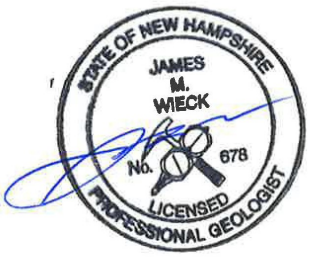
DES Waste Management Division
29 Hazen Drive; PO Box 95
Concord, NH 03302-0095

ANNUAL SUMMARY REPORT
CALENDAR YEAR 2022
CROSS ROAD LANDFILL
EXETER, NEW HAMPSHIRE
NHDES SITE # 198401081
GROUNDWATER MANAGEMENT PERMIT #198401081-E-005
PROJECT NO. 978



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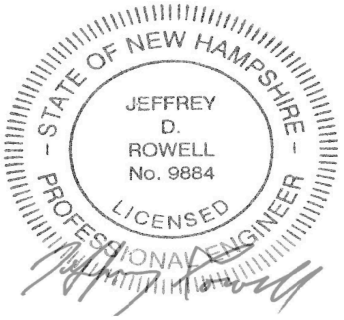

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Date of Report: February 10, 2023

Groundwater Monitoring Report Cover Sheet

Site Name: Cross Road Landfill and Stump Dump

Town: Exeter, New Hampshire

Permit #: GWP-198401081-E-005

Type of Submittal (*Check all that apply*)

☒ Periodic Summary Report (*year*): 2022

☐ Data Submittal (*per Condition #7 of Permit*):

Check each box where the answer to any of the following questions is "YES"

Sampling Results

☐ During the most recent monitoring event, were any new compounds detected at any sampling point?
Well/Compound:

☐ Are there any detections of contamination in drinking water that is untreated prior to use?
Well/Compound:
☐ Do compounds detected exceed AGQS?

☐ Was free product detected for the first time in any monitoring point?
☐ Surface Water (*visible sheen*)
☐ Groundwater (*1/8" or greater thickness*)
Location/Thickness:

Contaminant Trends

☐ Do sampling results show an increasing concentration trend in any source area monitoring well?
Well/Compound:

☐ Do sampling results indicate an AGQS violation in any of the GMZ boundary wells?
Well/Compound:

Recommendations

☐ Does the report include any recommendations requiring DES action? (*Do not check this box if the only recommendation is to continue with existing permit conditions.*)

This form is to be completed for groundwater monitoring data submittals and periodic summary reports submitted to the New Hampshire Department of Environmental Services Waste Management Division.

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February 10, 2023
File No. 04.0021270.34

Groundwater Management Permit Coordinator
New Hampshire Department of Environmental Services
Waste Management Division
29 Hazen Drive, P.O. Box 95
Concord, New Hampshire 03302-0095

Re: **Annual Summary Report Year 2022**
Cross Road Landfill
Exeter, New Hampshire
Groundwater Management Permit No. GWP-198401081-E-005

Dear Permit Coordinator:

On behalf of the Town of Exeter (Town), GZA GeoEnvironmental, Inc. (GZA) is pleased to provide the New Hampshire Department of Environmental Services (NHDES) this report summarizing water quality monitoring at the Cross Road Landfill (i.e., Landfill, Site) in Exeter, New Hampshire during calendar year 2022. This report has been submitted to fulfill the requirement of an Annual Summary Report (ASR) for the Landfill for calendar year 2022, as required by Condition No. 7 of the Groundwater Management Permit (Permit; GWP-198401081-E-005) issued on February 26, 2019, and revised July 9, 2021.

This report includes GZA's conclusions and recommendations regarding the Landfill water quality monitoring completed in accordance with the Permit and includes the analytical laboratory reports from the November 2022 sampling round. The analytical laboratory reports from the April 2022 sampling were submitted to NHDES in GZA's data transmittal[1] dated May 9, 2022. GZA's work and this report are subject to the attached **Limitations**.

The following are attached:

- **Table 1** – summarizing the results of analytical laboratory analyses[2] and field screening measurements associated with the Landfill from May 1992through November 2022;
- **Table 2** – summarizing recent and historical surface water and groundwater level elevation data;
- **Table 3** – summarizing per- and polyfluoroalkyl substances (PFAS) concentration data associated with groundwater samples collected during April and November 2018, November 2020, and November 2022;

[1] *April 2021 Data Transmittal, Cross Road Landfill, Exeter, New Hampshire,* prepared by GZA dated May 19, 2022.

[2] Excluding polyfluoroalkyl substances data.

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- **Plots 1A through 6C** – illustrating Landfill indicator water quality parameter concentration trends;
- **Figure 1 –** depicting Landfill and vicinity features, including water quality and level monitoring locations;
- **Figure 2 –** summarizing selected recent Landfill water quality data and depicting GZA's estimated groundwater hydraulic head contours and inferred directions of groundwater flow proximate to the Landfill; and
- **Figure 3 – depicting an overburden hydrogeologic cross-section from the Landfill to the Exeter River.**

The following sections summarize recent work performed, results, water quality trends, and GZA's conclusions and recommendations.

WORK PERFORMED

PERMIT-RELATED LANDFILL WATER QUALITY MONITORING

In accordance with Condition No. 7 of the Permit, water quality monitoring during the reporting period included sampling in April and November 2022 at the following sampling locations depicted on **Figure 1**:

- Thirteen groundwater monitoring wells (RFW-2, RFW-3, RFW-4, GMW-11RR, GZ-1L, GZ-2L, GZ-3L, GZ-104, GZ- 105, GZ-106, GZ-107, GZ-201 and GZ-202A);
- Two piezometers (P-2R [a.k.a., SW-P-2, P-2, and south spring], and P-9R [a.k.a., SW-P-9, P-9, and north spring]); and
- Four surface water sampling locations (SW-13, SW-15, SW-16, and SW-17 [groundwater seep located proximate to the Exeter River]).

At various times water quality monitoring has included volatile organic compounds (VOCs), arsenic, barium, cadmium, chloride, chromium, iron, lead, mercury, manganese, nitrate, total kjeldahl nitrogen (TKN), selenium, silver, and thallium. Sampling frequencies for individual water quality parameters and locations have been modified over time based on monitoring results.

As required by the Permit, current water quality monitoring includes sample collection and analyses for specific conductance, pH, chloride, nitrate, TKN, iron, manganese, arsenic, and 1,4-Dioxane biannually during April and November. Per the Permit, VOC and drinking water metals sampling and analysis were also required at certain locations during the 2019 and 2022 rounds, and sampling and analysis for PFAS was required at certain locations during the November 2020 and 2022 sampling rounds.

With the exception of wells GZ-1L, GZ-2L, and GZ-3L, each of the Permit-related Landfill groundwater quality monitoring wells and piezometers are screened within overburden. Consistent with the Permit and standard NHDES requirements, overburden groundwater and groundwater seep samples collected for analytical laboratory analysis of metals concentrations are field-filtered, and the data represent dissolved concentrations. Surface water and bedrock groundwater samples collected for analytical laboratory analysis of metal concentrations are not field-filtered, and the data represent total concentrations for the respective metals.

To further assess the water quality in the vicinity of the Landfill, supplemental samples (*i.e.*, samples not required under the Permit monitoring program) were collected during the November 2022 sampling event from surface water locations SW-10 (representative of water quality in the Exeter River upgradient of the Site), SW-11 (representative of surface water quality in the Exeter River roughly midway along the downgradient GMZ boundary), and SW-14 (representative of the discharge from groundwater springs/seeps to the Exeter River). Samples were also collected from the Exeter River directly upstream of the seep. Field screening of groundwater and surface water samples was also completed for dissolved oxygen (DO) and oxidation-reduction potential (ORP) at each of the locations sampled during November 2022.

Civil & Environmental Consultants, Inc. (CEC) performed the sample collection and field screening on behalf of the Town. Water quality samples were submitted by CEC to Eastern Analytical, Inc. (EAI) of Concord, New Hampshire, for analytical laboratory analyses. GZA provides environmental consulting support to the Town and was provided with copies of CEC's field screening and EAI's laboratory reports for summary and evaluation of the data.

REVISED CONCEPTUAL SITE MODEL

The following describes GZA's Conceptual Site Model (CSM) for the Landfill. The CSM provides a summary of our understanding of Site hydrogeology and contaminant distribution and transport and is described in the following subsections.

The Cross Road Landfill and Stump Dump is comprised of an approximately 10-acre lined municipal Landfill. The facility stopped receiving material and was capped during 1994. Since its closure, water quality and Landfill gas have been monitored under various state permits described herein.

HYDROGEOLOGY

Geology

Based on the results of subsurface explorations at and within the vicinity of the Landfill[3] and published information, the geology beneath the Landfill includes a sequence of glacially derived sediments overlying a fractured metasedimentary bedrock. A hydrostratigraphic cross-section through the Landfill and the area east of the Landfill is depicted on **Figure 3**. Overburden geology includes up to 99 feet (RFW-3) of glacial outwash sand and gravel overlying a thin (about 4 feet thick) discontinuous layer of glacial till. The thickness of the sand and gravel deposit beneath the Landfill area varies, in part, due to historical sand and gravel mining. Up to 11 feet of silt and clay were encountered in certain borings drilled along the western side of the Landfill. The silt and clay unit may be associated with glaciolacustrine deposits identified to the west of the Site underlying the Jones Swamp or may be the result of temporary ice damming on the surface of the glacial outwash sand and gravel during deglaciation.

