

Details

Print

NPDES
FORM
6100-045



Notice of Intent (NOI) for NPDES Permit Coverage under the EPA Region 1 General Permit for Dewatering and Remediation Discharges (MAG910000, NHG910000, CTG910000, RIG910000, and VTG910000)

Form Approved.
OMB No. 2040-0004
Exp. 03/31/2022

Permit Information

Master Permit Number [NHG910000](#)

NPDES ID: [NHG910103](#)

Public Availability of Information Submitted on and with General Permit Reports

EPA may make all the information submitted through this form (including all attachments) available to the public without further notice to you. Do not use this online form to submit personal information (e.g., non-business cell phone number or non-business email address), confidential business information (CBI), or if you intend to assert a CBI claim on any of the submitted information. Pursuant to 40 CFR 2.203(a), EPA is providing you with notice that all CBI claims must be asserted at the time of submission. EPA cannot accommodate a late CBI claim to cover previously submitted information because efforts to protect the information are not administratively practicable since it may already be disclosed to the public. Although we do not foresee a need for persons to assert a claim of CBI based on the types of information requested in this form, if persons wish to assert a CBI claim we direct submitters to contact the NPDES eReporting Help Desk (NPDESereporting@epa.gov (mailto:NPDESereporting@epa.gov)) for further guidance.

Eligibility Information

State/territory where your site is discharging: NH

Does your site discharge to federally recognized Indian Country lands? No

Are you a Federal Operator? No

Is the proposed discharge to a Water of the United States, either directly, or indirectly such as via an MS4? Yes

Select all activities that this site is requesting coverage for:

Site Remediation
Infrastructure Dewatering

Are you requesting coverage for any of the following wastewaters? Yes

- Groundwater
- Stormwater
- Potable Water
- Surface Water

Have discharges from your site been previously covered under a NPDES permit? Yes

➔ Enter the NPDES ID of this permit coverage: [nhg910070](#)

Are you a new source discharger as defined in 40 CFR §122.2 (https://www.ecfr.gov/cgi-bin/retrieveECFR?gp=&SID=2c38bb6a9aad6c054be9d65ce506fe7&mc=true&n=pt40.24.122&r=PART&ty=HTML#se40.24.122_12)?
No

Will the discharge last 6 months or more? Yes

➔ Will the discharge last 1 year or more? Yes

➔ Has an antidegradation review been conducted for this discharge? Yes

Does your facility discharge to Outstanding Resource Waters (ORWS)? No

Does your site discharge to territorial seas, as defined by Section 502 of the CWA? No

Does your site discharge to a river designated as a Wild and Scenic River that is not in accordance with 16 U.S.C. 1271 et seq? See Part 1.4 for more information. No

Does your site discharge to Class A waters? No

Do you discharge to lakes or ponds? No

Are there remediation or dewatering discharges from your site resulting from on-site response action conducted pursuant to §§104, 106, 120, 121 or 122 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)?
No

Does your site discharge to a Publicly Owned Treatment Works (POTW) which are permitted under Section 402 of the CWA? No

Does your site discharge dredge-related waters where the United States Army Corps of Engineers (ACE) authorizes the discharge of pollutants under a CWA §404 permit? No

Operator Information

Operator Formal Name: [Verdantas LLC](#)

Operator Organization's Mailing Address:

Address Line 1: [273 West Main Street](#)

Address Line 2:

City: [Norton](#)

ZIP/Postal Code: 02766

State: MA

County or Similar Division: Bristol

Operator Point of Contact Information

First Name Middle Initial Last Name: Angela Boyd

Title: Senior Project Manager

Phone: 508-361-9112

Ext.:

Email: aboyd@verdantas.com

Is your site owned by a different entity? Yes

Site Owner Name: Glenn Springs Holdings, Inc

Owner Contact Information

First Name Middle Initial Last Name: Lisa Waskom

Title: Project Manager

Phone: 713-552-8765

Ext.:

Email: Lisa_Waskom@oxy.com

Owner Address Information

Address Line 1: 5 Greenway Plaza

Address Line 2:

City: Houston

ZIP/Postal Code: 77046

State: TX

County or Similar Division: Houston

Does this site have additional operators (co-permittees) with active or pending requests for coverage under this general permit? No

Site Information

Site Information

Site Name: Whitten Street Park Groundwater Treatment Facility

Address Line 1: 9 Ferry Street

Address Line 2:

City: Allenstown

ZIP/Postal Code: 03275

State: NH

County or Similar Division: Merrimack

Latitude/Longitude for the Site

Latitude/Longitude: 43.127127°N, 71.456348°W

What is the ownership type of the site? Corporation

Is a State Remediation Program applicable to your site? Yes

List all release tracking/license/permit numbers and activity use limitations:

Leaking Underground Storage Tank site number 198400003

Site Description

Provide a written description of operation including site history/origin, the purpose of the activities conducted at the site, how the operation will generate wastewater, the pollutants present (i.e., detected in environmental samples at any concentration), and the distribution of these pollutants across the site (i.e., type of media/phase, spatial distribution). Must include a description of any pollutants present in soil or sediment, if that soil or sediment has not been removed from the site and will be disturbed during site activities.

A gasoline station once operated at the intersection of Main and Ferry Streets. In 1972, a release from the underground storage tank(s) was identified. Remediation efforts have been ongoing for decades, and a plume of dissolved gasoline-related compounds is present in Whitten Street Park, and the surrounding neighborhood. A community center is located in Whitten Street Park, and the lower level is cut into the water table. Water collected within the building's drainage system is treated at 9 Ferry Street, prior to discharge to the Town's stormwater system.

Discharge Information

Discharge Point 001: Stormdrain outfall located at the confluence of the Suncook and Merrimac Rivers

Is this discharge an emergency discharge? No

Discharge Point Daily Maximum Flow (MGD): 0.072

What was the State determination for your receiving water critical low flow? Receiving water critical low flow provided

What is your receiving water critical low flow (CFS)? Must be greater than 1. 591

Approval must be attached.

Select all source waters that this site is requesting coverage for:

- Groundwater

Did this discharge point reach the receiving water directly to an on-site system owned by the owner/operator? No

➤ Did this discharge point reach the receiving water indirectly to a municipal storm sewer system? Yes

➤ What is the name of the municipality? Allenstown

Contact Name: Mark Boisvert

Email: Highway@allenstownnh.gov

Approval must be obtained.

Describe how the discharge enters the receiving water, from the point of treatment to the receiving water. Make sure to identify any catch basins.

The groundwater treatment system is located at 9 Ferry Street in Allenstown, NH. The system discharges to a stormdrain located near the treatment shed. This leg of the Allenstown stormwater system leads to an outfall near the confluence of the Suncook and Merrimack Rivers.

Latitude and Longitude of the Site Discharge Point: 43.126983°N, 71.456324°W

Latitude and Longitude of the Receiving Water Discharge Point: 43.127908°N, 71.46136°W

Receiving Water

Waterbody Name:

Suncook River

Is this waterbody fresh water or salt water? Fresh Water

Select your Waterbody classification: Class B

➤ What is the waterbody type? River/Stream

Does this discharge point reach a cold water fishery or a warm water fishery? No

Does this discharge point reach a drinking water supply? No

What was the recorded pH of the receiving water sample? 6.52

What was the recorded temperature (°F) of the receiving water sample? 43

What was the recorded hardness in mg/L (CaCO₃) of the receiving water sample? 26

Have alternative pH effluent limits been approved? No

Wastewater Type Sampling Requirements

Groundwater Sample Results

Parameter	Present in Soil Only?	Value Qualifier	Maximum Influent Concentration	Test Method
Total Suspended Solids (mg/L)	false	=	11.8	
Turbidity (NTU)	false	=	21.7	
Total Nitrogen [as N] (mg/L)	false	=	0.22	
Total Dissolved Solids (mg/L)	false	=	452	
Chloride, total recoverable (mg/L)	false	=	167	
Copper Total Recoverable (µg/L)	false	<	10	200.7
Hydrocarbons, total petroleum (mg/L)	false	<	5	1664A
Arsenic Total Recoverable (µg/L)	false	=	59.7	
Iron Total Recoverable (µg/L)	false	=	12200	
Lead Total Recoverable (µg/L)	false	<	3	200.7
Cyanide, total as [CN] (µg/L)	false	<	0.01	335.4

Is the receiving water listed as impaired on the 303(d) list (<https://www.epa.gov/tmdl/region-1-impaired-waters-and-303d-lists-state>)? Yes

➤ Select the cause(s) of impairment.

- Mercury in Fish Tissue

Do you have any additional parameters listed in Appendix E or G in your discharge that are not listed in the sample table(s) above? No

Do you have any other additional parameters to disclose as required under part 2.1.3 case by case limitations? No

Discharge Limitations Information

Concentration Limits

Discharge Point	Parameter Name (code)	Reason for Limit	Unit of Measure	Limit 1	Statistical Base	Required Monitoring?	Limit 2	Statistical Base	Required Monitoring?	Were you provided an Adjusted Limit Value by the state?	Select the Limit(s) that were adjusted by the state to enter the adjusted Limit Values
001	pH (00400)	Wastewater Limit	SU	6.5	Minimum	<input type="checkbox"/>	8	Maximum	<input type="checkbox"/>	<input type="radio"/> Yes <input checked="" type="radio"/> No	<input type="checkbox"/> Concentration Limit 1 <input type="checkbox"/> Concentration Limit 2
001	Total Suspended Solids (00530)	Wastewater Limit	mg/L				30	Daily Maximum	<input type="checkbox"/>	<input type="radio"/> Yes <input checked="" type="radio"/> No	<input type="checkbox"/> Concentration Limit 1 <input type="checkbox"/> Concentration Limit 2
001	Turbidity (00070)	Wastewater Limit	NTU				50	Daily Maximum	<input type="checkbox"/>	<input type="radio"/> Yes <input checked="" type="radio"/> No	<input type="checkbox"/> Concentration Limit 1 <input type="checkbox"/> Concentration Limit 2
001	Total Nitrogen [as N] (00600)	Wastewater Limit	mg/L				10	Daily Maximum	<input type="checkbox"/>	<input type="radio"/> Yes <input checked="" type="radio"/> No	<input type="checkbox"/> Concentration Limit 1 <input type="checkbox"/> Concentration Limit 2
001	Total Dissolved Solids (70296)	Wastewater Limit	mg/L				500	Daily Maximum	<input type="checkbox"/>	<input type="radio"/> Yes <input checked="" type="radio"/> No	<input type="checkbox"/> Concentration Limit 1 <input type="checkbox"/> Concentration Limit 2
001	Chloride, total recoverable (00943)	Water Quality Limit	mg/L	1699332	Monthly Average	<input type="checkbox"/>	6354024	Daily Maximum	<input type="checkbox"/>	<input type="radio"/> Yes <input checked="" type="radio"/> No	<input type="checkbox"/> Concentration Limit 1 <input type="checkbox"/> Concentration Limit 2
001	Copper Total Recoverable (01119)	Water Quality Limit	µg/L	0	Monthly Average	<input type="checkbox"/>	242	Daily Maximum	<input type="checkbox"/>	<input type="radio"/> Yes <input checked="" type="radio"/> No	<input type="checkbox"/> Concentration Limit 1 <input type="checkbox"/> Concentration Limit 2
001	Hydrocarbons, total petroleum (82181)	Wastewater Limit	mg/L					Daily Maximum	<input checked="" type="checkbox"/>	<input type="radio"/> Yes <input checked="" type="radio"/> No	<input type="checkbox"/> Concentration Limit 1 <input type="checkbox"/> Concentration Limit 2
001	Arsenic Total Recoverable (00978)	Water Quality Limit	µg/L	1108260	Monthly Average	<input type="checkbox"/>	104	Daily Maximum	<input type="checkbox"/>	<input type="radio"/> Yes <input checked="" type="radio"/> No	<input type="checkbox"/> Concentration Limit 1 <input type="checkbox"/> Concentration Limit 2
001	Iron Total Recoverable (00980)	Water Quality Limit	µg/L	0	Monthly Average	<input type="checkbox"/>	5000	Daily Maximum	<input type="checkbox"/>	<input type="radio"/> Yes <input checked="" type="radio"/> No	<input type="checkbox"/> Concentration Limit 1 <input type="checkbox"/> Concentration Limit 2
001	Lead Total Recoverable (01114)	Water Quality Limit	µg/L	0	Monthly Average	<input type="checkbox"/>	160	Daily Maximum	<input type="checkbox"/>	<input type="radio"/> Yes <input checked="" type="radio"/> No	<input type="checkbox"/> Concentration Limit 1 <input type="checkbox"/> Concentration Limit 2
001	Cyanide, total as [CN] (00720)	Water Quality Limit	µg/L	38419.68	Monthly Average	<input type="checkbox"/>	162544.8	Daily Maximum	<input type="checkbox"/>	<input type="radio"/> Yes <input checked="" type="radio"/> No	<input type="checkbox"/> Concentration Limit 1 <input type="checkbox"/> Concentration Limit 2

Quantity Limits

Discharge Point	Parameter Name (code)	Reason for Limit	Unit of Measure	Limit 1	Statistical Base
001	Flow (50050)	Wastewater Limit	MGD	0.072	Daily Maximum

Additional Discharge Information Attachments *

Attachment is required if Alt pH is entered.

Attachment is required if state provided critical low flow (dilution factor) is selected.

If Indirect Discharge selected, please attach the indirect discharge analysis.

