by:

[Signature]

7/6/22 11:08 AM

Date Time

Accepted by:

[Signature]

Date Time

Relinquished by:

Received by:

7/6/22 1110

Date Time

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv: *as*
Temp C: 5.9
Comment:

Tmpl Ck
Log by

Lab use Only



160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
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56 Etna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Otter Creek Brewing

WORK ORDER: **2206-17264**

DATE RECEIVED: June 29, 2022

DATE REPORTED: July 05, 2022

SAMPLER: APH

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

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Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

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56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 07/05/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2206-17264**

PROJECT: Otter Creek Brewing

DATE RECEIVED: 06/29/2022

001

Site: Effluent Grab

Date Sampled: 6/29/22 Time: 12:05

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	7.26	SU at __C	Client Data	6/29/22 12:05	W CLI	N	
BOD-5day	6,100	mg/L	SM 5210B(16)	6/29/22 15:29	W JSS	A	

Otter Creek Brewing

Endyne Inc. COC

Prepared: 6/16/22

2206-17264

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust # 070

DECRFP

W-70233C



Stone Environmental, Inc.
Otter Creek Brewing

Effluent Grab

Sampled Date/Time:

6/29/22 @ 12:05

Sampler:

APH

pH Client Data

7.26

BOD-5day

1 - 8 oz Plastic

<6C

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

APH

INITIAL

Relinquished by:

[Signature]

6/29/22 13:49

Date Time

Accepted by:

[Signature]

Date Time

Relinquished by:

Received by:

6/29/22 1349

Date/Time

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin:

VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv: *[Signature]*

Temp C: 6.5

Comment:

Templ Ck

Log by

Lab use Only



160 James Brown Dr.
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Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Plumrose USA

WORK ORDER: **2208-21486**

DATE RECEIVED: August 03, 2022

DATE REPORTED: August 09, 2022

SAMPLER: APH

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

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Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

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56 Etna Road, Lebanon, NH 03766
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Laboratory Report

DATE REPORTED: 08/09/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2208-21486**

PROJECT: Plumrose USA

DATE RECEIVED: 08/03/2022

001

Site: Effluent Grab

Date Sampled: 8/1/22

Time: 23:10

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	5.04	SU at __C	Client Data	8/1/22 23:10	W CLI	N	
BOD-5day	1,000	mg/L	SM 5210B(16)	8/3/22 15:13	W JSS	A	
Oil & Grease Total Recoverable	14.5	mg/L	EPA 1664A	8/5/22	W CLD	A	

**ENDYNE Inc.**

www.endynelabs.com

Plumrose USA

Endyne Inc. COC

2208-21486

Prepared: 8/23/22



2208-21486

Cust #

Stone Environmental, Inc.
Plumrose USA

DEC

W-70

Bill to:

Mr. Chris Stone

Stone Environmental, Inc.

535 Stone Cutters Way

Montpelier VT 05602

Ph: (802) 229-4541

Report to:

Meghan Arpino

Stone Environmental, Inc.

535 Stone Cutters Way

Montpelier VT 05602

dbraun@stone-env.com;accounting@

Page 1 of 1

Effluent Grab

Sampled Date/Time: 8/1/22 @ 23:10

Sampler: APH

pH Client Data 5.04

Oil & Grease

✓ 2L & 2- 8 oz Amber Glass <6C, HCl ✓

BOD-5day

✓ 1 - 8 oz Plastic <6C

Rec'd two sets of FOG's
-CSS 8/3/22

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

APH

INITIAL

Relinquished by:

APH

8/2/22 12:00

Date Time

Accepted by:

Relinquished by:

Received by:

Date Time

8/3/22 1330

Date Time

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Deliv: Gmm

Temp C: 10.1

Comment:

Temp Ck

Log by

Lab use Only



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315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Rock Art Brewery LLC

WORK ORDER: **2208-23354**

DATE RECEIVED: August 18, 2022

DATE REPORTED: August 26, 2022

SAMPLER: Meghan

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

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Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

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56 Etna Road, Lebanon, NH 03766
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Laboratory Report

DATE REPORTED: 08/26/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2208-23354**

PROJECT: Rock Art Brewery LLC

DATE RECEIVED: 08/18/2022

001

Site: Effluent Grab

Date Sampled: 8/17/22 Time: 16:06

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	7.09	SU at __C	Client Data	8/17/22 16:06	W CLI	N	
BOD-5day	370	mg/L	SM 5210B(16)	8/19/22 10:40	W JSS	A	
Phosphorus, Total	5.0	mg/L	EPA 365.1, R.2(1993)	8/23/22 15:55	N LKL	A	M-
Solids, Total Suspended	50	mg/L	SM 2540 D-15	8/22/22	W JSS	A	

Report Summary of Qualifiers and Notes

M-: The Laboratory Fortified Matrix (LFM) analysis had a recovery lower than defined acceptance limits. This indicates a potential negative bias in the reported value or a difficult sample matrix that resulted in poor reproducibility between sample aliquots selected for analysis.

Rock Art Brewery LLC

Endyne Inc. COC

Prepared: 6/23/22

2208-23354



2208-23354

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust # 070233

DECRFPSIU

W-70233SAC

Stone Environmental, Inc.
Rock Art Brewery LLC

Effluent Grab

Sampled Date/Time: 8/17/22 @ 16:06

Sampler: Meghan Arpino

pH Client Data 7.09

BOD-5day

Solids, Total Suspended

Phosphorus, Total

✓ 1 - 8 oz Plastic

<6C

✓ 1 - 60ml Vial

<6C, H2SO4

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied. MKA



Relinquished by:

MKA

8/18/22 11:15

Date Time

Accepted by:

Relinquished by:

Received by:

Date Time

Date Time

Date Time

Sites/Parameters correct as listed. Client Initials MKA

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☒ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#) Stone Env

Requested Turnaround Time: Routine: Rush Due Date

Delv: 60

Temp C: 3.8

Comment:

Temp Ck

Log by

Lab use Only



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315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: St Albans Creamery, LLC