Overburden borings drilled along the eastern side of the Landfill and further east of the Landfill encountered between 10 feet to 31 feet of primarily fine sand glacial outwash deposits. A fine sand, silt, and clay deposit interbedded with sand and gravel layers were encountered at a depth of 31 feet below ground surface (bgs) within one boring that was drilled to a total depth of 57 feet bgs at a location east of the Landfill (GZ-107). Sand and gravel deposits were also encountered within the generally fine sand outwash deposits encountered to the east of the Landfill.

Bedrock cored beneath the Site includes metasedimentary rock consisting of a generally fresh and slightly fractured fine-grained gray to purple-gray phyllite. Weston described bedrock cores drilled from borings RFW-1 and RFW-4 as gray, fine-grained schist belonging to the Eliot Formation. Based on review of the USGS map titled "Bedrock Geologic Map of New Hampshire," dated 1997, both of the rock types cored beneath the Site are consistent with the description provided for the Eliot Formation. The bedrock surface encountered in the borings generally slopes downward from a high of about elevation 82 feet (GZ-2L) to the north (about elevation 47 feet [RWF-4]) and east (about elevation 35 feet [RFW-1]). South of boring GZ-2L, the bedrock surface slopes downward to the south, as suggested by the elevation of the bedrock surface encountered in boring GZ-3L (about 69 feet). East of RFW-1, the bedrock surface appears to slope upward, as suggested by the elevation of the bedrock surface encountered in boring GZ-1L (about 44 feet) and bedrock outcrops observed in the area of SW-17.

[3] *Supplemental Hydrogeologic Investigation, 2002 Annual Water Quality Monitoring, Cross Road Landfill,* prepare by GZA dated May 2002.

Based on review of the USGS map titled "Lineament Map of Area 1 of the New Hampshire Bedrock Aquifer Assessment, Southeastern New Hampshire," dated 1997, a lineament, identified using 1:250,000-scale side- looking airborne radar imagery, transects the Site as shown on **Figure 1**. If this lineament is indicative of the presence of an interconnected set of fractures in bedrock (i.e., a potential fracture zone) located beneath the Site, it may represent a preferential pathway for groundwater flow. Notwithstanding, the presence of a bedrock fracture zone at this location has not been confirmed, and the shallow bedrock cored within boring GZ-1L was not highly fractured. No other lineaments were identified crossing or adjacent to the Site.

Groundwater Flow

Groundwater within the outwash sands underlying the Site is estimated to flow radially away from the Landfill. The estimated horizontal component of the direction of groundwater flow ranges from north-northeast beneath the central and eastern portions of the Landfill to northwest beneath the northwestern portion of the Landfill near the Jones Swamp. Groundwater surface elevation contours, developed based on water level measurements made during November 2022 by CEC, are summarized on **Figure 2**. Historical depth-to water and water surface elevation data collected by GZA and others are summarized in **Table 2**. Historical water quality data are generally consistent with the estimated radial flow pattern and indicate contaminant transport in overburden toward the north with transport locally northwest and northeast.

Based on the November 2022 data, the calculated estimate of the average horizontal component of the overburden hydraulic gradient beneath the Site is approximately 0.01 and varies from approximately 0.014 (beneath the northeast portion of Site) to 0.005 (beneath the central portion of Site).

As discussed in GZA's May 2002 Supplemental Hydrogeologic Investigation Report, recharge from the sedimentation ponds located along the southern Site boundary may cause a local reversal in the direction of shallow overburden groundwater flow south of the Landfill. The extent of this effect has not been evaluated but would likely have a limited effect on the overall direction of groundwater flow due to the relatively high hydraulic conductivity of the sand and gravel unit underlying the ponds.

Upward vertical components of hydraulic head gradient beneath the Landfill have been historically measured between the bedrock and overburden. This upward vertical gradient suggests groundwater discharge from bedrock to overburden may occur. The measured difference in hydraulic head between overburden and bedrock at the GZ-1 and GZ-3 locations on July 23, 2001, and August 9, 2001, was 2.0 feet (GZ-1) and greater than 4.6 feet and 0.1 feet (GZ-3), respectively.

Historical estimates of hydraulic conductivity for the sand and gravel unit based on slug testing range from 4.7×10^{-3} centimeter per second (cm/sec) to 7.0×10^{-3} cm/sec. Based on an average estimated hydraulic conductivity of 5.5×10^{-3} cm/sec, an average hydraulic gradient of about 0.01, and an assumed effective porosity of 0.30, the estimated average seepage velocity for the sand and gravel unit beneath the Landfill is approximately 0.6 feet per day. Based on an average estimated hydraulic conductivity of 5.5×10^{-3} cm/sec, and average hydraulic gradient from the eastern side of the Landfill to the seep located east of the Landfill of about 0.024, and an assumed effective porosity of 0.30, the estimated average seepage velocity for the sand and gravel unit beneath the Landfill is approximately 1.2 feet per day.

Based on historical constant head pumping tests of bedrock well GZ-3L, an effective hydraulic conductivity of about 2.2×10^{-4} cm/sec is estimated for the upper 20 feet of the bedrock at this location. This value provides a measure of how rapidly groundwater can flow to the well under pumping conditions relative to flow in a porous media. Due to the nature of groundwater flow through fractured rock, this value, which assumes porous media flow, should not be used to calculate estimates of seepage velocities for fractured bedrock.

Based on this understanding of the horizontal and vertical direction of groundwater flow beneath the Site, the areas located to the southwest, south, and southeast of the Landfill that are currently not supplied with municipal water are considered upgradient of the Landfill. The effects of bedrock groundwater extraction could alter the direction of groundwater flow in bedrock beneath the Site. Similarly, the presence of interconnected bedrock fractures or fracture zones may create preferential pathways for groundwater flow and Landfill contaminant transport. As indicated above, the presence of significant zones of interconnected fractures or fracture zones has not been identified beneath the Site.

CONTAMINANT DISTRIBUTION/TRANSPORT

Routine water quality monitoring has been on-going at the Landfill since May 1992, and Landfill post-closure water quality monitoring has been on-going in accordance with a Permit since November 1996. The term contaminant, as used herein, refers to dissolved-phase VOCs, metals, and inorganic parameters with a Landfill source. Contaminant concentration trends are described in the water quality trend evaluation section of this report.

In general, the results of historical and recent Landfill groundwater quality and elevation data indicate contaminants are transported in overburden toward the north with transport locally toward the northwest and northeast, discharging to the Exeter River. Therefore, sampling locations RFW-3, RFW-4, and SW-P-9 are downgradient of the Landfill; RFW- 2 is located hydraulically side gradient of the Landfill, and GZ-3L (bedrock) is assumed to be upgradient of the Landfill. Certain wells installed to the northeast of the Landfill are also estimated to be downgradient of the Landfill (GZ-101, GZ-102, GZ-103, GZ-104, GZ-106, and GZ-201).

Supplemental hydrogeologic investigations to the east of the Landfill and descriptions of the work performed are included in GZA's October 16, 2009, and January 18, 2013 reports.[4] These off-Site investigations focused on evaluating the source of Landfill-related groundwater contaminants discharged through a seep located proximate to the Exeter River and concluded that while other sources may be possible, the most likely source is the Landfill.

The areas located north and east of the Landfill are zoned for residential purposes and are supplied with municipal water. While GZA found evidence of residential bedrock groundwater supply wells within the study area, the residences were reportedly connected to the municipal water supply, and wells were reportedly not used as drinking water sources. Three of these wells were sampled and analyzed for Landfill-related contaminants during 2013; however, the results of the analyses did not indicate that the groundwater intersected by the open borehole portion of the wells had been impacted by the Landfill.

To evaluate off-Site impacts, shallow overburden groundwater monitoring wells GZ-101 through GZ-107 were installed during 2009. Based on the results of the shallow overburden well sampling, potential Landfill-related impacts to overburden groundwater quality were identified in the vicinity of the groundwater seep (GZ-102 and GZ-104). The general direction of groundwater flow and limited surficial geophysical (electrical conductivity methods) evidence suggested a Landfill source. Monitoring wells were subsequently installed along Juniper Ridge Road (GZ-201) and immediately east of the Landfill (GZ-202 and GZ-202A) to further evaluate the source of the Landfill-related contaminants in groundwater in the vicinity of the seep.

To assess potential effects of arsenic, iron, and manganese from groundwater seepage discharging in the area of SW-14, GZA installed a temporary weir on May 25, 2017, in an approximately 2-foot-wide stream channel downgradient of the groundwater seepage in the area of SW-14 (refer to **Figure 1**). Streamflow measurements and water quality samples were collected by GZA personnel on an approximately monthly frequency between

[4] Reports by GZA titled "*Calendar Year 2007/2008 Annual Report, Cross Road Landfill, Exeter, New Hampshire, Groundwater Management Permit No. GWP-198401081-E-003*," and "*Annual Summary Report Calendar Year 2012, Application for Groundwater Management Permit Renewal, Cross Road Landfill, Exeter, New Hampshire, Groundwater Management Permit No. GWP- 198401081- E- 003*," dated October 16, 2009, and January 18, 2013, respectively.

June and December 2017. Dissolved and total iron, arsenic, and manganese were detected above the analytical laboratory reporting limits in the majority of the samples. GZA personnel also gauged and sampled the Exeter River and groundwater seep during the spring and late summer of 2019. Samples collected from upstream and downstream of the seep in the Exeter River exceeded the WQTS for arsenic, iron, and manganese. The results of the sampling and gauging activities during 2019 are included in GZA's 2019 ASR[5] . April and November 2022 total arsenic, iron, and manganese concentration data are summarized on **Figure 2** to illustrate the spatial distribution of these Landfill-related contaminants. The data summarized on **Figure 2** are consistent with a Landfill source migrating north-northeastward toward the seep and suggest a background contribution (evidenced by the presence of manganese and iron at concentrations exceeding the NH Groundwater Standards [NH AQGS] in monitoring well GZ-2L, and iron, manganese, and arsenic at concentrations exceeding at upgradient surface water SW-10). The historical presence of 1,4-Dioxane in monitoring wells (GZ- 104, GZ- 202A, and RFW-4) is consistent with a Landfill source. While background and/or other sources may be present for other Landfill contaminants, including metals, chloride, and nitrate, no potential sources of 1,4-Dioxane, other than the Landfill, have been identified.

