

July 2, 2019

Via Electronic Mail: NPDES.Generalpermits@epa.gov

U.S. Environmental Protection Agency Remediation General Permit NOI Processing 5 Post Office Square, Suite 100 Mail Code OEP06-4 Boston, Massachusetts 02109-3912

RE: EPA Remediation General Permit Notice of Intent Vineyard Haven Xtramart 19,25 Beach Road Tisbury, Massachusetts MassDEP RTN 4-13294 CEA File No. 5750-05

To Whom It May Concern:

On behalf of the Drake Petroleum Company, Inc. (Drake), Corporate Environmental Advisors (CEA) respectfully submits this EPA Remediation General Permit (RGP) Notice of Intent (NOI) submittal for the above-referenced location (the "Site" or "subject property"). The RGP NOI submittal is provided as **Attachment A**. The attached Site Locus (**Figure 1**) depicts the subject property with respect to surrounding topography. The Site, identified as Map 9, Block B, Lot 13 and Lot 14 by the Town of Tisbury Assessor's Office, consists of approximately 0.73 acres (31,799 square feet) of land that includes a USTs, dispensers and four (4) single story buildings constructed on a concrete slab foundation. The subject property is located in a mixed residential/commercial area of Tisbury, Massachusetts. Soil and/or groundwater beneath the subject property has been impacted by historic gasoline underground storage tanks (USTs) located on the property.

Excavation of potential petroleum-impacted soil is proposed in a portion of the property above the current USTs and in the vicinity of the UST piping and dispensers. It is anticipated that proposed excavation and temporary dewatering and groundwater treatment activities will be initiated at the Site in 2019. The Site was assigned Massachusetts Department of Environmental Protection (MassDEP) Release Tracking Number (RTN) 4-13294 in 1994 in accordance with the Massachusetts Contingency Plan (MCP) 310 CMR 40.0000; a Class A-2 Response Action Outcome (RAO) Statement was submitted to the MADEP for RTN 4-13294 on February 6, 2014.

ADDRESS 21 East Main Street, Suite 201

Westborough, MA 01581

TEL 508.835.8822 | 800.358.7960

FAX 508.835.8812 WEB www.cea-inc.com This Notice of Intent is being submitted in order to obtain a permit for the short term (temporary) discharge of treated groundwater to surface water. Based on available information groundwater has been measured at the Site at depths ranging from approximately two (2) feet to six (6) feet below grade. Therefore, it is anticipated that dewatering activities and corresponding treatment of such using a temporary groundwater treatment system will be necessary to depress the groundwater table at the Site during UST Top upgrade subsurface excavation activities. The attached Site Layout (**Figure 2**) depicts pertinent Site features. The attached MassDEP Bureau of Waste Site Cleanup (BWSC) Phase 1 Site Assessment Map provided as **Figure 3** depicts surface water features and sensitive receptors located within an approximate 500 foot radius and half-mile radius of the site.

GROUNDWATER TREATMENT SYSTEM DESIGN

The proposed groundwater treatment system to be located on-site shall consist of an electric submersible pump which will pump groundwater from a temporary dewatering sump or well set within the excavation area to a 21,000-gallon fractionation (frac) tank for settling and temporary storage. Recovered groundwater shall be pumped from the frac tank using a submersible pump through bag filters to remove particulates and then through two (2) 1,000-pound capacity or greater liquid phase granular activated carbon adsorption (LGACA) vessels plumbed in series. The treated groundwater will pass through a flow meter and flow totalizer prior to being discharged to a storm drain catch basin located in Lagoon Pond Road at the intersection of Beach Road. Information provided by the Town of Tisbury Engineering Department indicates that this storm drain is connected to the underground drainage system within the Lagoon Pond Road layout where it flows easterly under across Beach Road and beneath Beach Street Extension, where it discharges into Vineyard Haven Harbor at the the end of Beach Street Extension. A process and instrumentation diagram (P&ID) of the proposed groundwater treatment system is provided as **Figure 4**. The proposed treated water discharge location and drainage outfall location is shown on **Figure 2**.

The average flow rate of the treated water discharge from the system to the storm drain system is expected to be less than 50 gallons per minute (gpm). The pumping capacity of the groundwater treatment system is 100 gpm based upon the capacity of the submersible pumps. The groundwater treatment system shall be inspected, monitored and sampled by a Grade II Wastewater Treatment Plant Operator as required in accordance with the RGP. Groundwater samples shall be collected from the influent and effluent (treated water) at the onset of discharge for analysis by a Massachusetts-certified laboratory for contaminants of concern and any additional monitoring parameters required by the RGP. In addition, groundwater samples shall also be collected from the midpoint (between LGAC units) for analysis by a Massachusetts-certified laboratory to further monitor the groundwater treatment system for potential break through of the liquid phase carbon.

GROUNDWATER PRE-CHARACTERIZATION ANALYSIS

Groundwater samples were collected on April 8, 2019 from on-site UST pad well T-2 and nearby groundwater monitoring well HTE-9 to evaluate concentrations of petroleum-related petroleum compounds in groundwater. Groundwater samples were submitted to SGS North America, Inc. (SGS), located in Dayton, New Jersey, under chain-of-custody protocol and analyzed for RGP parameters including ammonia, chloride, total suspended solids (TSS), total metals, cyanide, volatile organic compounds (VOCs), semi-VOCs (SVOCs)/ polycyclic aromatic hydrocarbons (PAHs), and total petroleum hydrocarbons (TPH) via the corresponding EPA methodologies. Refer to the laboratory analytical reports included in **Attachment B** for details of the RGP parameters, EPA methodologies and groundwater analytical results.

The composite groundwater analytical results for untreated/ unfiltered groundwater samples collected from the UST pad well T-2 and groundwater monitoring well HTE-9 on April 8, 2019 for RGP parameters are summarized in the enclosed RGP NOI data summary section (Pages 18 to 20 in the NOI, **Attachment A**). The RGP effluent limitations were obtained from the RGP Table 2 Chemical-Specific Effluent Limitations for Category I – Petroleum Related Site Remediation, found at (https://www3.epa.gov/region1/npdes/rgp.html).

Referring to the NOI data summary included in **Attachment A**, the analytical results for the untreated/unfiltered groundwater sample (RW-RGP) detected TSS, copper, iron, lead, nickel, zinc and select group I and group II PAHs concentrations above the corresponding EPA RGP technology-based effluent limitation (TBEL) and/or water quality-based effluent limitation (WQBEL) available for this report. These exceedances of RGP effluent limitations in the untreated groundwater sample may be attributable to silt in the unfiltered groundwater sample and not representative of actual groundwater (soluble) concentrations. However, it is anticipated that the proposed groundwater treatment system will reduce concentrations of TSS and PAHs below available RGP effluent limitations in treated groundwater prior to discharge. Based on available information, TSS and total group I/group II PAHs should be subject to monitoring requirements. No known sources of cadmium, copper, lead, nickel, zinc or iron have existed onsite; these minerals may be naturally occurring in native soils or are related to historic uses of the area.

RECEIVING WATERS INFORMATION

The receiving water for the treated groundwater discharge is Vineyard Haven Harbor located approximately 425 northeast of the site and approximately 500 feet east of the discharge catch basin. No 7Q10 is available for discharge to saltwater and according to Appendix V of the USEPA NOI all saltwater receiving waters have a dilution factor of 1:1. This was confirmed by the MassDEP on April 16, 2019.



RECEIVING WATER CLASSIFICATION

According to 314 CMR 4.06, Vineyard Haven Harbor, where the proposed drainage system outfall is located is designated as Class SA surface water. The Vineyard Haven Harbor is not an Outstanding Resource Water, Territorial Sea or Ocean Sancturary according to information provided by the MADEP via the MassGIS Database.

THREATENED OR ENDANGERED SPECIES OR CRITICAL HABITAT

According to the Massachusetts Geographic Information Systems (MassGIS), online MassDEP (BWSC) Phase 1 Bureau Waste Site Cleanup Site Assessment (http://maps.massgis.state.ma.us/images/dep/mcp/mcp.htm) and Natural Heritage Endangered Species Program (NHESP) online maps, no Priority Habitat of Rare Species or Estimated Habitats of Rare Wildlife are located within the work area; however, Estimated Habitats of Rare Wildlife and Priority Habitat of Rare Species are located within 500 feet of the proposed groundwater discharge location. The MassGIS maps do not depict any Areas of Critical Environmental Concern on the Site or within one-half mile of the Site or discharge location. Copies of the MassDEP Phase I Site Assessment Map (Figure 3) is attached and the NHESP map is provided as **Attachment C**.

As part of the Endangered Species Act eligibility determination CEA contacted the United States Department of the Interior, Fish and Wildlife Services (FWS) and requested a list of threatened and endangered species that may occur in the proposed project location and/or that may be affected by the proposed project. The FWS provided the requested list which indicates Northern Long-eared Bat as a threatened species and Roseate Tern as an endangered species identified within the work area or at the proposed groundwater discharge location. Therefore, the proposed project discharge meets FWS Criterion B. A copy of the FWS report is included in **Attachment D**.

A review of the December 28, 2016 EPA Consultation with NMFS was conducted by CEA to identify if any storm drain system discharging at the outfall location in Vineyard Haven Harbor as depicted on **Figure 2**. Shortnose Sturgeon have been identified as being present in Cape Cod Bay waters at an "adult" life cycle stage. North Atlantic Right Whales have been identified as being present in Cape Cod Bay waters as "Feeding and nursery grounds, where nursing females feed and suckle" which would represent both "adult" and "calf" stages of the life cycle. Fin Whales have been identified as having important feeding grounds located in the Great South Channel which includes the 50 meter isobaths past Cape Cod; however, no specific details of Fin Whales located within Cape Cod Bay or at which life cycle stage they would be in was determined in the EPA Consultation with NMFS. Loggerhead turtles in the "juvenile" life stage are documented as reaching areas as far north as Cape Cod Bay, although they are primarily located further south, and adult loggerhead turtles typically reach New York waters as the



northern limits of migration and prefer deeper oceanic shelves which do not exist within Cape Cod Bay. Leatherback turtles are identified as being present in Cape Cod Bay during the "adult" life cycle stage. Green turtles are identified as migrating as far north as Massachusetts waters in their "large juvenile" and "adult" life cycle stages in "foraging and/or developmental habitats"; however, the EPA Consultation with NMFS does not specify if Cape Cod Bay is a "foraging and/or developmental habitat". The EPA Consultation with NMFS states the EPA has determined that remediation activity discharges are not likely to adversely affect critical habitat for any threatened and/or endangered ESA species.

REVIEW OF NATIONAL REGISTER OF HISTORIC PLACES

A listing of all Historic Places within the Town of Tisbury (Vineyard Haven) was obtained from the Massachusetts Cultural Resources Information System (MACRIS) online database at http://mhc-macris.net/ on April 24, 2019. A copy of the MACRIS historic places report is provided as **Attachment E**. The database indicates that numerous historic places are located in the Town of Tisbury. Several historic places are located in the general vicinity of the Site; however, the project does not involve the demolition or rehabilitation of any of the historic places identified in the database. Also, historic properties are not affected by the discharge or identified in the path of the discharges regulated by this permit, and are not identified where installation or construction of treatment systems or best management practices to control such discharges are planned.

If you have any questions or require additional information, please do not hesitate to contact either of the undersigned via telephone at (508) 835-8822.

Sincerely,

Adam Guaraldi

Senior Project Geologist

Colon Mundle.

Scott E. VanderSea, LSP, LEP

Principal Hydrogeologist

Scott Vander Sea

cc: Ms. Shelley Puleo (via email: puleo.shelley@epa.gov)

Ms. Cathy Vakalopoulos (via email: Catherine. Vakalopoulos@state.ma.us)

Ms. Shauna Little (via email: little.shauna@epa.gov)

Mr. Xiaodan Ruan (via email: xiaodan.ruan@state.ma.us)

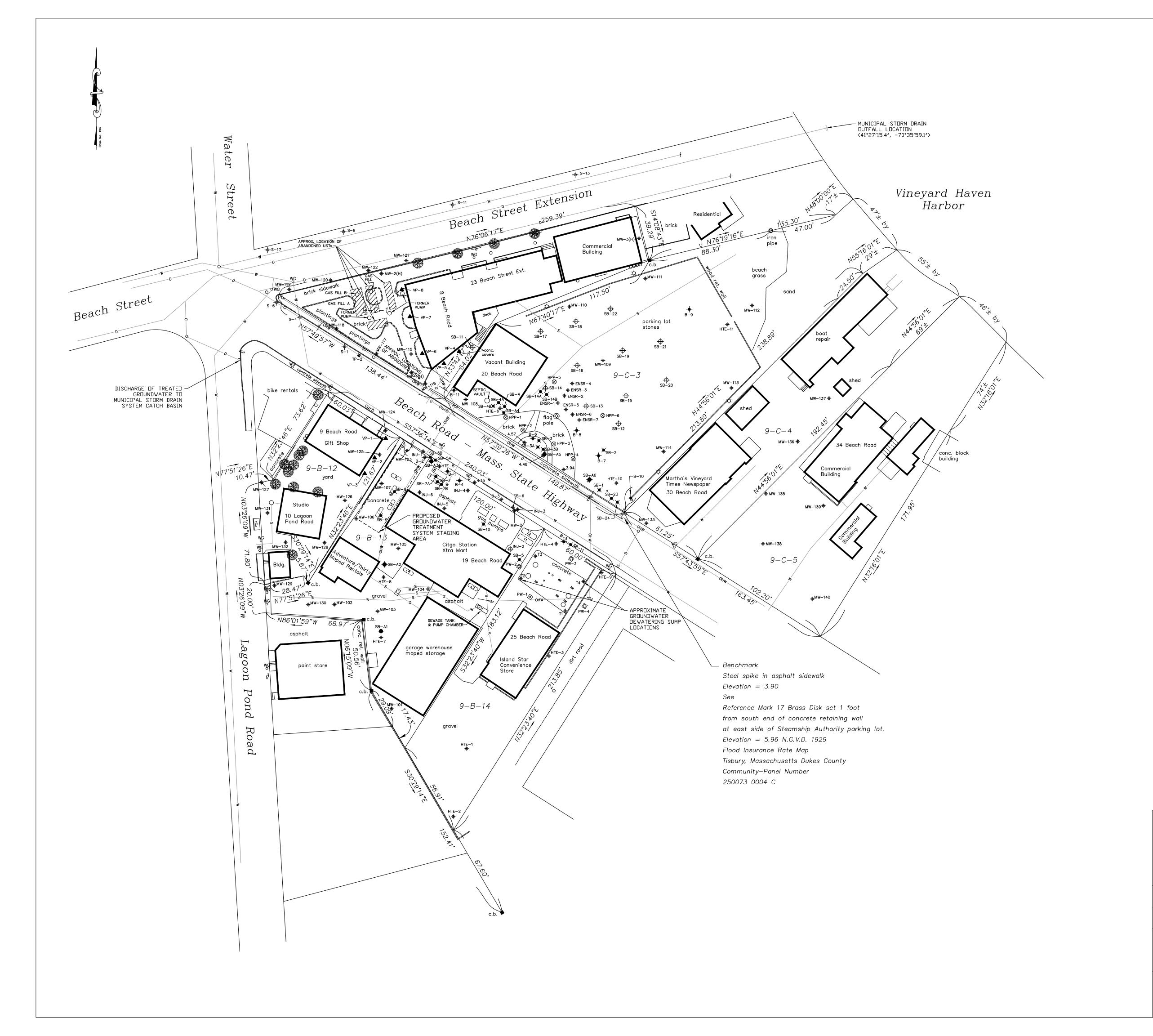


FIGURES





Tisbury, MA



<u>Legend</u>

 $\phi_{\text{MW}}^{3.93}$ denotes monitoring well with cover elevation

..... denotes spot elevation

9-C-3 denotes Tisbury Assessor Parcel.

c.b. denotes concrete bound

..... denotes manhole cover

ws denotes water gate

ം denotes utility pole

.... denotes light pole denotes electric

..... denotes tree

-- denotes sign

_____ denotes fence

vP-8 ▲ denotes soil vapor monitoring point

___w__ denotes water line

—s— denotes sewer line

——p— denotes drain line

□ denotes catch basin

→ denotes approximate soil boring location

.... denotes overhead wires 💥 denotes approximate soil boring location

→ denotes approximate soil boring location

→ denotes approximate soil boring location

..... denotes approximate test pit location

NOTE: UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND ARE NOT FIELD VERIFIED. ALL UNDERGROUND UTILITY LOCATIONS ARE TO BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCING ALL EXCAVATION ACTIVITIES.

<u>Plan References</u>

1. Tisbury Case File No. 194

2. Book 256, Page 286.

3. Land Court 18014A.

4. Plan Book 9, Page 80.

All soil boring and test pit locations are approximate as shown on site plan by Corporate Environmental Advisors, Inc. SITE LAYOUT dated 1/11/07.

Site Survey

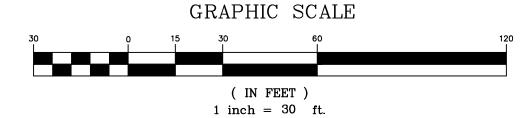
Tisbury, Masschusetts Vicinity of 19 Beach Road prepared for

Corporate Environmental Advisors, inc.

Scale: 1"=30' May 30, 2007

Sourati Engineering Group

P.□. Bo× 4458 107 Beach Road, Suite 202 Vineyard Haven, MA 02568 Phone (508) 693-9933 Fax (508) 693-4933





ADVISORS, INC.

Consultants — Engineers — Scientists 21 EAST MAIN STREET WESTBOROUGH, MA 01581

SCALE: AS SHOWN DR. BY: K. HAZEL/LKH 4/18/19 APP. BY: SEV JOB NO.: 5750-05

SITE REMEDIATION LAYOUT

DRAKE PETROLEUM COMPANY, INC.