Name	Created Date	Size
JD58140GSHAllenstownSystem012023.pdf	02/27/2023 2:53 PM	310.18 KB
JD60375.pdf	02/27/2023 2:51 PM	172.07 KB
Critical low flow.pdf	02/16/2023 1:31 PM	190.65 KB

Treatment Information

Do you plan on applying treatment to your effluent prior to discharging? Yes

Row ID: 1

Indicate the type(s) of treatment that will be applied to your effluent prior to discharge: (select all that apply)

- Granulated Activated Carbon ("GAC")/Liquid Phase Carbon Adsorption
- Separation/Filtration

Provide a written description of all treatment system(s) or processes that will be applied to the effluent prior to discharge.

Water captured in the building drainage system is pumped to a wet well, and is then filtered through one of 3 parallel treatment trains. Each train includes a bag filter unit and two 500 pound carbon adsorbers. Treated water is then discharged to the storm drain system.

Identify each major treatment component: (select all that apply)

- Bag Filter

Is this treatment plant a mobile unit? No

Please select the discharge point that this treatment is being applied to:

- 001

Do you plan on applying chemical(s) or additive(s) to the discharge(s)? No

Schematic of Flow

Attach a schematic of flow including the following: the direction of water flow from the point of generation to the receiving water, the source water(s) with estimated volume noted, process water(s) with estimated volume noted, any treatment systems or processes with design flow noted, discharge point(s) with estimated volume noted, sampling points if different than discharge points, receiving water(s). *

Safety Data Sheet (SDS)

Attach the Safety Data Sheet (SDS) and Chemical Abstracts Service (CAS) Registry number for each chemical/additive *

Name	Created Date	Size
Activated Carbon SDS 2022.pdf	01/25/2023 10:46 AM	336.56 KB
GSH ALLENSTOWN PID 2023.pdf	02/27/2023 2:55 PM	83.28 KB
GSH ALLENSTOWN Drainage Map 2023.pdf	02/27/2023 2:54 PM	123.42 KB

Additional Information

Endangered Species Act

ESA eligibility for species under jurisdiction of USFWS

Indicate which criterion applies to the proposed discharge(s) under this general permit:

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".

➤ Has the documentation been attached? Use the attachment section below Yes

ESA eligibility for species under jurisdiction of NOAA Fisheries

Is the discharge to: the Connecticut River between the Massachusetts/Connecticut state line and Turners Falls, MA; the Taunton River; the Merrimack River between Lawrence, MA and the Atlantic Ocean; the Piscataqua River including the Salmon Falls and Cochecho Rivers; or a marine water?

No

National Historic Preservation Act

Indicate which criterion applies to the proposed discharge(s) 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.

Has the documentation been attached? Use the attachment section below. [Yes](#)

Environmental Justice Executive Order(s)

Indicate which criterion applies to the proposed discharge(s) under this general permit: [EJ Criterion A: No environmental justice indices are in proximity to the discharges or related activities.](#)

Has the documentation been attached? Use the attachment section below. [Yes](#)

Has the Municipal Review been attached? Use the attachment section below to attach any discharge permit issued by a municipality or indicate if a permit will be issued upon approval from EPA; Attach any written determination by a Conservation Commission, i.e., Order of Conditions.

[No](#)

State Antidegradation Review

Has the State Antidegradation Review been attached? Use the attachment section below. [Yes](#)

SWPP/BMPP

Indicate which criterion applies to the proposed discharge(s) under this general permit: [Existing discharge: A BMPP meeting the requirements of this general permit has been developed and implemented.](#)

By selecting this certification statement, the signatory(ies) confirms that the BMPs specified in Part 2.5.2 of the RGP were met and, if discharges will continue, the BMPP meets the minimum requirements specified in Part 2.5.1 of the RGP and addresses ALL BMPs specified in Part 2.5.2 of the RGP, which apply to ALL SITES.

Has notification been provided to the appropriate State? [Yes](#)

Has notification been provided to the municipality in which the discharge is located? [Yes](#)

Please use the space below to provide any other relevant information related to your site. You can add one or more additional attachments.

A municipal review is not attached, as this is not a new project. This discharge commenced in 2015, with the permission of the Town of Allenstown. The town is provided with regular project updates, and with copies of all site-related reports. Since this is not a new project, a new, formal review has not been conducted.

Name	Created Date	Size
Species List_ New England Ecological Services Field Office.pdf	01/23/2023 4:51 PM	243.10 KB
Antidegradation Review.pdf	01/23/2023 5:03 PM	187.32 KB
national-register-listed-20230119.pdf	01/23/2023 5:03 PM	149.45 KB
ejscreen.pdf	01/23/2023 5:13 PM	60.63 KB
Critical low flow.pdf	02/16/2023 1:25 PM	190.65 KB

Certification Information

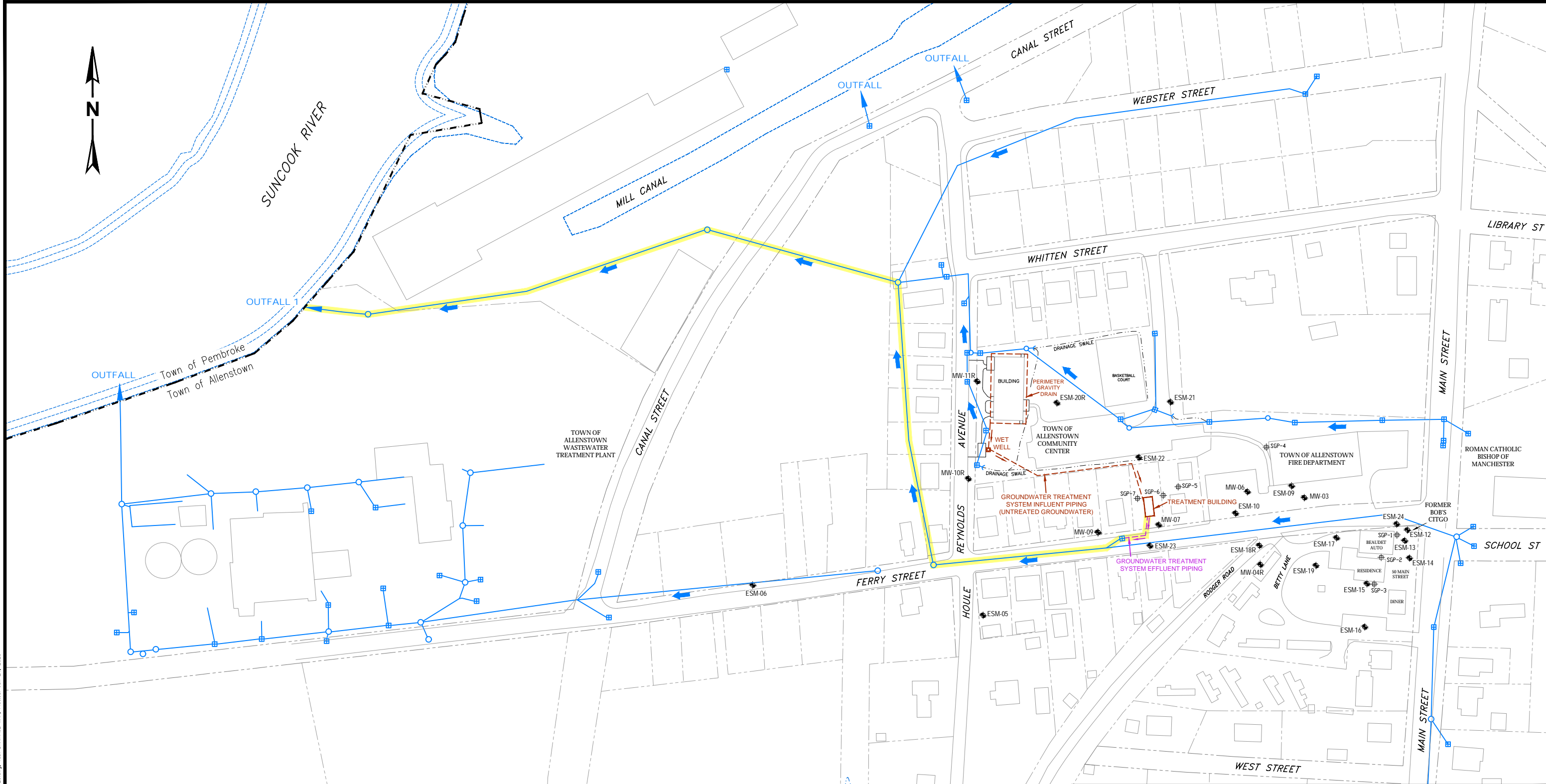
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Signing an electronic document on behalf of another person is subject to criminal, civil, administrative, or other lawful action.

Certified By: Angela V. Boyd

Certifier Title: Mrs

Certifier Email: aboyd@verdantas.com

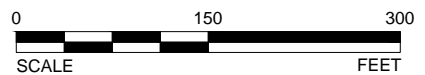
Certified On: 02/27/2023 3:31 PM ET




LEGEND

- APPROXIMATE PROPERTY LINE
- BUILDING OUTLINE
- MONITORING WELL
MW-1 / ESM-1
- SOIL GAS MONITORING POINT
SGP-1
- DRAINAGE MANHOLE
- CATCH BASIN
- TOWN DRAINAGE PIPING
- TREATMENT SYSTEM INFLUENT PIPING,
UNTREATED GROUNDWATER
- TREATMENT SYSTEM EFFLUENT PIPING,
TREATED GROUNDWATER

MAP SOURCES: TOWN OF ALLENTOWN, NEW HAMPSHIRE PROPERTY MAPS NO. 111 AND 112, PREPARED BY CARTOGRAPHIC ASSOC. INC., REVISED APRIL 1, 1999; DRAINAGE LINES PROVIDED BY TOWN OF ALLENTOWN AS GIS FILES, JULY 2015.













PREPARED BY  273 WEST MAIN STREET NORTON, MASSACHUSETTS 02766 TEL. 508.226.1800		TITLE <h2 style="text-align: center; margin: 0;">DRAINAGE MAP</h2>		
PREPARED FOR <h3 style="text-align: center; margin: 0;">GLENN SPRINGS HOLDINGS INC</h3>		DRAWN DMR	PG AB	PM AB
LOCATION <h3 style="text-align: center; margin: 0;">MAIN & FERRY STREETS ALLENTOWN, NEW HAMPSHIRE</h3>		DATE 1/24/2023		
LOCATION NHDES SITE 19840003		PROJECT NUMBER 8012-01		
LOCATION FILE GSH ALLENTOWN 2023.DWG		<h3 style="text-align: center; margin: 0;">FIGURE 1</h3>		

S:\Graphics By L.Rolls\8012-01_GSH_Allentown\CAD\GSH ALLENTOWN 2023.dwg, Tab: DRAINAGE MAP, Plotted: Jan 24, 2023

TREATMENT PLANT BUILDING

LEGEND

-  3 WAY VALVE
 -  AUTOMATED (ROTORCK) VALVE
 -  BALL VALVE
 -  CAM-LOCK
 -  CHECK VALVE
 -  RUPTURE DISC
 -  VACUUM RELIEF VALVE
 -  UNION
 -  REDUCER
 -  FLOW METER
-
- BV BALL VALVE
 - C CARBON
 - F FILTER
 - FIT FLOW INDICATOR TRANSMITTER
 - LIT LEVEL INDICATOR TRANSMITTER
 - LSH LEVEL SWITCH HIGH
 - LSHH LEVEL SWITCH HIGH-HIGH
 - LSL LEVEL SWITCH LOW
 - LSLL LEVEL SWITCH LOW-LOW
 - NC NORMALLY CLOSED
 - NO NORMALLY OPEN
 - PIT PRESSURE INDICATOR TRANSMITTER

CARBON ADSORBERS
 CARBON FILTRATION SYSTEMS
 LSHP-500
 30" X 48" HIGH
 EPOXY COATED CARBON STEEL
 75 PSIG RATING
 500 LBS CARBON
 CALGON REACTIVATED
 DSR C 8x30

BAG FILTER HOUSING
 PARKER MODEL CBC1D2T
 CARBON STEEL, 175 PSIG RATING
 BAG FILTER SIZE #2

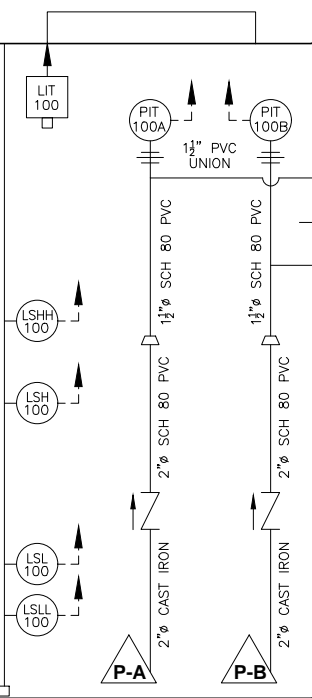
BUILDING FLOOR SUMP
 (SET IN CONCRETE SLAB)