GZA anticipates that the presence of the groundwater seep and apparent direction of Landfill-related contaminant transport may be due to variations in hydraulic conductivity within the subsurface between the Landfill and the seep. **Figure 3** illustrates a hydrogeologic cross-section from the Landfill to the seep. The location of the cross- section is illustrated on **Figure 1**.

SUMMARY OF RECENT LANDFILL WATER QUALITY MONITORING RESULTS

Overall calendar year 2022 Permit-related groundwater quality data are consistent with historical Landfill water quality monitoring, indicating that groundwater quality improved or has remained relatively stable following closure of the Landfill during 1994. Recent and historical monitoring indicates limited exceedances of New Hampshire Ambient Groundwater Quality Standard[6] (NH AGQS) and/or Secondary Maximum Concentration Limits (SMCLs),[7] primarily for certain parameters typical of Landfill-related water quality (i.e., arsenic, iron, and manganese). The NH AGQS for Arsenic was revised on July 1, 2021,, to 5 µg/L.

Historical Landfill-related groundwater contaminants routinely detected in groundwater sampled from monitoring locations located downgradient of the Landfill include arsenic, barium, chloride, iron, manganese, 1,4-Dioxane, and PFAS. It is GZA's opinion, based on the date of closure of the Landfill, and distribution and concentrations of 1,4-Dioxane and PFAS, that the presence of these contaminants is the result of the historical disposal of municipal waste and does not indicate a recent release of 1,4-Dioxane at the Landfill.

Certain other metals, inorganic parameters, and VOCs have been intermittently detected in groundwater sampled from monitoring points located downgradient of the Landfill, including cadmium, chromium, lead, mercury, selenium, and silver. Significantly, only arsenic, iron, manganese, and 1,4-Dioxane are routinely detected in Landfill groundwater samples at concentrations exceeding established water quality standards NH AGQS [arsenic, manganese, and 1,4- Dioxane] and SMCLs [iron]). Detected concentrations of the other water quality parameters have infrequently exceeded NH AGQS, SMCLs, or surface water quality criteria. The following table summarizes post-closure (*i.e.*, since September 1994) exceedances of applicable water quality standards for Landfill-related contaminants other than arsenic, manganese, iron, VOCs (including 1,4-Dioxane), and PFAS.

[5] *Annual Summary Report Calendar Year 2019, Cross Road Landfill, Exeter, New Hampshire,* Prepared by GZA, dated January 31, 2020.

[6] As defined in State of New Hampshire Code of Administrative Rules Env-Or 603.04 (Ambient Groundwater Quality Standards), Table 600-1.

[7] SMCLs are aesthetic-based secondary maximum contaminant-level water quality standards used to regulate public water systems (Env-Dw 706 [Regulated Secondary Maximum Contaminant Levels]).

PARAMETER	LOCATION	CONCENTRATION (mg/L)	SAMPLING DATE	WATER QUALITY STANDARDS (mg/L)
Cadmium	SW-P-2/P-2R	0.007	4/99	NH AGQS – 0.005 WQCTS – 0.00095
		0.0078	4/01	
	SW-1	0.0022	4/01	
		0.005	4/02	
	RFW-2	0.01	4/03	
	SW-13	0.010	11/10	
	GZ-1U	0.006	4/12	
Chromium	SW-1	0.26	4/06	NH AGQS – 0.10 WQCTS – NE
	SW-P-2/P-2R	0.11	11/22	
Lead	SW-P-2/P-2R	0.18	4/97	NH AGQS – 0.015 WQCTS – NE
		0.041	11/15	
		0.028	11/17	
		0.048	11/22	
	RFW-2	0.053	7/96	
	RFW-3	18	4/98	
	SW-1	0.36	4/06	
	SW-13	0.058	11/10	
Barium	SW-1	1.9	11/01	WQCTS – 1
		2.3	4/06	
Chloride	RFW-1	420	7/00	SMCL – 250 NH AGQS – NE
	GZ-6	460	7/01	
Nitrate	RFW-4	19	11/96	AGQS – 10
Selenium	RFW-3	0.06	11/03	NH AGQS – 0.05 WQCTS – 0.170
	GZ-1U	0.0711	8/01	
	GZ-1L	0.082	8/01	
	GZ-2L	0.101	8/01	
	SW-1	0.13	4/06	
Mercury	SW-5	0.0012	7/96	WQCTS – 0.00005

Notes:

1. WQCTS indicates surface water quality criteria, protection of human health, water and fish ingestion standard shown.[8]
2. mg/L indicates milligrams per liter.
3. NE indicates not established.

The results of the year 2022 Permit-related groundwater quality monitoring indicate exceedances of NH AGQS for arsenic (RFW-4, GZ-104, GZ-202A, P-2R, and P-9R) and for manganese (RFW-2, RFW-4, GZ-104, GZ-201, GZ-202A, P-2R, and P-9R) in water quality samples collected during one or more of the sampling rounds. Detected concentrations of iron exceeded the SMCL during one or more of the 2022 sampling events in monitoring wells RFW-3, RFW-4, GZ-3L, GZ- 104, GZ-202A, P-2R, P-9R, SW-13, SW-16, and SW-17.

The results of surface water concentrations indicate exceedances of the WQCTS for Fish and Water Ingestion standard for both arsenic and manganese (SW-10, SW-11, SW-13, SW-14, SW-15, SW-16, and SW-17) in water quality samples collected during one or more of the sampling rounds.

[8] As defined in New Hampshire Code of Administrative Rules Env-Ws 1703.21 (Water Quality Criteria for Toxic Substances, Protection of Human Health). Refer to **Table 1** for further information.

PH FIELD MEASUREMENTS

Field screening measurements of groundwater samples for pH collected from Landfill-related groundwater monitoring wells during 2022 ranged from 4.51 standard units (S.U.) (GMW-11RR; November) to 12.19 S.U. (GZ- 2L; November). However, these two measurements are outside of the range of most of the measurements of pH, which range from approximately 6 S.U. and 7 S.U. Measurements of pH during the subject period from samples collected on-Site are generally consistent with previous measurements from respective locations. No spatial or temporal trends were identified in the pH data. However, the measurement of pH for the samples collected from GMW-11RR during April and November are lower than the previous measurements (6.09 S.U. and 4.51 S.U. [**Table 1**])

Consistent with most measurements made since April 2017, the field measurement of pH for the groundwater sample collected in November 2022 from monitoring well GZ-2L is elevated, compared to the measured range of pH for the location prior to April 2017. The reason for the elevated pH has not been determined.

SPECIFIC CONDUCTANCE FIELD MEASUREMENTS

Field screening measurements of groundwater samples for specific conductance collected from monitoring wells located at the Site range from 194 micro siemens per centimeter (µS/cm) (GZ-11RR; April) to 3,521 µS/cm (GZ-2L; April). The arithmetic average of the measurements of specific conductance measured in samples collected from on-Site groundwater monitoring wells during 2022 is 774 µS/cm. Measurements of specific conductance during the subject period are generally consistent with previous measurements from respective locations. No spatial or temporal trends were identified in the specific conductance data.

ORP FIELD MEASUREMENTS

Field measurements of ORP in samples collected from overburden and bedrock monitoring wells during November 2022 ranged between -135 mV (millivolts) (GZ-2L; November) to +254 mV (GZ-1L; November). The arithmetic average of the ORP measurements of samples from overburden wells made during November is +60 mV. Additional monitoring is needed to characterize and evaluate seasonal variations in ORP and DO. The ORP measurements generally support a Landfill impact (lowering) on ORP, with ORP measurements in downgradient areas with anticipated Landfill impacts such as RFW-2 (+56.9 mV), RFW-4 (-6.9 mV), GZ-104 (+9.4 mV), GZ-202A (-14.0 mV), and groundwater seeps SW-P-2 (-22.8 Mv) and SW-P-9 (-111.7 Mv), lower than upgradient and less impacted downgradient areas.

In general, ORP values of +50 mV and lower are indicative of reducing conditions which could result in the mobilization of certain metals. Arsenic, iron, and manganese are most likely to be mobilized within an ORP range of 0 mV to -150 mV; however, ORP measurements alone cannot predict the mobilization of these metals.

DO FIELD MEASUREMENTS

Field measurements of DO concentration in samples collected from overburden and bedrock monitoring wells during 2022 ranged between 1.93 mg/L (RFW-4; November) to 9.41[9] mg/L (GZ-106; November). Collectively, the field measurements of DO concentration indicate generally aerobic chemically oxidizing groundwater conditions, with no apparent seasonal variation. The DO concentration data also do not appear to be correlated with the distribution of Landfill contaminants.

[9] Measurements of DO concentration at GZ-2L during 2022 were significantly elevated (12.21 [April], and 16.05 [November]) and assumed to be erroneous. They were excluded from data interpretation.

With the limited Landfill impacts on DO concentrations and general lack of consistency in ORP, measurement data suggest the DO measurements may not be representative of groundwater conditions. DO concentrations measured in the field can be unreliable and misrepresent subsurface conditions. The sample collection method may elevate the measured concentration of DO.

DO measurements of surface water range between 3.32 mg/L and 11.11 mg/L.