FIGURE-2

19 BEACH ROAD

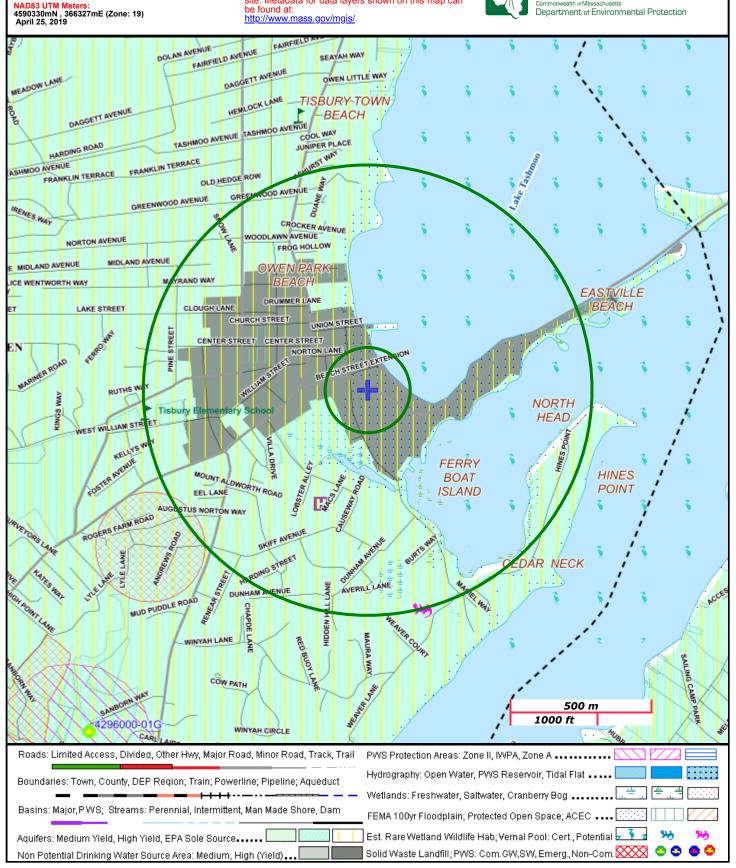
TISBURY, MA

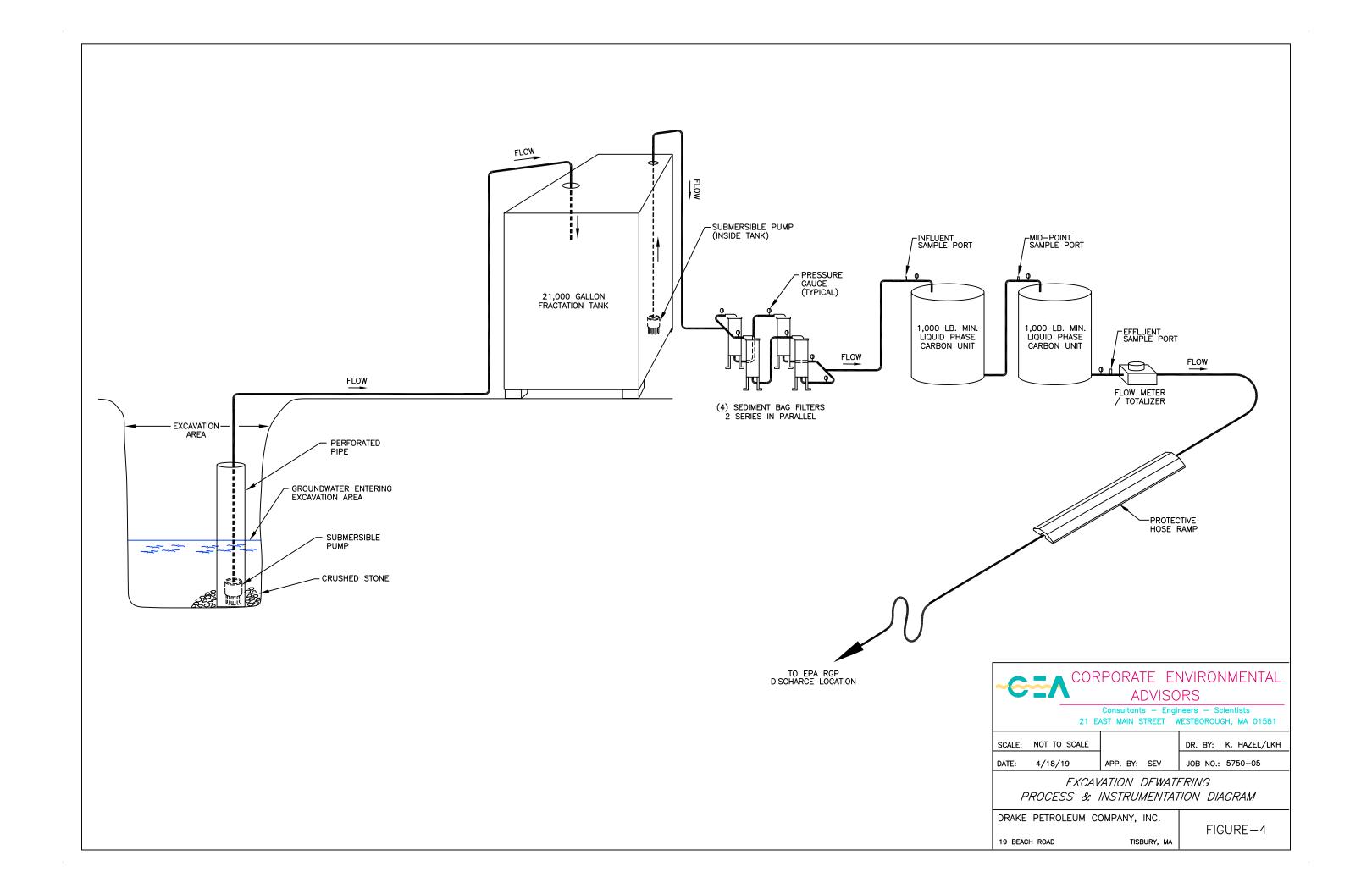
MassDEP - Bureau of Waste Site Cleanup Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

Site Information: VINEYARD HAVEN XTRAMART 19 BEACH RD TISBURY, MA 4-000013294

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at: http://www.mass.gov/mgis/







ATTACHMENT A

EPA Remediation General Permit (RGP)
Notice of Intent (NOI) Submittal



II. Suggested Format for the Remediation General Permit Notice of Intent (NOI)

A. General site information:

1. Name of site:	Site address: 19, 25 Beach Rd					
Vineyard Haven Xtramart	Street:					
	City: Tisbury		State: MA	Zip: 02568		
2. Site owner	Contact Person: Jason Frigon					
Drake Petroleum Company, Inc.	Telephone: 978-339-3545 Email: jfrigon@globalp.com					
	Mailing address: 800 South St Street: Suite 500					
Owner is (check one): ☐ Federal ☐ State/Tribal ☐ Private Other; if so, specify: Commercial	City: Waltham		State: MA	Zip: 02454		
3. Site operator, if different than owner	Contact Person: Adam Guaraldi					
Corporate Environmental Advisors (CEA)	Telephone: 508-809-0311	Email: agu	araldi@cea-inc.com			
	Mailing address: 21 East Main Street, Suite 201 Street:					
	City: Westborough		State: MA	Zip: 01581		
4. NPDES permit number assigned by EPA:	5. Other regulatory program(s) that apply to the site	(check all th	at apply):			
NPDES permit is (check all that apply: ■ RGP □ DGP □ CGP □ MSGP □ Individual NPDES permit □ Other; if so, specify:	■ MA Chapter 21e; list RTN(s): MassDEP RTN: 4-13294 NH Groundwater Management Permit or Groundwater Release Detection Permit:	□ CERCL □ UIC Pro □ POTW □ CWA S	ogram Pretreatment	t		

 \square Other; if so, specify:

В.	Receiving	water	inform	nation:

Has the operator attached a summary of influent

in accordance with the instruction in Appendix

VIII? (check one):

■ Yes □ No

sampling results as required in Part 4.2 of the RGP

B. Receiving water information:						
1. Name of receiving water(s):	Waterbody identification of receiving water	er(s): Classification of receiving water(s):				
Vineyard Haven Harbor	MA97-09	Vineyard Have	en Harbor is a Class SA surface water			
Receiving water is (check any that apply): □ Outstan	ding Resource Water □ Ocean Sanctuary □ terri	torial sea □ Wild and Scenic	River			
2. Has the operator attached a location map in accorda	ance with the instructions in B, above? (check one	e): ■ Yes □ No				
Are sensitive receptors present near the site? (check of If yes, specify:	ne): □ Yes ■ No					
3. Indicate if the receiving water(s) is listed in the Sta pollutants indicated. Also, indicate if a final TMDL is 4.6 of the RGP. Impairment cause and Pollutants include	available for any of the indicated pollutants. For	more information, contact the	e appropriate State as noted in Part			
4. Indicate the seven day-ten-year low flow (7Q10) of Appendix V for sites located in Massachusetts and Ap	f the receiving water determined in accordance w		N/A: Saltwater Receiving Water			
5. Indicate the requested dilution factor for the calcula accordance with the instructions in Appendix V for si			DF= 1:1 (All Saltwater per Appendix V)			
6. Has the operator received confirmation from the ap If yes, indicate date confirmation received: On 4-16-20	1 1	. ,	□ No			
7. Has the operator attached a summary of receiving v (check one): ■ Yes □ No See attached laboratory and	vater sampling results as required in Part 4.2 of the lytical report and receiving water summary table for surf	ne RGP in accordance with the ace water sample SW-1 collected	e instruction in Appendix VIII? d on 4/8/2019.			
C. Source water information:						
1. Source water(s) is (check any that apply):						
■ Contaminated groundwater	☐ Contaminated surface water	☐ The receiving water	☐ Potable water; if so, indicate municipality or origin:			

Has the operator attached a summary of influent

sampling results as required in Part 4.2 of the

RGP in accordance with the instruction in

Appendix VIII? (check one):

□ Yes □ No

☐ A surface water other

so, indicate waterbody:

than the receiving water; if

2. Source water contaminants: Historic releases of petroleum from the under	erground storage tank (UST) system at the fueling station.
a. For source waters that are contaminated groundwater or contaminated surface water, indicate are any contaminants present that are not included in	b. For a source water that is a surface water other than the receiving water, potable water or other, indicate any contaminants present at the maximum concentration in accordance
the RGP? (check one): ☐ Yes ■ No If yes, indicate the contaminant(s) and the maximum concentration present in accordance with the instructions in Appendix VIII.	with the instructions in Appendix VIII? (check one): □ Yes ■ No
3. Has the source water been previously chlorinated or otherwise contains resid	dual chlorine? (check one): □ Yes ■ No
D. Discharge information	
1.The discharge(s) is a(n) (check any that apply): □ Existing discharge ■ New	v discharge □ New source
Outfall(s):	Outfall location(s): (Latitude, Longitude)
Proposed discharge to a catch basin that drains through the municipal stormwater system and discharges to Vineyard Haven Sound surface was located east of the site. See attached figure for approximate outfall located statements.	
Discharges enter the receiving water(s) via (check any that apply): □ Direct dis	scharge to the receiving water Indirect discharge, if so, specify:
Discharge is proposed to a storm drain catch basin that connects to the	e municipal storm drain system and discharges to Vineyard Haven Harbor surface
☐ A private storm sewer system ■ A municipal storm sewer system If the discharge enters the receiving water via a private or municipal storm sew	On 4-3-2019, Mr. Ken Maciel of the Tisbury DPW Engineering Dept.
Has notification been provided to the owner of this system? (check one): ■ Ye	discharge to the storm drain system.
Has the operator has received permission from the owner to use such system for obtaining permission:	or discharges? (check one): ■ Yes □ No, if so, explain, with an estimated timeframe for
Has the operator attached a summary of any additional requirements the owner	
Provide the expected start and end dates of discharge(s) (month/year): Propos	ed for May 1, 2019 through December 31, 2019.
Indicate if the discharge is expected to occur over a duration of: less than 1:	
Has the operator attached a site plan in accordance with the instructions in D, a	bove? (check one): ■ Yes □ No

2. Activity Category: (check all that apply)	3. Contamination Type Category: (check all that apply)					
	a. If Activity Category I or II: (check all that apply)					
□ I – Petroleum-Related Site Remediation □ II – Non-Petroleum-Related Site Remediation ■ III – Contaminated Site Dewatering □ IV – Dewatering of Pipelines and Tanks □ V – Aquifer Pump Testing □ VI – Well Development/Rehabilitation □ VII – Collection Structure Dewatering/Remediation □ VIII – Dredge-Related Dewatering	GW-RGP in the	mpounds Organic Compounds				

4. Influent and Effluent Characteristics

	Known	Known		method	-	Influent		Effluent Limitations	
Parameter	or believed absent	or believed present	# of samples		Detection limit (µg/l)	Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
A. Inorganics									
Ammonia		✓	1	SM4500	0.2 mg/l	0.45 mg/l		Report mg/L	
Chloride		✓	1	300	2,000 ug/l	302,000 ug/l		Report μg/l	
Total Residual Chlorine	✓		1	SM4500	0.1 mg/l	<0.10 mg/l		0.2 mg/L	7.5 ug/l
Total Suspended Solids		✓	1	SM2540D	4 mg/L	425 mg/L		30 mg/L	30 mg/l
Antimony	✓		1	200.8	4 ug/L	<4 ug/L		206 μg/L	206 ug/l
Arsenic		✓	1	200.8	2 ug/L	12.6 ug/L		104 μg/L	104 ug/l
Cadmium	✓		1	200.8	1 ug/L	<1 ug/L		10.2 μg/L	10.2 ug/l
Chromium III		✓	1	6010/7196	0.018 ug/l	0.039 ug/l		323 μg/L	323 ug/L
Chromium VI	✓		1	7196A	0.010 ug/l	<0.010 ug/l		323 μg/L	323 ug/L
Copper		✓	1	200.8	8 ug/l	8.12 ug/l		242 μg/L	3.7 ug/l
Iron		✓	1	200.7	400 ug/l	39,400 ug/l		5,000 μg/L	5,000 ug/l
Lead		✓	1	200.8	1 ug/l	82.2 ug/l		160 μg/L	8.5 ug/l
Mercury	✓		1	245.1	0.2 ug/l	<0.2 ug/l		0.739 μg/L	0.739 ug/l
Nickel		✓	1	200.8	8 ug/l	18.5 ug/l		1,450 μg/L	8.3 ug/l
Selenium	✓		1	200.8	2 ug/l	<2 ug/l		235.8 μg/L	235.8 ug/l
Silver	✓		1	200.8	4 ug/l	<4 ug/l		35.1 μg/L	35.1 ug/l
Zinc		✓	1	200.8	80 ug/l	449 ug/l		420 μg/L	86 ug/l
Cyanide	✓		1	335.4	0.010 mg/l	<0.010 mg/l		178 mg/L	178 ug/l
B. Non-Halogenated VOC	s								
Total BTEX		✓	1	624	5 ug/l	<5 ug/l		100 μg/L	
Benzene		✓						5.0 μg/L	
1,4 Dioxane	✓			624	500 ug/l	<500 ug/l		200 μg/L	
Acetone	✓							7.97 mg/L	
Phenol	✓		1	625.1	5 ug/l	<5 ug/l		1,080 µg/L	1,080 ug/l

	Known	Known	# of samples	Test method (#)	Detection limit (µg/l)	Influent		Effluent Limitations	
Parameter	or believed absent	or believed present				Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
C. Halogenated VOCs									
Carbon Tetrachloride	✓		1	624	1 ug/l	<1 ug/l		4.4 μg/L	4.4 ug/l
1,2 Dichlorobenzene	✓		1	624	1 ug/l	<1 ug/l		600 μg/L	
1,3 Dichlorobenzene	✓		1	624	1 ug/l	<lug l<="" td=""><td></td><td>320 μg/L</td><td></td></lug>		320 μg/L	
1,4 Dichlorobenzene	✓		1	624	1 ug/l	<1 ug/l		5.0 μg/L	
Total dichlorobenzene	✓		1	624	3 ug/l	<3 ug/l		763 μg/L in NH	
1,1 Dichloroethane	✓		1	624	1 ug/l	<1 ug/l		70 μg/L	
1,2 Dichloroethane	✓		1	624	1 ug/l	<1 ug/l		5.0 μg/L	
1,1 Dichloroethylene	✓		1	624	1 ug/l	<1 ug/l		3.2 μg/L	
Ethylene Dibromide	✓		1	504.1	0.02 ug/l	<0.02 ug/l		0.05 μg/L	
Methylene Chloride	✓		1	624	2 ug/l	<2 ug/l		4.6 μg/L	
1,1,1 Trichloroethane	✓		1	624	1 ug/l	<1 ug/l		200 μg/L	
1,1,2 Trichloroethane	✓		1	624	1 ug/l	<1 ug/l		5.0 μg/L	
Trichloroethylene	✓		1	624	1 ug/l	<1 ug/l		5.0 μg/L	
Tetrachloroethylene	✓		1	624	1 ug/l	<1 ug/l		5.0 μg/L	5.0 ug/l
cis-1,2 Dichloroethylene	✓		1	624	1 ug/l	<1 ug/l		70 μg/L	
Vinyl Chloride	✓		1	624	1 ug/l	<1 ug/l		2.0 μg/L	
D. Non-Halogenated SVO	Cs								
Total Phthalates	✓		1	625	7 ug/l	<7 ug/l		190 μg/L	N/A for MA
Diethylhexyl phthalate	✓		1	625	2 ug/l	<2 ug/l		101 μg/L	101 ug/l
Total Group I PAHs		✓	1	625	0.7 ug/l	0.335 ug/l		1.0 μg/L	
Benzo(a)anthracene		✓	1	625	0.1 ug/l	0.12 ug/l			0.0038 ug/l
Benzo(a)pyrene		✓	1	625	0.1 ug/l	0.0551 ug/l		1	0.0038 ug/l
Benzo(b)fluoranthene		✓	1	625	0.1 ug/l	0.0559 ug/l			0.0038 ug/l
Benzo(k)fluoranthene		✓	1	625	0.1 ug/l	0.0319 ug/l		As Total PAHs	0.0038 ug/l
Chrysene		✓	1	625	0.1 ug/l	0.0366 ug/l			0.0038 ug/l
Dibenzo(a,h)anthracene		✓	1	625	0.1 ug/l	<0.01 ug/l			1.0 ug/l
Indeno(1,2,3-cd)pyrene		✓	1	625	0.1 ug/l	0.0355 ug/l			0.0038 ug/l