BAG FILTER HOUSING
 PARKER MODEL CBC1D2T
 CARBON STEEL, 175 PSIG RATING
 BAG FILTER SIZE #2

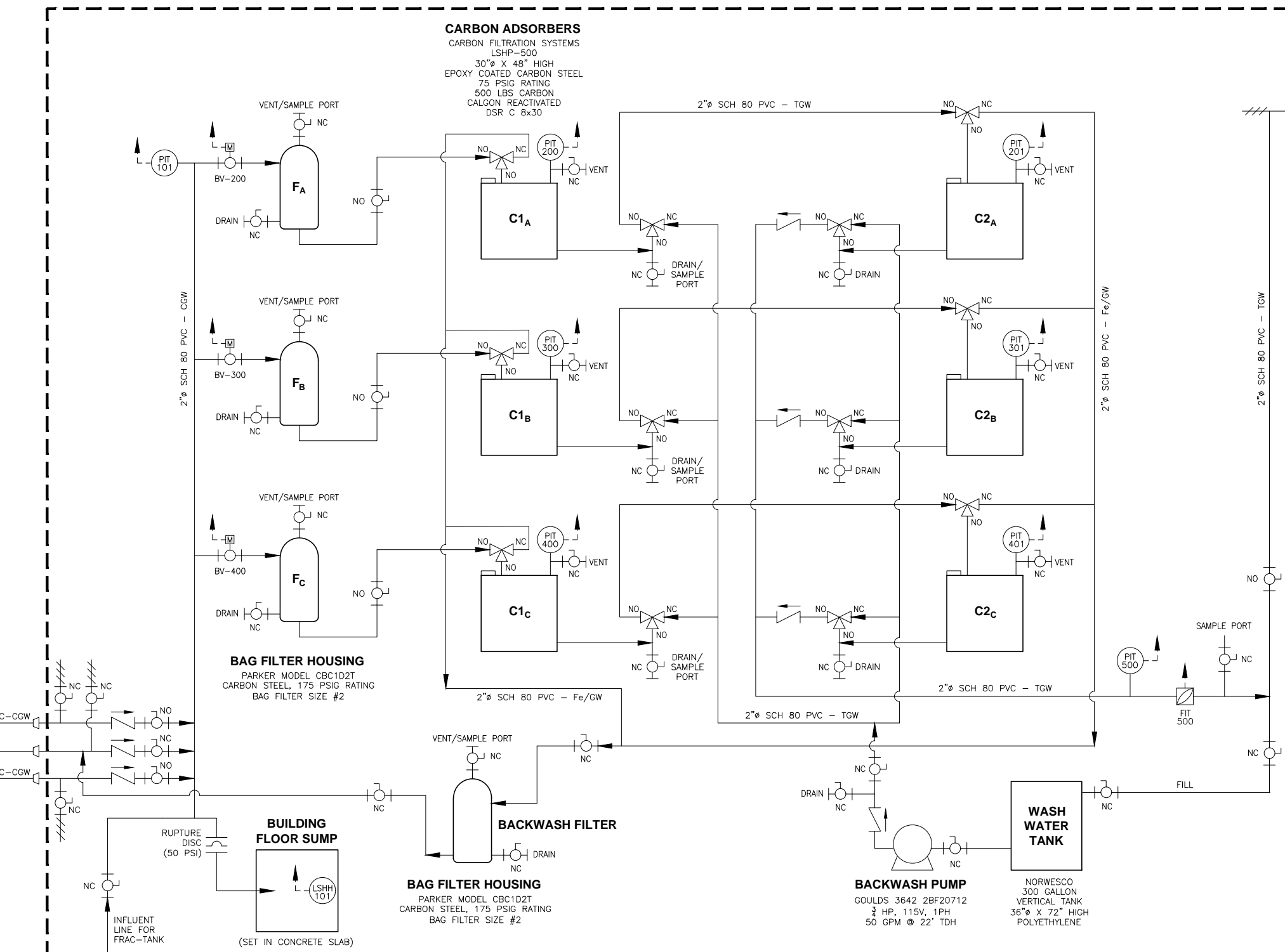
BACKWASH FILTER

BACKWASH PUMP
 GOULDS 3642 2BF20712
 1/2 HP, 115V, 1PH
 50 GPM @ 22' TDH

WASH WATER TANK
 NORWESCO
 300 GALLON
 VERTICAL TANK
 36" X 72" HIGH
 POLYETHYLENE




SUBMERSIBLE PUMP
 GOULDS B2ED51F2GA
 1.5HP, 208V, 3PH
 20 GPM @ 85' TDH
 MOUNTED ON CONERY SLIDE RAIL



TO STORM SEWER
 UNDER NH/EPA
 REMEDIATION
 GENERAL PERMIT
 (RGP) NHG910070

NOT DRAWN TO SCALE

PREPARED BY  273 WEST MAIN STREET NORTON, MASSACHUSETTS 02766 TEL. 508.226.1800		TITLE PIPING & INSTRUMENTATION DIAGRAM GROUNDWATER TREATMENT SYSTEM	
PREPARED FOR GLENN SPRINGS HOLDINGS INC		DRAWN DMR	PG AB
LOCATION MAIN & FERRY STREETS ALLENSTOWN, NEW HAMPSHIRE		DATE 1/24/2023	PROJECT NUMBER 8012-01
NHDES SITE 19840003		FILE GSH ALLENSTOWN PID.DWG	
FIGURE 1			

S:\Graphics By L.Rolls\8012-01 GSH Allenstown PID AND ONE-LINE GSH ALLENSTOWN PID.dwg, Tab: PID, Plotted: Jan 24, 2023

Angela Boyd

From: Angela Boyd
Sent: Monday, January 23, 2023 9:07 AM
To: Franz, Hayley
Cc: Ptak, Teresa
Subject: RE: DRGP Antidegradation Review - existing RGP NHG910070

Hello Hayley,

This is an existing discharge that has been ongoing since 2015. We are not increasing the system flow. I will use this email as backup.

Thank you,

Angela Boyd, LSP

O. 508.226.1800 | C. 508.361.9112

From: Franz, Hayley <Hayley.G.Franz@des.nh.gov>
Sent: Monday, January 23, 2023 8:33 AM
To: Angela Boyd <aboyd@verdantas.com>
Cc: Ptak, Teresa <TERESA.B.PTAK@des.nh.gov>
Subject: RE: DRGP Antidegradation Review - existing RGP NHG910070

You don't often get email from hayley.g.franz@des.nh.gov. [Learn why this is important](#)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Hi Angela,

The NOI is formatted in order to make sure that antidegradation reviews are completed for all new or increased long term discharges. If you are applying for coverage of an existing discharge and are not proposing an increase in flow, an antidegradation review is not required.

Please confirm that you are not proposing a flow increase for your existing discharge, and then in order to proceed with your NOI, please select "yes" to the question asking if an antidegradation review has been completed and attach copy of this correspondence, which notes that no antidegradation review is required.

Thank you,

Hayley Franz, P.E.

Permits Engineer
Wastewater Engineering Bureau, Water Division
New Hampshire Department of Environmental Services
29 Hazen Drive, PO Box 95, Concord, NH 03302
(603) 271-0671

From: Ptak, Teresa <TERESA.B.PTAK@des.nh.gov>
Sent: Friday, January 20, 2023 4:58 PM

To: 'aboyd@verdantas.com' <aboyd@verdantas.com>
Cc: Franz, Hayley <Hayley.G.Franz@des.nh.gov>
Subject: FW: DRGP Antidegradation Review - existing RGP NHG910070

Hi Angela,

I've included Hayley from our permitting section for guidance.

Hayley- can you assist? Please let me know if I can help.

Teresa

Teresa Ptak
NPDES Permits & Compliance
Wastewater Engineering Bureau, Water Division, NHDES
29 Hazen Drive, PO Box 95, Concord, NH 03302
Office 603-271-1497
Fax 603-271-4128
teresa.ptak@des.nh.gov

From: Angela Boyd <aboyd@verdantas.com>
Sent: Friday, January 20, 2023 2:48 PM
To: Lesieur, Nancy <nancy.m.lesieur@des.nh.gov>; Ptak, Teresa <teresa.ptak@des.nh.gov>
Subject: DRGP Antidegradation Review - existing RGP NHG910070

EXTERNAL: Do not open attachments or click on links unless you recognize and trust the sender.

Hello Nancy and Teresa,

Now that the electronic NOI is available for the new DRGP, I am attempting to prepare it for my existing discharge to the confluence of the Suncook and Merrimack Rivers in Allenstown, New Hampshire. I see that I will need to provide a copy of NHDES' antidegradation determination, since the discharge will be ongoing for more than one year. Could you please let me know how to begin this process?

Thank you,

Angela Boyd, LSP
Senior Project Manager
O. 508.226.1800 | C. 508.361.9112
273 West Main Street, Norton, MA 02766



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strictly prohibited. If you have received this message in error, please notify us immediately by replying to the message and permanently deleting it from your computer. Thank you.

Angela Boyd

From: Franz, Hayley <Hayley.G.Franz@des.nh.gov>
Sent: Monday, February 13, 2023 2:21 PM
To: Angela Boyd
Cc: Ptak, Teresa
Subject: RE: DRGP Antidegradation Review - existing RGP NHG910070

Hi Angela,

Yes, please use 591 cfs as the critical low flow value when completing the NOI.

Using the permitted flow of 0.072 mgd for the discharge, the dilution factor should be 4,775.

Thank you,
Hayley

Hayley Franz, P.E.
Permits Engineer
Wastewater Engineering Bureau, Water Division
New Hampshire Department of Environmental Services
29 Hazen Drive, PO Box 95, Concord, NH 03302
(603) 271-0671

From: Angela Boyd <aboyd@verdantas.com>
Sent: Wednesday, February 8, 2023 12:01 PM
To: Franz, Hayley <Hayley.G.Franz@des.nh.gov>
Cc: Ptak, Teresa <TERESA.B.PTAK@des.nh.gov>
Subject: RE: DRGP Antidegradation Review - existing RGP NHG910070

EXTERNAL: Do not open attachments or click on links unless you recognize and trust the sender.

Hello,

I am trying to answer the portion of the NOI about the critical low flow. I wanted to email you, because I understand that NHDES approval needs to be attached as backup.

The 7Q10 and dilution factor have been calculated and approved by NHDES during previous permit application and renewal efforts. The 7Q10 was historically 591 cfs, and the dilution factor was 24,000.

Shall I enter 591 cfs as the critical low flow for the confluence of the Suncook and Merrimack Rivers in Allentown, NH. Or, is there another number that you would like me to use?

Thank you,

Angela Boyd, LSP
O. 508.226.1800 | C. 508.361.9112

From: Franz, Hayley <Hayley.G.Franz@des.nh.gov>
Sent: Monday, January 23, 2023 8:33 AM
To: Angela Boyd <aboyd@verdantas.com>
Cc: Ptak, Teresa <TERESA.B.PTAK@des.nh.gov>
Subject: RE: DRGP Antidegradation Review - existing RGP NHG910070

You don't often get email from hayley.g.franz@des.nh.gov. [Learn why this is important](#)

[EXTERNAL EMAIL] DO NOT CLICK links or attachments unless you recognize the sender and know the content is safe.

Hi Angela,

The NOI is formatted in order to make sure that antidegradation reviews are completed for all new or increased long term discharges. If you are applying for coverage of an existing discharge and are not proposing an increase in flow, an antidegradation review is not required.

Please confirm that you are not proposing a flow increase for your existing discharge, and then in order to proceed with your NOI, please select "yes" to the question asking if an antidegradation review has been completed and attach copy of this correspondence, which notes that no antidegradation review is required.

Thank you,

Hayley Franz, P.E.
Permits Engineer
Wastewater Engineering Bureau, Water Division
New Hampshire Department of Environmental Services
29 Hazen Drive, PO Box 95, Concord, NH 03302
(603) 271-0671

From: Ptak, Teresa <TERESA.B.PTAK@des.nh.gov>
Sent: Friday, January 20, 2023 4:58 PM
To: 'aboyd@verdantas.com' <aboyd@verdantas.com>
Cc: Franz, Hayley <Hayley.G.Franz@des.nh.gov>
Subject: FW: DRGP Antidegradation Review - existing RGP NHG910070

Hi Angela,

I've included Hayley from our permitting section for guidance.

Hayley- can you assist? Please let me know if I can help.

Teresa

Teresa Ptak
NPDES Permits & Compliance
Wastewater Engineering Bureau, Water Division, NHDES
29 Hazen Drive, PO Box 95, Concord, NH 03302
Office 603-271-1497
Fax 603-271-4128
teresa.ptak@des.nh.gov

From: Angela Boyd <aboyd@verdantas.com>

Sent: Friday, January 20, 2023 2:48 PM

To: Lesieur, Nancy <nancy.m.lesieur@des.nh.gov>; Ptak, Teresa <teresa.ptak@des.nh.gov>

Subject: DRGP Antidegradation Review - existing RGP NHG910070

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Hello Nancy and Teresa,

Now that the electronic NOI is available for the new DRGP, I am attempting to prepare it for my existing discharge to the confluence of the Suncook and Merrimack Rivers in Allenstown, New Hampshire. I see that I will need to provide a copy of NHDES' antidegradation determination, since the discharge will be ongoing for more than one year. Could you please let me know how to begin this process?

Thank you,

Angela Boyd, LSP

Senior Project Manager

O. 508.226.1800 | C. 508.361.9112

273 West Main Street, Norton, MA 02766



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SAFETY DATA SHEET

SECTION I – PRODUCT AND SUPPLIER INFORMATION

Supplier: Target Products Ltd,
1080 Bradner Road
Abbotsford, BC
V4X 1H8
Telephone: 1.604.856.7976

24-Hour Emergency Response Telephone for Transport Emergencies ONLY: +1 (613) 996-6666

PRODUCT 99932599 GRANULAR ACTIVATED CARBON

SDS Identifier: Activated Carbon

Product Use: Water purification

SECTION II - HAZARD IDENTIFICATION

Hazard-determining components of labeling

Classification of the substance or mixture

Eye Corrosion – Category 2

Specific Target Organ Toxicity Repeat Exposure – Category 2

Signal word Warning

Hazard Statements

H319 – Causes serious eye irritation.

H373 – May cause damage to organs through prolonged or repeated exposure.