1,4-DIOXANE

Samples were collected by CEC for laboratory analysis of 1,4-Dioxane from each of the locations included in the April and November 2022 sampling rounds.

1,4-Dioxane has been previously detected in water quality samples collected from monitoring wells and surface water sampling locations, including RFW-2, RFW-3, RFW-4, SW-P2 (P-2R), SW-P-9 (P-9R), GZ-P-5R, GZ-102, GZ- 104, GZ-106, GZ-202A, GZ-1L, SW-14, SW-15, SW-16, and SW-17 at concentrations up to 6 µg/L. 1,4-Dioxane was detected in water quality samples collected during 2022 sampling round from P-2R, P-9R, RFW-3, RFW-4, GZ- 104, GZ-106, GZ-202A, SW-16, and SW-17 at concentrations ranging between 0.33 µg/L (SW-17; November) to 2.6 µg/L (GZ-106; November). Monitoring locations included in the Permit collected during 2022 with detected concentrations of 1,4-Dioxane exceeding the NH AGQS of 0.32 µg/L during one or more sampling round include:

- wells RFW-3, RFW-4, GZ-104, GZ-106, and GZ-202A;
- piezometers P-2R, and P-9R; and
- surface water sampling locations SW-16 and SW-17.

PFAS

Monitoring wells RFW-3, RFW-4, and GZ-202A were sampled and analyzed for the presence of nine PFAS during the November 2022 sampling round. Analysis of groundwater samples for the presence of PFAS was subcontracted by EAI to Vista Analytical Laboratory of El Dorado Hills, California, for PFAS analysis using EPA method 537 with a list of nine PFAS using Isotope Dilution and LC-MS/MS compliant with Table B-15 of DoD QSM 5.3. The laboratory report provided by EAI is included in **Appendix B**.

The results of the laboratory analyses results indicate the presence of eight PFAS at concentrations above the laboratory reporting limit. Perfluorooctane Sulfonate (PFOS) was detected in the sample collected from RFW-3 at a concentration of 59.4 nanograms per liter (ng/L), exceeding its NHDES AGQS of 15 ng/L. This is the first PFAS exceedance on-Site since sampling was initiated in 2018.

Results of laboratory analyses for PFAS are further summarized in **Table 3**.

GROUNDWATER SEEP AND EXETER RIVER SURFACE WATER MONITORING

Based on the results of the metals loading analysis described in GZA's 2021 ASR, GZA recommended continued sampling and analysis for selected metals in surface water within the Exeter River upstream and downstream of the confluence of the flow of surface water from the area of groundwater seeps, as well as from the flow of surface water downstream of the seep areas at the former weir location (SW-14). The purpose of the recommended surface water sampling is to monitor the potential effects of the contribution of Landfill-related metals on water quality within the Exeter River.

The results of the analysis of the samples collected during November 2022 are summarized in the table below, along with the results of the analysis of samples collected during April and November 2020 and November 2021.

Sample Location	Date	Dissolved Iron (µg/L)	Total Iron (µg/L)	Dissolved Manganese (µg/L)	Total Manganese (µg/L)	Dissolved Arsenic (µg/L)	Total Arsenic (µg/L)
WQTS**		300		50		0.018	
Upstream	4/16/2020	140	270	33	46	<1	<1
	11/5/2020	100	**800**	**76**	**410**	<1	**2.1**
	11/10/2021	<50	**120,000**	**140**	**57,000**	**1.2**	**260**
	11/3/2022	180	260	**160**	**150**	**0.90**	**0.88**
Former Weir (SW-14)	4/16/2020	<50	160	**370**	**1,300**	<1	<1
	11/5/2020	66	120	**1,500**	**1,500**	**1.3**	**1.7**
	11/10/2021	**310**	**770**	**50**	**100**	**1.3**	**1.3**
	11/3/2022	<50	<50	**65**	**84**	**0.54**	**0.50**
Downstream (SW-15)	4/16/2020	**320**	**1,300**	**1,800**	**2,100**	**5.1**	**9.6**
	11/5/2020	75	130	**1,500**	**1,600**	**1.3**	**1.7**
	11/10/2021	**390**	53	**1,800**	**1,800**	**5.4**	**1.7**
	11/3/2022	160	250	**170**	**170**	**0.80**	**0.90**

** Water & fish ingestion criteria for the protection of human health (Env-Ws 1703.21, Table 1703.1).

Detected concentrations of manganese and arsenic exceed their respective WQTS (protection of human health) for the samples collected at each of the three sampling locations for the November 2022 sampling round.

Previously reported mass transport rates from the 2017 investigation[10] associated with the discharge from the area of seeps east of the Landfill to the river and downstream mass transport rates were compared to the 2022 metals concentrations to further evaluate the transport of metals to the river. Stream flow data was obtained from the United States Geological Survey's (USGS) National Water Information System. Data from a nearby station[11] on the Exeter River (located approximately 3 miles upstream) was used as a conservative (i.e., low) indicator of the flow in the Exeter River at the confluence with the flow from the area of seeps east of the Landfill. Average seasonal flow rates for the seep based on the 2017 and 2019 investigations were used along with the November 2022 metals concentration data and recent stream flow data for the Exeter River to estimate the metals loading to the river.

Comparison of the mass transport rates associated with the discharge from the seep to the river and downstream mass transport rates calculated using total metals data indicate that the total iron, arsenic, and manganese discharged at the seep accounts for 0.06 percent (%), 0.4%, and 0.3% of the total mass of iron, manganese, and arsenic transported in the river downstream of the seep, respectively. The flow in the river, when estimated for 2022 was 150 to 200 times the previously estimated flow rate of the groundwater seep at SW-14. Previous results of the flow monitoring are summarized in GZA's 2019 ASR.[12]

[10] Letter Report "Evaluation of Discharge to Exeter River, Cross Road Landfill, Exeter, New Hampshire", Prepared by GZA, dated January 31, 2018

[11] USGS 01073587 EXETER RIVER AT HAIGH ROAD, NEAR BRENTWOOD, NH

[12] *"Annual Summary Report Calendar Year 2019, Cross Road Landfill, Exeter, New Hampshire"*, Prepared by GZA, dated January 31, 2020.

Concentrations of metals collected from SW-14 are lower than the upstream and downstream data for the majority of sampling rounds. Upstream and downstream concentrations are similar, with no measurable increase from the contribution of the area of groundwater seeps. The recent evaluations of the transport of iron, manganese, and arsenic to the river from the area of seeps supports GZA's previous conclusion that the effects of the transport on the concentrations of these metals within the Exeter River is de minimis. Metals concentrations of the seep will continue to be monitored to confirm the current conclusions regarding the effects of the area of seeps on surface water quality within the Exeter River.

During November 2022, additional water quality samples were collected at surface water locations SW-10 and SW-11 to further evaluate the potential effects of the contribution of Landfill-related metals compared to upgradient water quality in the Exeter River. SW-10 is located to the northwest of the Landfill at a point further up the Exeter River outside the anticipated influence of Landfill-related metals loading. SW-11 is located to the north of the Site at the Pickpocket Dam adjacent to Cross Road. Concentrations of total iron, manganese, and arsenic were above their respective WQTCS or SMCL in samples collected at SW-10 and SW-11 during the November 2022 sampling round.

Concentrations of total and dissolved arsenic and manganese detected in the sample collected at surface water SW-10 were lower compared to downstream locations SW-11 and SW-15. However, both total and dissolved iron concentrations at SW-10 were higher or equal to downstream concentrations during the time of sample collection. Total arsenic and manganese concentrations increased 0.240 µg/L and 60 µg/L in the downstream (SW-15) sample, respectively, while the total iron concentration decreased 90 µg/L. Additional monitoring is needed to evaluate the effects of the Landfill on the concentrations of these metals in the Exeter River.

WATER QUALITY TREND EVALUATION

Time series plots of arsenic, iron, manganese, chloride and 1,4-Dioxane concentrations were prepared using data from selected water quality monitoring locations for graphical evaluation. Copies of these plots are attached and generally described below. Where concentrations are reported as less than the laboratory reporting limits (RL), one-half of the RL was used in the plots.

Based on our review of the concentration data plots, the general concentration trends for these Landfill parameters are interpreted by GZA to be stable to decreasing while exhibiting fluctuations in concentration potentially related to seasonal changes in the rate of infiltration. However, the concentration trends for monitoring location SW-17 appear to indicate fluctuating metals concentrations over time, with observed highs during November 2019 and 2021 and a recent decrease during 2022. This surface water/groundwater seep monitoring location is located along the anticipated contaminant transport pathway from the Landfill within the groundwater seep east-northeast of the Landfill.

1,4-Dioxane concentrations within on-Site overburden monitoring wells exhibit a potential increase since 2017, but generally decreasing since 2019. Surface water samples collected appear to fluctuate, potentially related to seasonal variation and flow in the Exeter River.

To better understand trends at the Site Mann Kendall statistical analysis of selected recent Landfill water quality data[13] were completed for the concentration data for certain monitoring locations to identify trends in water quality with a confidence level of 95 percent (**Appendix D**). The results are summarized in the table below.

[13] Based on data from the previous 10 years, or where available.