	Known	wn Known				Influent		Effluent Limitations	
Parameter	or believed absent	or believed present	# of samples	Test method (#)	Detection limit (µg/l)	Daily maximum (µg/l)	Daily average (µg/l)	TBEL	WQBEL
Total Group II PAHs		✓	1	625	0.9 ug/l	3.9682 ug/l		100 μg/L	
Naphthalene		✓	1	625	0.1 ug/l	3.46 ug/l		20 μg/L	
E. Halogenated SVOCs									
Total PCBs	✓		1	608	0.25 ug/l	<0.25 ug/l		0.000064 μg/L	
Pentachlorophenol	✓		1	625	5 ug/l	<5 ug/l		1.0 μg/L	
F. Fuels Parameters Total Petroleum Hydrocarbons		✓	1	1664A	5 mg/l	<5 mg/l		5.0 mg/L	
Ethanol	√		1	524.2	0.1 mg/l	<0.1 mg/l		Report mg/L	
Methyl-tert-Butyl Ether	<u> </u>	√	1	524.2	1 ug/l	4.5 ug/l		70 μg/L	70 ug/l
tert-Butyl Alcohol	✓		1	524.2	10 ug/l	<10 ug/l		120 μg/L in MA 40 μg/L in NH	
tert-Amyl Methyl Ether	✓		1	524.2	2 ug/l	<2 ug/l		90 μg/L in MA 140 μg/L in NH	
Other (i.e., pH, temperature Hardness	e, hardness,	salinity, LC	S ₅₀ , addition	nal pollutar SM2340	ts present);	if so, specify:			
field measured pH		✓	1	Field	7.9 SU				
field measured Temperature		✓	1	Field	11 deg. C				

E. Treatment system information

1. Indicate the type(s) of treatment that will be applied to effluent prior to discharge: (check all that apply)	
□ Adsorption/Absorption □ Advanced Oxidation Processes □ Air Stripping ■ Granulated Activated Carbon ("GAC")/Liquid Phase Carbon Adsorption	
☐ Ion Exchange ☐ Precipitation/Coagulation/Flocculation ■ Separation/Filtration ☐ Other; if so, specify:	
See below written description of the proposed treatment system.	
2. Provide a written description of all treatment system(s) or processes that will be applied to the effluent prior to discharge.	
An electric submersible pump will pump groundwater from a temporary excavation dewatering sump to a 21,000 gallon fractionation (frac) tank. Recovered groundwater through bag filters to remove particulates and two 2,000-pound minimum liquid phase granular activated carbon (LGAC) units plumbed in series. The treated groundwater discharged into a storm drain catch basin located approximately 125 ft from the site. The storm drain discharges to the Vineyard Haven Harbor saltwater surface water local approximately 450 ft to the east.	r shall be
Identify each major treatment component (check any that apply):	
■ Fractionation tanks□ Equalization tank □ Oil/water separator □ Mechanical filter □ Media filter	
☐ Chemical feed tank ☐ Air stripping unit ■ Bag filter ■ Other; if so, specify: The proposed treatment system will also include liquid phase granular activated caunits and a flow meter/totalizer.	arbon (LGAC)
Indicate if either of the following will occur (check any that apply):	
□ Chlorination □ De-chlorination	
3. Provide the design flow capacity in gallons per minute (gpm) of the most limiting component.	
Indicate the most limiting component: Liquid phase granular activated carbon (LGAC) design flow rate of 75 gallons per minute (gpm) & maximum rate 100 gpm.	
Is use of a flow meter feasible? (check one): ■ Yes □ No, if so, provide justification:	
Provide the proposed maximum effluent flow in gpm.	100
Provide the average effluent flow in gpm.	50
If Activity Category IV applies, indicate the estimated total volume of water that will be discharged:	
4. Has the operator attached a schematic of flow in accordance with the instructions in E, above? (check one): ■ Yes □ No	

F. Chemical and additive information

□ Algaecides/biocides □ Antifoams □ Coagulants □ Corrosion/scale inhibitors □ Disinfectants □ Flocculants □ Neutralizing agents □ Oxidants □ Oxygen □ seavengers □ pH conditioners □ Bioremedial agents, including microbes □ Chlorine or chemicals containing chlorine □ Other; if so, specify: Not applicable 2. Provide the following information for each chemical/additive, using attachments, if necessary: a. Product name, chemical formula, and manufacturer of the chemical/additive; b. Purpose or use of the chemical/additive or remedial agent; c. Material Safety Data Sheet (MSDS) and Chemical Abstracts Service (CAS) Registry number for each chemical/additive; d. The frequency (hourly, daily, etc.), duration (hours, days), quantity (maximum and average), and method of application for the chemical/additive; e. Any material compatibility risks for storage and/or use including the control measures used to minimize such risks; and f. If available, the evendor's reported aquatic toxicity (NOAEL and/or LC50 in percent for aquatic organism(s)). 3. Has the operator attached an explanation which demonstrates that the addition of such chemicals/additives may be authorized under this general permit in accordance with the instructions in F, above? (check one): □ ves □ No; if no, has the operator attached data that demonstrates each of the 126 priority pollutants in CWA Section 307(a) and 40 CFR Part 423.15(j)(1) are non-detect in discharges with the addition of the proposed chemical/additive? (check one): □ Yes □ No G. Endangered Species Act eligibility determination 1. Indicate under which criterion the discharge(s) is eligible for coverage under this general permit: □ FWS Criterion A: No endangered or threatened species or critical habitat are in proximity to the discharges or related activities or come in contact with the "action area". ■ FWS Criterion B: Formal or informal consultation with the FWS under section 7 of the ESA resulted in either a no jeopardy opinion (formal consultation) or a written concurrence by FWS o	1. Indicate the type(s) of chemical or additive that will be applied to effluent prior to discharge or that may otherwise be present in the discharge(s): (check all that apply)
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habitat have been evaluated. Based on those evaluations, a determination is made by EPA, or by the operator and affirmed by EPA, that the discharges and related activities will have "no effect" on any federally threatened or endangered listed species or designated critical habitat under the jurisdiction of the	
FWS. This determination was made by: (check one) \square the operator \square EPA \square Other; if so, specify:	habitat have been evaluated. Based on those evaluations, a determination is made by EPA, or by the operator and affirmed by EPA, that the discharges and
	FWS. This determination was made by: (check one) \square the operator \square EPA \square Other; if so, specify:

■ NMFS Criterion: A determination made by EPA is affirmed by the operator that the discharges and related activities will have "no effect" or are "not likely to adversely affect" any federally threatened or endangered listed species or critical habitat under the jurisdiction of NMFS and will not result in any take of
listed species. Has the operator previously completed consultation with NMFS? (check one): Yes \(\sigma \) Yes \(\sigma \) No See Cover Letter for review of NMFS Consultation
2. Has the operator attached supporting documentation of ESA eligibility in accordance with the instructions in Appendix I, and G, above? (check one): ■ Yes □ No
Does the supporting documentation include any written concurrence or finding provided by the Services? (check one): Yes No; if yes, attach.
H. National Historic Preservation Act eligibility determination
1. Indicate under which criterion the discharge(s) is eligible for coverage under this general permit:
■ Criterion A: No historic properties are present. The discharges and discharge-related activities (e.g., BMPs) do not have the potential to cause effects on historic properties.
□ Criterion B: Historic properties are present. Discharges and discharge related activities do not have the potential to cause effects on historic properties.
□ Criterion C : Historic properties are present. The discharges and discharge-related activities have the potential to have an effect or will have an adverse effect on historic properties.
2. Has the operator attached supporting documentation of NHPA eligibility in accordance with the instructions in H, above? (check one): ☐ Yes ■ No
Does the supporting documentation include any written agreement with the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Officer (TPHO), or other tribal representative that outlines measures the operator will carry out to mitigate or prevent any adverse effects on historic properties? (check one): Yes No
I. Supplemental information
Describe any supplemental information being provided with the NOI. Include attachments if required or otherwise necessary.
Please see attached figures, data tables, laboratory analytical reports and supporting documentation for supplemental information.
Has the operator attached data, including any laboratory case narrative and chain of custody used to support the application? (check one): ■ Yes □ No
Has the operator attached the certification requirement for the Best Management Practices Plan (BMPP)? (check one): ☐ Yes ■ No
According to EPA a copy of a Best Management Practices Plan (BMPP) only needs to be onsite and not included in the NOI submittal to EPA.

J. Certification requirement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in a that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and lead to personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are information, including the possibility of fine and imprisonment for knowing violations.	persons who manage the system, or those pelief, true, accurate, and complete. I have
A Best Management Practices Plan (BMPP) has been prepared and BMPP certification statement:	a copy will be maintained on-site.
Notification provided to the appropriate State, including a copy of this NOI, if required.	Check one: Yes ■ No □
Notification provided to the municipality in which the discharge is located, including a copy of this NOI, if requested. The Tisbury DPW was informed of proposed discharge to storm drain system on 4-3-2019.	Check one: Yes ■ No □
Notification provided to the owner of a private or municipal storm sewer system, if such system is used for site discharges, including a copy of this NOI, if requested.	Check one: Yes ■ No □ NA □
Permission obtained from the owner of a private or municipal storm sewer system, if such system is used for site No Add	
discharges. If yes, attach additional conditions. If no, attach explanation and timeframe for obtaining permission.	Check one: Yes ■ No □ NA □
Notification provided to the owner/operator of the area associated with activities covered by an additional discharge	
permit(s). Additional discharge permit is (check one): □ RGP □ DGP □ CGP □ MSGP □ Individual NPDES permit	Check one: Yes □ No □ NA ■
☐ Other; if so, specify:	
Signature: Da	te: 5/3/2019
Print Name and Title: Jason Frigon. Environmental Manager	

ATTACHMENT B

Laboratory Analytical Report





Dayton, NJ

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report



Drake Petroleum Company, Inc.

CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

5750-05 10017

SGS Job Number: JC85988

Sampling Date: 04/08/19

Report to:

Drake Petroleum Company, Inc. 221 Quinebaug Road PO Box 866 North Grosvenordale, CT 06255 SVanderSea@CEA-INC.com; aguaraldi@cea-inc.com

ATTN: Scott VanderSea

Total number of pages in report: 68

TNI TABORATORY

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Brian McGuire General Manager

Client Service contact: Victoria Pushkova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (ANAB L2248)

This report shall not be reproduced, except in its entirety, without the written approval of SGS. Test results relate only to samples analyzed.

SGS North America Inc. • 2235 Route 130 • Dayton, NJ 08810 • tel: 732-329-0200 • fax: 732-329-3499

SGS



May 01, 2019

Mr. Scott VanderSea Drake Petroleum Company, Inc. 221 Quinebaug Road PO Box 866 North Grosvenordale, CT 06255

Re: SGS North America – Dayton, NJ Jobs # JC85988 – Reissues

Dear Mr. VanderSea,

The final reports for SGS jobs number JC85988 have been edited to reflect corrections to the final results. These edits have been incorporated into the revised report which is attached.

Specifically, additional Metal element and General Chemistry data has been reported for sample JC85988-2R, -2T to meet Client requirement. The attached revised report incorporates these revisions.

Please contact me at 732-329-0200 if I can be of further assistance in this matter.

Sincerely,

Report Department

SGS North America Inc.



CONTINUOUS SERVICE IMPROVEMENT!

Our goal is to continuously improve our service to you. Please share your ideas about how we can serve you better at EHS.US.CustomerCare@sgs.com. Your feedback is appreciated!

SGS

SGS North America Inc. Mid-Atlantic 2235 US Highway 130 Dayton, NJ 08810, USA t+1 (0)732 329 0200 www.sgs.com

Member of the SGS Group (SGS SA)

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-1-

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Sample Summary

Drake Petroleum Company, Inc.

JC85988 Job No:

CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA Project No: 5750-05 10017

Sample Number	Collected Date	Time By	Received	Matr Code		Client Sample ID
JC85988-1	04/08/19	10:45 MH	04/08/19	AQ	Ground Water	RW-RGP
JC85988-2	04/08/19	11:15 MH	04/08/19	AQ	Surface Water	SW-1
JC85988-2R	04/08/19	11:15 MH	04/08/19	AQ	Surface Water	SW-1
JC85988-2T	04/08/19	11:15 MH	04/08/19	AQ	Surface Water	SW-1

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Drake Petroleum Company, Inc. Job No JC85988

Site: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA Report Date 5/1/2019 12:03:12 PM

On 04/08/2019, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 1.7 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JC85988 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

MS Volatiles By Method SW846 8260C

Matrix: AQ Batch ID: V2E6724

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

MS Semi-volatiles By Method EPA 625 BY SIM

Matrix: AQ Batch ID: OP19695A

- All samples were extracted within the recommended method holding time.
- Sample(s) JC85988-1 have compound(s) reported with a "B" qualifier, indicating analyte is found in the associated method blank. Sample reextracted outside the holding time for confirmation due to method blank contamination.
- JC85988-1: Sample reextracted outside the holding time for confirmation due to method blank contamination.

Matrix: AQ Batch ID: OP19808A

- The data for EPA 625 BY SIM meets quality control requirements.
- JC85988-1: Sample extracted outside the holding time. Confirmation run.
- JC85988-1 for 2-Fluorobiphenyl: Outside of in house control limits.

MS Semi-volatiles By Method EPA 625.1

Matrix: AO Batch ID: OP19695

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- OP19695-BSD for Diethyl phthalate: Outside of in house control limits.

GC Volatiles By Method EPA 504.1

Matrix: AO Batch ID: OP19705

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

GC/LC Semi-volatiles By Method EPA 608.3

Matrix: AQ Batch ID: OP19706

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wednesday, May 01, 2019

Page 1 of 4

Metals Analysis By Method EPA 200.8

Matrix: AQ Batch ID: MP14085

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix: AQ Batch ID: MP14584

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JC85988-2R for Arsenic: Elevated detection limit due to dilution required for matrix interference.
- JC85988-2R for Silver: Elevated detection limit due to dilution required for matrix interference.
- JC85988-2R for Selenium: Elevated detection limit due to dilution required for matrix interference.
- JC85988-2R for Lead: Elevated detection limit due to dilution required for matrix interference.
- JC85988-2R for Cadmium: Elevated detection limit due to dilution required for matrix interference.
- JC85988-2R for Antimony: Elevated detection limit due to dilution required for matrix interference.
- JC85988-2R for Zinc: Elevated detection limit due to dilution required for matrix interference.
- JC85988-2R for Iron: Elevated detection limit due to dilution required for matrix interference.
- JC85988-2R for Copper: Elevated detection limit due to dilution required for matrix interference.
- JC85988-2R for Chromium: Elevated detection limit due to dilution required for matrix interference.

Metals Analysis By Method EPA 245.1

Matrix: AQ Batch ID: MP14149

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix: AO Batch ID: MP14647

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 1664A

Matrix: AQ Batch ID: GP20573

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ Batch ID: GP20624

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method EPA 335.4/LACHAT

Matrix: AQ Batch ID: GP20587

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

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SGS

General Chemistry By Method SM2340 C-11

Matrix: AQ Batch ID: GN94164

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM2520 B-11

Matrix: AQ

Batch ID: GN94575

The data for SM2520 B-11 meets quality control requirements.

General Chemistry By Method SM2540 D-11

Matrix: AO

Batch ID: GN94079

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM4500CL F-11

Matrix: AO

Batch ID: GN93905

- All method blanks for this batch meet method specific criteria.
- JC85988-1 for Total Residual Chlorine: Field analysis required. Received out of hold time and analyzed by request.

General Chemistry By Method SM4500H+ B-11

Matrix: AO

Batch ID: R177534

- The data for SM4500H+ B-11 meets quality control requirements. JC85988-2 for pH: Sample received out of holding time for pH analysis.

General Chemistry By Method SM4500NH3 H-11LACHAT

Matrix: AQ

Batch ID: GP20553

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SW846 6010/7196A M

Matrix: AQ

Batch ID: R177535

- The data for SW846 6010/7196A M meets quality control requirements.
- JC85988-1 for Chromium, Trivalent: Calculated as: (Chromium) (Chromium, Hexavalent)

General Chemistry By Method SW846 7196A

Matrix: AQ

Batch ID: GN93851

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Field Data By Method FIELD

Matrix: AQ

Batch ID: R177843

The data for FIELD meets quality control requirements.

Wednesday, May 01, 2019

Page 3 of 4

Field Data By Method SM2550 B-10

l	Matrix: AQ	Batch ID: R177534	
	The data for SM2550 B-10 meets	quality control requirements.	
Γ	Matrix: AQ	Batch ID: R177843	

The data for SM2550 B-10 meets quality control requirements.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits Job Number: JC85988

Account: Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

Collected: 04/08/19

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JC85988-1	RW-RGP					
Methyl Tert But	yl Ether	4.5	1.0	0.51	ug/l	SW846 8260C
Acenaphthene a		0.0429 J	0.10	0.013	ug/l	EPA 625 BY SIM
Acenaphthylene	a	0.0180 J	0.10	0.012	ug/l	EPA 625 BY SIM
Anthracene a		0.0350 J	0.10	0.013	ug/l	EPA 625 BY SIM
Benzo(a)anthrac		0.120 B	0.10	0.019	ug/l	EPA 625 BY SIM
Benzo(a)pyrene		0.0551 JB	0.10	0.030	ug/l	EPA 625 BY SIM
Benzo(b)fluoran		0.0559 JB	0.10	0.021	ug/l	EPA 625 BY SIM
Benzo(g,h,i)pery		0.0471 JB	0.10	0.026	ug/l	EPA 625 BY SIM
Benzo(k)fluoran	thene ^a	0.0319 JB	0.10	0.019	ug/l	EPA 625 BY SIM
Chrysene ^a		0.0366 JB	0.10	0.015	ug/l	EPA 625 BY SIM
Fluoranthene ^a		0.137 B	0.10	0.011	ug/l	EPA 625 BY SIM
Fluorene a		0.0659 J	0.10	0.027	ug/l	EPA 625 BY SIM
Indeno $(1,2,3-cd)$)pyrene ^a	0.0355 JB	0.10	0.031	ug/l	EPA 625 BY SIM
Naphthalene a		3.46	0.10	0.013	ug/l	EPA 625 BY SIM
Phenanthrene ^a		0.0403 JB	0.10	0.016	ug/l	EPA 625 BY SIM
Pyrene ^a		0.122 B	0.10	0.013	ug/l	EPA 625 BY SIM
Antimony		2.0 B	4.0	1.8	ug/l	EPA 200.8
Arsenic		12.6	2.0	0.51	ug/l	EPA 200.8
Cadmium		0.35 B	1.0	0.20	ug/l	EPA 200.8
Chromium		38.9	8.0	0.66	ug/l	EPA 200.8
Copper		81.2	8.0	4.2	ug/l	EPA 200.8
Iron		39400	400	98	ug/l	EPA 200.8
Lead		82.2	1.0	0.29	ug/l	EPA 200.8
Mercury		0.11 B	0.20	0.092	ug/l	EPA 245.1
Nickel		18.5	8.0	2.5	ug/l	EPA 200.8
Zinc		449	80	29	ug/l	EPA 200.8
Chloride		302	2.0		mg/l	EPA 300/SW846 9056A
Chromium, Triv		0.039	0.018		mg/l	SW846 6010/7196A M
Hardness, Total		230	4.0		mg/l	SM2340 C-11
Nitrogen, Ammo		0.45	0.20		mg/l	SM4500NH3 H-11LACHAT
Solids, Total Sus	spended	425	4.0		mg/l	SM2540 D-11
JC85988-2	SW-1					
Hardness, Total	as CaCO3	4830	20		mg/l	SM2340 C-11
pH ^c	us cacos	7.99	20		su	SM4500H+ B-11
Temperature (Fi	eld)	8			Deg. C	SM2550 B-10
JC85988-2R	SW-1					
Iron d		762 B	1300	310	ug/l	EPA 200.8
Lead d		2.9	2.5	0.71	ug/l	EPA 200.8
					C	

Summary of Hits Job Number: JC85988

Account: Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

Collected: 04/08/19

Lab Sample ID Client Sample ID Analyte	Result/ Qual	RL	MDL	Units	Method
JC85988-2T SW-1					
Specific Conductivity Pressure, Atmospheric Temperature (Field)	46.4 29.7 8	7.5		umhos/cm mmHg Deg. C	SM2510 B-11/SW 9050A FIELD SM2550 B-10

- (a) Sample reextracted outside the holding time for confirmation due to method blank contamination.
- (b) Calculated as: (Chromium) (Chromium, Hexavalent)
- (c) Sample received out of holding time for pH analysis.
- (d) Elevated detection limit due to dilution required for matrix interference.