Pictograms



Precautionary statements

P264 – Wash hands thoroughly after handling.

P280 – Wear eye protection and face protection.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 – If eye irritation persists: Get medical advice/attention.

P260 – Do not breathe dust.

Immediately seek medical advice or attention if symptoms are significant or persist.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/containers in accordance with all regulations.

Additional

HNOC – Hazards not otherwise classified: Not applicable

Unknown Acute Toxicity: None

SECTION III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components

Activated Carbon

CAS No.

7440-44-0

% by Weight

100%

Target Products

SECTION IV – FIRST AID MEASURES

Inhalation	Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek immediate medical attention.
Skin Contact / Absorption	Remove contaminated clothing. Wash affected area with soap and water.
Eye Contact	Contact lenses should never be worn when working with this product. Flush immediately with water for at least 15 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek medical attention.
Ingestion	No known health effects. Seek medical attention if any problems are experienced.
Additional Information	Not Available

SECTION V - FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Small fires: Carbon dioxide dry chemical powder, sand. Large fires: regular foam.
Unsuitable Extinguishing Media	NOTE: Violent steam generation and frothing may occur on direct application of water stream.
Specific Hazards Arising From Chemical	During a fire, toxic gases are generated.
Special Protective Equipment for Fire-Fighters	Wear NIOSH-approved self-contained breathing apparatus and protective clothing.
Further Information	Wet activated carbon removes oxygen from air and can lower the concentration of oxygen inside vessels containing carbon and other confined spaces. During a fire, toxic gases are generated.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions/ Protective Equipment/ Emergency Procedures	Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so. Prevent material from entering sewers. Flush with water to remove any residue.
Environmental Precautions Methods For Cleaning Up	Prevent materials from entering sewers. Vacuum or shovel spilled material and place in closed container for proper disposal.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND STORAGE

Precautions for Safe Handling	Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure. Minimize airborne spreading of dust.
Conditions for Safe Storage	Store in a clean, well-ventilated area away from oxidizers, acids, ignition sources, heat, and combustible materials.
Incompatibilities	Strong oxidizers such as ozone, liquid oxygen, chlorine, potassium permanganate. Strong acids, Acetone, Alkali metals.

SECTION VIII – EXPOSURE CONTROL MEASURES / PERSONAL PROTECTION

Components with limit values that require monitoring at the workplace:			
Hazardous Components	CAS No.	PEL (OSHA) mg/M ³	TLV (ACGIH) mg/M ³
Activated Carbon	7440-44-0	Not established	Not established
Engineering Control(s)	Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.		
Ventilation Requirements			
Other	Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.		
Protective Equipment Eyes/Face	Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.		
Hand Protection	Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.		
Skin and Body Protection	Body suite, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse. No special footwear is required other than what is mandated at place of work.		
Respiratory Protection	Respiratory protection is not normally required. If use creates dust formations, then a NIOSH-approved respirator with a dust cartridge is recommended. Wet activated carbon removes oxygen from air causing a severe hazard to workers inside confined spaces. Before entering such an area, sampling and work procedures for low oxygen levels should be taken (such as wearing a self-contained breathing apparatus).		
Thermal Hazards	Not Available		

Target Products

SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

General Information	
Physical State	Particulate solid, pellet or powder
Colour	Black
Odour	Odourless
Odour Threshold	Not Applicable
pH	Not applicable. Activated carbon bearing inorganic and chemically active groups on its surface may alter the pH of liquids to which it is added.
Melting Point/Freezing Point	>3500°C
Initial Boiling Point and Boiling Range	Maximum 4000°C
Flash Point	Not Applicable
Evaporation Rate	Not Applicable
Flammability	Not Applicable
Upper Flammable Limit	Not Applicable
Lower Flammable Limit	Not Applicable
Vapour Pressure (mm Hg, 20°C)	Not Applicable
Vapour Density (Air=1)	Not Applicable
Relative Density	Not Available
Solubility(ies)	Insoluble in water
Partition Coefficient (n-octanol/water)	Not Applicable
Auto-ignition Temperature	~ 300°C [Depends on particle size and physical form.]
Decomposition Temperature	Not Available
Viscosity	Not Applicable
Explosive Properties	Airborne dust may create an explosion hazard.
Specific Gravity (Water=1)	0.25 – 0.60
% Volatiles by Volume	0%
IUPAC Formula	C
Molecular Weight	12.011

SECTION X – STABILITY AND REACTIVITY

Reactivity	Not Available
Chemical Stability	Stable under normal conditions.
Possibility of Hazardous Reactions	Self-heats due to slow oxidation by air. Presence of moisture accelerates self-heating.
Conditions to Avoid	High temperatures, sparks, open flames and all other sources of ignition. Minimize airborne spreading of dust. High concentrations of organics in air will cause temperature rise due to heat of adsorption. At very high concentration levels this may cause a bed fire. High concentrations of Ketones and Aldehydes may cause a bed temperature rise due to adsorption and oxidation.
Incompatible Materials	Strong oxidizers such as ozone, liquid oxygen, chlorine, potassium permanganate. Strong acids, Acetone, Alkali metals.
Hazardous Decomposition Products	Carbon monoxide may be generated in the event of a fire (especially with incomplete combustion in an enclosed space).

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity

Component	Oral LD50	Dermal LD50	LC50
Activated Carbon	>10,000 mg/kg	Not Available	>64.4mg/L (rat, inhalation)

Chronic Toxicity – Carcinogenicity

Component	IARC
Activated Carbon	Not considered to be carcinogenic as per IARC, NTP, and OSHA.

Skin Corrosion/Irritation	Dust may cause mechanical irritation.
Ingestion	Non-toxic though ingestion
Inhalation	Non-toxic though inhalation
Serious Eye Damage/Irritation	Causes slight to mild irritation of the eyes.
Respiratory or Skin Sensitization	None known.
Germ Cell Mutagenicity	No adverse mutagenic effects are anticipated.

Target Products

Reproductive Toxicity	No adverse reproductive effects are anticipated.
STOT-Single Exposure	May cause respiratory tract irritation
STOT-Repeated Exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration Hazard	Not Available
Synergistic Materials	None known

SECTION XII – ECOLOGICAL INFORMATION

Ecotoxicity	Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
	Carbon	Not Available	Not Available	Not Available
Persistence and degradability	No further relevant information available.			
Bioaccumulative potential	No evidence of bioaccumulation or tainting of seafood.			
Mobility in soil	No further relevant information available.			
Other Adverse Effects	No further relevant information available.			

SECTION XIII – DISPOSAL CONSIDERATIONS

Waste Disposal Method

The packaging and material may be land filled; however, material should be covered to minimize generation of airborne dust. This product is not classified as a hazardous waste under the authority of the RCRA (40CFR 261) or CERCLA (40CFR 117&302). Disposal must be made in accordance with local, state and federal regulations including the Canadian Environmental Protection Act..

Contaminated Packaging

Disposal must be made in accordance with local, state and federal regulations including the Canadian Environmental Protection Act.

SECTION XIV – TRANSPORT INFORMATION

	DOT (U.S.)	TDG (Canada)
UN-Number	Not Regulated	Not Regulated
UN proper shipping name	Not Regulated	Not Regulated
Transport Hazard Class(es)	Not Regulated	Not Regulated
Packing Group (if applicable)	Not Regulated	Not Regulated

Environmental hazards:

Not Available

Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code

Not available

Special precautions for user

Do not handle until all safety precautions have been read and understood.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

SECTION XV – OTHER REGULATORY INFORMATION

NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

SECTION XVI – OTHER INFORMATION

Last Updated: March 21, 2022

NOTE: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

Prepared by Target Products, Ltd. - Phone 1.604.856.7976

www.TargetProducts.com

End of SDS



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

In Reply Refer To:
Project Code: 2023-0036924
Project Name: Allenstown

January 23, 2023

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

Updated 12/27/2022 - Please review this letter each time you request an Official Species List, we will continue to update it with additional information and links to websites may change.

About Official Species Lists

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. Federal and non-Federal project proponents have responsibilities under the Act to consider effects on listed species.

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 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. 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 by returning to an existing project's page in IPaC.

Endangered Species Act Project Review

Please visit the “**New England Field Office Endangered Species Project Review and Consultation**” website for step-by-step instructions on how to consider effects on listed

species and prepare and submit a project review package if necessary:

<https://www.fws.gov/office/new-england-ecological-services/endangered-species-project-review>

NOTE Please do not use the **Consultation Package Builder** tool in IPaC except in specific situations following coordination with our office. Please follow the project review guidance on our website instead and reference your **Project Code** in all correspondence.

Northern Long-eared Bat - (Updated 12/27/2022) Please visit our New England Field Office Project Review webpage at the link above for updated northern long-eared bat consultation guidance. The Service published a final rule to reclassify the northern long-eared bat (NLEB) as endangered on November 30, 2022. The final rule will go into effect on **January 30, 2023**. After that date, the current 4(d) rule for NLEB will no longer be in effect, and the 4(d) determination key will no longer be available. New compliance tools will be available by mid- to late-January, and information will be posted on our New England Field Office Project Review webpage in January, so please check this site often for updates.

Depending on the type of effects a project has on NLEB, the change in the species' status may trigger the need to re-initiate consultation for any actions that are not completed and for which the Federal action agency retains discretion once the new listing determination becomes effective. If your project may result in incidental take of NLEB after the new listing goes into effect, this will need to be addressed in an updated consultation that includes an Incidental Take Statement. Many of these situations will be addressed through the new compliance tools. If your project may require re-initiation of consultation, please wait for information on the new tools to appear on our website or contact our office at **newengland@fws.gov** for additional guidance.

Additional Info About Section 7 of the Act

Under section 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to determine whether projects may affect threatened and endangered species and/or designated critical habitat. If a Federal agency, or its non-Federal representative, determines 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 Federal agency also may need to consider proposed species and proposed critical habitat in the consultation. 50 CFR 402.14(c)(1) specifies the information required for consultation under the Act regardless of the format of the evaluation. 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:

<https://www.fws.gov/service/section-7-consultations>

In addition to consultation requirements under Section 7(a)(2) of the ESA, please note that under sections 7(a)(1) 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. Please contact NEFO if you would like more information.

Candidate species that appear on the enclosed species list have no current protections under the

ESA. The species' occurrence on an official species list does not convey a requirement to consider impacts to this species as you would a proposed, threatened, or endangered species. The ESA does not provide for interagency consultations on candidate species under section 7, however, the Service recommends that all project proponents incorporate measures into projects to benefit candidate species and their habitats wherever possible.

Migratory Birds

In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see:

<https://www.fws.gov/program/migratory-bird-permit>

<https://www.fws.gov/library/collections/bald-and-golden-eagle-management>

Please feel free to contact us at **newengland@fws.gov** with your **Project Code** in the subject line if you need more information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat.

Attachment(s): Official Species List

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

Project Code: 2023-0036924
Project Name: Allenstown
Project Type: Non-NPL Site Remediation
Project Description: RGP NOI
Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@43.1273453,-71.46001873830708,14z>



Counties: Merrimack County, New Hampshire

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. [NOAA Fisheries](#), 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 <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Endangered

Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

Critical habitats

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

IPaC User Contact Information

Agency: NA - I do not work for an agency

Name: Angela Boyd

Address: 273 West Main Street

City: Norton

State: MA

Zip: 02766

Email: abiggieri@comcast.net

Phone: 5083619112

Reference numbr	Property Name	Status	State	City	Street & Number	Status Date	Area of Significance
_04001327	Allenstown Meeting House	Listed	NEW HAMPSHIRE	Allenstown	Deerfield Rd.	12/6/2004	ARCHITECTURE; POLITICS/GOVERNMENT; RELIGION; CONSERVATION
_92000632	Bear Brook State Park Civilian Conservation Corps (CCC) Camp Historic District	Listed	NEW HAMPSHIRE	Allenstown	1/2 mi. from park entrance, 160 yds. S of Allenstown--Deerfiel	6/11/1992	CONSERVATION; POLITICS/GOVERNMENT; SOCIAL HISTORY

As shown above, Allenstown only has two properties listed on the historic register. Neither are located near the project area.