Contaminant	Arsenic	Iron	Manganese	1,4-Dioxane
Monitoring Location	Trend			
RFW-3	Decreasing	No Trend	Decreasing	No Trend
RFW-4	Decreasing	No Trend	No Trend	Decreasing
GZ-104	No Trend	No Trend	Decreasing	No Trend
GZ-202A	Decreasing	No Trend	No Trend	Decreasing
P-9R	No Trend	No Trend	Increasing	Decreasing
SW-17	No Trend	No Trend	No Trend	Decreasing

Based on the table above, the selected Landfill water quality at monitoring well locations included generally indicate a decreasing trend or no trend. The only increasing trend identified is associated with the manganese concentration data for samples collected from the northern spring P-9R monitoring location. However, the concentration of manganese detected at this location in the sample collected during November 2022 (2.8 mg/L) is within the historical range of manganese concentrations detected in samples from this monitoring location. This location is along one of the suspected preferential preferred pathways away from the Landfill. Variations at locations with no trend identified are interpreted by GZA as consistent with variations due to seasonal variations in local infiltration and groundwater flow/level. The cause of the recent increasing trend in manganese concentrations related to P-9R is not known and will be evaluated as additional data are collected.

CONCLUSIONS/DISCUSSION

The following summarizes our primary conclusions regarding the Permit-related and supplemental Landfill water quality monitoring performed in 2022.

- Data for the current reporting period are generally consistent with the historical concentration ranges and temporal trends for the water quality parameters and locations monitored in accordance with the Permit.
- Consistent with the results of the historical water quality monitoring for the Landfill, water quality data collected during the 2022 monitoring rounds indicate that arsenic, manganese, and 1,4-Dioxane are present in groundwater at certain monitoring locations downgradient of the Landfill at concentrations exceeding their respective NH AGQS. These downgradient locations are within the GMZ established for the Landfill, and the concentrations are consistent with the presence of a municipal solid waste Landfill at the Site. The remainder of the potential Landfill-related contaminants (i.e., chloride, iron, nitrate, TKN, and PFAS) included in the monitoring program were detected in one or more of the water quality samples collected during the reporting period at concentrations below the applicable NH AGQS.

- Results of the November 2022 sampling of surface water for Landfill-related metals (iron, manganese, and arsenic) from the Exeter River and the area of seeps located downgradient of the Landfill are generally consistent with the results of previous sampling. Collectively, the surface water quality data suggest that the Landfill has a limited effect on metals concentrations within the Exeter River, with concentrations of metals in water discharged from the area of groundwater seeps east of the Landfill lower or equal to the concentrations in the River[14]. Additional monitoring is needed to evaluate the effects of the Landfill on the concentrations of these metals in the Exeter River.
- Calculated groundwater elevations for wells sampled during November 2022 are consistent with historical data indicating radial groundwater flow from the Landfill toward the northwest, north, northeast, and east of the Landfill within the shallow overburden outwash deposits underlying the area.
- Based on the results of the graphical and statistical (i.e., Mann Kendall statistic) analysis completed by GZA, Landfill water quality indicator parameters concentration trends are interpreted as stable to decreasing. The only potentially increasing trend identified based on the Mann Kendall statistic is associated with the manganese concentration data for samples collected from the northern spring P-9R monitoring location. However, the concentration of manganese detected at this location in the sample collected during November 2022 (2.8 mg/L) is within the historical range of manganese concentrations detected in samples from this monitoring location. Variations at locations with no trend identified are interpreted by GZA as consistent with variations due to seasonal variations in local infiltration and groundwater flow/level. The cause of the recent potential increasing trend in manganese concentrations related to P-9R is not known and will be evaluated as additional data are collected.

RECOMMENDATIONS

Based on the results of the monitoring performed during 2022 and our understanding of Site/Landfill hydrogeology and contaminant conditions, GZA recommends the following:

- Continued field analysis of groundwater samples collected during the April and November 2022 sampling rounds for DO and ORP to provide data for evaluation of the geochemical conditions beneath the Landfill relative to the increase in the mobilization of metals suggested by fluctuating arsenic, iron, and manganese concentration trends in groundwater observed at RFW-3, GZ-104, and P-9R;
- Continued collection of samples for total and dissolved arsenic, manganese, and iron from SW-14, SW-15, directly upstream of the seep, and dissolved metals from SW-17 to continue to monitor potential effects of the contribution of Landfill-related metals within the discharge from the area of seeps east of the Landfill on water quality within the Exeter River; and
- Continued collection of samples for total and dissolved arsenic, manganese, and iron from Exeter River upstream surface water monitoring location SW-10 to evaluate the overall effect of the Landfill on surface water quality within the Exeter River.

[14] As detected in samples collected upstream and downstream of the discharge from the groundwater seep area and summarized in the table in the "Groundwater Seep and Exeter River Surface Water Monitoring" section of this report.

On behalf of the Town, we greatly appreciate your review of this report and trust the information contained herein and attached meets the needs of the NHDES. Should you have any questions, please contact Mr. Erik Dyrness at (603) 232-8724.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

Erik B. Dyrness
Assistant Project Manager

James M. Wieck, P.G.
Consultant/Reviewer

Jeffrey D. Rowell, P.E.
Principal

EBD/JDR/JMW: jkm
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Attachments: Limitations
Tables
Figures
Plots
November 2022 Analytical Laboratory Data
CEC Summary Letter Report

cc: Mr. Paul Vlasich, P.E., Town Engineer; Town of Exeter
Ms. Trisha Allen, Public Works Business Manager; Town of Exeter

Limitations

USE OF REPORT

1. GZA GeoEnvironmental, Inc. (GZA) prepared this report on behalf of, and for the exclusive use of our Client for the stated purpose(s) and location(s) identified in the Proposal for Services and/or Report. Use of this report, in whole or in part, at other locations, or for other purposes, may lead to inappropriate conclusions; and we do not accept any responsibility for the consequences of such use(s). Further, reliance by any party not expressly identified in the agreement, for any use, without our prior written permission, shall be at that party's sole risk, and without any liability to GZA.

STANDARD OF CARE

2. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).

3. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state or federal agency.

4. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

SUBSURFACE CONDITIONS

5. The generalized soil profile(s) provided in our Report are based on widely-spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs. The nature and extent of variations between these explorations may not become evident until further exploration or construction. If variations or other latent conditions then become evident, it will be necessary to reevaluate the conclusions and recommendations of this report.

6. Water level readings have been made, as described in this Report, in and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this report. Fluctuations in the level of the groundwater however occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

COMPLIANCE WITH CODES AND REGULATIONS

7. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.

SCREENING AND ANALYTICAL TESTING

8. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment and/or air. Future Site activities and uses may result in a requirement for additional testing.

9. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.

10. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.

INTERPRETATION OF DATA

11. Our opinions are based on available information as described in the Report, and on our professional judgment. Additional observations made over time, and/or space, may not support the opinions provided in the Report.

ADDITIONAL INFORMATION

12. In the event that the Client or others authorized to use this report obtain additional information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

ADDITIONAL SERVICES

13. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/ redevelopment at the Site. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.

CONCEPTUAL SITE MODEL

14. Our opinions were developed, in part, based upon a comparison of site data to conditions anticipated within our Conceptual Site Model (CSM). The CSM is based on available information, and professional judgment. There are rarely sufficient data to develop a unique CSM. Therefore observations over time, and/or space, may vary from those depicted in the CSM provided in this report. In addition, the CSM should be evaluated and refined (as appropriate) whenever significant new information and/or data is obtained.

Tables

TABLE 1
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

Arsenic (mg/L)