Dayton, NJ

Section 4

Sample Results	
Report of Analysis	

Page 1 of 1

Report of Analysis

Client Sample ID: RW-RGP Lab Sample ID: JC85988-1 **Date Sampled:** 04/08/19 Matrix: AQ - Ground Water **Date Received:** 04/08/19 Method: SW846 8260C **Percent Solids:** n/a

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2E151813.D	1	04/12/19 15:19	RS	n/a	n/a	V2E6724
Run #2							

	Purge Volume	
Run #1	5.0 ml	
Run #2		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
64-17-5	Ethanol	ND	100	89	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l	
1634-04-4	Methyl Tert Butyl Ether	4.5	1.0	0.51	ug/l	
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l	
75-65-0	Tert Butyl Alcohol	ND	10	5.8	ug/l	
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.47	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
1868-53-7	Dibromofluoromethane	104%		80-1	20%	
17060-07-0	1,2-Dichloroethane-D4	109%		81-1	24%	
2037-26-5	Toluene-D8	101%		80-1		
460-00-4	4-Bromofluorobenzene	101%		80-1	20%	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value

RL = Reporting Limit

E = Indicates value exceeds calibration range

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



Page 1 of 1

_

Report of Analysis

 Client Sample ID:
 RW-RGP

 Lab Sample ID:
 JC85988-1
 Date Sampled:
 04/08/19

 Matrix:
 AQ - Ground Water
 Date Received:
 04/08/19

 Method:
 EPA 625.1
 EPA 625
 Percent Solids:
 n/a

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

	File ID	DF	Analyzed	$\mathbf{B}\mathbf{y}$	Prep Date	Prep Batch	Analytical Batch	ĺ
Run #1	F183827.D	1	04/12/19 19:46	YC	04/12/19 05:30	OP19695	EF7897	ĺ
Run #2								ĺ

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
367-12-4	2-Fluorophenol	47%		10-1	10%	
4165-62-2	Phenol-d5	32%		10-1	10%	
118-79-6	2,4,6-Tribromophenol	84%		35-1	47%	
4165-60-0	Nitrobenzene-d5	94%		32-1	32%	
321-60-8	2-Fluorobiphenyl	76%		40-1	17%	
1718-51-0	Terphenyl-d14	106%		33-1	26%	
	• •					

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



4

Report of Analysis

 Client Sample ID:
 RW-RGP

 Lab Sample ID:
 JC85988-1
 Date Sampled:
 04/08/19

 Matrix:
 AQ - Ground Water
 Date Received:
 04/08/19

 Method:
 EPA 625 BY SIM EPA 625
 Percent Solids:
 n/a

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 a	4M83204.D	1	04/12/19 21:32	CC	04/12/19 05:30	OP19695A	E4M3877
Run #2 b	4M83328.D	1	04/18/19 16:54	CC	04/18/19 06:00	OP19808A	E4M3883

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	990 ml	1.0 ml

BN PAH Special LIst by SIM

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.0429	0.10	0.013	ug/l	J
208-96-8	Acenaphthylene	0.0180	0.10	0.012	ug/l	J
120-12-7	Anthracene	0.0350	0.10	0.013	ug/l	J
56-55-3	Benzo(a)anthracene	0.120	0.10	0.019	ug/l	В
50-32-8	Benzo(a)pyrene	0.0551	0.10	0.030	ug/l	JB
205-99-2	Benzo(b)fluoranthene	0.0559	0.10	0.021	ug/l	JB
191-24-2	Benzo(g,h,i)perylene	0.0471	0.10	0.026	ug/l	JB
207-08-9	Benzo(k)fluoranthene	0.0319	0.10	0.019	ug/l	JB
218-01-9	Chrysene	0.0366	0.10	0.015	ug/l	JB
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.035	ug/l	
206-44-0	Fluoranthene	0.137	0.10	0.011	ug/l	В
86-73-7	Fluorene	0.0659	0.10	0.027	ug/l	J
193-39-5	Indeno(1,2,3-cd)pyrene	0.0355	0.10	0.031	ug/l	JB
91-20-3	Naphthalene	3.46	0.10	0.013	ug/l	
85-01-8	Phenanthrene	0.0403	0.10	0.016	ug/l	JB
129-00-0	Pyrene	0.122	0.10	0.013	ug/l	В
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
4165-60-0	Nitrobenzene-d5	97%	94%	21-1	46%	
321-60-8	2-Fluorobiphenyl	86%	157% ^c	12-1	12-135%	
1718-51-0	Terphenyl-d14	86%	67%	10-1	45%	

- (a) Sample reextracted outside the holding time for confirmation due to method blank contamination.
- (b) Sample extracted outside the holding time. Confirmation run.
- (c) Outside of in house control limits.

ND = Not detected MDL = Method Detection Limit J = Indicat

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

 $B = \ Indicates \ analyte \ found \ in \ associated \ method \ blank$

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RW-RGP Lab Sample ID: JC85988-1

Date Sampled: 04/08/19 **Matrix:** AQ - Ground Water Date Received: 04/08/19 Method: EPA 504.1 EPA 504 **Percent Solids:** n/a

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

File ID DF **Analytical Batch** Analyzed By **Prep Date Prep Batch** Run #1 7G32045.D 1 04/15/19 16:52 VDT 04/15/19 12:00 OP19705 G7G1131

Run #2

Final Volume Initial Volume Run #1 2.0 ml 35 ml

2-Bromo-1-chloropropane

Run #2

3017-95-6

CAS No. Compound RL**MDL** Units Result Q 106-93-4 1,2-Dibromoethane ND 0.020 0.0062ug/1 CAS No. **Surrogate Recoveries** Run#1 Run# 2 Limits 3017-95-6 70-130% 2-Bromo-1-chloropropane 110%

108%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value

RL = Reporting Limit

E = Indicates value exceeds calibration range

70-130%

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

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Report of Analysis

 Client Sample ID:
 RW-RGP

 Lab Sample ID:
 JC85988-1
 Date Sampled:
 04/08/19

 Matrix:
 AQ - Ground Water
 Date Received:
 04/08/19

 Method:
 EPA 608.3
 EPA 608
 Percent Solids:
 n/a

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch	
Run #1	5G87517.D	1	04/12/19 18:03	SK	04/12/19 08:00	OP19706	G5G2105	
Run #2								

	Initial Volume	Final Volume
Run #1	1000 ml	5.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2 11104-28-2 11141-16-5 53469-21-9	Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242	ND ND ND ND	0.25 0.25 0.25 0.25	0.098 0.21 0.13 0.11	ug/l ug/l ug/l	
12672-29-6 11097-69-1 11096-82-5	Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	ND ND ND	0.25 0.25 0.25 0.25	0.11 0.063 0.21 0.076	ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
877-09-8 877-09-8 2051-24-3 2051-24-3	Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl Decachlorobiphenyl	68% 72% 76% 81%		10-15 10-15 10-13 10-13	59% 35%	

ND = Not detected MDL = Method Detection Limit J = Indicates an est

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: RW-RGP Lab Sample ID: JC85988-1

 Lab Sample ID:
 JC85988-1
 Date Sampled:
 04/08/19

 Matrix:
 AQ - Ground Water
 Date Received:
 04/08/19

 Percent Solids:
 n/a

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	2.0 B	4.0	1.8	ug/l	1	04/11/19	04/12/19 zc	EPA 200.8 ²	EPA 200.8 ³
Arsenic	12.6	2.0	0.51	ug/l	1	04/11/19	04/12/19 zc	EPA 200.8 ²	EPA 200.8 ³
Cadmium	0.35 B	1.0	0.20	ug/l	1	04/11/19	04/12/19 zc	EPA 200.8 ²	EPA 200.8 ³
Chromium	38.9	8.0	0.66	ug/l	1	04/11/19	04/12/19 zc	EPA 200.8 ²	EPA 200.8 ³
Copper	81.2	8.0	4.2	ug/l	1	04/11/19	04/12/19 zc	EPA 200.8 ²	EPA 200.8 ³
Iron	39400	400	98	ug/l	4	04/11/19	04/12/19 zc	EPA 200.8 ²	EPA 200.8 ³
Lead	82.2	1.0	0.29	ug/l	1	04/11/19	04/12/19 zc	EPA 200.8 ²	EPA 200.8 ³
Mercury	0.11 B	0.20	0.092	ug/l	1	04/12/19	04/12/19 EAI	EPA 245.1 ¹	EPA 245.1 ⁴
Nickel	18.5	8.0	2.5	ug/l	1	04/11/19	04/12/19 zc	EPA 200.8 ²	EPA 200.8 ³
Selenium	1.3 U	2.0	1.3	ug/l	1	04/11/19	04/12/19 zc	EPA 200.8 ²	EPA 200.8 ³
Silver	0.13 U	4.0	0.13	ug/l	1	04/11/19	04/12/19 zc	EPA 200.8 ²	EPA 200.8 ³
Zinc	449	80	29	ug/l	4	04/11/19	04/12/19 zc	EPA 200.8 ²	EPA 200.8 ³

(1) Instrument QC Batch: MA46493(2) Instrument QC Batch: MA46497(3) Prep QC Batch: MP14085(4) Prep QC Batch: MP14149

RL = Reporting Limit U = Indicates a result < MDL

MDL = Method Detection Limit B = Indicates a result > = MDL but < RL



Report of Analysis

Client Sample ID: RW-RGP Lab Sample ID: JC85988-1

 Lab Sample ID:
 JC85988-1
 Date Sampled:
 04/08/19

 Matrix:
 AQ - Ground Water
 Date Received:
 04/08/19

 Percent Solids:
 n/a

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
	202	• •	/4		0.4/4.5/4.0.00.00		
Chloride	302	2.0	mg/l	1	04/16/19 08:09	NV	EPA 300/SW846 9056A
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	04/09/19 09:44	RI	SW846 7196A
Chromium, Trivalent ^a	0.039	0.018	mg/l	1	04/12/19 14:14	ZC	SW846 6010/7196A M
Cyanide	< 0.010	0.010	mg/l	1	04/13/19 11:39	BM	EPA 335.4/LACHAT
HEM Petroleum Hydrocarbon	s < 5.0	5.0	mg/l	1	04/12/19 21:45	TM	EPA 1664A
Hardness, Total as CaCO3	230	4.0	mg/l	1	04/16/19	MP	SM2340 C-11
Nitrogen, Ammonia	0.45	0.20	mg/l	1	04/11/19 16:34	KI	SM4500NH3 H-11LACHAT
Solids, Total Suspended	425	4.0	mg/l	1	04/13/19 10:14	RC	SM2540 D-11
Total Residual Chlorine b	< 0.10	0.10	mg/l	1	04/09/19 23:57	MO	SM4500CL F-11

⁽a) Calculated as: (Chromium) - (Chromium, Hexavalent)

⁽b) Field analysis required. Received out of hold time and analyzed by request.

4

Report of Analysis

Client Sample ID: SW-1 Lab Sample ID: JC85988-2

Lab Sample ID:JC85988-2Date Sampled:04/08/19Matrix:AQ - Surface WaterDate Received:04/08/19Percent Solids:n/a

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO3 Nitrogen, Ammonia pH ^a	4830 < 0.20 7.99	20 0.20	mg/l mg/l su	1 1 1	04/16/19 04/11/19 16:36 04/10/19 11:06		SM2340 C-11 SM4500NH3 H-11LACHAT SM4500H+ B-11
Field Parameters							
Temperature (Field)	8		Deg. C	1	04/13/19 11:15	JK	SM2550 B-10

(a) Sample received out of holding time for pH analysis.

Report of Analysis

Client Sample ID: SW-1

Lab Sample ID:JC85988-2RDate Sampled:04/08/19Matrix:AQ - Surface WaterDate Received:04/08/19Percent Solids:n/a

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony ^a	4.4 U	10	4.4	ug/l	5	04/26/19	04/29/19 sn	EPA 200.8 ²	EPA 200.8 ³
Arsenic ^a	6.4 U	25	6.4	ug/l	25	04/26/19	04/29/19 SN	EPA 200.8 ²	EPA 200.8 ³
Cadmium ^a	0.50 U	2.5	0.50	ug/l	5	04/26/19	04/29/19 SN	EPA 200.8 ²	EPA 200.8 ³
Chromium a	8.2 U	100	8.2	ug/l	25	04/26/19	04/29/19 SN	EPA 200.8 ²	EPA 200.8 ³
Copper a	53 U	100	53	ug/l	25	04/26/19	04/29/19 SN	EPA 200.8 ²	EPA 200.8 ³
Iron a	762 B	1300	310	ug/l	25	04/26/19	04/29/19 sn	EPA 200.8 ²	EPA 200.8 ³
Lead a	2.9	2.5	0.71	ug/l	5	04/26/19	04/29/19 sn	EPA 200.8 ²	EPA 200.8 ³
Mercury	0.092 U	0.20	0.092	ug/l	1	04/29/19	04/29/19 LL	EPA 245.1 ¹	EPA 245.1 ⁴
Selenium ^a	3.2 U	5.0	3.2	ug/l	5	04/26/19	04/29/19 sn	EPA 200.8 ²	EPA 200.8 ³
Silver ^a	0.34 U	10	0.34	ug/l	5	04/26/19	04/29/19 sn	EPA 200.8 ²	EPA 200.8 ³
Zinc ^a	92 U	250	92	ug/l	25	04/26/19	04/29/19 sn	EPA 200.8 ²	EPA 200.8 ³

(1) Instrument QC Batch: MA46603(2) Instrument QC Batch: MA46613(3) Prep QC Batch: MP14584(4) Prep QC Batch: MP14647

(a) Elevated detection limit due to dilution required for matrix interference.

RL = Reporting Limit

MDL = Method Detection Limit

U = Indicates a result < MDL

B = Indicates a result > = MDL but < RL



Report of Analysis

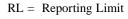
Client Sample ID: SW-1 Lab Sample ID: JC859

Lab Sample ID:JC85988-2TDate Sampled:04/08/19Matrix:AQ - Surface WaterDate Received:04/08/19Percent Solids:n/a

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Salinity Specific Conductivity	< 0.10 46.4	0.10 7.5	ppt umhos/cm	1	04/27/19 04/26/19 17:00	MET KI	SM2520 B-11 SM2510 B-11/SW 9050A
Field Parameters							
Pressure, Atmospheric Temperature (Field)	29.7 8		mmHg Deg. C	1 1	04/08/19 11:15 04/08/19 11:15		FIELD SM2550 B-10





Dayton, NJ

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- · Chain of Custody
- MCP Form
- Sample Tracking Chronicle
- QC Evaluation: MA MCP Limits



Parameter Certification Exceptions

Job Number: JC85988

Account: DRAKEPET Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

The following parameters included in this report are exceptions to NELAC certification.

The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Acenaphthene	83-32-9	EPA 625 BY SIM	AQ	SGS is not certified for this parameter. ^a
Acenaphthylene	208-96-8	EPA 625 BY SIM	AQ	SGS is not certified for this parameter. ^a
Anthracene	120-12-7	EPA 625 BY SIM	AQ	SGS is not certified for this parameter. ^a
Benzo(a)anthracene	56-55-3	EPA 625 BY SIM	AQ	SGS is not certified for this parameter. ^a
Benzo(a)pyrene	50-32-8	EPA 625 BY SIM	AQ	SGS is not certified for this parameter. ^a
Benzo(b)fluoranthene	205-99-2	EPA 625 BY SIM	AQ	SGS is not certified for this parameter. ^a
Benzo(g,h,i)perylene	191-24-2	EPA 625 BY SIM	AQ	SGS is not certified for this parameter. a
Benzo(k)fluoranthene	207-08-9	EPA 625 BY SIM	AQ	SGS is not certified for this parameter. a
Chrysene	218-01-9	EPA 625 BY SIM	AQ	SGS is not certified for this parameter. a
Dibenzo(a,h)anthracene	53-70-3	EPA 625 BY SIM	AQ	SGS is not certified for this parameter. a
Fluoranthene	206-44-0	EPA 625 BY SIM	AQ	SGS is not certified for this parameter. a
Fluorene	86-73-7	EPA 625 BY SIM	AQ	SGS is not certified for this parameter. a
Indeno(1,2,3-cd)pyrene	193-39-5	EPA 625 BY SIM	AQ	SGS is not certified for this parameter. a
Naphthalene	91-20-3	EPA 625 BY SIM	AQ	SGS is not certified for this parameter. ^a
Phenanthrene	85-01-8	EPA 625 BY SIM	AQ	SGS is not certified for this parameter. ^a
Pyrene	129-00-0	EPA 625 BY SIM	AQ	SGS is not certified for this parameter. a
Chromium, Trivalent		SW846 6010/7196A M	AQ	SGS is not certified for this parameter. ^a

⁽a) Lab cert for analyte not supported by NJDEP, OQA. Only methods/analytes required for reporting by the State of NJ can be certified in NJ. Use of this analyte for compliance must be verified through the appropriate regulatory office.