WORK ORDER: **2207-18158**

DATE RECEIVED: July 07, 2022

DATE REPORTED: July 13, 2022

SAMPLER: AF

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

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Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

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56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 07/13/2022

CLIENT: Stone Environmental, Inc.
PROJECT: St Albans Creamery, LLC

WORK ORDER: **2207-18158**
DATE RECEIVED: 07/07/2022

001 Site: Effluent Composite Date Sampled: 7/7/22 Time: 8:36

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	7.90	SU at __C	Client Data	7/7/22 8:36	W CLI	N	
BOD-5day	580	mg/L	SM 5210B(16)	7/8/22 10:00	W JSS	A	
Phosphorus, Total	1.5	mg/L	EPA 365.1, R.2(1993)	7/12/22	N MAP	A	
Solids, Total Suspended	123	mg/L	SM 2540 D-15	7/12/22	W JSS	A	

St Albans Creamery, LLC

Endyne Inc. COC

2207-18158

Prepared: 6/23/22



Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust # 0:

DECRF

W-7023

Stone Environmental, Inc.
St Albans Creamery, LLC

Effluent ^{Composite} GrabSampled Date/Time: 7/7/22 @ 8:36 Sampler: SD7pH Client Data 7.90

BOD-5day

1 - 8 oz Plastic

<6C

Solids, Total Suspended

Phosphorus, Total

1 - 60ml Vial

<6C, H2SO4

composite - 7:30 7/6/22
8:30 7/7/22

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

INITIAL HERE

Relinquished by:

Andrew Friel

Date Time

7/7/22 10:25am

Accepted by:

Alex Loomay

Date Time

7/7/22 @ 10:25

Relinquished by:

Received by:

Date Time

Date Time

Sites/Parameters correct as listed. Client Initials ✓

Client Authorization to use Subcontract lab Client Initials _____

Sample origin:

VT

☒ NH☐ NY☐ Other

Special reporting instructions: (PO#) _____

Requested Turnaround Time: Routine: Rush Due Date _____

Delv: Client
Temp C: -3.4
Comment:

Tmpl Ck

Log by

Lab use Only



ENDYNE Inc.

www.endynelabs.com

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315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Trapp Lager Brewing

WORK ORDER: **2208-21488**

DATE RECEIVED: August 03, 2022

DATE REPORTED: August 11, 2022

SAMPLER: MRA

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

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Reviewed by:

Harry B. Locker, Ph.D.

Laboratory Director

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Ph 802-879-4333 Fax 802-879-710356 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893

Laboratory Report

DATE REPORTED: 08/11/2022

CLIENT: Stone Environmental, Inc.

WORK ORDER: **2208-21488**

PROJECT: Trapp Lager Brewing

DATE RECEIVED: 08/03/2022

001

Site: Effluent Grab

Date Sampled: 8/2/22

Time: 13:50

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	7.44	SU at __C	Client Data	8/2/22 13:50	W CLI	N	
BOD-5day	1,100	mg/L	SM 5210B(16)	8/4/22 9:18	W JSS	A	
Phosphorus, Total	13	mg/L	EPA 365.1, R.2(1993)	8/9/22 15:30	N LKL	A	

**ENDYNE Inc.**

www.endynelabs.com

Trapp Lager Brewing

Endyne Inc. COC

2208-21488

Prepared: 8/16/22

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust # 070

DECRFP

W-70233



Stone Environmental, Inc.
Trapp Lager Brewing

Effluent Grab

Sampled Date/Time: 8/2/22 @ 13:50 Sampler: MRA

pH Client Data 7.44

BOD-5day

✓ - 8 oz Plastic

<6C

Phosphorus, Total

✓ - 60 ml Vial

<6C, H2SO4

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

MRA



Relinquished by: [Signature] 8/2/22 14:45 Date Time

Accepted by:

Relinquished by: [Signature] Date Time

Received by:

[Signature] 8/2/22 13:30 Date Time

Sites/Parameters correct as listed. Client Initials MRA

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☒ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#) 00221085

Requested Turnaround Time: Routine: Rush Due Date

Delv: 6mm	Temp C: 10.1	Temp Ck	Lab use Only
Comment:		Log by	



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315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: Vermont Precision Tools

WORK ORDER: **2207-20494**

DATE RECEIVED: July 26, 2022

DATE REPORTED: September 09, 2022

SAMPLER: Andy Fish

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

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Laboratory Report

DATE REPORTED: 09/09/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Vermont Precision Tools

WORK ORDER: 2207-20494
DATE RECEIVED: 07/26/2022

001	Site: Effluent Grab		Date Sampled: 7/26/22		Time: 13:30			
Parameter	Result	Units	Method	Analysis Date/Time		Lab/Tech	NELAC	Qual.
pH per Client	8.25	SU at __ C	Client Data	7/26/22	13:30	W CLI	N	
Cyanide, Total	0.080	mg/L	EPA 335.4, R.1(1993)	8/1/22		N MAP	A	
Metals Digestion	Digested		EPA 200.7/200.8	8/5/22		W MGT	A	
Cadmium, Total	< 0.0005	mg/L	EPA 200.8	8/8/22	15:03	W MGT	A	
Chromium, Total	0.864	mg/L	EPA 200.8	8/10/22	11:34	W MGT	A	
Copper, Total	0.0497	mg/L	EPA 200.8	8/8/22	15:03	W MGT	A	
Lead, Total	< 0.0020	mg/L	EPA 200.8	8/10/22	12:05	W MGT	A	
Nickel, Total	0.226	mg/L	EPA 200.8	8/8/22	15:03	W MGT	A	
Silver, Total	< 0.010	mg/L	EPA 200.8	8/8/22	15:03	W MGT	A	
Zinc, Total	0.032	mg/L	EPA 200.8	8/8/22	15:03	W MGT	A	
Dioxins, Sub-contracted	See Attached		Attached	9/9/22		SWSUB	N	SBA
VOC Priority Pollutants								
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	7/30/22		W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	7/30/22		W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	7/30/22		W TRP	A	
Acetone	28.3	ug/L	EPA 624.1	7/30/22		W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Chloroform	11.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	7/30/22		W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	7/30/22		W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	7/30/22		W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	7/30/22		W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	7/30/22		W TRP	A	
Bromodichloromethane	0.9	ug/L	EPA 624.1	7/30/22		W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	7/30/22		W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/30/22		W TRP	A	