NH AGQS = 0.005 mg/L
WQCTS (Water and Fish Ingestion) = 0.000018 mg/L

	Sampling Date	Overburden Monitoring Wells																				Bedrock Monitoring and Residential Wells				Groundwater Seep Monitoring Stations			Surface Water Monitoring Stations												Leachate Monitoring Well
		RFW-1	RFW-2	RFW-3	RFW-4	GZ-1U	GZ-2	GZ-3	GZ-4	GZ-5	GZ-6	GZWP-1	GZ-102	GZ-103	GZ-104	GZ-105	GZ-106	GZ-107	GZ-201	GZ-202A	GMW-11RR	GZ-1L	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/1P-2R Southern Spring)	GZ-P-5R	SW-P-9 (P-9/1P-9R Northern Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	SW-14	SW-15	SW-16	SW-17	Exeter River	MW-6
PRE-CLOSURE	5/27/1992	**0.02**	**0.04**	**0.02**	**0.25**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-		-	-	**0.04**
	11/12/1992	<0.01	<0.01	<0.01	**0.0284**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-		-	-	-
	4/6/1993	**0.001**	**0.17**	**0.025**	**0.16**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.001**	-	-	-	-	-	-		-	-	**0.03**
	7/1/1993	**0.001**	**0.001**	**0.001**	**0.001**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.001**	-	-	-	-	-	-		-	-	-
	11/5/1993	**0.001**	**0.002**	**0.002**	**0.015**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.007**	-	-	-	-	-	-		-	-	**0.048**
	4/14/1994	<0.005	**0.06**	**0.058**	**0.263**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.034**	-	-	-	-	-	-		-	-	-
	7/15/1994	<0.100	<0.100	<0.100	**0.245**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.100	-	-	-	-	-	-		-	-	-
	8/30/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	**0.057**
	9/6/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	**0.002**
	10/11/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	**0.001**
	11/18/1994	**0.001**	**0.059**	**0.038**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.013**	-	-	-	-	-	-		-	-	-
	12/23/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	**0.05**
	2/2/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	**0.005**
	4/12/1995	<0.005	**0.039**	**0.022**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	-		-	-	<0.005
	7/28/1995	<0.005	**0.021**	**0.011**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	-		-	-	**0.018**
	12/8/1995	<0.01	<0.01	**0.042**	**0.22**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.027**	-	-	-	-	-	-		-	-	**0.099**
	4/26/1996	<0.01	<0.01	**0.01**	**0.02**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-		-	-	<0.01
	7/25/1996	<0.005	<0.005	<0.005	**0.21**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.04**	-	-	-	-	-	-		-	-	-
	11/14/1996	-	**0.015**	**0.17**	**0.13**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	**0.017**	<0.005	-	-	-	-	-	-	-		-	-	-
	4/21/1997	-	<0.005	**0.024**	**0.14**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	**0.012**	**0.008**	-	-	-	-	-	-	-		-	-	-
	7/22/1997	<0.005	<0.005	**0.014**	**0.005**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.005**	-	**0.006**	<0.005	-	-	-	-	-	-	-		-	-	-
	11/11/1997	<0.005	**0.011**	**0.04**	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	**0.15**	**0.008**	-	-	-	-	-	-	-		-	-	-
	4/15/1998	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.14**	-		<0.005	-	-	-	-	-	-	-		-	-	-
	7/6/1998	-	<0.005	**0.021**	**0.15**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.75**	-	**4.9**	<0.005	-	-	-	-	-	-	-		-	-	-
	11/16/1998	<0.005	**0.012**	**0.001**	**0.19**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	**0.58**	<0.005	-	-	-	-	-	-	-		-	-	-
	4/19/1999	<0.005	<0.005	**0.037**	**0.15**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	**0.66**	<0.005	-	-	-	-	-	-	-		-	-	-
	7/27/1999	<0.005	<0.005	**0.026**	**0.18**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	**12**	**0.009**	-	-	-	-	-	-	-		-	-	-
	11/18/1999	**0.01**	**0.018**	**0.2**	**0.14**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.12**	-	**5.9**	**1.2**	-	-	-	-	-	-	-		-	-	-
	5/5/2000	<0.005	<0.005	**0.054**	**0.18**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	-	-		-	-	-
	7/7/2000	<0.005	**0.008**	**0.46**	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.009**	-	**0.71**	**0.008**	-	-	-	-	-	-	-		-	-	-
	11/16/2000	<0.01	<0.01	**0.13**	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.023**	-	**0.013**	**0.3**	-	-	-	-	-	-	-		-	-	-
	4/25/2001	<0.01	**0.014**	**0.21**	**0.28**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.91**	-	**0.032**	**0.047**	-	-	-	-	-	-	-		-	-	-
	7/25/2001	<0.005	**0.009**	**0.22**	**0.19**	**0.0124**	-	-	<0.004	**0.0102**	**0.0062**	-	-	-	-	-	-	-	-	-	-	<0.004	<0.004	<0.004	-	**0.015**	-	**27**	**0.03**	-	-	-	-	-	-	-		-	-	-
	8/9/2001	-	-	-	-	<0.004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.008**	**0.006**	<0.004	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
	11/28/2001	<0.01	<0.01	**0.09**	**0.1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	**1.9**	-	-	-	-	-	-	-		-	-	-
	1/17/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.026	-	<0.026	<0.026	<0.026	-	-	-		-	-	-
	4/24/2002	<0.02	<0.02	**0.22**	**0.22**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.02	-	<0.02	<0.02	<0.02	-	-	-		-	-	-
	11/20/2002	<0.05	<0.05	**0.28**	**0.25**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	<0.01	<0.01	<0.01	-	-	-		-	-	-
	4/29/2003	<0.01	<0.01	**0.24**	**0.19**	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	<0.01	<0.01	-	<0.01	-	<0.01	<0.01	-	<0.01	<0.01	<0.01	-	-	-		-	-	-
	11/17/2003	-	**0.014**	**0.22**	**0.18**	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	**0.011**	<0.005	-	-	-	**0.12**	<0.005	-	<0.005	<0.005	<0.005	-	-	-		-	-	-
	4/28/2004	-	**0.01**	**0.20**	**0.22**	<0.005	-	-	-	-	-	**0.01**	-	-	-	-	-	-	-	-	-	<0.005	**0.005**	<0.005	<0.005	<0.005	**0.005**	**0.043**	<0.005	-	-	-	-	-	-	-		-	-	-
	11/15/2004	-	**0.017**	**0.076**	**0.19**	<0.005	-	-	-	-	-	**0.013**	-	-	-	-	-	-	-	-	-	<0.005	**0.008**	<0.005	-	**0.41**	<0.005	**0.063**	<0.005	-	-	-	-	-	-	-		-	-	-
	4/28/2005	-	<0.01	**0.07**	**0.2**	<0.01	-	-	-	-	-	**0.03**	-	-	-	-	-	-	-	-	-	<0.01	<0.01	<0.01	-	**0.12**	<0.01	**0.03**	<0.01	-	<0.01	<0.01	<0.01	-	-	-		-	-	-
	11/8/2005	-	**0.006**	**0.023**	**0.156**	<0.005	-	-	-	-	-	**0.058**	-	-	-	-	-	-	-	-	-	<0.005	**0.013**	<0.005	-	**0.149**	<0.005	**0.017**	**0.008**	-	<0.005	<0.005	<0.005	-	-	-		-	-	-
	4/17/2006	-	<0.005	**0.011**	**0.16**	<0.005	-	-	-	-	-	**0.076**	-	-	-	-	-	-	-	-	-	<0.005	**0.007**	<0.005	-	**0.034**	<0.005	**0.023**	**1.2**	-	<0.01	<0.01	<0.01	-	-	-		-	-	-