Certification exceptions shown are based on the New Jersey DEP certifications. Applicability in other states may vary. Please contact your laboratory representative if additional information is required for a specific regulatory program.

CHAIN OF CUSTODY

PAGE	 OF	_}

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	Jason Frigon, jfrigon@globalp.	com		CEA # 5750-05												5	Ā	Me l			1				AIR - Air SOL - Other Solid
Phone #		1	Client Purchase	Order # AELLC# 1001	17	City			s	tate			Zip		- 1	Tet.	85	e e					- 1	-	WP - Wipe FB-Field Blank EB-
Sampler	339-3545 (s) Name(s)	Phone #	Project Manage			Attention	n:			_		_		-	- 1	Ē	효	era				- 1		-	Equipment Blank RB- Rinse Blank TB-Trip
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JC85988: Chain of Custody Page 1 of 4

SGS Sample Receipt Summary

Job Number: JC859	88 Client:		Project:		
Date / Time Received: 4/8/20	19 6:30:00 PM Deliver	y Method:	Airbill #'s:		
Cooler Temps (Raw Measured) Cooler Temps (Corrected)	, ,,				
Cooler Security 1. Custody Seals Present: 2. Custody Seals Intact: Cooler Temperature 1. Temp criteria achieved: 2. Cooler temp verification: 3. Cooler media:	or N	1. Sam 2. Cont 3. Sam Sampl 1. Sam	e Integrity - Documentation ple labels present on bottles: ainer labeling complete: ple container label / COC agree: e Integrity - Condition ple recvd within HT: putainers accounted for:	Y or N ✓ □ ✓ □ ✓ or N ✓ □ ✓ or N ✓ or N ✓ or N	
4. No. Coolers:	1		lition of sample:	Intact	
Quality Control Preservation 1. Trip Blank present / cooler: 2. Trip Blank listed on COC: 3. Samples preserved properly: 4. VOCs headspace free:	Y or N N/A □ ✓ □ □ ✓ □ ✓ □ ✓ □ ✓ □	1. Anal 2. Bott 3. Suff 4. Com	e Integrity - Instructions ysis requested is clear: es received for unspecified tests cient volume recvd for analysis: spositing instructions clear: ring instructions clear:	Y or N V V V V V V V V V V V V V V V V V	N/A V
Test Strip Lot #s: pH 1	-12:206717	pH 12+: 20871	7 Other: (Specify)		
Comments					

SM089-03 Rev. Date 12/7/17

JC85988: Chain of Custody

Page 2 of 4

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Date/Time: 4/24/2019 4:30:59 PM

Requested Date:	4/24/2019	Received Date:	4/8/2019
Account Name:	Drake Petroleum Company, Inc.	Due Date:	4/15/2019
Project Description:	Project Description: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA Deliverable:	Deliverable:	MAMCP
C/O Initiated By: VLP	VLP PM: VP	TAT (Days):	_

Sample #: JC85988-	JC85988-2	Change:
Dept:		PBMS, SBMS, SEMS, ZNMS - EPA 200.8
TAT:	7	

JC85988: Chain of Custody

Page 3 of 4

Above Changes Per: Adam Guaraldi

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Date/Time: 4/25/2019 8:58:36 AM

Job Change Order: JC85988

Requested Date:	4/25/2019	Received Date:	4/8/2019
Account Name:	Drake Petroleum Company, Inc.	Due Date:	4/15/2019
Project Description:	CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA Deliverable:	Deliverable:	MAMCP
C/O Initiated By: VLP	VLP PM: VP	TAT (Days):	7

Change:	Please analyse for XSLNTY. Please use the folowing value for the field data: TEMPF-8 degrees C, PRESSF -29.7 "Hg
JC85988-2	
Sample #:	Dept:

TAT:

JC85988: Chain of Custody Page 4 of 4

Above Changes Per: Adam Guaraldi



Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

WSC-CAM	Exhibit VII A
July 1, 2010	Revision No. 1
Final	

Exhibit VII A-2: MassDEP Analytical Protocol Certification Form

			Ma	assDEP Analytical F	Protocol Certification	on Form				
Labo	ratory Name:		SGS North America	Inc Dayton		Project #:	JC85	988		
Proje	ct Location:		CEAMAW: 19, 25 B	each Road, Vinyard I	Haven, MA	MADEP RTN	None			
This f	•		tions for the following 2,JC85988-2R,JC85	data set: list Labora 988-2T	tory Sample ID Num	nbers(s)				
	Test method	: Refer to	case narrative.							
М	atrices:	Groundw	ater/Surface Water (X)	Soil/Sediment ()	Drinking Water ()	Air ()		Other	()
CAM	Protocol (chec	ck all that	apply below):							
	8260 VOC	(X)	7470/7471 Hg ()	MassDEP VPH ()	8081 Pesticides () 7196 Hex Cr	(X)		Mass DEP APH	()
	CAM IIA		CAM III B	CAM IV A	CAM V B	CAM VI B			CAM IX A	
	8270 SVOC CAM II B	()	7010 Metals () CAM III C	MassDEP EPH () CAM IV B	8151 Herbicides (CAM V C) 8330 Explosives CAM VIII A	()		TO-15 VOC CAM IX B	()
	6010 Metals CAM III A	(X)	6020 Metals () CAM III D	8082 PCB () CAM V A	9014 Total () Cyanide/PAC CAM VI A) 6860 Perchlorate CAM VIII B	()			
	Affirmative	Respons	ses to Questions A	Through F are requi	ired for "Presumpti	ve Certainty status	;			
Α		served (ir	ncluding temperature	consistent with those on the field or laborated and the field of the field or laborated and the field of the		•	✓	Yes	☐ No	
				ociated QC requireme	ents specified in the	selected CAM				
В	protocol(s) fo			!. 4:!		and and CAM	7	Yes	□ No	
С				nalytical response ac erformance standard	•		V	Yes	□No	
D		urance ar	nd Quality Control Gu	the reporting requirer uidelines for the Acqu	•	AM VII A,	V	Yes	□No	
Е	VPH, EPH, A a. VPH, EPH	APH, and I, and AP	TO-15 only: H Methods only: Wa	as each method cond	•			Yes	□No	
	,			e complete analyte lis	•	,		Yes		
F			•	performance standar			✓	Yes	□No	
Г				cluding all "No" respo						
G	-	-		ow is required for "I	=	nty" status	7	Yes	☐ No	1
Ŭ	selected CAI	M protoco	ols							
				sumptive Certainty" escribed in 310 CMI	•	•	data u	seabi	lity	
Н				ified in the CAM proto		1100-01-550.	Ш	Yes	✓ No	1
I	Were results	reported	for the complete an	alyte list specified in t	he selected CAM pr	otocol(s)?		Yes	✓ No	1
	All Negative	respon	ses must be addres	sed in an attached	Environmental Lab	oratory case narra	tive.			
inqui	iry of those r	esponsi	ble for obtaining the	I penalties of perjur e information, the m dge and belief, accu	naterial contained in	n this				
	ature:	,	To And or		<u> </u>	eneral Manager				
Print	ed Name:		Brian McGuire		Date:	01-May-19				

Internal Sample Tracking Chronicle

Drake Petroleum Company, Inc.

Job No: JC85988

CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA Project No: 5750-05 10017

Sample Number	Method	Analyzed	Ву	Prepped	Ву	Test Codes
JC85988-1 RW-RGP	Collected: 08-APR-19	10:45 By: MH	Receiv	ved: 08-APR-	-19 By:	: DG
JC85988-1 JC85988-1	SW846 7196A SM4500CL F-11 SM4500NH3 H-11LAC			11-APR-19		XCR TRC AMN
JC85988-1	EPA 245.1 EPA 200.8	12-APR-19 11:46 12-APR-19 14:14	ZC	12-APR-19 11-APR-19		HG AGMS,ASMS,CDMS,CUMS,NIM PBMS,SBMS,SEMS
JC85988-1 JC85988-1	SW846 6010/7196A M SW846 8260C EPA 608.3	12-APR-19 15:19 12-APR-19 18:03	RS SK	12-APR-19		CR3 V8260SL P608PCB
JC85988-1 JC85988-1	EPA 200.8 EPA 625.1 EPA 625 BY SIM	12-APR-19 18:05 12-APR-19 19:46 12-APR-19 21:32		11-APR-19 12-APR-19 12-APR-19	VP MT	FEMS,ZNMS AB625SL B625SIMSL
JC85988-1 JC85988-1	EPA 1664A SM2540 D-11 EPA 335.4/LACHAT EPA 504.1	12-APR-19 21:45 13-APR-19 10:14 13-APR-19 11:39 15-APR-19 16:52	TM RC BM VDT	12-APR-19 12-APR-19 15-APR-19	BM	PHC1664 TSS CN V504EDB
JC85988-1 JC85988-1	SM2340 C-11 EPA 300/SW846 90564 EPA 625 BY SIM	16-APR-19	MP NV	15-APR-19 15-APR-19 18-APR-19	NV	HRD CHL B625SIMPAH
	Collected: 08-APR-19			ved: 08-APR-		
JC85988-2 JC85988-2	SM4500H+ B-11 SM4500NH3 H-11LAC SM2550 B-10 SM2340 C-11	10-APR-19 11:06 CHAAPR-19 16:36 13-APR-19 11:15 16-APR-19		11-APR-19	KI	PH AMN TEMPF HRD
JC85988-2I SW-1	R Collected: 08-APR-19	11:15 By: MH	Receiv	ved: 08-APR-	-19 By:	: DG
JC85988-2I	REPA 245.1 REPA 200.8 REPA 200.8	29-APR-19 14:29 29-APR-19 15:52 29-APR-19 16:35		29-APR-19 26-APR-19 26-APR-19	BP	HG ASMS,CRMS,CUMS,FEMS,ZNM AGMS,CDMS,PBMS,SBMS,SEM

Internal Sample Tracking Chronicle

Drake Petroleum Company, Inc.

Job No: JC85988

CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA Project No: 5750-05 10017

Sample Number Method A	Analyzed By	Prepped By	Test Codes
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JC85988-2T Collected: 08-APR-19 SW-1	9 11:15 By: MH	Received: 08-A	PR-19 By: DG	
JC85988-2T FIELD	08-APR-19 11:15		PRESSF	
JC85988-2T SM2550 B-10	08-APR-19 11:15	AS	TEMPF	
JC85988-2T SM2510 B-11/SW 90	50 & 6-APR-19 17:00	KI	SCON	
JC85988-2T SM2520 B-11	27-APR-19	MET	SLNTY	

Units Limits

Sample Result Result

QC Evaluation: MA MCP Limits

Job Number: JC85988

Account: Drake Petroleum Company, Inc.

CAS#

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

Analyte

Collected: 04/08/19

QC Sample ID

			Type	Type			
V0E 670 4	CW1046 0260						
V2E6724	SW846 8260	OC .					
V2E6724-BS	64-17-5	Ethanol	BSP	REC	103	%	70-130
V2E6724-BS	56-23-5	Carbon tetrachloride	BSP	REC	105	%	70-130
V2E6724-BS	95-50-1	1,2-Dichlorobenzene	BSP	REC	100	%	70-130
V2E6724-BS	541-73-1	1,3-Dichlorobenzene	BSP	REC	98	%	70-130
V2E6724-BS	106-46-7	1,4-Dichlorobenzene	BSP	REC	99	%	70-130
V2E6724-BS	75-34-3	1,1-Dichloroethane	BSP	REC	103	%	70-130
V2E6724-BS	107-06-2	1,2-Dichloroethane	BSP	REC	97	%	70-130
V2E6724-BS	75-35-4	1,1-Dichloroethene	BSP	REC	106	%	70-130
V2E6724-BS	156-59-2	cis-1,2-Dichloroethene	BSP	REC	100	%	70-130
V2E6724-BS	1634-04-4	Methyl Tert Butyl Ether	BSP	REC	103	%	70-130
V2E6724-BS	75-09-2	Methylene chloride	BSP	REC	100	%	70-130
V2E6724-BS	75-65-0	Tert Butyl Alcohol	BSP	REC	98	%	70-130
V2E6724-BS	994-05-8	tert-Amyl Methyl Ether	BSP	REC	101	%	70-130
V2E6724-BS	127-18-4	Tetrachloroethene	BSP	REC	103	%	70-130
V2E6724-BS	71-55-6	1,1,1-Trichloroethane	BSP	REC	106	%	70-130
V2E6724-BS	79-00-5	1,1,2-Trichloroethane	BSP	REC	102	%	70-130
V2E6724-BS	79-01-6	Trichloroethene	BSP	REC	102	%	70-130
V2E6724-BS	75-01-4	Vinyl chloride	BSP	REC	106	%	70-130
V2E6724-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	102	%	70-130
V2E6724-BS	2037-26-5	Toluene-D8	BSP	SURR	100	%	70-130
V2E6724-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	98	%	70-130
V2E6724-BSD	64-17-5	Ethanol	BSD	REC	108	%	70-130
V2E6724-BSD	56-23-5	Carbon tetrachloride	BSD	REC	107	%	70-130
V2E6724-BSD	56-23-5	Carbon tetrachloride	BSD	RPD	2	%	20
V2E6724-BSD	95-50-1	1,2-Dichlorobenzene	BSD	REC	104	%	70-130
V2E6724-BSD	95-50-1	1,2-Dichlorobenzene	BSD	RPD	3	%	20
V2E6724-BSD	541-73-1	1,3-Dichlorobenzene	BSD	REC	102	%	70-130
V2E6724-BSD	541-73-1	1,3-Dichlorobenzene	BSD	RPD	4	%	20
V2E6724-BSD	106-46-7	1,4-Dichlorobenzene	BSD	REC	102	%	70-130
V2E6724-BSD	106-46-7	1,4-Dichlorobenzene	BSD	RPD	4	%	20
V2E6724-BSD	75-34-3	1,1-Dichloroethane	BSD	REC	105	%	70-130
V2E6724-BSD	75-34-3	1,1-Dichloroethane	BSD	RPD	2	%	20
V2E6724-BSD	107-06-2	1,2-Dichloroethane	BSD	REC	97	%	70-130
V2E6724-BSD	107-06-2	1,2-Dichloroethane	BSD	RPD	0	%	20
V2E6724-BSD	75-35-4	1.1-Dichloroethene	BSD	REC	107	%	70-130
V2E6724-BSD	75-35-4	1,1-Dichloroethene	BSD	RPD	1	%	20
V2E6724-BSD	156-59-2	cis-1,2-Dichloroethene	BSD	REC	103	%	70-130
V2E6724-BSD	156-59-2	cis-1,2-Dichloroethene	BSD	RPD	2	%	20
V2E6724-BSD	1634-04-4	Methyl Tert Butyl Ether	BSD	REC	102	%	70-130
V2E6724-BSD	1634-04-4	Methyl Tert Butyl Ether	BSD	RPD	102	%	20
V2E6724-BSD V2E6724-BSD	75-09-2	Methylene chloride	BSD	REC	101	%	70-130
V2E6724-BSD V2E6724-BSD	75-09-2 75-09-2	Methylene chloride	BSD	RPD	101	% %	20
v 2EU/24-D3D	13-07-4	wiennylene emoride	טטט	KFD	1	70	20

^{*} Sample used for QC is not from job JC85988

Page 2 of 2

QC Evaluation: MA MCP Limits Job Number: JC85988

Account: Drake Petroleum Company, Inc.

CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA **Project:**

Collected: 04/08/19

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Unit	s Limits
V2E6724-BSD	75-65-0	Tert Butyl Alcohol	BSD	REC	100	%	70-130
V2E6724-BSD	75-65-0	Tert Butyl Alcohol	BSD	RPD	2	%	20
V2E6724-BSD	994-05-8	tert-Amyl Methyl Ether	BSD	REC	101	%	70-130
V2E6724-BSD	994-05-8	tert-Amyl Methyl Ether	BSD	RPD	1	%	20
V2E6724-BSD	127-18-4	Tetrachloroethene	BSD	REC	107	%	70-130
V2E6724-BSD	127-18-4	Tetrachloroethene	BSD	RPD	3	%	20
V2E6724-BSD	71-55-6	1,1,1-Trichloroethane	BSD	REC	107	%	70-130
V2E6724-BSD	71-55-6	1,1,1-Trichloroethane	BSD	RPD	1	%	20
V2E6724-BSD	79-00-5	1,1,2-Trichloroethane	BSD	REC	102	%	70-130
V2E6724-BSD	79-00-5	1,1,2-Trichloroethane	BSD	RPD	0	%	20
V2E6724-BSD	79-01-6	Trichloroethene	BSD	REC	106	%	70-130
V2E6724-BSD	79-01-6	Trichloroethene	BSD	RPD	4	%	20
V2E6724-BSD	75-01-4	Vinyl chloride	BSD	REC	108	%	70-130
V2E6724-BSD	75-01-4	Vinyl chloride	BSD	RPD	2	%	20
V2E6724-BSD	1868-53-7	Dibromofluoromethane	BSD	SURR	101	%	70-130
V2E6724-BSD	2037-26-5	Toluene-D8	BSD	SURR	100	%	70-130
V2E6724-BSD	460-00-4	4-Bromofluorobenzene	BSD	SURR	100	%	70-130
V2E6724-MB	1868-53-7	Dibromofluoromethane	MB	SURR	104	%	70-130
V2E6724-MB	2037-26-5	Toluene-D8	MB	SURR	100	%	70-130
V2E6724-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	101	%	70-130
JC85988-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	104	%	70-130
JC85988-1	2037-26-5	Toluene-D8	SAMP	SURR	101	%	70-130
JC85988-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	101	%	70-130

^{*} Sample used for QC is not from job JC85988

Section 6



Dayton, NJ

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries



Method: SW846 8260C

Method Blank Summary

Job Number: JC85988

Account: DRAKEPET Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

Sample V2E6724-MB	File ID 2E151808.D	DF 1	Analyzed 04/12/19	By RS	Prep Date n/a	Prep Batch n/a	Analytical Batch V2E6724
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The QC reported here applies to the following samples:

JC85988-1

CAS No.	Compound	Result	RL	MDL	Units Q
64-17-5	Ethanol	ND	100	89	ug/l
56-23-5	Carbon tetrachloride	ND	1.0	0.55	ug/l
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.53	ug/l
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.54	ug/l
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.51	ug/l
75-34-3	1,1-Dichloroethane	ND	1.0	0.57	ug/l
107-06-2	1,2-Dichloroethane	ND	1.0	0.60	ug/l
75-35-4	1,1-Dichloroethene	ND	1.0	0.59	ug/l
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.51	ug/l
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.51	ug/l
75-09-2	Methylene chloride	ND	2.0	1.0	ug/l
75-65-0	Tert Butyl Alcohol	ND	10	5.8	ug/l
994-05-8	tert-Amyl Methyl Ether	ND	2.0	0.47	ug/l
127-18-4	Tetrachloroethene	ND	1.0	0.90	ug/l
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.54	ug/l
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.53	ug/l
79-01-6	Trichloroethene	ND	1.0	0.53	ug/l
75-01-4	Vinyl chloride	ND	1.0	0.79	ug/l
	-				-
CAS No. Surrogate Recoveries			Limits		

1868-53-7	Dibromofluoromethane	104%	80-120%
17060-07-0	1,2-Dichloroethane-D4	106%	81-124%
2037-26-5	Toluene-D8	100%	80-120%
460-00-4	4-Bromofluorobenzene	101%	80-120%

CAS No. Tentatively Identified Compounds R.T. Est. Conc. Units Q

Total TIC, Volatile	0	ug/l
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Method: SW846 8260C

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC85988

Account: DRAKEPET Drake Petroleum Company, Inc.

CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA **Project:**

File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
2E151805.D	1	04/12/19	RS	n/a	n/a	V2E6724
2E151806.D	1	04/12/19	RS	n/a	n/a	V2E6724
	2E151805.D	2E151805.D 1	2E151805.D 1 04/12/19	2E151805.D 1 04/12/19 RS	2E151805.D 1 04/12/19 RS n/a	2E151805.D 1 04/12/19 RS n/a n/a

The QC reported here applies to the following samples:

		Spike	BSP	BSP	BSD	BSD		Limits
CAS No.	Compound	ug/l	ug/l	%	ug/l	%	RPD	Rec/RPD
64-17-5	Ethanol	5000	5160	103	5390	108	4	54-155/20
56-23-5	Carbon tetrachloride	50	52.3	105	53.5	107	2	75-135/20
95-50-1	1,2-Dichlorobenzene	50	50.2	100	51.8	104	3	84-119/20
541-73-1	1,3-Dichlorobenzene	50	49.0	98	51.0	102	4	81-117/20
106-46-7	1,4-Dichlorobenzene	50	49.3	99	51.2	102	4	82-117/20
75-34-3	1,1-Dichloroethane	50	51.7	103	52.6	105	2	79-120/20
107-06-2	1,2-Dichloroethane	50	48.5	97	48.7	97	0	78-126/20
75-35-4	1,1-Dichloroethene	50	52.9	106	53.5	107	1	69-126/20
156-59-2	cis-1,2-Dichloroethene	50	50.1	100	51.3	103	2	80-120/20
1634-04-4	Methyl Tert Butyl Ether	50	51.3	103	51.0	102	1	80-119/20
75-09-2	Methylene chloride	50	49.8	100	50.3	101	1	77-120/20
75-65-0	Tert Butyl Alcohol	250	245	98	251	100	2	78-126/20
994-05-8	tert-Amyl Methyl Ether	50	50.7	101	50.4	101	1	81-124/20
127-18-4	Tetrachloroethene	50	51.5	103	53.3	107	3	70-131/20
71-55-6	1,1,1-Trichloroethane	50	52.8	106	53.5	107	1	81-128/20
79-00-5	1,1,2-Trichloroethane	50	50.9	102	50.8	102	0	83-118/20
79-01-6	Trichloroethene	50	51.1	102	53.0	106	4	80-120/20
75-01-4	Vinyl chloride	50	52.8	106	54.1	108	2	51-135/20

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
17060-07-0 2037-26-5	Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8	102% 101% 100%	101% 99% 100%	80-120% 81-124% 80-120%
460-00-4	4-Bromofluorobenzene	98%	100%	80-120%

^{* =} Outside of Control Limits.

Internal Standard Area Summary

Job Number: JC85988

Account: DRAKEPET Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

 Check Std:
 V2E6724-CC6722
 Injection Date:
 04/12/19

 Lab File ID:
 2E151803.D
 Injection Time:
 08:00

 Model
 CNV04.6 (%)

Instrument ID: GCMS2E Method: SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	123245	7.36	304098	9.59	429112	10.50	366018	13.64	188365	15.93
Upper Limit ^a	246490	7.86	608196	10.09	858224	11.00	732036	14.14	376730	16.43
Lower Limit b	61623	6.86	152049	9.09	214556	10.00	183009	13.14	94183	15.43
Lab	IS 1		IS 2		IS 3		IS 4		IS 5	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT	AREA	RT
V2E6724-BS	122018	7.36	330442	9.59	460085	10.50	384064	13.64	201299	15.94
V2E6724-BSD	122648	7.36	333006	9.59	460318	10.50	389540	13.64	196952	15.93
V2E6724-MB	128920	7.36	301872	9.59	420566	10.50	353628	13.64	178815	15.94
ZZZZZZ	138087	7.36	330131	9.59	455827	10.50	381259	13.64	192504	15.93
ZZZZZZ	128385	7.36	314008	9.59	436375	10.50	371756	13.64	185721	15.94
JC86173-3	126009	7.36	311761	9.59	433980	10.50	367954	13.64	182548	15.93
JC86173-4	131633	7.36	329845	9.59	452019	10.50	340991	13.64	194382	15.93
JC85988-1	104138	7.36	300808	9.59	420231	10.50	354835	13.64	179377	15.93
JC86173-3MS	101215	7.36	298718	9.59	417980	10.50	352393	13.64	181099	15.93
JC86173-4DUP	123277	7.36	322021	9.59	444636	10.50	382225	13.64	189299	15.94
ZZZZZZ	121270	7.36	308667	9.59	429680	10.50	366391	13.64	184593	15.94
ZZZZZZ	100393	7.36	302351	9.59	423226	10.50	361037	13.64	179913	15.94
ZZZZZZ	105578	7.36	325149	9.59	455110	10.50	390688	13.64	195933	15.93
ZZZZZZ	118552	7.36	320923	9.59	443626	10.50	379420	13.64	189508	15.94
ZZZZZZ	114892	7.36	312679	9.59	434622	10.50	375176	13.64	186972	15.94
ZZZZZZ	114350	7.36	319408	9.59	444286	10.50	375517	13.64	188022	15.94

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JC85988

Account: DRAKEPET Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

Method: SW846 8260C Matrix: AQ

Samples and QC shown here apply to the above method

Lab	Lab				
Sample ID	File ID	S1	S2	S3	S4
JC85988-1	2E151813.D	104	109	101	101
V2E6724-BS	2E151805.D	102	101	100	98
V2E6724-BSD	2E151806.D	101	99	100	100
V2E6724-MB	2E151808.D	104	106	100	101

Surrogate	Recovery			
Compounds	Limits			
S1 = Dibromofluoromethane	80-120%			

 S2 = 1,2-Dichloroethane-D4
 81-124%

 S3 = Toluene-D8
 80-120%

 S4 = 4-Bromofluorobenzene
 80-120%



MS Semi-volatiles

Dayton, NJ

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Internal Standard Area Summaries
- Surrogate Recovery Summaries

Method: EPA 625.1

Method Blank Summary

Job Number: JC85988

Account: DRAKEPET Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

Sample OP19695-MB1	File ID F183821.D	DF 1	Analyzed 04/12/19	By YC	Prep Date 04/12/19	Prep Batch OP19695	Analytical Batch EF7897

The QC reported here applies to the following samples:

CAS No.	Compound	Result	RL	MDL	Units Q
87-86-5	Pentachlorophenol	ND	5.0	1.4	ug/l
85-68-7	Butyl benzyl phthalate	ND	2.0	0.46	ug/l
84-74-2	Di-n-butyl phthalate	ND	2.0	0.50	ug/l
117-84-0	Di-n-octyl phthalate	ND	2.0	0.23	ug/l
84-66-2	Diethyl phthalate	ND	2.0	0.26	ug/l
131-11-3	Dimethyl phthalate	ND	2.0	0.22	ug/l
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.7	ug/l

CAS No.	Surrogate Recoveries	urrogate Recoveries			
367-12-4	2-Fluorophenol	48%	10-110%		
4165-62-2	Phenol-d5	33%	10-110%		
118-79-6	2,4,6-Tribromophenol	94%	35-147%		
4165-60-0	Nitrobenzene-d5	100%	32-132%		
321-60-8	2-Fluorobiphenyl	86%	40-117%		
1718-51-0	Terphenyl-d14	119%	33-126%		

Method: EPA 625.1

Method Blank Summary

Job Number: JC85988

Account: DRAKEPET Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

Sample OP19695-MB1	File ID F183880.D	DF 1	Analyzed 04/15/19	By AR	Prep Date 04/12/19	Prep Batch OP19695	Analytical Batch EF7899

The QC reported here applies to the following samples:

Units Q	IDL	RL	Result	Compound	CAS No.
ıg/l	.4	5.0	ND	Pentachlorophenol	87-86-5
ıg/l	.46	2.0	ND	Butyl benzyl phthalate	85-68-7
ıg/l	.50	2.0	ND	Di-n-butyl phthalate	84-74-2
ıg/l	.23	2.0	ND	Di-n-octyl phthalate	117-84-0
ıg/l	.26	2.0	ND	Diethyl phthalate	84-66-2
ıg/l	.22	2.0	ND	Dimethyl phthalate	131-11-3
ıg/l	.7	2.0	ND	bis(2-Ethylhexyl)phthalate	117-81-7
1g/l 1g/l 1g/l 1g/l 1g/l	.46 .50 .23 .26	2.0 2.0 2.0 2.0 2.0 2.0	ND ND ND ND ND	Butyl benzyl phthalate Di-n-butyl phthalate Di-n-octyl phthalate Diethyl phthalate Dimethyl phthalate	85-68-7 84-74-2 117-84-0 84-66-2 131-11-3

CAS No.	Surrogate Recoveries	Recoveries		
367-12-4	2-Fluorophenol	48%	10-110%	
4165-62-2	Phenol-d5	30%	10-110%	
118-79-6	2,4,6-Tribromophenol	90%	35-147%	
4165-60-0	Nitrobenzene-d5	103%	32-132%	
321-60-8	2-Fluorobiphenyl	86%	40-117%	
1718-51-0	Terphenyl-d14	112%	33-126%	

Method: EPA 625 BY SIM

Method Blank Summary

Job Number: JC85988

Account: DRAKEPET Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

Sample OP19695A-MB1	File ID 4M83201.D	DF 1	Analyzed 04/12/19	By CC	Prep Date 04/12/19	Prep Batch OP19695A	Analytical Batch E4M3877

The QC reported here applies to the following samples:

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.013	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.012	ug/l	
120-12-7	Anthracene	ND	0.10	0.013	ug/l	
56-55-3	Benzo(a)anthracene	0.111	0.10	0.019	ug/l	
50-32-8	Benzo(a)pyrene	0.0316	0.10	0.030	ug/l	J
205-99-2	Benzo(b)fluoranthene	0.0512	0.10	0.021	ug/l	J
191-24-2	Benzo(g,h,i)perylene	0.0523	0.10	0.026	ug/l	J
207-08-9	Benzo(k)fluoranthene	0.0752	0.10	0.019	ug/l	J
218-01-9	Chrysene	0.0457	0.10	0.015	ug/l	J
53-70-3	Dibenzo(a,h)anthracene	0.0678	0.10	0.035	ug/l	J
206-44-0	Fluoranthene	0.0161	0.10	0.011	ug/l	J
86-73-7	Fluorene	ND	0.10	0.027	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	0.0617	0.10	0.031	ug/l	J
91-20-3	Naphthalene	ND	0.10	0.013	ug/l	
85-01-8	Phenanthrene	0.0164	0.10	0.016	ug/l	J
129-00-0	Pyrene	0.0168	0.10	0.013	ug/l	J

CAS No.	Surrogate Recoveries	Limits
CIED I 10.	Buildance Recoveries	

4165-60-0	Nitrobenzene-d5	109%	21-146%
321-60-8	2-Fluorobiphenyl	95%	12-135%
1718-51-0	Terphenyl-d14	104%	10-145%

Method: EPA 625.1

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC85988

Account: DRAKEPET Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19695-BS1	F183822.D	1	04/12/19	YC	04/12/19	OP19695	EF7897
OP19695-BSD	F183823.D	1	04/12/19	YC	04/12/19	OP19695	EF7897

The QC reported here applies to the following samples:

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
87-86-5	Pentachlorophenol	50	53.4	107	47.1	94	13	25-128/25
85-68-7	Butyl benzyl phthalate	50	52.1	104	44.8	90	15	50-122/23
84-74-2	Di-n-butyl phthalate	50	38.4	77	42.2	84	9	55-118/25
117-84-0	Di-n-octyl phthalate	50	47.9	96	40.9	82	16	49-124/26
84-66-2	Diethyl phthalate	50	46.5	93	36.3	73	25* a	54-113/23
131-11-3	Dimethyl phthalate	50	45.9	92	44.9	90	2	56-110/23
117-81-7	bis(2-Ethylhexyl)phthalate	50	52.2	104	43.9	88	17	50-120/22

Surrogate Recoveries	BSP	BSD	Limits
2-Fluorophenol	51%	50%	10-110%
Phenol-d5	37%	33%	10-110%
2,4,6-Tribromophenol	95%	82%	35-147%
Nitrobenzene-d5	102%	94%	32-132%
2-Fluorobiphenyl	114%	89%	40-117%
Terphenyl-d14	118%	108%	33-126%
	2-Fluorophenol Phenol-d5 2,4,6-Tribromophenol Nitrobenzene-d5 2-Fluorobiphenyl	2-Fluorophenol 51% Phenol-d5 37% 2,4,6-Tribromophenol 95% Nitrobenzene-d5 102% 2-Fluorobiphenyl 114%	2-Fluorophenol 51% 50% Phenol-d5 37% 33% 2,4,6-Tribromophenol 95% 82% Nitrobenzene-d5 102% 94% 2-Fluorobiphenyl 114% 89%

⁽a) Outside of in house control limits.

^{* =} Outside of Control Limits.

Method: EPA 625 BY SIM

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC85988

Account: DRAKEPET Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19695A-BS12	4M83202.D	1	04/12/19	CC	04/12/19	OP19695A	E4M3877
OP19695A-BSD12	4M83203.D	1	04/12/19	CC	04/12/19	OP19695A	E4M3877

The QC reported here applies to the following samples:

		Spike	BSP	BSP	BSD	BSD		Limits
CAS No.	Compound	ug/l	ug/l	%	ug/l	%	RPD	Rec/RPD
83-32-9	Acenaphthene	1	0.752	75	0.736	74	2	48-138/30
	*	1						
208-96-8	Acenaphthylene	1	0.781	78	0.762	76	2	38-118/30
120-12-7	Anthracene	1	0.796	80	0.756	76	5	52-137/30
56-55-3	Benzo(a)anthracene	1	0.785	79	0.742	74	6	45-138/30
50-32-8	Benzo(a)pyrene	1	0.672	67	0.637	64	5	40-122/30
205-99-2	Benzo(b)fluoranthene	1	0.665	67	0.663	66	0	42-132/30
191-24-2	Benzo(g,h,i)perylene	1	0.748	75	0.721	72	4	26-124/30
207-08-9	Benzo(k)fluoranthene	1	0.993	99	0.924	92	7	38-130/30
218-01-9	Chrysene	1	0.839	84	0.811	81	3	52-134/30
53-70-3	Dibenzo(a,h)anthracene	1	0.758	76	0.725	73	4	22-128/30
206-44-0	Fluoranthene	1	0.872	87	0.833	83	5	55-126/30
86-73-7	Fluorene	1	0.869	87	0.835	84	4	52-134/30
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.736	74	0.697	70	5	27-121/30
91-20-3	Naphthalene	1	0.819	82	0.798	80	3	35-126/30
85-01-8	Phenanthrene	1	0.827	83	0.777	78	6	52-130/30
129-00-0	Pyrene	1	0.878	88	0.867	87	1	53-132/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
4165-60-0	Nitrobenzene-d5	111%	110%	21-146%
321-60-8	2-Fluorobiphenyl	97%	96%	12-135%
1718-51-0	Terphenyl-d14	105%	103%	10-145%

^{* =} Outside of Control Limits.

Internal Standard Area Summary

Job Number: JC85988

Account: DRAKEPET Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

Check Std: E4M3877-CC3868 **Injection Date:** 04/12/19 Lab File ID: 4M83177.D **Injection Time:** 15:09

Instrument ID: GCMS4M Method: EPA 625 BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	41366	7.19	42959	8.66	69178	10.79	47840	13.52
Upper Limit ^a	82732	7.69	85918	9.16	138356	11.29	95680	14.02
Lower Limit b	20683	6.69	21480	8.16	34589	10.29	23920	13.02
Lab	IS 1		IS 2		IS 3		IS 4	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP19702A-MB1	38762	7.19	40922	8.66	65340	10.80	44437	13.52
OP19702A-BS12	37715	7.19	40147	8.66	62680	10.80	41112	13.52
OP19702A-BSD1	238421	7.19	40404	8.66	62607	10.79	41690	13.52
OP19679A-MB1	39799	7.19	41945	8.66	65069	10.79	42453	13.51
OP19695A-MB1	36763	7.19	39021	8.66	60670	10.79	42000	13.51
OP19695A-BS12	38507	7.19	40097	8.66	62222	10.79	41278	13.51
OP19695A-BSD1	240334	7.19	42672	8.66	66241	10.79	43504	13.51
JC85988-1 ^c	40505	7.19	43378	8.66	67871	10.79	46222	13.51
ZZZZZZ	42396	7.19	44897	8.66	69428	10.79	46537	13.51
ZZZZZZ	38779	7.19	41016	8.65	63214	10.79	42775	13.51
ZZZZZZ	38601	7.19	41142	8.65	64519	10.79	44485	13.51
ZZZZZZ	37892	7.19	39634	8.66	62073	10.79	42299	13.51
ZZZZZZ	41918	7.19	44507	8.66	68447	10.79	45589	13.51
ZZZZZZ	39486	7.19	41184	8.66	65205	10.79	43414	13.51
ZZZZZZ	39621	7.19	40845	8.66	63841	10.79	43494	13.51
ZZZZZZ	38554	7.19	39379	8.66	61985	10.79	42607	13.51

10.79 41709

10.79 43837

10.79 43166

10.79 44486

10.79 41942

10.79 43473

13.51

13.51

13.51

13.51

13.51

13.50

IS 1 = 1-Methylnaphthalene-d10

37389

40381

35770

38044

36393

37732

7.19

7.19

7.19

7.19

7.19

7.19

IS 2 = Fluorene-d10 IS 3 = Fluoranthene-d10 IS 4 = Benzo(a)pyrene-d12

ZZZZZZ

ZZZZZZ

ZZZZZZ

ZZZZZZ

ZZZZZZ

ZZZZZZ

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

38331

41226

38534

40138

38206

39344

- (b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
- (c) Sample reextracted outside the holding time for confirmation due to method blank contamination.