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Laboratory Report

DATE REPORTED: 09/09/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Vermont Precision Tools

WORK ORDER: 2207-20494
DATE RECEIVED: 07/26/2022

001	Site: Effluent Grab		Date Sampled: 7/26/22		Time: 13:30		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	U	
Surr. 1 (Dibromofluoromethane)	100	%	EPA 624.1	7/30/22	W TRP	A	
Surr. 2 (Toluene d8)	101	%	EPA 624.1	7/30/22	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	101	%	EPA 624.1	7/30/22	W TRP	A	
Unidentified Peaks	1		EPA 624.1	7/30/22	W TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	7/30/22	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	7/30/22	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	7/30/22	W TRP	A	
Priority Pollutant Pesticides							
Sep Funnel Extraction	Completed		EPA 608.3	7/27/22	W ECM	A	
alpha-BHC	< 0.009	ug/L	EPA 608.3	8/2/22	W DPD	A	
gamma-BHC (Lindane)	< 0.012	ug/L	EPA 608.3	8/2/22	W DPD	A	
beta-BHC	< 0.018	ug/L	EPA 608.3	8/2/22	W DPD	A	
delta-BHC	< 0.027	ug/L	EPA 608.3	8/2/22	W DPD	A	
Heptachlor	< 0.009	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aldrin	< 0.012	ug/L	EPA 608.3	8/2/22	W DPD	A	
Heptachlor Epoxide	< 0.249	ug/L	EPA 608.3	8/2/22	W DPD	A	
4,4'-DDE	< 0.012	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endosulfan I	< 0.042	ug/L	EPA 608.3	8/2/22	W DPD	A	
Dieldrin	< 0.006	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endrin	< 0.018	ug/L	EPA 608.3	8/2/22	W DPD	A	
4,4'-DDD	< 0.033	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endosulfan II	< 0.012	ug/L	EPA 608.3	8/2/22	W DPD	A	
4,4'-DDT	< 0.036	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endrin Aldehyde	< 0.070	ug/L	EPA 608.3	8/2/22	W DPD	A	
Endosulfan Sulfate	< 0.198	ug/L	EPA 608.3	8/2/22	W DPD	A	
Methoxychlor	< 0.1	ug/L	EPA 608.3	8/2/22	W DPD	A	
Chlordane	< 0.150	ug/L	EPA 608.3	8/2/22	W DPD	A	
Toxaphene	< 0.720	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1016 (PCB-1016)	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1221 (PCB-1221)	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1232 (PCB-1232)	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1242 (PCB-1242)	< 0.095	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1248 (PCB-1248)	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1254 (PCB-1254)	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Aroclor 1260	< 0.45	ug/L	EPA 608.3	8/2/22	W DPD	A	
Surrogate-TCMX	86	%	EPA 608.3	8/2/22	W DPD	A	
Surrogate-DCB	46	%	EPA 608.3	8/2/22	W DPD	A	
SVOC Priority Pollutants							
Extraction EPA 3510C	Completed		EPA 3510C	8/2/22	W ECM	A	
N-Nitrosodimethylamine	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Bis(2-chloroethyl)ether	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,2'-Oxybis(1-chloropropane	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
N-Nitrosodi-n-propylamine	< 50.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Hexachloroethane	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	

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PROJECT: Vermont Precision Tools

WORK ORDER: 2207-20494
DATE RECEIVED: 07/26/2022

001	Site: Effluent Grab		Date Sampled: 7/26/22		Time: 13:30		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
Nitrobenzene	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Isophorone	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Bis(2-chloroethoxy)methane	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
1,2,4-Trichlorobenzene	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Naphthalene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Hexachlorobutadiene	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Hexachlorocyclopentadiene	< 100	ug/L	EPA 625.1	8/16/22	W EEP	A	
2-Chloronaphthalene	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Dimethyl phthalate	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,6-Dinitrotoluene	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Acenaphthylene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Acenaphthene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4-Dinitrotoluene	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Fluorene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Diethyl phthalate	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
4-Chlorophenyl phenyl ether	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
N-Nitrosodiphenylamine	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Azobenzene	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	U	
4-Bromophenyl phenyl ether	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Hexachlorobenzene	< 5.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Phenanthrene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Anthracene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Di-n-butylphthalate	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Fluoranthene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzidine	< 100	ug/L	EPA 625.1	8/16/22	W EEP	A	
Pyrene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Butyl benzyl phthalate	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(a)anthracene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Chrysene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
3,3'-Dichlorobenzidine	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Bis(2-ethylhexyl)phthalate	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Di-n-octylphthalate	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(b)fluoranthene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(k)fluoranthene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(a)pyrene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Indeno(1,2,3-cd)pyrene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Dibenzo(a,h)anthracene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Benzo(g,h,i)perylene	< 2.5	ug/L	EPA 625.1	8/16/22	W EEP	A	
Phenol	< 10.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2-Chlorophenol	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2-Nitrophenol	< 50.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4-Dimethylphenol	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4-Dichlorophenol	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
4-Chloro-3-methylphenol	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4,6-Trichlorophenol	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
2,4-Dinitrophenol	< 100	ug/L	EPA 625.1	8/16/22	W EEP	A	M-

Laboratory Report

DATE REPORTED: 09/09/2022

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PROJECT: Vermont Precision Tools