1 mile Ring Centered at 43.127110,-71.456344, NEW HAMPSHIRE, EPA Region 1 (Population: 3,593)

#	Category	Selected Variables	Value	State Avg.	%ile in State	USA Avg.	%ile in USA
1	EJ Index	EJ Index for Particulate Matter 2.5				36	2
2	EJ Index	EJ Index for Ozone				66	15
3	EJ Index	EJ Index for Diesel Particulate Matter				73	19
4	EJ Index	EJ Index for Air Toxics Cancer Risk				68	18
5	EJ Index	EJ Index for Air Toxics Respiratory HI				82	29
6	EJ Index	EJ Index for Traffic Proximity				66	37
7	EJ Index	EJ Index for Lead Paint				80	55
8	EJ Index	EJ Index for Superfund Proximity				47	35
9	EJ Index	EJ Index for RMP Facility Proximity				84	47
10	EJ Index	EJ Index for Hazardous Waste Proximity				55	26
11	EJ Index	EJ Index for Underground Storage Tanks				74	51
12	EJ Index	EJ Index for Wastewater Discharge				62	33
13	Environmental	Particulate Matter (PM 2.5 in ug/m3)	5.14	5.33	22	8.67	1
14	Environmental	Ozone (ppb)	36.7	36.6	43	42.5	16
15	Environmental	Diesel PM (ug/m3)	0.112	0.122	52	0.294	<50th
16	Environmental	Air Toxics Cancer Risk (risk per MM)	20	22	79	28	<50th
17	Environmental	Air Toxics Respiratory Hazard Index	0.3	0.25	99	0.36	<50th
18	Environmental	Traffic Proximity and Volume (daily traffic count/distance to road)	180	500	50	760	45
19	Environmental	Lead Paint Indicator (% pre-1960s housing)	0.54	0.3	80	0.27	76
20	Environmental	Superfund Proximity (site count/km distance)	0.043	0.18	27	0.13	38
21	Environmental	RMP Proximity (facility count/km distance)	0.6	0.24	88	0.77	63
22	Environmental	Hazardous Waste Proximity (facility count/km distance)	0.15	1.2	34	2.2	26
23	Environmental	Underground Storage Tank Indicator	2.8	3.8	69	3.9	65
24	Environmental	Wastewater Discharge Indicators (toxicity-weighted concentration/m distance)	0.00031	0.4	52	12	39
25	Demographic	Demographic Index	18%	15%	70	35%	28
26	Demographic	People of Color	12%	10%	73	40%	28
27	Demographic	Low Income	24%	19%	67	30%	44
28	Demographic	Unemployment Rate	1%	4%	34	5%	27
29	Demographic	Limited English Speaking	1%	1%	81	5%	59
30	Demographic	Population with Less Than High School Education	13%	7%	83	12%	64
31	Demographic	Population under Age 5	8%	5%	83	6%	74
32	Demographic	Population over Age 64	18%	18%	49	16%	59

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

e-Hardcopy 2.0
Automated Report

Technical Report for

GHD Services Inc.

Former Bob's Citgo, 9 Ferry Street, Allentown, NH

11209018; SSOW: 757-402-D02-3100; PO# 4502864759

SGS Job Number: JD58140

Sampling Date: 01/03/23

Report to:

GHD Services Inc.
2055 Niagara Falls Blvd.
Niagara Falls, NY 14304
paul.mcmahon@ghd.com; aboyd@esm-inc.com;
GSH-LabDataMgmt-New@ghd.com
ATTN: Paul McMahon

Total number of pages in report: 51



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.

A blue ink signature of David Chastain.

David Chastain
General Manager

Client Service contact: Kelly Ramos 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(68-00408), RI, SC, TX, UT, VA, WV

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

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Sample Summary

GHD Services Inc.

Job No: JD58140

Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

Project No: 11209018; SSOW: 757-402-D02-3100; PO# 4502864759

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
---------------	----------------	---------	----------	-------------	------	------------------

This report contains results reported as ND = Not detected. The following applies:

Organics ND = Not detected above the MDL

JD58140-1	01/03/23	10:30 RDH	01/03/23	AQ	Influent	TRAIN 1 INFLUENT
JD58140-2	01/03/23	10:35 RDH	01/03/23	AQ	Ground Water	TRAIN 1 MIDPOINT
JD58140-3	01/03/23	10:50 RDH	01/03/23	AQ	Effluent	TRAIN 1 EFFLUENT

Summary of Hits

Job Number: JD58140
Account: GHD Services Inc.
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH
Collected: 01/03/23

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
---------------	------------------	-----------------	----	-----	-------	--------

JD58140-1 TRAIN 1 INFLUENT

Total BTEX		64.27 J	0.50	0.076	ug/l	EPA 524
Benzene ^a		57.7	5.0	1.6	ug/l	EPA 524.2 REV 4.1
Toluene ^a		0.45 J	0.50	0.11	ug/l	EPA 524.2 REV 4.1
Ethylbenzene ^a		5.2	0.50	0.076	ug/l	EPA 524.2 REV 4.1
Xylenes (total) ^a		0.92	0.50	0.076	ug/l	EPA 524.2 REV 4.1
Arsenic		59.7	3.0		ug/l	EPA 200.7
Cadmium		6.9	3.0		ug/l	EPA 200.7
Iron		12200	100		ug/l	EPA 200.8
Zinc		25.5	10		ug/l	EPA 200.8
Chloride		167	2.0		mg/l	EPA 300/SW846 9056A
Solids, Total Suspended		11.8	4.0		mg/l	SM2540 D-11/15

JD58140-2 TRAIN 1 MIDPOINT

Total BTEX		0.11 J	0.50	0.076	ug/l	EPA 524
Ethylbenzene ^a		0.11 J	0.50	0.076	ug/l	EPA 524.2 REV 4.1

JD58140-3 TRAIN 1 EFFLUENT

Arsenic		3.2	3.0		ug/l	EPA 200.7
Cadmium		6.8	3.0		ug/l	EPA 200.7
Iron		53.4	50		ug/l	EPA 200.8
Chloride		170	2.0		mg/l	EPA 300/SW846 9056A

(a) EPA 524.2 is not a certified method for non-potable water samples.

Sample Results

Report of Analysis

Report of Analysis

3.1
3

Client Sample ID: TRAIN 1 INFLUENT		Date Sampled: 01/03/23
Lab Sample ID: JD58140-1		Date Received: 01/03/23
Matrix: AQ - Influent		Percent Solids: n/a
Method: EPA 524.2 REV 4.1		
Project: Former Bob's Citgo, 9 Ferry Street, Allentown, NH		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1B133449.D	1	01/13/23 19:20	BK	n/a	n/a	V1B6481
Run #2 ^a	1B133452.D	10	01/13/23 20:51	BK	n/a	n/a	V1B6481

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	57.7 ^b	5.0	1.6	ug/l	
108-88-3	Toluene	0.45	0.50	0.11	ug/l	J
100-41-4	Ethylbenzene	5.2	0.50	0.076	ug/l	
1330-20-7	Xylenes (total)	0.92	0.50	0.076	ug/l	
67-64-1	Acetone	ND	5.0	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	98%	93%	70-130%
460-00-4	4-Bromofluorobenzene	101%	91%	70-130%

(a) EPA 524.2 is not a certified method for non-potable water samples.
 (b) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

3.1
3

Client Sample ID: TRAIN 1 INFLUENT	
Lab Sample ID: JD58140-1	Date Sampled: 01/03/23
Matrix: AQ - Influent	Date Received: 01/03/23
Method: EPA 524	Percent Solids: n/a
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	01/13/23 20:51	BK	n/a	n/a	R201466
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
	Total BTEX	64.27	0.50	0.076	ug/l	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRAIN 1 INFLUENT		Date Sampled: 01/03/23
Lab Sample ID: JD58140-1		Date Received: 01/03/23
Matrix: AQ - Influent		Percent Solids: n/a
Project: Former Bob's Citgo, 9 Ferry Street, Allentown, NH		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	01/05/23	01/05/23 ND	EPA 200.7 ²	EPA 200.7 ⁵
Arsenic	59.7	3.0	ug/l	1	01/05/23	01/05/23 ND	EPA 200.7 ²	EPA 200.7 ⁵
Cadmium	6.9	3.0	ug/l	1	01/05/23	01/05/23 ND	EPA 200.7 ²	EPA 200.7 ⁵
Chromium	< 10	10	ug/l	1	01/05/23	01/05/23 ND	EPA 200.7 ²	EPA 200.7 ⁵
Copper	< 10	10	ug/l	1	01/05/23	01/05/23 ND	EPA 200.7 ²	EPA 200.7 ⁵
Iron	12200	100	ug/l	2	01/05/23	01/06/23 NV	EPA 200.8 ⁴	EPA 200.8 ⁶
Lead	< 3.0	3.0	ug/l	1	01/05/23	01/05/23 ND	EPA 200.7 ²	EPA 200.7 ⁵
Mercury	< 0.20	0.20	ug/l	1	01/05/23	01/06/23 LM	EPA 245.1 ¹	EPA 245.1 ⁷
Nickel	< 10	10	ug/l	1	01/05/23	01/05/23 ND	EPA 200.7 ²	EPA 200.7 ⁵
Selenium	< 10	10	ug/l	1	01/05/23	01/05/23 ND	EPA 200.7 ²	EPA 200.7 ⁵
Silver	< 10	10	ug/l	1	01/05/23	01/05/23 ND	EPA 200.7 ²	EPA 200.7 ⁵
Zinc	25.5	10	ug/l	1	01/05/23	01/05/23 NV	EPA 200.8 ³	EPA 200.8 ⁶

- (1) Instrument QC Batch: MA53551
- (2) Instrument QC Batch: MA53554
- (3) Instrument QC Batch: MA53556
- (4) Instrument QC Batch: MA53557
- (5) Prep QC Batch: MP37266
- (6) Prep QC Batch: MP37267
- (7) Prep QC Batch: MP37286

RL = Reporting Limit

Report of Analysis

Client Sample ID: TRAIN 1 INFLUENT	
Lab Sample ID: JD58140-1	Date Sampled: 01/03/23
Matrix: AQ - Influent	Date Received: 01/03/23
	Percent Solids: n/a
Project: Former Bob's Citgo, 9 Ferry Street, Allentown, NH	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	167	2.0	mg/l	1	01/05/23 14:42	SS	EPA 300/SW846 9056A
Nitrogen, Ammonia	< 0.20	0.20	mg/l	1	01/05/23 13:32	JD	SM4500NH3 H-11LACHAT
Phenols	< 0.20	0.20	mg/l	1	01/09/23 16:04	JD	EPA 420.4/LACHAT
Solids, Total Suspended	11.8	4.0	mg/l	1	01/05/23 15:11	AS	SM2540 D-11/15
Total Residual Chlorine ^a	< 0.050	0.050	mg/l	1	01/06/23 17:05	DB	SM4500CL F-11

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

RL = Reporting Limit

Report of Analysis

32
3

Client Sample ID: TRAIN 1 MIDPOINT	Date Sampled: 01/03/23
Lab Sample ID: JD58140-2	Date Received: 01/03/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: EPA 524.2 REV 4.1	
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1B133448.D	1	01/13/23 18:49	BK	n/a	n/a	V1B6481
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.16	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	
100-41-4	Ethylbenzene	0.11	0.50	0.076	ug/l	J
1330-20-7	Xylenes (total)	ND	0.50	0.076	ug/l	
67-64-1	Acetone	ND	5.0	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	96%		70-130%
460-00-4	4-Bromofluorobenzene	95%		70-130%

(a) EPA 524.2 is not a certified method for non-potable water samples.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

32
3

Client Sample ID: TRAIN 1 MIDPOINT	Date Sampled: 01/03/23
Lab Sample ID: JD58140-2	Date Received: 01/03/23
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: EPA 524	
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1		1	01/13/23 18:49	BK	n/a	n/a	R201465
Run #2							

CAS No.	Compound	Result	RL	MDL	Units	Q
	Total BTEX	0.11	0.50	0.076	ug/l	J

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TRAIN 1 EFFLUENT	Date Sampled: 01/03/23
Lab Sample ID: JD58140-3	Date Received: 01/03/23
Matrix: AQ - Effluent	Percent Solids: n/a
Project: Former Bob's Citgo, 9 Ferry Street, Allentown, NH	

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	01/05/23	01/05/23	ND EPA 200.7 ²	EPA 200.7 ⁴
Arsenic	3.2	3.0	ug/l	1	01/05/23	01/05/23	ND EPA 200.7 ²	EPA 200.7 ⁴
Cadmium	6.8	3.0	ug/l	1	01/05/23	01/05/23	ND EPA 200.7 ²	EPA 200.7 ⁴
Chromium	< 10	10	ug/l	1	01/05/23	01/05/23	ND EPA 200.7 ²	EPA 200.7 ⁴
Copper	< 10	10	ug/l	1	01/05/23	01/05/23	ND EPA 200.7 ²	EPA 200.7 ⁴
Iron	53.4	50	ug/l	1	01/05/23	01/05/23	NV EPA 200.8 ³	EPA 200.8 ⁵
Lead	< 3.0	3.0	ug/l	1	01/05/23	01/05/23	ND EPA 200.7 ²	EPA 200.7 ⁴
Mercury	< 0.20	0.20	ug/l	1	01/05/23	01/06/23	LM EPA 245.1 ¹	EPA 245.1 ⁶
Nickel	< 10	10	ug/l	1	01/05/23	01/05/23	ND EPA 200.7 ²	EPA 200.7 ⁴
Selenium	< 10	10	ug/l	1	01/05/23	01/05/23	ND EPA 200.7 ²	EPA 200.7 ⁴
Silver	< 10	10	ug/l	1	01/05/23	01/05/23	ND EPA 200.7 ²	EPA 200.7 ⁴
Zinc	< 10	10	ug/l	1	01/05/23	01/05/23	NV EPA 200.8 ³	EPA 200.8 ⁵

- (1) Instrument QC Batch: MA53551
- (2) Instrument QC Batch: MA53554
- (3) Instrument QC Batch: MA53556
- (4) Prep QC Batch: MP37266
- (5) Prep QC Batch: MP37267
- (6) Prep QC Batch: MP37286

RL = Reporting Limit

Report of Analysis

Client Sample ID: TRAIN 1 EFFLUENT	
Lab Sample ID: JD58140-3	Date Sampled: 01/03/23
Matrix: AQ - Effluent	Date Received: 01/03/23
	Percent Solids: n/a
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	170	2.0	mg/l	1	01/05/23 14:55	SS	EPA 300/SW846 9056A
Nitrogen, Ammonia	< 0.20	0.20	mg/l	1	01/05/23 13:36	JD	SM4500NH3 H-11LACHAT
Phenols	< 0.20	0.20	mg/l	1	01/09/23 16:05	JD	EPA 420.4/LACHAT
Solids, Total Suspended ^a	< 4.0	4.0	mg/l	1	01/05/23 15:11	AS	SM2540 D-11/15
Total Residual Chlorine ^b	< 0.050	0.050	mg/l	1	01/06/23 17:05	DB	SM4500CL F-11

(a) Volume was reduced from 1 liter due to limited volume.