8.66

8.66

8.66

8.65

8.65

8.65

60608

65594

63537

64392

61390

63279

Internal Standard Area Summary

Job Number: JC85988

Account: DRAKEPET Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

 Check Std:
 E4M3883-CC3868
 Injection Date:
 04/18/19

 Lab File ID:
 4M83321.D
 Injection Time:
 14:14

Instrument ID: GCMS4M **Method:** EPA 625 BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	55004	7.16	60728	8.63	97670	10.77	65086	13.48
Upper Limit ^a	110008	7.66	121456	9.13	195340	11.27	130172	13.98
Lower Limit b	27502	6.66	30364	8.13	48835	10.27	32543	12.98
Lab	IS 1		IS 2		IS 3		IS 4	

Lab	IS 1		IS 2		IS 3		IS 4	
Sample ID	AREA	RT	AREA	RT	AREA	RT	AREA	RT
OP19808A-MB1	45541	7.16	51362	8.63	82671	10.77	59934	13.49
OP19808A-BS12	^c 46404	7.16	50583	8.63	80671	10.77	56694	13.49
OP19808A-BSD12	246249	7.16	51979	8.63	83384	10.77	58799	13.49
JC85988-1 ^d	47431	7.16	52570	8.63	85758	10.77	61107	13.49
ZZZZZZ	46120	7.16	51040	8.63	83161	10.77	59039	13.49
ZZZZZZ	46806	7.16	51481	8.63	84515	10.77	61896	13.49

IS 1 = 1-Methylnaphthalene-d10

IS 2 = Fluorene-d10 IS 3 = Fluoranthene-d10 IS 4 = Benzo(a)pyrene-d12

- (a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
- (b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
- (c) corr surr out
- (d) Sample extracted outside the holding time. Confirmation run.

Internal Standard Area Summary

Job Number: JC85988

Account: DRAKEPET Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

 Check Std:
 EF7897-CC7873
 Injection Date:
 04/12/19

 Lab File ID:
 F183811.D
 Injection Time:
 12:40

 Instrument ID:
 GCMSF
 Method:
 EPA 625.1

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std Upper Limit ^a Lower Limit ^b	42821 85642 21411	4.53 5.03 4.03	138643 277286 69322	5.45 5.95 4.95	71909 143818 35955	6.82 7.32 6.32	125523 251046 62762	8.61 9.11 8.11	111024 222048 55512	13.76 14.26 13.26	105743 211486 52872	16.78 17.28 16.28
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP19695-MB1 OP19695-BS1 OP19695-BSD OP19695-BS13 OP19695-BS14 ° OP19695-BS15 JC85988-1	33385 26788 39385 38827 21333* 22953 40860	4.53 4.53 4.53 4.53 4.53 4.53 4.53	132473 141148 144460 146967 79348 99650 141960	5.45 5.45 5.45 5.45 5.45 5.45 5.45	38494 55854 67805 74112 41510 53402 77241	6.82 6.82 6.82 6.82 6.82 6.82	64197 92244 107175 126778 72848 94947 123252	8.61 8.61 8.61 8.60 8.61 8.60	49016* 68177 79679 92404 67490 55751 89652	13.75 13.75 13.75 13.75 13.75 13.75	53068 56049 61752 92943 62998 59659 95188	16.76 16.77 16.77 16.77 16.76 16.77
ZZZZZZ ZZZZZZ ZZZZZZ ZZZZZZ ZZZZZZ ZZZZZ	25820 36438 38006 31175 28278 27916	4.53 4.53 4.53 4.53 4.53 4.54	98899 135873 147822 87720 100955 103981	5.45 5.45 5.45 5.45 5.45 5.51	51391 71112 74836 53336 53593 69094	6.82 6.82 6.82 6.82 6.82 6.84	106652 118159 127085 89212 91783 119606	8.61 8.60 8.60 8.60 8.61 8.63	86926 88240 94277 71409 89149 56122	13.75 13.75 13.75 13.75 13.75 13.80	60026 91889 101419 58860 96610 62455	16.76 16.77 16.76 16.77 16.76 16.86

IS 1 = 1,4-Dichlorobenzene-d4

IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(c) rr int 1# low

⁽a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

⁽b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JC85988

Account: DRAKEPET Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

 Check Std:
 EF7899-CC7873
 Injection Date:
 04/15/19

 Lab File ID:
 F183869.D
 Injection Time:
 09:35

 Instrument ID:
 GCMSF
 Method:
 EPA 625.1

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std Upper Limit ^a Lower Limit ^b	38103 76206 19052	4.53 5.03 4.03	132790 265580 66395	5.45 5.95 4.95	69102 138204 34551	6.82 7.32 6.32	130264 260528 65132	8.61 9.11 8.11	121137 242274 60569	13.77 14.27 13.27	113122 226244 56561	16.80 17.30 16.30
Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP19737-MB1 OP19658-MB1 OP19658-BS13 OP19658-BS14 OP19658-BS15 OP19695-MB1 OP19695-BS14 ZZZZZZ ZZZZZZ	39874 30766 35979 36449 31949 30217 34057 34872 27684	4.53 4.53 4.53 4.53 4.53 4.53 4.53 4.53	142239 116036 114757 130058 116764 111116 139661 110007 103158	5.45 5.44 5.44 5.45 5.44 5.45 5.44 5.45	71990 61759 60238 56915 60894 56571 62058 54959 53634	6.82 6.81 6.81 6.81 6.82 6.81 6.81	123479 108092 100875 90267 98852 99637 96579 94958 89872	8.61 8.60 8.61 8.61 8.60 8.60 8.60 8.60	80754 77197 82546 68622 78021 89861 78451 73592 73118	13.76 13.75 13.76 13.75 13.75 13.75 13.75 13.75	85319 92831 96051 79674 82703 93490 85132 79860 80003	16.78 16.78 16.78 16.78 16.78 16.78 16.78 16.78
ZZZZZZ ZZZZZZ ZZZZZZ ZZZZZZ ZZZZZZ ZZZZZ	31599 33738 31739 33894 35561 37607	4.53 4.53 4.53 4.53 4.53 4.53	122148 118612 126634 120791 105024 130956	5.45 5.45 5.45 5.46 5.45 5.46	57682 85963 67569 70958 51811 61991	6.81 6.82 6.82 6.82 6.82 6.84	106243 102620 118206 102873 98083 100880	8.60 8.61 8.61 8.61 8.61 8.65	82294 80679 70534 85384 74546 90488	13.75 13.76 13.77 13.78 13.77 13.79	83104 89051 86200 97730 79147 99888	16.78 16.79 16.82 16.81 16.80 16.80

IS 1 = 1,4-Dichlorobenzene-d4

IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-D10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JC85988

Account: DRAKEPET Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

Method: EPA 625.1 Matrix: AQ

Samples and QC shown here apply to the above method

Lab	Lab						
Sample ID	File ID	S1	S2	S3	S4	S5	S6
JC85988-1	F183827.D	47	32	84	94	76	106
OP19695-BS1	F183822.D	51	37	95	102	114	118
OP19695-BSD	F183823.D	50	33	82	94	89	108
OP19695-MB1	F183821.D	48	33	94	100	86	119
OP19695-MB1	F183880.D	48	30	90	103	86	112

Surrogate	Recovery
Compounds	Limits

S1 = 2-Fluorophenol	10-110%
S2 = Phenol-d5	10-110%
S3 = 2,4,6-Tribromophenol	35-147%
S4 = Nitrobenzene-d5	32-132%
S5 = 2-Fluorobiphenyl	40-117%
S6 = Terphenyl-d14	33-126%

Surrogate Recovery Summary

Job Number: JC85988

Account: DRAKEPET Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

Method: EPA 625 BY SIM Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3
JC85988-1	4M83204.D	97	86	86
JC85988-1	4M83328.D	94	157* a	67
OP19695A-BS12	4M83202.D	111	97	105
OP19695A-BSD12	24M83203.D	110	96	103
OP19695A-MB1	4M83201.D	109	95	104

Surrogate Recovery Compounds Limits

 S1 = Nitrobenzene-d5
 21-146%

 S2 = 2-Fluorobiphenyl
 12-135%

 S3 = Terphenyl-d14
 10-145%

(a) Outside of in house control limits.

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

C

Job Number: JC85988

Method Blank Summary

Account: DRAKEPET Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

Sample OP19705-MB1	File ID 7G32041.D	DF 1	Analyzed 04/15/19	By VDT	Prep Date 04/15/19	Prep Batch OP19705	Analytical Batch G7G1131

Limits

The QC reported here applies to the following samples:

Method: EPA 504.1

JC85988-1

CAS No.

CAS No.	Compound	Result	RL	MDL	Units Q
106-93-4	1,2-Dibromoethane	ND	0.020	0.0061	ug/l

3017-95-6	2-Bromo-1-chloropropane	112%	70-130%
3017-95-6	2-Bromo-1-chloropropane	103%	70-130%

Surrogate Recoveries

Page 1 of 1

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC85988

Account: DRAKEPET Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

Sample OP19705-BS1 OP19705-BSD	File ID 7G32042.D 7G32043.D	DF 1 1	Analyzed 04/15/19 04/15/19	By VDT VDT	Prep Date 04/15/19 04/15/19	Prep Batch OP19705 OP19705	Analytical Batch G7G1131 G7G1131

The QC reported here applies to the following samples:

Method: EPA 504.1

JC85988-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
106-93-4	1,2-Dibromoethane	0.5	0.57	114	0.60	120	5	70-130/24

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
3017-95-6	2-Bromo-1-chloropropane	117%	115%	70-130%
3017-95-6	2-Bromo-1-chloropropane	107%	107%	70-130%

^{* =} Outside of Control Limits.

Page 1 of 1

Surrogate Recovery Summary

Job Number: JC85988

Account: DRAKEPET Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

Method: EPA 504.1 Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 ^a	S1 b
JC85988-1	7G32045.D	110	108
OP19705-BS1	7G32042.D	117	107
OP19705-BSD	7G32043.D	115	107
OP19705-MB1	7G32041.D	112	103

Surrogate Recovery Compounds Limits

S1 = 2-Bromo-1-chloropropane 70-130%

(a) Recovery from GC signal #2

(b) Recovery from GC signal #1



Section 9

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries

Method: EPA 608.3

1.1

Method Blank Summary

Job Number: JC85988

Account: DRAKEPET Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP19706-MB1	5G87514.D	1	04/12/19	SK	04/12/19	OP19706	G5G2105

The QC reported here applies to the following samples:

JC85988-1

CAS No.	Compound	Result	RL	MDL	Units Q
12674-11-2	Aroclor 1016	ND	0.25	0.098	ug/l
	Aroclor 1221	ND	0.25	0.21	ug/l
11141-16-5	Aroclor 1232	ND	0.25	0.13	ug/l
53469-21-9	Aroclor 1242	ND	0.25	0.11	ug/l
12672-29-6	Aroclor 1248	ND	0.25	0.063	ug/l
11097-69-1	Aroclor 1254	ND	0.25	0.21	ug/l
11096-82-5	Aroclor 1260	ND	0.25	0.076	ug/l

CAS No.	Surrogate Recoveries		Limits
877-09-8	Tetrachloro-m-xylene	81%	10-159%
877-09-8	Tetrachloro-m-xylene	88%	10-159%
2051-24-3	Decachlorobiphenyl	88%	10-135%
2051-24-3	Decachlorobiphenyl	93%	10-135%

Page 1 of 1

Method: EPA 608.3

c

Blank Spike/Blank Spike Duplicate Summary

Job Number: JC85988

Account: DRAKEPET Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

The QC reported here applies to the following samples:

JC85988-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
12674-11-2	Aroclor 1016	2	1.5	75	1.8	90	18	50-140/34
11104-28-2	Aroclor 1221		ND		ND		nc	60-140/30
11141-16-5	Aroclor 1232		ND		ND		nc	60-140/30
53469-21-9	Aroclor 1242		ND		ND		nc	60-140/30
12672-29-6	Aroclor 1248		ND		ND		nc	70-130/30
11097-69-1	Aroclor 1254		ND		ND		nc	60-140/30
11096-82-5	Aroclor 1260	2	1.5	75	1.9	95	24	50-140/38

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
877-09-8	Tetrachloro-m-xylene	68%	80%	10-159%
877-09-8	Tetrachloro-m-xylene	74%	87%	10-159%
2051-24-3	Decachlorobiphenyl	74%	90%	10-135%
2051-24-3	Decachlorobiphenyl	78%	95%	10-135%

^{* =} Outside of Control Limits.

Surrogate Recovery Summary

Job Number: JC85988

Account: DRAKEPET Drake Petroleum Company, Inc.

Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

Method: EPA 608.3 Matrix: AQ

Samples and QC shown here apply to the above method

Lab	Lab				
Sample ID	File ID	S1 a	S1 b	S2 a	S2 b
JC85988-1	5G87517.D	68	72	76	81
OP19706-BS1	5G87515.D	68	74	74	78
OP19706-BSD	5G87516.D	80	87	90	95
OP19706-MB1	5G87514.D	81	88	88	93

Surrogate Recovery Compounds Limits

S1 = Tetrachloro-m-xylene 10-159% S2 = Decachlorobiphenyl 10-135%

(a) Recovery from GC signal #1

(b) Recovery from GC signal #2

SGS





Metals Analysis

Dayton, NJ

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries



BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: JC85988

Account: DRAKEPET - Drake Petroleum Company, Inc. Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

QC Batch ID: MP14085 Matrix Type: AQUEOUS Methods: EPA 200.8 Units: ug/l

Prep Date:

04/11/19

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	. 28	12		-
Antimony	2.0	.094	.88	-0.023	<2.0
Arsenic	1.0	.013	.25	0.0096	<1.0
Barium	1.0	.008	.36		
Beryllium	0.50	.004	.065		
Boron	50	.65	18		
Cadmium	0.50	.004	.099	-0.0025	<0.50
Calcium	250	6.1	35		
Chromium	4.0	.014	.33	0.038	<4.0
Cobalt	0.50	.002	.06		
Copper	4.0	.021	2.1	0.077	<4.0
Iron	50	.43	12	2.4	<50
Lead	0.50	.009	.14	0.018	<0.50
Magnesium	250	.15	43		
Manganese	1.0	.007	.38		
Molybdenum	1.0	.015	.18		
Nickel	4.0	.017	1.3	0.048	<4.0
Potassium	250	.71	43		
Selenium	1.0	.072	.65	-0.013	<1.0
Silver	2.0	.004	.067	0.0015	<2.0
Sodium	250	1	50		
Strontium	5.0	.003	.65		
Thallium	0.50	.004	.085		
Tin	5.0	.071	.62		
Titanium	1.0	.035	.63		
Vanadium	4.0	.009	.48		
Zinc	10	.029	3.7	1.8	<10

Associated samples MP14085: JC85988-1

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC85988 Account: DRAKEPET - Drake Petroleum Company, Inc. Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

QC Batch ID: MP14085 Methods: EPA 200.8 Matrix Type: AQUEOUS Units: ug/l

04/11/19 04/11/19 Prep Date:

								//	
Metal	BSP Result	Spikelot MPX200.8		QC Limits	BSD Result	Spikelo MPX200.	t 8B% Rec	BSD RPD	QC Limit
Aluminum									
Antimony	79.5	80	99.4	85-115	78.2	80	97.8	1.6	20
Arsenic	74.9	80	93.6	85-115	73.9	80	92.4	1.3	20
Barium									
Beryllium									
Boron									
Cadmium	77.2	80	96.5	85-115	76.5	80	95.6	0.9	20
Calcium									
Chromium	78.9	80	98.6	85-115	76.7	80	95.9	2.8	20
Cobalt									
Copper	77.4	80	96.8	85-115	75.8	80	94.8	2.1	20
Iron	2010	2000	100.5	85-115	1970	2000	98.5	2.0	20
Lead	78.4	80	98.0	85-115	78.3	80	97.9	0.1	20
Magnesium									
Manganese									
Molybdenum									
Nickel	77.2	80	96.5	85-115	75.8	80	94.8	1.8	20
Potassium									
Selenium	197	200	98.5	85-115	195	200	97.5	1.0	20
Silver	77.4	80	96.8	85-115	78.3	80	97.9	1.2	20
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	76.3	80	95.4	85-115	74.7	80	93.4	2.1	20

Associated samples MP14085: JC85988-1

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits (anr) Analyte not requested



BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: JC85988

Account: DRAKEPET - Drake Petroleum Company, Inc. Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

QC Batch ID: MP14149 Methods: EPA 245.1 Matrix Type: AQUEOUS Units: ug/1

Prep Date: 04/12/19

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.035	.092	0.094	<0.20

Associated samples MP14149: JC85988-1

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits $\bar{\ }$

(anr) Analyte not requested

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SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC85988

Account: DRAKEPET - Drake Petroleum Company, Inc. Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

QC Batch ID: MP14149 Matrix Type: AQUEOUS Methods: EPA 245.1 Units: ug/l

Prep Date:

04/12/19

04/12/19

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits	BSD Result	Spikelot HGPW3	% Rec	BSD RPD	QC Limit
Mercury	2.2	2	110.0	85-115	2.1	2	105.0	4.7	

Associated samples MP14149: JC85988-1

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits $\bar{\ }$

(anr) Analyte not requested

BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: JC85988

Account: DRAKEPET - Drake Petroleum Company, Inc. Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

QC Batch ID: MP14584 Matrix Type: AQUEOUS Methods: EPA 200.8 Units: ug/l

Prep Date:

04/26/19

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	. 27	12		
Antimony	2.0	.061	.88	-0.030	<2.0
Arsenic	1.0	.008	. 25	0.0095	<1.0
Barium	1.0	.01	.36		
Beryllium	0.50	.005	.065		
Boron	50	.67	18		
Cadmium	0.50	.002	.099	-0.00001	7<0.50
Calcium	250	1.8	35		
Chromium	4.0	.018	.33	0.032	<4.0
Cobalt	0.50	.002	.06		
Copper	4.0	.006	2.1	0.084	<4.0
Iron	50	.16	12	0.47	<50
Lead	0.50	.004	.14	0.0036	<0.50
Magnesium	250	.14	43		
Manganese	1.0	.005	.38		
Molybdenum	1.0	.01	.18		
Nickel	4.0	.008	1.3	0.034	<4.0
Potassium	250	1	43		
Selenium	1.0	. 4	.65	-0.0083	<1.0
Silver	2.0	.002	.067	0.00061	<2.0
Sodium	250	.28	50		
Strontium	5.0	.003	.65		
Thallium	0.50	.002	.085		
Tin	5.0	.035	.62		
Titanium	1.0	.02	.63		
Vanadium	4.0	.023	.48		
Zinc	10	.023	3.7	1.4	<10