WORK ORDER: 2207-20494
DATE RECEIVED: 07/26/2022

001	Site: Effluent Grab			Date Sampled: 7/26/22	Time: 13:30		
<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
4-Nitrophenol	< 25.0	ug/L	EPA 625.1	8/16/22	W EEP	A	
4,6-Dinitro-2-methylphenol	< 100	ug/L	EPA 625.1	8/16/22	W EEP	A	
Pentachlorophenol	< 50.0	ug/L	EPA 625.1	8/16/22	W EEP	A	M-
B/N Surr.1 Nitrobenzene-d5	76	%	EPA 625.1	8/16/22	W EEP	A	
B/N Surr.2 2-Fluorobiphenyl	77	%	EPA 625.1	8/16/22	W EEP	A	
B/N Surr.3 Terphenyl-d14	105	%	EPA 625.1	8/16/22	W EEP	A	
Acid Surr.1 2-Fluorophenol	35	%	EPA 625.1	8/16/22	W EEP	A	
Acid Surr.2 Phenol-d5	29	%	EPA 625.1	8/16/22	W EEP	A	
Acid Surr.3 Tribromophenol	93	%	EPA 625.1	8/16/22	W EEP	A	
Unidentified Peaks	> 10		EPA 625.1	8/16/22	W EEP	U	

002	Site: Trip Blank		Date Sampled: 6/28/22		Time: 9:30		
Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
VOC Priority Pollutants							
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	7/30/22	W TRP	A	
Acetone	< 10.0	ug/L	EPA 624.1	7/30/22	W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Chloroform	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Tetrachloroethene	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	A	
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	7/30/22	W TRP	A	

Laboratory Report

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 DATE RECEIVED: 07/26/2022

002 Site: Trip Blank Date Sampled: 6/28/22 Time: 9:30

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	7/30/22	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	7/30/22	W TRP	U	
Surr. 1 (Dibromofluoromethane)	102	%	EPA 624.1	7/30/22	W TRP	A	
Surr. 2 (Toluene d8)	99	%	EPA 624.1	7/30/22	W TRP	A	
Surr. 3 (4-Bromofluorobenzene)	101	%	EPA 624.1	7/30/22	W TRP	A	
Unidentified Peaks	0		EPA 624.1	7/30/22	W TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	7/30/22	W TRP	A	
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	7/30/22	W TRP	A	
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	7/30/22	W TRP	A	

Report Summary of Qualifiers and Notes

Method 624: Sample 002: The sample analysis was performed on a container with significant headspace. Results may be biased low.

Method 625: Sample 001: Reporting limits increased. Dilution required due to the nature of the sample matrix.

M-: The Laboratory Fortified Matrix (LFM) analysis had a recovery lower than defined acceptance limits. This indicates a potential negative bias in the reported value or a difficult sample matrix that resulted in poor reproducibility between sample aliquots selected for analysis.

SBA: Analysis performed by subcontracted laboratory, Alpha Analytical, Mansfield MA. Results are presented here for your convenience. The complete subcontracted report has been appended to this report.



ANALYTICAL REPORT

Lab Number:	L2240813
Client:	Endyne, Inc. 160 James Brown Drive Williston, VT 05495
ATTN:	Eileen Toomey
Phone:	(802) 879-4333
Project Name:	2207-20494-W
Project Number:	2207-20494-W
Report Date:	09/09/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: 2207-20494-W
Project Number: 2207-20494-W

Lab Number: L2240813
Report Date: 09/09/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2240813-01	2207-20494 001	WATER	Not Specified	07/26/22 13:30	07/29/22

Project Name: 2207-20494-W
Project Number: 2207-20494-W

Lab Number: L2240813
Report Date: 09/09/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

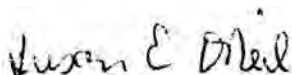
Project Name: 2207-20494-W**Lab Number:** L2240813**Project Number:** 2207-20494-W**Report Date:** 09/09/22**Case Narrative (continued)**

Dioxins & Furans by Isotope Dilution HRMS

The WG1672509-3 LCSD recovery, associated with L2240813-01, is above the acceptance criteria for 2,3,7,8-tcdd (141%); however, the associated sample is non-detect to the RL for this target analyte. The results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Susan O'Neil

Title: Technical Director/Representative

Date: 09/09/22

ORGANICS

SEMIVOLATILES

High Resolution Mass Spectrometry

Project Name: 2207-20494-W

Lab Number: L2240813

Project Number: 2207-20494-W

Report Date: 09/09/22

SAMPLE RESULTS

Lab ID: L2240813-01
 Client ID: 2207-20494 001
 Sample Location: Not Specified

Date Collected: 07/26/22 13:30
 Date Received: 07/29/22
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8290A
 Analytical Date: 09/09/22 01:48
 Analyst: CP

Extraction Method: EPA 8290A
 Extraction Date: 08/08/22 11:23
 Cleanup Method: EPA 8290A
 Cleanup Date: 08/30/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL	Dilution Factor
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Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab

2,3,7,8-TCDD	ND			pg/l	9.62	--	1
--------------	----	--	--	------	------	----	---

Surrogate/Cleanup Standard	% Recovery	Qualifier	Acceptance Criteria
13C12-2,3,7,8-TCDD	51		40-135
37CL4-2,3,7,8-TCDD	99		40-135

Project Name: 2207-20494-W

Lab Number: L2240813

Project Number: 2207-20494-W

Report Date: 09/09/22

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8290A
 Analytical Date: 09/08/22 22:35
 Analyst: CP

Extraction Method: EPA 8290A
 Extraction Date: 08/08/22 11:23
 Cleanup Method: EPA 8290A
 Cleanup Date: 08/30/22

Parameter	Result	Qualifier	EMPC	Units	RL	MDL
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab for sample(s): 01 Batch: WG1672509-1						
2,3,7,8-TCDD	ND			pg/l	10.0	--
Surrogate/Cleanup Standard	%Recovery		Qualifier	Acceptance Criteria		
13C12-2,3,7,8-TCDD	62			40-135		
37CL4-2,3,7,8-TCDD	102			40-135		