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

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

EHSQA-QAC-0023-04-FORM-Standard COC

FED-EX Tracking #
SGS Quote #
Bottle Order Control # KR-01622-97
SGS Job # JD58140

Client / Reporting Information
Project Information
Company Name: GHD-HOUSTON-TX
Project Name: FORMER BOB'S CITGO
Street Address: 2055 NINGARA FALL BVD SUITE 3
City: NINGARA FALL NY 14304
Project Contact: PAUL McMAHON @ GHD.COM
E-mail:
Phone #: 716 297 7329 EXT 204
Project Manager: ANGELA BOYD
Attention:

Requested Analysis
Total Suspended Solids
Total Residual Chlorine
Chloride
Ammonia
Prenol
Metals
VOCs

- Matrix Codes
DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank

Table with columns: SGS Sample #, Field ID / Point of Collection, MECH/ID/Vial #, Date, Time, Sampled by, Grab (G) Comp (C), Source Chlorinated (YN), Matrix, # of bottles, HCl, NH4, NH3, H2SO4, NONE, DI Water, MCH, ENCORE, pH Check (Lab Use Only), LAB USE ONLY. Rows include TRAIN 1 EFFLUENT and TRAIN 1 MID POINT.

Turn Around Time (Business Days)
Approved by (SGS PM): / Date:
Deliverable
Commercial "A" (Level 1)
Commercial "B" (Level 2)
Commercial "C"
NJ DKQP
NYASP Category A
NYASP Category B
MA MCP Criteria
CT RCP Criteria
State Forms
EDD Format SHD
Initial Assessment IC 3A
Label Verification
SGS Service Center Northborough, MA
http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.
Received By: 1 Scott Parsich
Relinquished By: 2 Scott Parsich
Received By: 3 [Signature]
Relinquished By: 4 [Signature]
Received By: 5 [Signature]
Relinquished By: [Signature]
Date / Time: 1/3/23
Date / Time: 1/3/23 9:40
Date / Time: 1/3/23
Date / Time:
Custody Seal # 06977
Intact
Not intact
Absent
Therm ID:
On Ice
Cooler Temp. °C

4.0

SGS Sample Receipt Summary

Job Number: JD58140

Client: GHD SERVICES INC.

Project: FOMER BOB'S CITGO, 9 FERRY STREET, AL

Date / Time Received: 1/3/2023 5:00:00 PM

Delivery Method: FED EX

Airbill #'s:

Cooler Temps (Raw Measured) °C: Cooler 1: (4.0);

Cooler Temps (Corrected) °C: Cooler 1: (4.0);

<u>Cooler Security</u>	<u>Y or N</u>		<u>Y or N</u>	
1. Custody Seals Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/> <input type="checkbox"/>

<u>Cooler Temperature</u>	<u>Y or N</u>
1. Temp criteria achieved:	<input checked="" type="checkbox"/> <input type="checkbox"/>
2. Cooler temp verification:	_____
3. Cooler media:	Ice (Bag)
4. No. Coolers:	1

<u>Quality Control Preservation</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>

<u>Sample Integrity - Documentation</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

<u>Sample Integrity - Condition</u>	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:	Intact		

<u>Sample Integrity - Instructions</u>	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume recvd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify) _____

Comments: -2 No analysis marked on COC. Please confirm analysis.

4.1
4

Responded to by: Kelly Ramos

Response Date: 1/4/2023

Please analyze for VOCs

4.1

4

JD58140: Chain of Custody

Page 3 of 4

Job Change Order: JD58140

Requested Date: 1/4/2023 **Received Date:** 1/3/2023
Account Name: GHD Services Inc. **Due Date:** 1/4/2023
Project Description: Former Bob's Citgo, 9 Ferry Street, Allenstown, **Deliverable:** COMMB
C/O Initiated By: KELLY.RAM **PM:** KR **TAT (Days):** 7

=====
Sample #: JD58140-3 **Change:**
Please cancel V524BTX, V524TOTBTX, VMS+ACE - hold effluent VOC
until the midpoint results are received
Dept:
TAT: 7

TRAIN 1 EFFLUENT
=====

JD58140: Chain of Custody
Page 4 of 4

Above Changes Per: Angela Boyd **Date/Time:** 1/4/2023

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

MS Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Surrogate Recovery Summaries

Method Blank Summary

Job Number: JD58140
Account: CRANYNF GHD Services Inc.
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1B6481-MB	1B133445.D	1	01/13/23	BK	n/a	n/a	V1B6481

The QC reported here applies to the following samples:

Method: EPA 524.2 REV 4.1

JD58140-1, JD58140-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.16	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.076	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	
1330-20-7	Xylenes (total)	ND	0.50	0.076	ug/l	

CAS No.	Surrogate Recoveries	Limits	
2199-69-1	1,2-Dichlorobenzene-d4	90%	70-130%
460-00-4	4-Bromofluorobenzene	91%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

5.1.1
5

Blank Spike Summary

Job Number: JD58140

Account: CRANYNF GHD Services Inc.

Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1B6481-BS	1B133444.D	1	01/13/23	BK	n/a	n/a	V1B6481

The QC reported here applies to the following samples:

Method: EPA 524.2 REV 4.1

JD58140-1, JD58140-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	20	19.6	98	70-130
71-43-2	Benzene	5	4.2	84	70-130
100-41-4	Ethylbenzene	5	4.8	96	70-130
108-88-3	Toluene	5	4.6	92	70-130
1330-20-7	Xylenes (total)	15	14.0	93	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
2199-69-1	1,2-Dichlorobenzene-d4	109%	70-130%
460-00-4	4-Bromofluorobenzene	103%	70-130%

* = Outside of Control Limits.

Matrix Spike Summary

Job Number: JD58140
Account: CRANYNF GHD Services Inc.
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD58179-2MS	1B133450.D	1	01/13/23	BK	n/a	n/a	V1B6481
JD58179-2	1B133446.D	1	01/13/23	BK	n/a	n/a	V1B6481
JD58179-2	1B133451.D	10	01/13/23	BK	n/a	n/a	V1B6481

The QC reported here applies to the following samples:

Method: EPA 524.2 REV 4.1

JD58140-1, JD58140-2

CAS No.	Compound	JD58179-2 ug/l	Spike Q	ug/l	MS ug/l	MS %	Limits
67-64-1	Acetone	ND	20	26.7	134	39-151	
71-43-2	Benzene	ND	5	5.4	108	42-154	
100-41-4	Ethylbenzene	ND	5	5.8	116	37-155	
108-88-3	Toluene	ND	5	5.6	112	40-148	
1330-20-7	Xylenes (total)	ND	15	17.0	113	21-162	

CAS No.	Surrogate Recoveries	MS	JD58179-2	JD58179-2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	110%	93%	94%	70-130%
460-00-4	4-Bromofluorobenzene	107%	94%	92%	70-130%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JD58140
Account: CRANYNF GHD Services Inc.
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JD58397-1DUP	1B133453.D	1	01/13/23	BK	n/a	n/a	V1B6481
JD58397-1	1B133447.D	1	01/13/23	BK	n/a	n/a	V1B6481

The QC reported here applies to the following samples:

Method: EPA 524.2 REV 4.1

JD58140-1, JD58140-2

CAS No.	Compound	JD58397-1		Q	RPD	Limits
		ug/l	DUP ug/l			
67-64-1	Acetone	ND	ND		nc	30
71-43-2	Benzene	ND	ND		nc	30
100-41-4	Ethylbenzene	ND	ND		nc	30
108-88-3	Toluene	ND	ND		nc	30
1330-20-7	Xylenes (total)	ND	ND		nc	30

CAS No.	Surrogate Recoveries	DUP	JD58397-1	Limits
2199-69-1	1,2-Dichlorobenzene-d4	95%	93%	70-130%
460-00-4	4-Bromofluorobenzene	93%	92%	70-130%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: JD58140
Account: CRANYNF GHD Services Inc.
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

Sample: V1B6480-BFB	Injection Date: 01/12/23
Lab File ID: 1B133425.D	Injection Time: 21:27
Instrument ID: GCMS1B	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.99 - 40.0% of mass 95	10673	24.1	Pass
75	30.0 - 80.0% of mass 95	24597	55.5	Pass
95	Base peak, 100% relative abundance	44312	100.0	Pass
96	5.0 - 9.0% of mass 95	2942	6.64	Pass
173	Less than 2.0% of mass 174	261	0.59 (0.68) ^a	Pass
174	50.0 - 120.0% of mass 95	38157	86.1	Pass
175	5.0 - 9.0% of mass 174	2714	6.12 (7.11) ^a	Pass
176	95.0 - 101.0% of mass 174	37989	85.7 (99.6) ^a	Pass
177	5.0 - 9.0% of mass 176	2413	5.45 (6.35) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1B6480-IC6480	1B133426.D	01/12/23	22:10	00:43	Initial cal 0.2
V1B6480-IC6480	1B133427.D	01/12/23	22:40	01:13	Initial cal 0.5
V1B6480-IC6480	1B133428.D	01/12/23	23:11	01:44	Initial cal 1
V1B6480-IC6480	1B133429.D	01/12/23	23:41	02:14	Initial cal 2
V1B6480-IC6480	1B133430.D	01/13/23	00:11	02:44	Initial cal 5
V1B6480-ICC6480	1B133431.D	01/13/23	00:41	03:14	Initial cal 10
V1B6480-IC6480	1B133432.D	01/13/23	01:12	03:45	Initial cal 20

5.5.1
5

Instrument Performance Check (BFB)

Job Number: JD58140
Account: CRANYNF GHD Services Inc.
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

Sample: V1B6480-BFB2	Injection Date: 01/13/23
Lab File ID: 1B133436.D	Injection Time: 11:35
Instrument ID: GCMS1B	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.99 - 40.0% of mass 95	13551	23.0	Pass
75	30.0 - 80.0% of mass 95	32656	55.5	Pass
95	Base peak, 100% relative abundance	58840	100.0	Pass
96	5.0 - 9.0% of mass 95	4289	7.29	Pass
173	Less than 2.0% of mass 174	211	0.36 (0.41) ^a	Pass
174	50.0 - 120.0% of mass 95	51440	87.4	Pass
175	5.0 - 9.0% of mass 174	3996	6.79 (7.77) ^a	Pass
176	95.0 - 101.0% of mass 174	51160	86.9 (99.5) ^a	Pass
177	5.0 - 9.0% of mass 176	3529	6.00 (6.90) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1B6480-ICV6480	1B133437.D	01/13/23	12:15	00:40	Initial cal verification 10
V1B6480-ICV6480	1B133439.D	01/13/23	13:18	01:43	Initial cal verification 10

5.5.2
5

Instrument Performance Check (BFB)

Job Number: JD58140
Account: CRANYNF GHD Services Inc.
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

Sample: V1B6481-BFB	Injection Date: 01/13/23
Lab File ID: 1B133440.D	Injection Time: 14:40
Instrument ID: GCMS1B	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	14.99 - 40.0% of mass 95	8875	23.5	Pass
75	30.0 - 80.0% of mass 95	21075	55.7	Pass
95	Base peak, 100% relative abundance	37816	100.0	Pass
96	5.0 - 9.0% of mass 95	2800	7.40	Pass
173	Less than 2.0% of mass 174	239	0.63 (0.71) ^a	Pass
174	50.0 - 120.0% of mass 95	33515	88.6	Pass
175	5.0 - 9.0% of mass 174	2755	7.29 (8.22) ^a	Pass
176	95.0 - 101.0% of mass 174	33680	89.1 (100.5) ^a	Pass
177	5.0 - 9.0% of mass 176	2191	5.79 (6.51) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1B6481-CC6480	1B133441.D	01/13/23	15:11	00:31	Continuing cal 5
V1B6481-BS	1B133444.D	01/13/23	16:45	02:05	Blank Spike
V1B6481-MB	1B133445.D	01/13/23	17:17	02:37	Method Blank
JD58179-2	1B133446.D	01/13/23	17:48	03:08	(used for QC only; not part of job JD58140)
JD58397-1	1B133447.D	01/13/23	18:19	03:39	(used for QC only; not part of job JD58140)
JD58140-2	1B133448.D	01/13/23	18:49	04:09	TRAIN 1 MIDPOINT
JD58140-1	1B133449.D	01/13/23	19:20	04:40	TRAIN 1 INFLUENT
JD58179-2MS	1B133450.D	01/13/23	19:50	05:10	Matrix Spike
JD58179-2	1B133451.D	01/13/23	20:20	05:40	(used for QC only; not part of job JD58140)
JD58140-1	1B133452.D	01/13/23	20:51	06:11	TRAIN 1 INFLUENT
JD58397-1DUP	1B133453.D	01/13/23	21:21	06:41	Duplicate
ZZZZZZ	1B133454.D	01/13/23	21:51	07:11	(unrelated sample)
ZZZZZZ	1B133455.D	01/13/23	22:21	07:41	(unrelated sample)
ZZZZZZ	1B133456.D	01/13/23	22:52	08:12	(unrelated sample)
ZZZZZZ	1B133457.D	01/13/23	23:22	08:42	(unrelated sample)
ZZZZZZ	1B133458.D	01/13/23	23:53	09:13	(unrelated sample)
ZZZZZZ	1B133459.D	01/14/23	00:23	09:43	(unrelated sample)
ZZZZZZ	1B133460.D	01/14/23	00:54	10:14	(unrelated sample)

5.5.3
5

Surrogate Recovery Summary

Job Number: JD58140

Account: CRANYNF GHD Services Inc.