	11/20/2006	-	**0.007**	**0.014**	**0.14**	<0.005	-	-	-	-	-	**0.062**	-	-	-	-	-	-	-	-	-	<0.005	**0.01**	<0.005	-	**0.026**	<0.005	**0.042**	<0.005	-	<0.005	<0.005	<0.005	-	-	-		-	-	-
	5/2/2007	-	**0.012**	**0.006**	**0.13**	<0.005	-	-	-	-	-	**0.029**	-	-	-	-	-	-	-	-	-	-	**0.006**	-	-	**0.011**	<0.005	**0.011**	**0.029**	-	<0.005	<0.005	<0.005	-	-	-		-	<0.005	-
	11/14/2007	-	<0.005	**0.006**	**0.13**	<0.005	-	-	-	-	-	**0.032**	-	-	**0.087**	-	-	-	-	-	-	<0.005	<0.005	**0.007**	-	**0.024**	**0.007**	**0.036**	<0.005	-	<0.005	<0.005	<0.005	-	-	-		-	<0.005	-
	4/25/2008	-	**0.007**	**0.007**	**0.17**	<0.005	-	-	-	-	-	**0.040**	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	**0.016**	<0.005	**0.024**	<0.01	-	-	-	<0.01	-	-	-		-	<0.01	-
	11/18/2008	-	**0.005**	**0.009**	**0.16**	**0.006**	-	-	-	-	-	Dry	-	-	**0.008**	-	-	-	-	-	-	**0.005**	<0.005	-	-	Dry	**0.008**	**0.025**	<0.005	-	-	-	**0.010**	-	-	-		-	<0.002	-
	4/27/2009	-	**0.002**	**0.004**	**0.13**	**0.001**	-	-	-	-	-	**0.026**	-	-	-	-	-	-	-	-	-	-	**0.001**	-	-	**0.024**	**0.003**	**0.023**	**0.009**	-	-	-	**0.002**	-	-	-		**0.001**	<0.001	-
	11/4/2009	-	**0.002**	**0.001**	**0.13**	<0.001	-	-	-	-	-	Dry	-	-	**0.009**	-	-	-	-	-	-	**0.002**	**0.003**	<0.001	-	**0.038**	**0.003**	**0.024**	-	-	-	-	**0.001**	-	-	-		**0.056**	<0.001	-
	4/20/2010	-	**0.004**	**0.002**	**0.16**	**0.001**	-	-	-	-	-	-	-	-	<0.001	-	-	-	-	-	-	-	<0.001	-	-	**0.017**	**0.002**	**0.008**	-	-	-	-	**0.007**	-	-	-		**0.009**	<0.001	-
	11/11/2010	-	**0.007**	**0.002**	**0.13**	**0.001**	-	-	-	-	-	-	-	-	**0.003**	-	-	-	-	-	-	**0.003**	**0.001**	**0.002**	-	**0.022**	**0.003**	**0.042**	-	-	-	-	**0.002**	-	-	-		**0.007**	<0.001	-
	4/22/2011	-	**0.005**	**0.002**	**0.12**	**0.001**	-	-	-	-	-	-	-	-	**0.002**	-	-	-	-	-	-	-	<0.001	-	-	**0.014**	**0.002**	**0.032**	-	-	-	-	<0.001	-	-	-		**0.009**	<0.001	-
	11/14/2011	-	**0.003**	**0.003**	**0.11**	**0.001**	-	-	-	-	-	-	-	-	**0.012**	-	-	-	-	-	-	**0.002**	<0.001	**0.002**	-	**0.007**	**0.001**	**0.010**	-	-	-	-	**0.002**	-	-	-		**0.002**	<0.001	-
	4/30/2012	-	**0.003**	**0.012**	**0.13**	**0.002**	-	-	-	-	-	-	-	-	**0.075**	-	-	-	-	-	-	-	<0.001	-	-	**0.030**	**0.003**	**0.024**	-	-	-	-	**0.002**	-	-	-		**0.001**	<0.001	-
	11/5/2012	-	<0.001	**0.002**	**0.12**	<0.001	-	-	-	-	-	-	-	-	**0.020**	-	-	-	<0.001	**0.41**	-	**0.003**	<0.001	-	-	**0.014**	**0.001**	**0.12**	-	-	-	-	**0.021**	-	-	-		**0.018**	<0.001	-
	5/7/2013	-	-	-	-	-	-	-	-	-	-	-	**0.001**	-	**0.14**	-	-	-	**0.001**	**0.49**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
	12/19/2013	-	**0.014**	**0.013**	**0.12**	**0.001**	-	-	-	-	-	-	<0.001	-	**0.13**	-	-	-	**0.004**	**0.28**	-	**0.003**	**0.006**	**0.003**	-	**0.016**	-	**0.048**	-	-	-	-	-	-	-	-	**0.053**	**0.007**	-	-
	4/15/2014	-	**0.019**	**0.010**	**0.14**	<0.001	-	-	-	-	-	-	<0.001	-	**0.031**	-	<0.001	-	**0.002**	**0.31**	-	**0.002**	**0.007**	-	-	-	-	**0.037**	-	-	-	-	-	-	-	-	**0.058**	**0.032**	-	-
	11/3/2014	-	**0.012**	**0.005**	**0.014**	-	-	-	-	-	-	-	<0.001	-	**0.033**	-	<0.001	-	**0.003**	**0.27**	-	**0.004**	**0.004**	**0.004**	-	-	-	**0.15**	-	-	-	-	-	-	-	-	<0.001	**0.059**	-	-
	4/6/2015	-	**0.008**	**0.009**	**0.13**	-	-	-	-	-	-	-	-	-	**0.26**	-	-	-	**0.008**	**0.22**	-	**0.004**	**0.004**	**0.007**	-	-	-	**0.029**	-	-	-	-	-	-	-	-	<0.001	**0.017**	-	-
	11/17/2015	-	**0.007**	**0.280**	**0.14**	-	-	-	-	-	-	-	-	-	**0.30**	-	-	-	**0.001**	**0.17**	-	**0.004**	**0.002**	**0.003**	-	**0.073**	-	**0.092**	-	-	-	-	<0.001	-	-	-	-	**0.004**	-	-
	4/14/2016	-	**0.001**	**0.006**	**0.20**	-	-	-	-	-	-	-	-	-	**0.060**	-	-	-	**0.005**	**0.17**	-	**0.004**	**0.003**	**0.006**	-	-	-	**0.026**	-	-	-	-	-	-	-	-	-	**0.011**	-	-
	11/2/2016	-	**0.007**	**0.015**	**0.09**	-	-	-	-	-	-	-	-	-	**0.160**	-	-	-	<0.001	**0.15**	-	**0.005**	**0.003**	**0.006**	-	-	-	**0.055**	-	-	-	-	-	-	-	-	-	**0.004**	-	-
	4/24/2017	-	**0.002**	**0.024**	**0.14**	-	-	-	-	-	-	-	-	-	**0.097**	-	-	-	**0.19**	**0.002**	-	**0.004**	**0.004**	**0.006**	-	-	-	**0.022**	-	-	-	-	-	-	-	-	-	**0.093**	-	-
	11/7/2017	-	<0.001	**0.038**	**0.13**	-	-	-	-	-	-	-	-	-	**0.160**	-	-	-	**0.009**	**0.14**	-	**0.003**	**0.004**	**0.007**	-	**0.053**	-	**0.23**	-	-	-	-	**0.027**	-	-	-	-	**0.004**	-	-
	4/25/2018	-	<0.001	**0.017**	**0.14**	-	-	-	-	-	-	-	-	-	**0.10**	-	-	-	<0.001	**0.086**	-	**0.002**	**0.005**	**0.009**	-	-	-	**0.030**	-	-	-	-	-	-	-	-	-	**0.016**	-	-
	11/12/2018	-	<0.001	**0.014**	**0.14**	-	-	-	-	-	-	-	-	-	**0.13**	-	-	-	**0.0017**	**0.15**	-	**0.0051**	**0.0071**	**0.0062**	-	**0.0081**	-	**0.038**	-	-	-	-	-	-	-	-	-	**0.047**	-	-
	4/24/2019	-	**0.0017**	**0.018**	**0.12**	-	-	-	-	-	-	-	-	-	**0.014**	-	-	-	**0.0030**	**0.19**	-	**0.0051**	**0.0014**	**0.0076**	-	-	-	**0.065**	-	-	-	-	-	-	-	-	-	**0.0018**	-	-
	11/4/2019	-	<0.001	**0.011**	**0.11**	-	-	-	-	-	-	-	<0.001	-	**0.075**	-	<0.001	-	<0.001	**0.059**	<0.001	**0.0051**	**0.0025**	**0.0050**	-	**0.0056**	-	**0.014**	-	-	-	-	**0.0084**	-	**0.0021**	**0.016**	**0.32**	-	-
	4/16/2020	-	<0.001	**0.0042**	**0.087**	-	-	-	-	-	-	-	**0.0011**	<0.001	**0.014**	<0.001	<0.001	<0.001	<0.001	**0.25**	<0.001	**0.0029**	<0.001	**0.0067**	-	-	-	**0.030**	-	-	-	-	-	-	<0.001	**0.0096**	**0.0031**	**0.045**	-	-
	11/5/2020	-	<0.001	**0.0085**	**0.096**	-	-	-	-	-	-	-	<0.001	<0.001	**0.15**	<0.001	<0.001	<0.001	<0.001	**0.24**	<0.001	**0.0041**	**0.0012**	**0.0081**	-	-	-	**0.11**	-	-	-	-	-	-	**0.0017**	**0.0017**	**0.0042**	**0.017**	-	-
	4/8/2021	-	<0.001	**0.0046**	**0.078**	-	-	-	-	-	-	-	-	-	**0.045**	-	-	-	<0.001	**0.096**	<0.001	**0.0043**	<0.001	**0.0037**	-	-	-	**0.16**	-	-	-	-	-	-	-	-	-	**0.0087**	-	-
	11/10/2021	-	**0.00082**	**0.0031**	**0.097**	-	-	-	-	-	-	-	-	-	**0.11**	**0.00089**	**0.0020**	**0.0013**	**0.0012**	**0.032**	**0.0011**	**0.0045**	**0.0013**	**0.0044**	-	-	-	**0.14**	-	-	-	-	-	-	**0.0013**	**0.0017**	-	**0.94**	-	-
	4/5/2022	-	<0.0005	**0.0024**	**0.10**	-	-	-	-	-	-	-	-	-	**0.039**	-	-	-	**0.00092**	**0.11**	<0.0005	**0.0049**	**0.00077**	**0.0042**	-	-	-	**0.10**	-	-	-	-	-	-	-	-	-	**0.0033**	-	-
POST-CLOSURE	11/2/2022	-	<0.0005	**0.00060**	**0.093**	-	-	-	-	-	-	-	-	-	**0.038**	**0.00050**	<0.0005	**0.00055**	**0.0011**	**0.15**	**0.00082**	**0.0047**	**0.00078**	**0.0033**	-	**0.15**	-	**0.13**	-	-	**0.00066**	**0.00093**	-	**0.0042**	**0.00050**	**0.00090**	**0.0026**	**0.0018**	-	-