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 2207-20494-W**Lab Number:** L2240813**Project Number:** 2207-20494-W**Report Date:** 09/09/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Dioxins & Furans by Isotope Dilution HRMS - Mansfield Lab Associated sample(s): 01 Batch: WG1672509-2 WG1672509-3								
2,3,7,8-TCDD	124		141	Q	71-125	13		25

Surrogate/Cleanup Standard	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
13C12-2,3,7,8-TCDD	59		58		40-135
37CL4-2,3,7,8-TCDD	103		111		40-135

Project Name: 2207-20494-W**Lab Number:** L2240813**Project Number:** 2207-20494-W**Report Date:** 09/09/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

A Absent

Container Information**Container ID** **Container Type**

L2240813-01A Amber 1000ml unpreserved

L2240813-01B Amber 1000ml unpreserved

Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
A	7	7	4.1	Y	Absent		A2-DIOXIN-8290(365)
A	7	7	4.1	Y	Absent		A2-DIOXIN-8290(365)

Project Name: 2207-20494-W

Lab Number: L2240813

Project Number: 2207-20494-W

Report Date: 09/09/22

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: 2207-20494-W
Project Number: 2207-20494-W

Lab Number: L2240813
Report Date: 09/09/22

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: 2207-20494-W**Lab Number:** L2240813**Project Number:** 2207-20494-W**Report Date:** 09/09/22**Data Qualifiers**

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: 2207-20494-W
Project Number: 2207-20494-W

Lab Number: L2240813
Report Date: 09/09/22

REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 19

Published Date: 4/2/2021 1:14:23 PM

Page 1 of 1

Certification Information**The following analytes are not included in our Primary NELAP Scope of Accreditation:****Westborough Facility****EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625/625.1:** alpha-Terpineol**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D/8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: EPA 3050B**The following analytes are included in our Massachusetts DEP Scope of Accreditation****Westborough Facility:****Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

7/30/22

L2240813

Chain of Custody

Alpha Analytical
Eight Walkup Drive
Westboro MA 01581
Ph 508-898-9220

STATE OF ORIGIN: VERMONT

The analysis requested requires that you have and maintain NELAC certification. If you do not currently have NELAC certification in the above referenced State, and specified matrix please contact Endyne immediately at (802) 879-4333 ext 301. Thank you.

Copy of Report To	Billing Information	Project Information
CUSTOMER: Endyne, Inc.	BILL TO: Endyne, Inc.	2207-20494-W
ADDRESS: 160 James Brown Drive	ADDRESS: 160 James Brown Drive	TURN AROUND TIME:
Williston, VT 05495	Williston, VT 05495	SPECIAL INSTRUCTIONS:
ATTENTION: Eileen Toomey	ATTENTION: Reporting	
E-MAIL: etoomey@endynelabs.com	E-MAIL: etoomey@endynelabs.com	
PHONE: (802) 879-4333 x 300	PHONE: 802-879-4333 x 308	

Dioxins, Sub-contracted

Sample IdentificationMatrixDT TM Sampled

2207-20494 001 Effluent Grab

010

NP

7/26/22 13:30

Wendy Morony 7/30/22 2:30

Sam Oldrid 7/30/22 04:30

7/28/22

Rel B. Lyons 7/29/22

Relinquished by: (Sign, Date, Time)

E. O'Neil 1400

Page 16 of 16 (Sign, Date, Time)

B. Lyons 444 7/29/22 13:00

1605

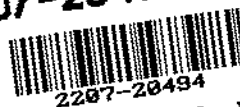
7/30/22 00:15

Vermont Precision Tools

Endyne Inc. COC

Prepared: 6/23/22

2207-20494



Stone Environmental, Inc.
Vermont Precision Tools

Bill to:

Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:

Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@

Cust #

DE

W-7

Page 1 of 1

Effluent Grab

Sampled Date/Time:

7/26/22 @ 1:30

Sampler:

DA7

pH Client Data

8.25 taken at 1:18pm

Cyanide, Total

1 - 8 oz Plastic for CN ✓

<6C, NaOH Na₂S₂O₃, Cl₂

Pests, Priority Pollutant

4- 1L Amber Glass

<6C, Na₂S₂O₃, pH 5-9

SVOC Priority Pollutants

6

Cadmium, Total

1 - 16 oz Plastic Total Metals

HNO₃ pH < 2

Chromium, Total

Copper, Total

Lead, Total

Nickel, Total

Silver, Total

Zinc, Total

Client collected the sample
and delivered to the lab
7/27/22. Collection date is as
above. ECT

VOC Priority Pollutants

2 - 40ml vials ✓

<6C, Na₂S₂O₃

Trip Blank

Sampled Date/Time:

6/28/22 @ 9:30am

Sampler:

DA7

VOC Priority Pollutants

2 - 40ml vials

<6C, Na₂S₂O₃

One or more sample bottles in this project must be
kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the
temperature preservation requirements are not satisfied.

INITIAL HERE

Relinquished by:

Andrew Fish 7/26/22 3:23

Accepted by:

Eileen Torrey 7/26/22 @ 1523

Relinquished by:

Received by:

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin:

VT

NH

NY

Other

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv: Client
Temp C: 13.4
Comment:

Temp Ck
Log by

Lab use Only



ENDYNE Inc.

www.endynelabs.com

160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Elna Road
Lebanon, NH 03766
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Laboratory Report

Stone Environmental, Inc. 070233
535 Stone Cutters Way
Montpelier, VT 05602

PROJECT: Vishay Tansitor
WORK ORDER: 2208-24491
DATE RECEIVED: August 30, 2022
DATE REPORTED: September 14, 2022
SAMPLER: Illegible

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody located at the end of this report.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields.

This NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Alexander J Rakotz
Laboratory Director Lebanon, NH

www.endynelabs.com



160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

ELAP 11263

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



NH2037

Laboratory Report

DATE REPORTED: 09/14/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Vishay Tansitor

WORK ORDER: 2208-24491
DATE RECEIVED: 08/30/2022

001	Site: Effluent Grab			Date Sampled: 8/30/22		Time: 10:41			
Parameter	Result	Units	Method	Analysis Date/Time		Lab/Tech		NELAC	Qual.
pH per Client	6.85	SU at __C	Client Data	8/30/22	10:41	W	CLI	N	
VOC Priority Pollutants						W			
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Acetone	27.1	ug/L	EPA 624.1	9/1/22		W	TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Chloroform	1.8	ug/L	EPA 624.1	9/1/22		W	TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	9/1/22		W	TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	9/1/22		W	TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Bromodichloromethane	0.5	ug/L	EPA 624.1	9/1/22		W	TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Tetrachloroethene	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	PLE
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	9/1/22		W	TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	9/1/22		W	TRP	U	
Surr. 1 (Dibromofluoromethane)	104	%	EPA 624.1	9/1/22		W	TRP	A	
Surr. 2 (Toluene d8)	98	%	EPA 624.1	9/1/22		W	TRP	A	
Surr. 3 (4-Bromofluorobenzene)	103	%	EPA 624.1	9/1/22		W	TRP	A	
Unidentified Peaks	0		EPA 624.1	9/1/22		W	TRP	U	
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	9/1/22		W	TRP	A	

Laboratory Report

DATE REPORTED: 09/14/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Vishay Tansitor

WORK ORDER: **2208-24491**
DATE RECEIVED: 08/30/2022

1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	9/1/22	W	TRP	A
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	9/1/22	W	TRP	A
Priority Pollutant Pesticides					W		
Sep Funnel Extraction	Completed		EPA 608.3	8/31/22	W	CLD	A
alpha-BHC	< 0.009	ug/L	EPA 608.3	9/1/22	W	DPD	A
gamma-BHC (Lindane)	< 0.012	ug/L	EPA 608.3	9/1/22	W	DPD	A
beta-BHC	< 0.018	ug/L	EPA 608.3	9/1/22	W	DPD	A
delta-BHC	< 0.027	ug/L	EPA 608.3	9/1/22	W	DPD	A
Heptachlor	< 0.009	ug/L	EPA 608.3	9/1/22	W	DPD	A
Aldrin	< 0.012	ug/L	EPA 608.3	9/1/22	W	DPD	A
Heptachlor Epoxide	< 0.249	ug/L	EPA 608.3	9/1/22	W	DPD	A
4,4'-DDE	< 0.012	ug/L	EPA 608.3	9/1/22	W	DPD	A
Endosulfan I	< 0.042	ug/L	EPA 608.3	9/1/22	W	DPD	A
Dieldrin	< 0.006	ug/L	EPA 608.3	9/1/22	W	DPD	A
Endrin	< 0.018	ug/L	EPA 608.3	9/1/22	W	DPD	A
4,4'-DDD	< 0.033	ug/L	EPA 608.3	9/1/22	W	DPD	A
Endosulfan II	< 0.012	ug/L	EPA 608.3	9/1/22	W	DPD	A
4,4'-DDT	< 0.036	ug/L	EPA 608.3	9/1/22	W	DPD	A
Endrin Aldehyde	< 0.070	ug/L	EPA 608.3	9/1/22	W	DPD	A
Endosulfan Sulfate	< 0.198	ug/L	EPA 608.3	9/1/22	W	DPD	A
Methoxychlor	< 0.1	ug/L	EPA 608.3	9/1/22	W	DPD	A
Chlordane	< 0.150	ug/L	EPA 608.3	9/1/22	W	DPD	A
Toxaphene	< 0.720	ug/L	EPA 608.3	9/1/22	W	DPD	A
Aroclor 1016 (PCB-1016)	< 0.45	ug/L	EPA 608.3	9/7/22	W	DPD	A
Aroclor 1221 (PCB-1221)	< 0.45	ug/L	EPA 608.3	9/7/22	W	DPD	A
Aroclor 1232 (PCB-1232)	< 0.45	ug/L	EPA 608.3	9/7/22	W	DPD	A
Aroclor 1242 (PCB-1242)	< 0.095	ug/L	EPA 608.3	9/7/22	W	DPD	A
Aroclor 1248 (PCB-1248)	< 0.45	ug/L	EPA 608.3	9/7/22	W	DPD	A
Aroclor 1254 (PCB-1254)	< 0.45	ug/L	EPA 608.3	9/7/22	W	DPD	A
Aroclor 1260	< 0.45	ug/L	EPA 608.3	9/7/22	W	DPD	A
Surrogate-TCMX	65	%	EPA 608.3	9/1/22	W	DPD	A
Surrogate-DCB	77	%	EPA 608.3	9/1/22	W	DPD	A
SVOC Priority Pollutants					W		
Extraction EPA 3510C	Completed		EPA 3510C	9/6/22	W	CLD	A
N-Nitrosodimethylamine	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A
Bis(2-chloroethyl)ether	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A
2,2'-Oxybis(1-chloropropane	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A
N-Nitrosodi-n-propylamine	< 10.0	ug/L	EPA 625.1	9/13/22	W	EEP	A
Hexachloroethane	< 2.0	ug/L	EPA 625.1	9/13/22	W	EEP	A
Nitrobenzene	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A
Isophorone	< 2.0	ug/L	EPA 625.1	9/13/22	W	EEP	A
Bis(2-chloroethoxy)methane	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 625.1	9/13/22	W	EEP	A
Naphthalene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A
Hexachlorobutadiene	< 2.0	ug/L	EPA 625.1	9/13/22	W	EEP	A
Hexachlorocyclopentadiene	< 20.0	ug/L	EPA 625.1	9/13/22	W	EEP	A

M-

Laboratory Report

DATE REPORTED: 09/14/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Vishay Tansitor