Project: Former Bob's Citgo, 9 Ferry Street, Allentown, NH

Method: EPA 524.2 REV 4.1	Matrix: AQ
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Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
JD58140-1	1B133452.D	93	91
JD58140-1	1B133449.D	98	101
JD58140-2	1B133448.D	96	95
JD58179-2MS	1B133450.D	110	107
JD58397-1DUP	1B133453.D	95	93
V1B6481-BS	1B133444.D	109	103
V1B6481-MB	1B133445.D	90	91

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichlorobenzene-d4	70-130%
S2 = 4-Bromofluorobenzene	70-130%

5.6.1
5

Metals Analysis

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: JD58140
Account: CRANYNF - GHD Services Inc.
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

QC Batch ID: MP37266
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 01/05/23

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	16	77		
Antimony	6.0	2.5	4.1	-1.8	<6.0
Arsenic	3.0	2	2.5	1.1	<3.0
Barium	200	.4	17		
Beryllium	1.0	.1	.5		
Bismuth	20	3.6	4.8		
Boron	100	1.9	85		
Cadmium	3.0	.4	1.2	-0.20	<3.0
Calcium	5000	5.6	130		
Cerium	100				
Chromium	10	.5	1.5	0.0	<10
Cobalt	50	.5	2.5		
Copper	10	1	4.1	-0.70	<10
Iron	100	11	30		
Lead	3.0	1.2	2.4	0.70	<3.0
Lithium	50	2.3	9.1		
Magnesium	5000	65	200		
Manganese	15	.2	2		
Molybdenum	20	.4	4.5		
Nickel	10	.3	1.8	0.50	<10
Phosphorus	50	4.1	14		
Potassium	10000	55	200		
Selenium	10	3.5	5.5	-2.2	<10
Silicon	200	1.6	130		
Silver	10	1.1	2.4	-0.40	<10
Sodium	10000	11	900		
Strontium	10	.1	1.6		
Sulfur	50	4.4	18		
Thallium	10	2.5	1.9		
Tin	50	1	4.7		
Titanium	10	.4	1.9		
Tungsten	50	2.8	19		
Vanadium	50	.6	2.3		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD58140
Account: CRANYNF - GHD Services Inc.
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

QC Batch ID: MP37266
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 01/05/23

Metal	RL	IDL	MDL	MB	
				raw	final

Zinc 20 .1 8.5

Zirconium 10 .4 4.9

Associated samples MP37266: JD58140-1, JD58140-3

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD58140
 Account: CRANYNF - GHD Services Inc.
 Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

QC Batch ID: MP37266
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 01/05/23

Metal	JD58140-1 Original MS	SpikeLot MP200.7A	% Rec	QC Limits	
Aluminum					
Antimony	0.0	1780	2000	89.0	70-130
Arsenic	59.7	1840	2000	89.0	70-130
Barium					
Beryllium					
Bismuth					
Boron					
Cadmium	6.9	1850	2000	92.2	70-130
Calcium					
Cerium					
Chromium	0.0	1790	2000	89.5	70-130
Cobalt					
Copper	1.2	1730	2000	86.4	70-130
Iron					
Lead	0.0	1830	2000	91.5	70-130
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel	0.60	1790	2000	89.5	70-130
Phosphorus					
Potassium					
Selenium	0.0	1930	2000	96.5	70-130
Silicon					
Silver	1.2	79.1	80	97.4	70-130
Sodium					
Strontium					
Sulfur					
Thallium					
Tin					
Titanium					
Tungsten					
Vanadium					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD58140
Account: CRANYNF - GHD Services Inc.
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

QC Batch ID: MP37266
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 01/05/23

Metal	JD58140-1 Original MS	SpikeLot MP200.7A % Rec	QC Limits
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Zinc anr

Zirconium

Associated samples MP37266: JD58140-1, JD58140-3

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD58140
 Account: CRANYNF - GHD Services Inc.
 Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

QC Batch ID: MP37266
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 01/05/23

Metal	JD58140-1 Original MSD		Spike/lot MP200.7A % Rec	MSD RPD	QC Limit	
Aluminum						
Antimony	0.0	1760	2000	88.0	1.1	10
Arsenic	59.7	1820	2000	88.0	1.1	10
Barium						
Beryllium						
Bismuth						
Boron						
Cadmium	6.9	1830	2000	91.2	1.1	10
Calcium						
Cerium						
Chromium	0.0	1760	2000	88.0	1.7	10
Cobalt						
Copper	1.2	1700	2000	84.9	1.7	10
Iron						
Lead	0.0	1800	2000	90.0	1.7	10
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel	0.60	1770	2000	88.5	1.1	10
Phosphorus						
Potassium						
Selenium	0.0	1900	2000	95.0	1.6	10
Silicon						
Silver	1.2	79.0	80	97.3	0.1	10
Sodium						
Strontium						
Sulfur						
Thallium						
Tin						
Titanium						
Tungsten						
Vanadium						

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD58140
 Account: CRANYNF - GHD Services Inc.
 Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

QC Batch ID: MP37266
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 01/05/23

Metal	JD58140-1 Original MSD	SpikeLot MP200.7A % Rec	MSD RPD	QC Limit
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Zinc anr

Zirconium

Associated samples MP37266: JD58140-1, JD58140-3

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD58140
 Account: CRANYNF - GHD Services Inc.
 Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

QC Batch ID: MP37266
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 01/05/23

Metal	BSP Result	Spikelot MP200.7A	% Rec	QC Limits
Aluminum				
Antimony	1980	2000	99.0	85-115
Arsenic	1960	2000	98.0	85-115
Barium				
Beryllium				
Bismuth				
Boron				
Cadmium	1980	2000	99.0	85-115
Calcium				
Cerium				
Chromium	1920	2000	96.0	85-115
Cobalt				
Copper	1860	2000	93.0	85-115
Iron				
Lead	1960	2000	98.0	85-115
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel	1910	2000	95.5	85-115
Phosphorus				
Potassium				
Selenium	2070	2000	103.5	85-115
Silicon				
Silver	82.6	80	103.3	85-115
Sodium				
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD58140
Account: CRANYNF - GHD Services Inc.
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

QC Batch ID: MP37266
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 01/05/23

Metal	BSP Result	Spikelot MP200.7A % Rec	QC Limits
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Zinc anr

Zirconium

Associated samples MP37266: JD58140-1, JD58140-3

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

6.1.3

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SERIAL DILUTION RESULTS SUMMARY

Login Number: JD58140
 Account: CRANYNF - GHD Services Inc.
 Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

QC Batch ID: MP37266
 Matrix Type: AQUEOUS

Methods: EPA 200.7
 Units: ug/l

Prep Date: 01/05/23

Metal	JD58140-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	0.00	0.00	NC	0-10
Arsenic	59.7	55.3	7.4	0-10
Barium				
Beryllium				
Bismuth				
Boron				
Cadmium	6.90	6.30	8.7	0-10
Calcium				
Cerium				
Chromium	0.00	0.00	NC	0-10
Cobalt				
Copper	1.20	5.80	383.3(a)	0-10
Iron				
Lead	0.00	0.00	NC	0-10
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel	0.600	0.00	100.0(a)	0-10
Phosphorus				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver	1.20	0.00	100.0(a)	0-10
Sodium				
Strontium				
Sulfur				
Thallium				
Tin				
Titanium				
Tungsten				
Vanadium				

SERIAL DILUTION RESULTS SUMMARY

Login Number: JD58140
Account: CRANYNF - GHD Services Inc.
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

QC Batch ID: MP37266
Matrix Type: AQUEOUS

Methods: EPA 200.7
Units: ug/l

Prep Date: 01/05/23

Metal	JD58140-1 Original SDL 1:5	%DIF	QC Limits
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Zinc anr

Zirconium

Associated samples MP37266: JD58140-1, JD58140-3

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: JD58140
Account: CRANYNF - GHD Services Inc.
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

QC Batch ID: MP37267
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 01/05/23

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.42	12		
Antimony	2.0	.085	.88		
Arsenic	1.0	.025	.25		
Barium	1.0	.009	.36		
Beryllium	0.50	.005	.065		
Boron	50	.85	18		
Cadmium	0.50	.01	.099		
Calcium	250	3.6	35		
Chromium	4.0	.018	.33		
Cobalt	0.50	.003	.06		
Copper	4.0	.024	2.1		
Iron	50	.24	12	0.18	<50
Lead	0.50	.008	.14		
Magnesium	250	.19	43		
Manganese	1.0	.012	.38		
Molybdenum	1.0	.017	.18		
Nickel	4.0	.017	1.3		
Potassium	250	.78	43		
Selenium	1.0	.044	.65		
Silver	2.0	.004	.067		
Sodium	250	1.5	50		
Strontium	5.0	.014	.65		
Thallium	0.50	.002	.085		
Tin	5.0	.041	.62		
Titanium	1.0	.11	.63		
Vanadium	4.0	.013	.48		
Zinc	10	.078	3.7	0.46	<10

Associated samples MP37267: JD58140-1, JD58140-3

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

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD58140
 Account: CRANYNF - GHD Services Inc.
 Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

QC Batch ID: MP37267
 Matrix Type: AQUEOUS

Methods: EPA 200.8
 Units: ug/l

Prep Date: 01/05/23

Metal	JD58140-1 Original MS	SpikeLot MPX200.8B% Rec	QC Limits
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Boron			
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper			
Iron	12200 14000	2000	90.0 70-130
Lead			
Magnesium			
Manganese			
Molybdenum			
Nickel			
Potassium			
Selenium			
Silver			
Sodium			
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc	27.9 105	80	99.4 70-130

Associated samples MP37267: JD58140-1, JD58140-3

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD58140
 Account: CRANYNF - GHD Services Inc.
 Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

QC Batch ID: MP37267
 Matrix Type: AQUEOUS

Methods: EPA 200.8
 Units: ug/l

Prep Date: 01/05/23

Metal	JD58140-1 Original MSD	Spike/lot MPX200.8B% Rec	MSD RPD	QC Limit		
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron	12200	13600	2000	70.0	2.9	10
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	27.9	104	80	98.1	1.0	10

Associated samples MP37267: JD58140-1, JD58140-3

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD58140
 Account: CRANYNF - GHD Services Inc.
 Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

QC Batch ID: MP37267
 Matrix Type: AQUEOUS

Methods: EPA 200.8
 Units: ug/l

Prep Date: 01/05/23

Metal	BSP Result	Spikelot MPX200.8B% Rec	QC Limits
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Boron			
Cadmium			
Calcium			
Chromium			
Cobalt			
Copper			
Iron	1890	2000	94.5 85-115
Lead			
Magnesium			
Manganese			
Molybdenum			
Nickel			
Potassium			
Selenium			
Silver			
Sodium			
Strontium			
Thallium			
Tin			
Titanium			
Vanadium			
Zinc	78.0	80	97.5 85-115

Associated samples MP37267: JD58140-1, JD58140-3

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: JD58140
Account: CRANYNF - GHD Services Inc.
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

QC Batch ID: MP37286
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 01/05/23

Metal	RL	IDL	MDL	MB raw	final
Mercury	0.20	.034	.092	0.050	<0.20

Associated samples MP37286: JD58140-1, JD58140-3

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

6.3.1
6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD58140
 Account: CRANYNF - GHD Services Inc.
 Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

QC Batch ID: MP37286
 Matrix Type: AQUEOUS

Methods: EPA 245.1
 Units: ug/l

Prep Date: 01/05/23

Metal	JD58186-1 Original MS	Spike lot	HGPW3	% Rec	QC Limits
-------	--------------------------	--------------	-------	-------	--------------

Mercury	0.0	2.1	2	105.0	70-130
---------	-----	-----	---	-------	--------

Associated samples MP37286: JD58140-1, JD58140-3

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

6.3.2

6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: JD58140
 Account: CRANYNF - GHD Services Inc.
 Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

QC Batch ID: MP37286
 Matrix Type: AQUEOUS

Methods: EPA 245.1
 Units: ug/l

Prep Date: 01/05/23

Metal	JD58186-1 Original MSD	SpikeLot HGPW3	% Rec	MSD RPD	QC Limit
-------	---------------------------	-------------------	-------	------------	-------------

Mercury	0.0	2.1	2	105.0	0.0	19
---------	-----	-----	---	-------	-----	----

Associated samples MP37286: JD58140-1, JD58140-3

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

6.3.2

6

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: JD58140
Account: CRANYNF - GHD Services Inc.
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

QC Batch ID: MP37286
Matrix Type: AQUEOUS

Methods: EPA 245.1
Units: ug/l

Prep Date: 01/05/23

Metal	BSP Result	Spikelot HGPW3	% Rec	QC Limits
-------	---------------	-------------------	-------	--------------

Mercury 2.1 2 105.0 85-115

Associated samples MP37286: JD58140-1, JD58140-3

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

6.3.3

6

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: JD58140
Account: CRANYNF - GHD Services Inc.
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP44457/GN37269	2.0	0.0	mg/l	80	81.1	101.4	90-110%
Nitrogen, Ammonia	GP44449/GN37262	0.20	0.0	mg/l	1	1.05	105.0	80-120%
Phenols	GP44463/GN37354	0.20	0.0	mg/l	0.5	0.510	102.0	90-110%
Solids, Total Suspended	GN37267	4.0	0.0	mg/l	100	95.0	95.0	80-120%
Sulfate	GP44457/GN37269	2.0	0.0	mg/l	80	82.0	102.5	90-110%
Total Residual Chlorine	GN37292	0.050	0.0	mg/l	1.0	1.1	105.3	90-110%