Associated samples MP14584: JC85988-2R

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits (anr) Analyte not requested

Page 1



SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC85988
Account: DRAKEPET - Drake Petroleum Company, Inc.
Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

QC Batch ID: MP14584 Methods: EPA 200.8 Matrix Type: AQUEOUS Units: ug/1

Prep Date:			04/26/19)				04/26/19	
Metal	BSP Result	Spikelot		QC Limits	BSD Result	Spikelo MPX200.		BSD RPD	QC Limit
Aluminum									
Antimony	74.6	80	93.3	85-115	75.5	80	94.4	1.2	20
Arsenic	74.5	80	93.1	85-115	74.0	80	92.5	0.7	20
Barium	anr								
Beryllium									
Boron									
Cadmium	77.2	80	96.5	85-115	75.3	80	94.1	2.5	20
Calcium									
Chromium	75.9	80	94.9	85-115	75.0	80	93.8	1.2	20
Cobalt									
Copper	73.9	80	92.4	85-115	72.8	80	91.0	1.5	20
Iron	2140	2000	107.0	85-115	2120	2000	106.0	0.9	20
Lead	76.7	80	95.9	85-115	75.6	80	94.5	1.4	20
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	74.9	80	93.6	85-115	73.8	80	92.3	1.5	20
Potassium									
Selenium	214	200	107.0	85-115	215	200	107.5	0.5	20
Silver	77.4	80	96.8	85-115	77.2	80	96.5	0.3	20
Sodium									
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium									

Associated samples MP14584: JC85988-2R

75.6

Zinc

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits (anr) Analyte not requested

75.6

80

94.5



85-115

BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: JC85988

Account: DRAKEPET - Drake Petroleum Company, Inc. Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

QC Batch ID: MP14647 Methods: EPA 245.1 Matrix Type: AQUEOUS Units: ug/1

Prep Date: 04/29/19

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.048	.092	0.060	<0.20

Associated samples MP14647: JC85988-2R

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits $\bar{\ }$

(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JC85988 Account: DRAKEPET - Drake Petroleum Company, Inc. Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

QC Batch ID: MP14647 Methods: EPA 245.1 Matrix Type: AQUEOUS Units: ug/l

04/29/19

Metal	BSD Result	Spikelot HGPW3	: % Rec	BSD RPD	QC Limit	BSP Result	Spikelot HGPW3	% Rec	QC Limits
Mercury	2.3	2	115.0	19.0		1.9	2	95.0	85-115

04/29/19

Associated samples MP14647: JC85988-2R

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits $\begin{tabular}{ll} \end{tabular}$

(anr) Analyte not requested

Prep Date:

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General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries



METHOD BLANK AND SPIKE RESULTS SUMMARY GENERAL CHEMISTRY

Login Number: JC85988 Account: DRAKEPET - Drake Petroleum Company, Inc. Project: CEAMAW: 19, 25 Beach Road, Vinyard Haven, MA

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP20624/GN94125	2.0	0.0	mg/l	80	72.9	91.1	90-110%
Chromium, Hexavalent	GN93851	0.010	0.0	mg/l	0.150	0.15	100.0	90-110%
Cyanide	GP20587/GN94092	0.010	0.0	mg/l	0.0833	0.0868	104.2	90-110%
HEM Petroleum Hydrocarbons	GP20573/GN94076	5.0	0.0	mg/l	20.05	14.2	70.8	64-1328
Hardness, Total as CaCO3	GN94164			mg/l	160	164	102.5	80-120%
Hardness, Total as CaCO3	GN94164			mg/l	80	82.0	102.5	80-120%
Hardness, Total as CaCO3	GN94164			mg/l	160	164	102.5	80-120%
Hardness, Total as CaCO3	GN94164	4.0	0.0	mg/l	80	82.0	102.5	80-120%
Nitrogen, Ammonia	GP20553/GN93992	0.20	0.0	mg/l	1	0.981	98.1	80-120%
Solids, Total Suspended	GN94079	4.0	0.0	mg/l				
Specific Conductivity	GN94597			umhos/cm	1412	1420	100.6	99-101%
Sulfate	GP20624/GN94125	2.0	0.0	mg/l	80	72.6	90.8	90-110%
Total Residual Chlorine	GN93905	0.10	0.0	mg/l	1.0	0.96	96.0	90-110%

Associated Samples:

Batch GN93851: JC85988-1 Batch GN93905: JC85988-1 Batch GN94079: JC85988-1

Batch GN94164: JC85988-1, JC85988-2 Batch GN94597: JC85988-2T

Batch GP20553: JC85988-1, JC85988-2

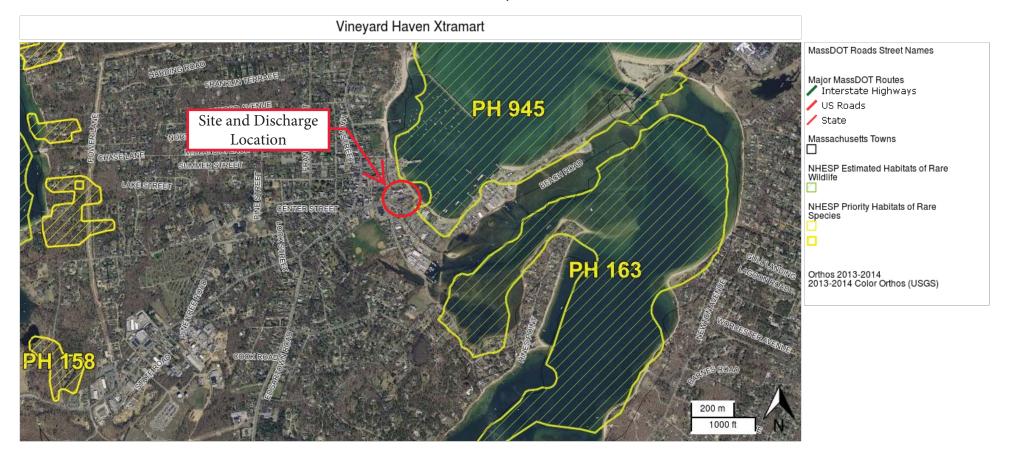
Batch GP20573: JC85988-1 Batch GP20587: JC85988-1 Batch GP20624: JC85988-1 (*) Outside of QC limits

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ATTACHMENT C

NHESP Map





ATTACHMENT D

United States Department of the Interior, Fish and Wildlife Services (FWS)

Threatened or Endangered Species or Critical Habitat Letter





United States Department of the Interior

FISH AND WILDLIFE SERVICE

New England Ecological Services Field Office 70 Commercial Street, Suite 300 Concord, NH 03301-5094 Phone: (603) 223-2541 Fax: (603) 223-0104

http://www.fws.gov/newengland



In Reply Refer To: April 24, 2019

Consultation Code: 05E1NE00-2019-SLI-1522

Event Code: 05E1NE00-2019-E-03683 Project Name: Vineyard Haven Xtramart

Subject: List of threatened and endangered species that may occur in your proposed project

location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New England Ecological Services Field Office 70 Commercial Street, Suite 300 Concord, NH 03301-5094 (603) 223-2541

Project Summary

Consultation Code: 05E1NE00-2019-SLI-1522

Event Code: 05E1NE00-2019-E-03683

Project Name: Vineyard Haven Xtramart

Project Type: DREDGE / EXCAVATION

Project Description: Discharge of treated groundwater to municipal storm drain catch basin

located at intersection of Lagoon Pond Road and Beach Rd in Tisbury, MA. The municipal storm drain system discharges to Vineyard Haven Harbor at an outfall located at the end of Beach Street Extension,

approximately 425 feet from the site and approximately 500 feet from the municipal storm drain catch basin where discharge from the treatment

system will enter the municipal storm drain system.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/41.45374876467977N70.6006019476954W



Counties: Dukes, MA

Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME STATUS

Northern Long-eared Bat *Myotis septentrionalis*

Threatened

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045

Birds

NAME STATUS

Roseate Tern Sterna dougallii dougallii

Endangered

Population: northeast U.S. nesting pop.

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2083

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

ATTACHMENT E

MACRIS Historic Places Report



Massachusetts Cultural Resource Information System MACRIS

MACRIS Search Results

Search Criteria: Town(s): Tisbury; Place: Vineyard Haven; Resource Type(s): Area, Building, Burial Ground, Object, Structure;

Inv. No.	Property Name	Street	Town	Year
TIS.A	William Street Historic District		Tisbury	
TIS.E	Tashmoo Springs Pumping Station		Tisbury	
TIS.F	Martha's Vineyard American Revolution Battlefield		Tisbury	
TIS.116	Martha's Vineyard Co-Op Grocery Store	Beach Rd	Tisbury	
TIS.907	Beach Road Bridge	Beach Rd	Tisbury	1935
TIS.56	Ritter House (Jirah Luce House)	Beach St	Tisbury	1796
TIS.91	Daggett, Capt. Seth House	Beach St	Tisbury	1801
TIS.98	Crowell, Hebron - West, Dr. Thomas House	Causeway Rd	Tisbury	1743
TIS.902	Tisbury World War I Monument	Causeway Rd	Tisbury	1925
TIS.92	Luce, Capt. Barnard House	Center St	Tisbury	1840
TIS.20	Harding, Capt. Edward Lincoln House	8 Center St	Tisbury	1837
TIS.30	Harding, Capt. Ephraim House	14 Center St	Tisbury	c 1838
TIS.34	Capawock Hall - Methodist Church	10 Church St	Tisbury	1833
TIS.15	West, David Porter House	14 Church St	Tisbury	r 1850
TIS.170	Prouty, Caleb House	15 Cromwell Ln	Tisbury	c 1838
TIS.801	Proprietors' Burying Ground	Franklin St	Tisbury	c 1770
TIS.142	Marine Hospital	Howard Ave	Tisbury	c 1895
TIS.93	Presbury, John House	Lagoon Pond	Tisbury	1719
TIS.136	Vineyard Haven Marine Hospital	Lagoon Pond Rd	Tisbury	1895
TIS.141	Vineyard Haven Marine Hospital Addition	Lagoon Pond Rd	Tisbury	1938
TIS.77	Smith, Capt. Lorenzo House	Main St	Tisbury	r 1830
TIS.78	Baxter, Malachi House	Main St	Tisbury	1777
TIS.80	Dexter, Rodolphus W. House	Main St	Tisbury	r 1844
TIS.81	Daggett, Samuel - Dias, Capt. Joseph House	Main St	Tisbury	1733
TIS.82	Newcomb House	Main St	Tisbury	c 1801
TIS.83	Newcomb, Capt. Alexander House	Main St	Tisbury	1801

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Inv. No.	Property Name	Street	Town	Year
ΓIS.84	Chase, Thomas House	Main St	Tisbury	1712
TS.85	Harding, William House	Main St	Tisbury	c 1805
IS.86	Martha's Vineyard National Bank	Main St	Tisbury	1905
TS.115		Main St	Tisbury	r 1870
TS.117		Main St	Tisbury	c 1880
TIS.118	Bradley, Catherine M. House	Main St	Tisbury	c 1880
TIS.139	Cromwell, Peter House	Main St	Tisbury	c 1844
TIS.905	Owen, William Barry Park	Main St	Tisbury	c 1922
TS.79	Manter, Ellis H. House	102 Main St	Tisbury	c 1845
TS.35	Mayhew, Nathan School House	110 Main St	Tisbury	1828
TS.24	Mayhew, Nathan House	114 Main St	Tisbury	1840
TS.23	Childs, Calvin House	116 Main St	Tisbury	1914
TIS.19	Crowell, Edmund House	118 Main St	Tisbury	1805
TS.18	Luce, Tristam House	122 Main St	Tisbury	1815
TS.16	Crowell, Arnold House	124 Main St	Tisbury	c 1842
TS.2	Crowell, Capt. Joseph House	126 Main St	Tisbury	r 1843
TS.119	Chase, Timothy House	130 Main St	Tisbury	1720
TS.900	Tisbury Civil War Memorial	Pine Tree Rd	Tisbury	1907
TS.901	Bethel Monument	Pine Tree Rd	Tisbury	r 1910
TS.103		South Main St	Tisbury	c 1880
TS.104	Butler, Dr. Winthrop House	South Main St	Tisbury	c 1850
TS.106		South Main St	Tisbury	c 1880
TS.124	Revel, Hannah House	South Main St	Tisbury	c 1870
TS.125	Dexter, Col. Joseph House	South Main St	Tisbury	r 1775
TS.126	Dexter, Capt. Joseph Jr. House	South Main St	Tisbury	c 1809
TS.137	Chase, Zephaniah - Luce, Matthew House	South Main St	Tisbury	c 1788
TS.140	Martha's Vineyard Cooperative Bank	South Main St	Tisbury	c 1800
TS.123		31 South Main St	Tisbury	c 1880
TS.41	Merry, Timothy House	5 Spring St	Tisbury	c 1795
TS.38	Luce, Jane Smith House	11 Spring St	Tisbury	r 1846
TS.40	First Baptist Church	17 Spring St	Tisbury	1883
TS.39	First Baptist Church Parsonage	19 Spring St	Tisbury	1883
TS.32	Tisbury Town Hall - Association Hall	21 Spring St	Tisbury	1844
TS.37	Howland, John W. House	29 Spring St	Tisbury	1864
TS.48	Luce, Timothy House	30 Spring St	Tisbury	r 1854
TS.55	Kidder, Eugenia Norton House	34 Spring St	Tisbury	c 1900
TS.36	Howland, John W. House	36 Spring St	Tisbury	r 1849
TS.87	Luce, Jonathan Cooper Shop and Sail Loft	Union St	Tisbury	c 1834
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Inv. No.	Property Name	Street	Town	Year
TIS.88	Seamen's Friends Society of Boston	Union St	Tisbury	1893
TIS.89	Daggett, Capt. Samuel House	Union St	Tisbury	1785
TIS.802	Crossways Cemetery	Villa Dr	Tisbury	1719
TIS.90	Rotch, William J. Old Steam Mill	Water St	Tisbury	1881
TIS.96	Tashmoo Springs Pumping Station	325 West Spring St	Tisbury	1887
TIS.97	Tashmoo Springs Pumping Station Garage	325 West Spring St	Tisbury	1919
TIS.169	Tashmoo Springs Pumping Station Shed	325 West Spring St	Tisbury	1932
TIS.915	Tashmoo Springs Pumping Station Intake Tank	325 West Spring St	Tisbury	1924
TIS.916	Tashmoo Springs Pumping Station Valve Cover	325 West Spring St	Tisbury	1924
TIS.917	Tashmoo Springs Pumping Station Intake Structure	325 West Spring St	Tisbury	1938
TIS.918	Tashmoo Springs Pumping Station Dike	325 West Spring St	Tisbury	1938
TIS.919	Tashmoo Springs Pumping Station Reservoir	325 West Spring St	Tisbury	1938
TIS.920	Tashmoo Springs Pumping Station Entrance Pillars	325 West Spring St	Tisbury	c 1887
TIS.921	Tashmoo Springs Pumping Station Access Road	325 West Spring St	Tisbury	c 1887
TIS.922	Tashmoo Springs Pumping Station Storage Unit	325 West Spring St	Tisbury	r 1980
TIS.923	Tashmoo Springs Pumping Station Coal Bunker	325 West Spring St	Tisbury	r 1920
TIS.11	Brown, Benjamin F. House	24 William St	Tisbury	c 1842
TIS.10	Norton, Shubael House	26 William St	Tisbury	1837
TIS.46	Simmons, Abbe R. House	27 William St	Tisbury	c 1881
TIS.28	Peakes, James D. House	31 William St	Tisbury	c 1844
TIS.27	Luce, Jesse House	35 William St	Tisbury	c 1846
TIS.43	Harding, Capt. Charles D. House	39 William St	Tisbury	c 1838
TIS.9	Luce, Capt. Richard House	40 William St	Tisbury	1833
TIS.42	Tuckerman, Thomas House	45 William St	Tisbury	c 1837
TIS.14	Swain, John House	49 William St	Tisbury	c 1838
TIS.8	Bradley, Thomas House	52 William St	Tisbury	1835
TIS.12	Crowell, Capt. William House	53 William St	Tisbury	1839
TIS.7	Luce, Matthew House	66 William St	Tisbury	1840
TIS.6	Dexter, Capt. Elisha House	70 William St	Tisbury	c 1842
TIS.29	Barrows, Thomas House	73 William St	Tisbury	1839
TIS.5	Skiff, Nathan House	74 William St	Tisbury	1849
TIS.44	Daggett, Capt. William Jr. House	76 William St	Tisbury	c 1846
TIS.17	Carey, Mary C. House	79 William St	Tisbury	1840
TIS.45	Daggett, Alonzo House	84 William St	Tisbury	r 1845
TIS.3	Daggett, William III House	88 William St	Tisbury	c 1858
TIS.33	Christ United Methodist Church	89 William St	Tisbury	1924

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Inv. No.	Property Name	Street	Town	Year
TIS.25	Downs, William C. House	97 William St	Tisbury	r 1850
TIS.47	Down, Charles House	98 William St	Tisbury	1842
TIS.31	Manter, Henry House	101 William St	Tisbury	r 1850
TIS.26	Robinson, William House	103 William St	Tisbury	1909
TIS.1	Daggett, Freeman House	104 William St	Tisbury	1841
TIS.22	Hursell, Richard L. House	107 William St	Tisbury	r 1854
TIS.49	Cromwell, Capt. B. C. House	108 William St	Tisbury	1873
TIS.21	Daggett, Leander House	109 William St	Tisbury	c 1840
TIS.50	Robinson, John B. House	112 William St	Tisbury	r 1856
TIS.51	Tilton, Calvin House	116 William St	Tisbury	r 1855
TIS.52	Harding, Capt. George G. House	118 William St	Tisbury	c 1866
TIS.13	Crowell, John House	123 William St	Tisbury	c 1886
TIS.53	Robinson, Col. Augustus G. House	124 William St	Tisbury	1882
TIS.54	Grace Episcopal Church and Parish House	128 William St	Tisbury	1882

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