WORK ORDER: **2208-24491**
DATE RECEIVED: 08/30/2022

2-Chloronaphthalene	< 2.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Dimethyl phthalate	< 2.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
2,6-Dinitrotoluene	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Acenaphthylene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Acenaphthene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
2,4-Dinitrotoluene	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Fluorene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Diethyl phthalate	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
4-Chlorophenyl phenyl ether	< 2.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
N-Nitrosodiphenylamine	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Azobenzene	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	U	
4-Bromophenyl phenyl ether	< 2.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Hexachlorobenzene	< 1.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Phenanthrene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Anthracene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Di-n-butylphthalate	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Fluoranthene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Benzidine	< 20.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	RPD
Pyrene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Butyl benzyl phthalate	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Benzo(a)anthracene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Chrysene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
3,3'-Dichlorobenzidine	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Bis(2-ethylhexyl)phthalate	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Di-n-octylphthalate	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Benzo(b)fluoranthene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Benzo(k)fluoranthene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Benzo(a)pyrene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Indeno(1,2,3-cd)pyrene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Dibenzo(a,h)anthracene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Benzo(g,h,i)perylene	< 0.5	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Phenol	< 2.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
2-Chlorophenol	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
2-Nitrophenol	< 10.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
2,4-Dimethylphenol	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
2,4-Dichlorophenol	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
4-Chloro-3-methylphenol	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
2,4,6-Trichlorophenol	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
2,4-Dinitrophenol	< 20.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
4-Nitrophenol	< 5.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
Pentachlorophenol	< 10.0	ug/L	EPA 625.1	9/13/22	W	EEP	A	
B/N Surr.1 Nitrobenzene-d5	37	%	EPA 625.1	9/13/22	W	EEP	A	
B/N Surr.2 2-Fluorobiphenyl	40	%	EPA 625.1	9/13/22	W	EEP	A	
B/N Surr.3 Terphenyl-d14	84	%	EPA 625.1	9/13/22	W	EEP	A	
Acid Surr.1 2-Fluorophenol	17	%	EPA 625.1	9/13/22	W	EEP	A	

**ENDYNE Inc.**

www.endynelabs.com

Laboratory Report

DATE REPORTED: 09/14/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Vishay Tansitor

WORK ORDER: 2208-24491
DATE RECEIVED: 08/30/2022

Acid Surr.2 Phenol-d5	15	%	EPA 625.1	9/13/22	W	EEP	A
Acid Surr.3 Tribromophenol	66	%	EPA 625.1	9/13/22	W	EEP	A
Unidentified Peaks	1		EPA 625.1	9/13/22	W	EEP	U

002 Site: Trip Blank Date Sampled: 6/28/22 Time: 9:30

Parameter	Result	Units	Method	Analysis Date/Time	Lab/Tech	NELAC	Qual.
VOC Priority Pollutants					W		
Dichlorodifluoromethane	< 5.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Chloromethane	< 3.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Vinyl chloride	< 0.5	ug/L	EPA 624.1	9/1/22	W TRP	A	
Bromomethane	< 0.5	ug/L	EPA 624.1	9/1/22	W TRP	A	
Chloroethane	< 5.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Acrolein	< 5.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
1,1-Dichloroethene	< 0.7	ug/L	EPA 624.1	9/1/22	W TRP	A	
Acetone	< 10.0	ug/L	EPA 624.1	9/1/22	W TRP	N	
Methylene chloride	< 5.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
trans-1,2-Dichloroethene	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Acrylonitrile	< 5.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
1,1-Dichloroethane	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Chloroform	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
1,1,1-Trichloroethane	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Carbon tetrachloride	< 0.5	ug/L	EPA 624.1	9/1/22	W TRP	A	
Benzene	< 0.5	ug/L	EPA 624.1	9/1/22	W TRP	A	
1,2-Dichloroethane	< 0.5	ug/L	EPA 624.1	9/1/22	W TRP	A	
Trichloroethene	< 0.5	ug/L	EPA 624.1	9/1/22	W TRP	A	
1,2-Dichloropropane	< 0.5	ug/L	EPA 624.1	9/1/22	W TRP	A	
Bromodichloromethane	< 0.5	ug/L	EPA 624.1	9/1/22	W TRP	A	
2-Chloroethylvinyl ether	< 5.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
cis-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Toluene	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
trans-1,3-Dichloropropene	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
1,1,2-Trichloroethane	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Tetrachloroethene	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	PLE
Dibromochloromethane	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Chlorobenzene	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Ethylbenzene	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Xylenes, Total	< 2.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Bromoform	< 2.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
1,1,2,2-Tetrachloroethane	< 2.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
1,3-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
1,4-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
1,2-Dichlorobenzene	< 1.0	ug/L	EPA 624.1	9/1/22	W TRP	A	
Naphthalene	< 0.5	ug/L	EPA 624.1	9/1/22	W TRP	U	
Surr. 1 (Dibromofluoromethane)	98	%	EPA 624.1	9/1/22	W TRP	A	
Surr. 2 (Toluene d8)	98	%	EPA 624.1	9/1/22	W TRP	A	

Laboratory Report

DATE REPORTED: 09/14/2022

CLIENT: Stone Environmental, Inc.
PROJECT: Vishay Tansitor

WORK ORDER: **2208-24491**
DATE RECEIVED: 08/30/2022

Surr. 3 (4-Bromofluorobenzene)	102	%	EPA 624.1	9/1/22	W	TRP	A
Unidentified Peaks	0		EPA 624.1	9/1/22	W	TRP	U
1,2-Dibromoethane	< 2.0	ug/L	EPA 8260C	9/1/22	W	TRP	A
1,2-Dibromo-3-Chloropropane	< 2.0	ug/L	EPA 8260C	9/1/22	W	TRP	A
1,2,4-Trichlorobenzene	< 2.0	ug/L	EPA 8260C	9/1/22	W	TRP	A

Report Summary of Qualifiers and Notes

PLE: The reporting limit was increased due to contaminant present in the laboratory environment.

M-: The Laboratory Fortified Matrix (LFM) analysis had a recovery lower than defined acceptance limits. This indicates a potential negative bias in the reported value or a difficult sample matrix that resulted in poor reproducibility between sample aliquots selected for analysis.

RPD: Variability observed. The Relative Percent Difference of the Matrix Spike Duplicate was above method acceptance limits.