Associated Samples:

Batch GN37267: JD58140-1, JD58140-3
Batch GN37292: JD58140-1, JD58140-3
Batch GP44449: JD58140-1, JD58140-3
Batch GP44457: JD58140-1, JD58140-3
Batch GP44463: JD58140-1, JD58140-3
Batch GP44463: JD58140-1, JD58140-3
(*) Outside of QC limits

7.1
7

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD58140
Account: CRANYNF - GHD Services Inc.
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chloride	GP44457/GN37269	JD58144-1	mg/l	3.5	3.6	2.8	0-20%
Nitrogen, Ammonia	GP44449/GN37262	JD58140-1	mg/l	0.15	0.13	14.3	0-33%
Phenols	GP44463/GN37354	JD58140-1	mg/l	0.0	0.0	0.0	0-20%
Solids, Total Suspended	GN37267	JD58140-3	mg/l	0.0	0.0	0.0	0-5%
Sulfate	GP44457/GN37269	JD58144-1	mg/l	48.5	48.5	0.0	0-20%
Total Residual Chlorine	GN37292	JD58140-1	mg/l	0.043	0.064	39.3	0-49%

Associated Samples:

Batch GN37267: JD58140-1, JD58140-3
Batch GN37292: JD58140-1, JD58140-3
Batch GP44449: JD58140-1, JD58140-3
Batch GP44457: JD58140-1, JD58140-3
Batch GP44463: JD58140-1, JD58140-3
(*) Outside of QC limits

7.2
7

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD58140
Account: CRANYNF - GHD Services Inc.
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP44457/GN37269	JD58144-1	mg/l	3.5	80	84.9	101.8	80-120%
Nitrogen, Ammonia	GP44449/GN37262	JD58140-1	mg/l	0.15	1	1.1	95.0	75-131%
Phenols	GP44463/GN37354	JD58140-1	mg/l	0.0	0.5	0.55	110.0	90-110%
Sulfate	GP44457/GN37269	JD58144-1	mg/l	48.5	80	130	101.9	80-120%

Associated Samples:

Batch GP44449: JD58140-1, JD58140-3

Batch GP44457: JD58140-1, JD58140-3

Batch GP44463: JD58140-1, JD58140-3

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

7.3

7

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: JD58140
Account: CRANYNF - GHD Services Inc.
Project: Former Bob's Citgo, 9 Ferry Street, Allenstown, NH

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Nitrogen, Ammonia	GP44449/GN37262	JD58140-1	mg/l	0.15	1	1.1	0.0	14%

Associated Samples:

Batch GP44449: JD58140-1, JD58140-3

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

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

e-Hardcopy 2.0
Automated Report

Technical Report for

GHD Services Inc.

Former Bob's Citgo, 9 Ferry Street, Allentown, NH

SSOW:757-402-D02-3100 PO#4502864759

SGS Job Number: JD60375

Sampling Date: 02/16/23

Report to:

paul.mcmahon@ghd.com
aboyd@esm-inc.com

ATTN: Distribution4

Total number of pages in report: 7



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.

A handwritten signature in blue ink, appearing to read "D. Chastain".

David Chastain
General Manager

Client Service contact: Kelly Ramos 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(68-00408), RI, SC, TX, UT, VA, WV

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

Sample Summary

GHD Services Inc.

Job No: JD60375

Former Bob's Citgo, 9 Ferry Street, Allenstown, NH
Project No: SSOW:757-402-D02-3100 PO#4502864759

Sample Number	Collected Date	Time By	Received	Matrix Code Type	Client Sample ID
---------------	----------------	---------	----------	------------------	------------------

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JD60375-1	02/16/23	10:40	CG	02/16/23	AQ	Surface Water	RECEIVING WATER
JD60375-2	02/16/23	10:25	CG	02/16/23	AQ	Influent	SYSTEM INFLUENT
JD60375-3	02/16/23	10:20	CG	02/16/23	AQ	Effluent	SYSTEM EFFLUENT

Report of Analysis

Client Sample ID: RECEIVING WATER		Date Sampled: 02/16/23
Lab Sample ID: JD60375-1		Date Received: 02/16/23
Matrix: AQ - Surface Water		Percent Solids: n/a
Project: Former Bob's Citgo, 9 Ferry Street, Allentown, NH		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO ₃	26.0	5.0	mg/l	1	02/17/23 11:48	MK	SM2340 C-11

RL = Reporting Limit

Report of Analysis**Client Sample ID:** SYSTEM INFLUENT**Lab Sample ID:** JD60375-2**Matrix:** AQ - Influent**Project:** Former Bob's Citgo, 9 Ferry Street, Allentown, NH**Date Sampled:** 02/16/23**Date Received:** 02/16/23**Percent Solids:** n/a**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.010	0.010	mg/l	1	02/17/23 14:46	JD	EPA 335.4/LACHAT
HEM Petroleum Hydrocarbons	< 5.0	5.0	mg/l	1	02/17/23 12:10	AS	EPA 1664A
Nitrogen, Nitrate + Nitrite	< 0.10	0.10	mg/l	1	02/17/23 12:28	MM	EPA 353.2/LACHAT
Nitrogen, Total ^a	< 0.30	0.30	mg/l	1	02/17/23 14:46	MM	SM4500 A-11
Nitrogen, Total Kjeldahl	0.22	0.20	mg/l	1	02/17/23 14:46	MM	EPA 351.2/LACHAT
Solids, Total Dissolved	452	10	mg/l	1	02/17/23 10:02	AS	SM2540 C-11/15
Turbidity	21.7	0.30	NTU	1	02/17/23 14:19	DB	EPA 180.1

(a) Calculated as: (Nitrogen, Total Kjeldahl) + (Nitrogen, Nitrate + Nitrite)

Report of Analysis

Client Sample ID:	SYSTEM EFFLUENT		Date Sampled:	02/16/23
Lab Sample ID:	JD60375-3	Date Received:	02/16/23	
Matrix:	AQ - Effluent	Percent Solids:	n/a	
Method:	EPA 624.1			
Project:	Former Bob's Citgo, 9 Ferry Street, Allentown, NH			

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2D208596.D	1	02/17/23 15:53	BK	n/a	n/a	V2D9081
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	39.8	1.0	0.34	ug/l	
108-88-3	Toluene	0.85	1.0	0.36	ug/l	J
100-41-4	Ethylbenzene	2.7	1.0	0.30	ug/l	
1330-20-7	Xylenes (total)	ND	1.0	0.35	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4 (SUR)	107%		80-128%
2037-26-5	Toluene-D8 (SUR)	99%		82-113%
460-00-4	4-Bromofluorobenzene (SUR)	97%		79-117%
1868-53-7	Dibromofluoromethane (S)	96%		84-121%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



CHAIN OF CUSTODY

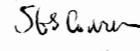
SGS North America Inc. - Dayton
 2235 Route 130, Dayton, NJ 08810
 TEL: 732-329-0200 FAX: 732-329-3499/3480
 www.sgs.com/ehsusa

EHSa-OAC-0023-04-FORM-Standard COC

SW
GW

FED-EX Tracking #	Bottle Order Control # KR-021523-9
SGS Quote #	SGS Job # JD60375

Client / Reporting Information Company Name: <u>Glenn Springs Holdings (HHD)</u> Street Address: <u>2055 Niagara Falls Blvd, Site 3</u> City: <u>Niagara Falls, NY</u> State: <u>NY</u> Zip: <u>14304</u> Project Contact: <u>Paul Mc Mahon @ ghd.com</u> Phone #: <u>716 237 7329 ext 204</u> Sampler(s) Name(s): <u>Chris Griffin</u>		Project Information Project Name: <u>Former Bob's Citgo</u> Street: <u>9 Ferry Street</u> City: <u>Allenstown, NH</u> Project #: <u>CRANYNF 90002</u> Project Manager: <u>Angela Boyd</u>			Requested Analysis <div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Hardness Turb. d. ty Total Nitrogen (TKN) (n.H.) Total Dissolved Solids TPH 1664 Cyanide BTEX </div> <div style="border: 1px solid black; padding: 2px;"> Matrix Codes DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank </div> </div>																																																																																																	
Billing Information (if different from Report to) Company Name: _____ Street Address: _____ City: _____ State: _____ Zip: _____		pH Check (Lab Use Only) <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Sample #</th> <th>Field ID / Point of Collection</th> <th>MEOH/ DI Vol #</th> <th>Date</th> <th>Time</th> <th>Sampled by</th> <th>Grab (G) (Comp. IC)</th> <th>Source Chlorinat. (Y/N)</th> <th>Matrix</th> <th># of bottles</th> <th>HCl</th> <th>NaOH</th> <th>H₂O₂</th> <th>HNO₃</th> <th>None</th> <th>DI Water</th> <th>MEDH</th> <th>ENCORE</th> <th colspan="4">LAB USE ONLY</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Receiving water</td> <td></td> <td>2/16/23</td> <td>10:40</td> <td>CG</td> <td>G</td> <td>N</td> <td>Sw</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td>247</td> </tr> <tr> <td>2</td> <td>System Influent</td> <td></td> <td>2/16/23</td> <td>10:35</td> <td>CG</td> <td>G</td> <td>N</td> <td>Gw</td> <td>5</td> <td>2</td> <td>1</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>209</td> </tr> <tr> <td>3</td> <td>System Effluent</td> <td></td> <td>2/16/23</td> <td>10:20</td> <td>CG</td> <td>G</td> <td>N</td> <td>Gw</td> <td>4</td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td>4874 V664</td> </tr> </tbody> </table>										Sample #	Field ID / Point of Collection	MEOH/ DI Vol #	Date	Time	Sampled by	Grab (G) (Comp. IC)	Source Chlorinat. (Y/N)	Matrix	# of bottles	HCl	NaOH	H ₂ O ₂	HNO ₃	None	DI Water	MEDH	ENCORE	LAB USE ONLY				1	Receiving water		2/16/23	10:40	CG	G	N	Sw	1									X				247	2	System Influent		2/16/23	10:35	CG	G	N	Gw	5	2	1	1						X	X	X	X	209	3	System Effluent		2/16/23	10:20	CG	G	N	Gw	4	4								X				4874 V664
Sample #	Field ID / Point of Collection	MEOH/ DI Vol #	Date	Time	Sampled by	Grab (G) (Comp. IC)	Source Chlorinat. (Y/N)	Matrix	# of bottles	HCl	NaOH	H ₂ O ₂	HNO ₃	None	DI Water	MEDH	ENCORE	LAB USE ONLY																																																																																				
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2	System Influent		2/16/23	10:35	CG	G	N	Gw	5	2	1	1						X	X	X	X	209																																																																																
3	System Effluent		2/16/23	10:20	CG	G	N	Gw	4	4								X				4874 V664																																																																																

Turn Around Time (Business Days) <input type="checkbox"/> 10 Business Days <input type="checkbox"/> 5 Business Days <input type="checkbox"/> 3 Business Days* <input type="checkbox"/> 2 Business Days* <input checked="" type="checkbox"/> 1 Business Day* <input type="checkbox"/> Other _____ <small>All data available via Lablink</small>	Approved By (SGS PM) / Date: _____ <input type="checkbox"/> Commercial "A" (Level 1) <input checked="" type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> NJ Reduced (Level 3) <input type="checkbox"/> Full Tier 1 (Level 4) <input type="checkbox"/> Commercial "C" <input type="checkbox"/> NJ DKQP	Deliverable <input type="checkbox"/> NYASP Category A <input type="checkbox"/> NYASP Category B <input type="checkbox"/> MA MCP Criteria <input type="checkbox"/> CT RCP Criteria <input type="checkbox"/> State Forms <input checked="" type="checkbox"/> EDD Format <u>GHD</u>
Comments / Special Instructions <div style="text-align: center;">  SGS Service Center Northborough, MA 2/16 </div>		

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished By: <u>[Signature]</u>	Date / Time: <u>2/16/23 10:45</u>	Received By: <u>[Signature]</u>	Date / Time: <u>12:25</u>	Received By: <u>[Signature]</u>
Relinquished By: <u>[Signature]</u>	Date / Time: <u>2/16/23 12:50</u>	Received By: <u>[Signature]</u>	Date / Time: <u>2/16/23 2:55</u>	Received By: <u>[Signature]</u>
Custody Seal # <input type="checkbox"/> Inact <input type="checkbox"/> Not Inact <input type="checkbox"/> Absent		Therm ID: <u>[Signature]</u> <input type="checkbox"/> On Ice <input type="checkbox"/> Cool Temp. °C <u>0.6</u>		

SGS Sample Receipt Summary

Job Number: JD60375

Client: GHD SERVICES INC.

Project: FOMER BOB'S CITGO, 9 FERRY STREET,

Date / Time Received: 2/16/2023 9:55:00 PM

Delivery Method: SGS COURIER

Airbill #'s: _____

Cooler Temps (Raw Measured) °C: Cooler 1: (0.8);

Cooler Temps (Corrected) °C: Cooler 1: (0.8);

Cooler Security

Y or N

Y or N

- | | | | | | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

Y or N

- | | | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | _____ | |
| 3. Cooler media: | <u>Ice (Bag)</u> | |
| 4. No. Coolers: | <u>1</u> | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Documentation

Y or N

- | | | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

Y or N

- | | | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | <u>Intact</u> | |

Sample Integrity - Instructions

Y or N N/A

- | | | | |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Test Strip Lot #s:	pH 1-12: <u>231619</u>	pH 12+: <u>203117A</u>	Other: (Specify) _____
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Comments

SM089-03
Rev. Date 12/7/17