Vishay Tansitor

Endyne Inc

2208-24491

Prepared:



2208-24491

Stone Environmental, Inc.
Vishay Tansitor

Bill to:

Mr. Chris Stone

Stone Environmental, Inc.

535 Stone Cutters Way

Montpelier VT 05602

Ph: (802) 229-4541

Report to:

Meghan Arpino

Stone Environmental, Inc.

535 Stone Cutters Way

Montpelier VT 05602

dbraun@stone-env.com;accounting@

Page 1 of 1

Effluent Grab

Sampled Date/Time:

8/30/22 @ 10:41 Sampler: QAT

pH Client Data

6.85 at 10:41 am 8/30/22

Pests, Priority Pollutant

4 - 1L Amber Glass

<6C, Na2S2O3, pH 5-9

SVOC Priority Pollutants

VOC Priority Pollutants

2 - 40ml vials

<6C, Na2S2O3

Trip Blank

Sampled Date/Time:

6/28/22 @ 9:30 Sampler:

VOC Priority Pollutants

2 - 40ml vials

<6C, Na2S2O3

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.



Relinquished by:

Andrew T. 8/30 1:53

Accepted by:

Date Time

Relinquished by:

Date Time

Received by:

DG 8/30/22 1:55

Date Time

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin: VT ☐ NH ☐ NY ☐ Other ☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv:

Temp C:

Comment:

12.1

cooler

Temp Ck

Log by

Lab use Only



ENDYNE Inc.

www.endynelabs.com

160 James Brown Dr.
Williston, VT 05495
Ph 802-879-4333
Fax 802-879-7103

56 Etna Road
Lebanon, NH 03786
Ph 603-678-4891
Fax 603-678-4893

315 New York Rd.
Plattsburgh, NY 12903
Ph 518-563-1720
Fax 518-563-0052



Stone Environmental, Inc.

535 Stone Cutters Way

070233

Montpelier, VT 05602

Atten: Meghan Arpino

PROJECT: VT Hard Cider Exchange St

WORK ORDER: **2208-23502**

DATE RECEIVED: August 19, 2022

DATE REPORTED: August 26, 2022

SAMPLER: APH

Laboratory Report

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody. All required method quality control elements including instrument calibration were performed in accordance with method requirements and determined to be acceptable unless otherwise noted.

The column labeled Lab/Tech in the accompanying report denotes the laboratory facility where the testing was performed and the technician who conducted the assay. A "W" designates the Williston, VT lab under NELAC certification ELAP 11263; "R" designates the Lebanon, NH facility under certification NH 2037 and "N" the Plattsburgh, NY lab under certification ELAP 11892. "Sub" indicates the testing was performed by a subcontracted laboratory. The accreditation status of the subcontracted lab is referenced in the corresponding NELAC and Qual fields. The Williston, VT facility is also ISO/IEC 17025:2017 accredited for Total Coliform and E coli by SM9223B.

The NELAC column also denotes the accreditation status of each laboratory for each reported parameter. "A" indicates the referenced laboratory is NELAC accredited for the parameter reported. "N" indicates the laboratory is not accredited. "U" indicates that NELAC does not offer accreditation for that parameter in that specific matrix. Test results denoted with an "A" meet all National Environmental Laboratory Accreditation Program requirements except where denoted by pertinent data qualifiers. Test results are representative of the samples as they were received at the laboratory.

Endyne, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report, but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose.

Reviewed by:

Harry B. Locker, Ph.D.
Laboratory Director

www.endynelabs.com

160 James Brown Dr., Williston, VT 05495
Ph 802-879-4333 Fax 802-879-7103

56 Etna Road, Lebanon, NH 03766
Ph 603-678-4891 Fax 603-678-4893



Laboratory Report

DATE REPORTED: 08/26/2022

CLIENT: Stone Environmental, Inc.
PROJECT: VT Hard Cider Exchange St

WORK ORDER: **2208-23502**
DATE RECEIVED: 08/19/2022

001

Site: Effluent Grab

Date Sampled: 8/19/22 Time: 9:30

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Analysis Date/Time</u>	<u>Lab/Tech</u>	<u>NELAC</u>	<u>Qual.</u>
pH per Client	7.04	SU at __C	Client Data	8/19/22 9:30	W CLI	N	
BOD-5day	910	mg/L	SM 5210B(16)	8/19/22 16:26	W JSS	A	
Solids, Total Suspended	61	mg/L	SM 2540 D-15	8/24/22	W JSS	A	

VT Hard Cider Exchange St

Endyne Inc. COC

2208-23502

Prepared: 8/18/22



2208-23502

Bill to:
Mr. Chris Stone
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
Ph: (802) 229-4541

Report to:
Meghan Arpino
Stone Environmental, Inc.
535 Stone Cutters Way
Montpelier VT 05602
dbraun@stone-env.com;accounting@stone-env.com

Cust #
DEC
W-70

Stone Environmental, Inc.
UT Hard Cider Exchange St

Effluent Grab

Sampled Date/Time:

8/19/22 @ 9:30

Sampler:

APH

pH Client Data

7.04

BOD-5day

1- 8 oz Plastic

<6C

Solids, Total Suspended

One or more sample bottles in this project must be kept refrigerated or on ice until delivery at the laboratory.

Initial here allow Endyne to proceed with analysis if the temperature preservation requirements are not satisfied.

APH

INITIAL HERE

Relinquished by:

[Signature]

8/19/22 15:00

Date Time

Accepted by:

[Signature]

Date Time

Relinquished by:

Received by:

Date Time

Sites/Parameters correct as listed. Client Initials

Client Authorization to use Subcontract lab Client Initials

Sample origin:

VT

☐ NH

☐ NY

☐ Other

☐

Special reporting instructions: (PO#)

Requested Turnaround Time: Routine: Rush Due Date

Delv:

Temp C: -7.5

Comment:

Temp Ck

Log by

Lab use Only



160 James Brown Dr.
Williston, VT 05495
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