See last page for notes.

TABLE 1
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

Iron (mg/L)

NH AGQS = NE
SMCL = 0.30 mg/L

	Sampling Date	Overburden Monitoring Wells																			Bedrock Monitoring Wells				Groundwater Seep Monitoring Stations			Surface Water Monitoring Stations											Leachate Monitoring Well
		RFW-1	RFW-2	RFW-3	RFW-4	GZ-1U	GZ-2	GZ-3	GZ-4	GZ-5	GZ-6	GZWP-1	GZ-102	GZ-103	GZ-104	GZ-105	GZ-106	GZ-107	GZ-201	GZ-202A	GMW-11RR	GZ-1L	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/1P-2R Southern Spring)	SW-P-5R	SW-P-9 (P-9/1P-9R Northern Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	SW-14	SW-15	SW-16	SW-17	Exeter River	MW-6
PRE-CLOSURE	5/27/1992	**9.3**	**42**	**19**	**66**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**110**
	11/12/1992	**0.06**	**0.35**	**0.21**	**2.52**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.24**	-	-	-	-	-	-	-	-	-
	4/6/1993	**0.16**	**22.8**	**9.8**	**30**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.15**	-	-	-	-	-	-	-	-	**174**
	7/1/1993	**0.93**	**3.01**	**25.59**	**4.59**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**3.07**	-	-	-	-	-	-	-	-	-
	11/5/1993	**0.81**	**1.6**	**4.4**	**15.1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.37**	-	-	-	-	-	-	-	-	**49**
	4/14/1994	**2.55**	**8.82**	**3.22**	**46.9**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**2.25**	-	-	-	-	-	-	-	-	-
	7/15/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/30/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**400**
	9/6/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**470**
	10/11/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**135**
	11/18/1994	**0.98**	**1.75**	**1.28**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.04**	-	-	-	-	-	-	-	-	-
	12/23/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/2/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**43**
	4/12/1995	<0.1	**4.1**	**2.6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	**85**
	7/28/1995	<0.1	**1.32**	**0.52**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	**11**
	12/8/1995	<0.04	**0.41**	**3.7**	**31**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.91**	-	-	-	-	-	-	-	-	**66**
	4/26/1996	<0.02	**0.55**	**0.55**	**28**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.06**	-	-	-	-	-	-	-	-	**3.5**
	7/25/1996	**0.015**	**0.37**	**0.038**	**44**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**2.8**	-	-	-	-	-	-	-	-	-
	11/14/1996	-	**0.45**	**12**	**30**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**3.3**	-	**5.9**	**3.7**	-	-	-	-	-	-	-	-	-	-
	4/21/1997	-	**0.34**	**1.5**	**32**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.18**	-	**3.3**	**0.49**	-	-	-	-	-	-	-	-	-	-
	7/22/1997	**3.4**	**0.66**	**0.036**	**37**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.095**	-	**0.065**	**0.67**	-	-	-	-	-	-	-	-	-	-
POST-CLOSURE	11/11/1997	**0.024**	**0.48**	**4.8**	**31**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.41**	-	**26**	**0.4**	-	-	-	-	-	-	-	-	-	-
	4/15/1998	**0.012**	**0.59**	**18**	**25**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**12**	-	-	**0.34**	-	-	-	-	-	-	-	-	-	-
	7/6/1998	-	**0.24**	**4.1**	**33**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**130**	-	**280**	**1.1**	-	-	-	-	-	-	-	-	-	-
	11/16/1998	**0.041**	**0.51**	**0.28**	**36**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.74**	-	**63**	**0.53**	-	-	-	-	-	-	-	-	-	-
	4/19/1999	**0.018**	**0.48**	**2.96**	**31**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.85**	-	**110**	**0.64**	-	-	-	-	-	-	-	-	-	-
	7/27/1999	**0.032**	**0.29**	**3.8**	**33**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.62**	-	**1500**	**1.3**	-	-	-	-	-	-	-	-	-	-
	11/18/1999	**0.019**	**0.51**	**410**	**30**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.36**	-	**1900**	**420**	-	-	-	-	-	-	-	-	-	-
	5/5/2000	**0.071**	**0.53**	**12**	**31**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.22**	-	-	-	-	-	-	-	-	-	-
	7/7/2000	**0.028**	**0.35**	**62**	**40**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**5.5**	-	**160**	**1**	-	-	-	-	-	-	-	-	-	-
	11/16/2000	**0.046**	**0.16**	**10**	**28**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**10**	-	**6.8**	**122**	-	-	-	-	-	-	-	-	-	-
	4/25/2001	**0.2**	**2.2**	**16**	**30**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**120**	-	**10**	**7.3**	-	-	-	-	-	-	-	-	-	-
	7/25/2001	<0.03	**0.34**	**22**	**38**	<0.004	-	-	<0.044	<0.044	<0.044	<0.044	-	-	-	-	-	-	-	-	-	**0.291**	<0.044	<0.044	-	**32**	-	**3,700**	**21**	-	-	-	-	-	-	-	-	-	-
	8/9/2001	-	-	-	-	<0.044	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.044	**0.578**	**0.054**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/28/2001	<0.05	**0.29**	**7.4**	**16**		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.45**	-	-	**510**	-	-	-	-	-	-	-	-	-	-
	1/17/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2002	<0.03	**0.78**	**15**	**36**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.77**	-	-	-	-	-	-	-	-	-	-
	11/20/2002	<0.05	**3.6**	**58**	**40**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.24**	-	-	-	-	-	-	-	-	-	-
	4/29/2003	<0.05	**2.2**	**100**	**38**	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	**28**	<0.05	-	**0.78**	-	**15**	**0.14**	-	-	-	-	-	-	-	-	-	-
	11/17/2003	-	**3.1**	**38**	**25**	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	**26**	**0.06**	-	-	-	**7.0**	**0.18**	-	-	-	-	-	-	-	-	-	-
	4/28/2004	-	**1.9**	**22**	**37**	<0.05	-	-	-	-	-	**2.1**	-	-	-	-	-	-	-	-	-	<0.05	**0.21**	<0.05	**0.05**	**0.35**	**2.4**	**0.06**	**0.49**	-	-	-	-	-	-	-	-	-	-
	11/15/2004	-	**5.2**	**8.7**	**32**	<0.05	-	-	-	-	-	**5.4**	-	-	-	-	-	-	-	-	-	<0.05	**2.5**	**0.09**	-	**5.0**	**0.53**	**7.0**	**1.8**	-	-	-	-	-	-	-	-	-	-
	4/28/2005	-	**2.0**	**8.6**	**26**	<0.05	-	-	-	-	-	**7.1**	-	-	-	-	-	-	-	-	-	<0.05	**3.2**	<0.05	-	**0.72**	**0.27**	**2.4**	**0.59**	-	-	-	-	-	-	-	-	-	-
	11/8/2005	-	**3.0**	**1.8**	**38**	<0.05	-	-	-	-	-	**13**	-	-	-	-	-	-	-	-	-	<0.05	**10**	<0.05	-	**2.3**	**0.98**	**6.0**	**4.0**	-	-	-	-	-	-	-	-	-	-
	4/17/2006	-	**0.68**	**1.6**	**32**	<0.05	-	-	-	-	-	**12**	-	-	-	-	-	-	-	-	-	<0.05	**6.8**	<0.05	-	**0.58**	**0.57**	**2.9**	**380.0**	-	-	-	-	-	-	-	-	-	-
	11/20/2006	-	**1.1**	**2.9**	**25**	<0.05	-	-	-	-	-	**11**	-	-	-	-	-	-	-	-	-	<0.05	**0.08**	<0.05	-	**2.0**	**0.39**	**0.45**	**0.49**	-	-	-	-	-	-	-	-	-	-
	5/2/2007	-	**2.4**	**2.2**	**25**	<0.05	-	-	-	-	-	**20**	-	-	-	-	-	-	-	-	-	-	**2.4**	-	-	**4.7**	**0.87**	**5.30**	**5.40**	-	-	-	-	-	-	-	-	**0.03**	-
	11/14/2007	-	**1.4**	**2.7**	**37**	<0.05	-	-	-	-	-	**21**	-	-	**1.7**	-	-	-	-	-	-	**0.43**	<0.05	**0.10**	-	**0.67**	**0.23**	**6.0**	**0.32**	-	-	-	-	-	-	-	-	**0.29**	-
	4/25/2008	-	**0.73**	**3.8**	**37**	<0.05	-	-	-	-	-	**22**	-	-	-	-	-	-	-	-	-	-	**0.32**	-	-	**5.4**	<0.05	**4.7**	**0.31**	-	-	-	-	-	-	-	-	**0.38**	-
	11/18/2008	-	**0.85**	**0.50**	**48**	<0.05	-	-	-	-	-	Dry	-	-	**0.84**	-	-	-	-	-	-	<0.05	<0.05	-	-	Dry	**2.3**	**9.3**	**0.57**	-	-	-	-	-	-	-	-	**0.7**	-
	4/27/2009	-	**0.44**	**0.07**	**32**	<0.05	-	-	-	-	-	**3.2**	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	**3.4**	**0.39**	**4.2**	**2.7**	-	-	-	-	-	-	-	-	**0.22**	**0.34**	-
	11/4/2009	-	**2.0**	<0.05	**40**	<0.05	-	-	-	-	-	-	-	-	**0.68**	-	-	-	-	-	-	<0.05	**0.69**	<0.05	-	**6.2**	**0.48**	**8.2**	-	-	-	-	-	-	-	-	-	**26**	**0.39**	-
	4/20/2010	-	**1.0**	**0.31**	**36**	<0.05	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-	-	**3.2**	**0.16**	**3**	**-**	-	-	-	-	-	-	-	-	**4.5**	**0.20**	-
	11/11/2010	-	**3.7**	**0.17**	**29**	<0.05	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.05	<0.05	<0.05	-	**3.4**	**0.41**	**11**	**-**	-	-	-	-	-	-	-	-	**2.8**	**0.30**	-
	4/22/2011	-	**0.62**	**0.27**	**20**	<0.05	-	-	-	-	-	-	-	-	**0.07**	-	-	-	-	-	-		<0.05	-	-	**1.9**	<0.05	**7**	**-**	-	-	-	-	-	-	-	-	**5.1**	**0.23**	-
	11/14/2011	-	**0.43**	**1.1**	**26**	<0.05	-	-	-	-	-	-	-	-	**2.6**	-	-	-	-	-	-	<0.05	<0.05	<0.05	-	**0.08**	<0.05	**3.3**	**-**	-	-	-	**0.26**	**0.12**	-	-	-	**0.53**	**0.25**	-
	4/30/2012	-	**1.8**	**2.1**	**37**	**0.27**	-	-	-	-	-	-	-	-	**5.9**	-	-	-	-	-	-	-	<0.05	-	-	**6.5**	**0.38**	**15**	**-**	-	-	-	-	**0.42**	-	-	-	**0.37**	**0.36**	-
	11/5/2012	-	**0.15**	**0.90**	**31**	<0.05	-	-	-	-	-	-	-	-	**6.3**	-	-	-	<0.05	**46**	-	<0.05	**0.09**	-	-	**4.1**	**0.12**	**15**	**-**	-	-	-	-	**2.4**	-	-	-	**8.5**	**0.35**	-
	5/7/2013	-	-	-	-	-	-	-	-	-	-	-	**0.55**	-	**14**	-	-	-	**0.09**	**58**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/19/2013	-	**2.4**	**3.1**	**20**	<0.05	-	-	-	-	-	-	**3.1**	-	**16**	-	-	-	**2.8**	**38**	-	<0.05	**1.4**	**0.46**	-	**6.6**	-	**7.8**	-	-	-	-	-	-	-	-	**6.0**	**3.5**	-	-
	4/15/2014	-	**5.3**	**4.7**	**24**	<0.05	-	-	-	-	-	-	<0.05	-	**8.7**	-	**0.06**	-	**0.81**	**66**	-	**1.1**	**2.3**	-	-	-	-	**14**	-	-	-	-	-	-	-	-	**4.7**	**24**	-	-
	11/3/2014	-	**3.0**	**7.0**	**20**	-	-	-	-	-	-	-	<0.05	-	**8.9**	-	**0.05**	-	**0.98**	**48**	-	**1.7**	**2.3**	**4.0**	-	-	-	**8.3**	-	-	-	-	-	-	-	-	<0.05	**5.4**	-	-
	4/6/2015	-	**2.1**	**10.0**	**41**	-	-	-	-	-	-	-	-	-	**18**	-	-	-	**7.3**	**43**	-	**0.96**	**2.2**	**8.3**	-	-	-	**1.6**	-	-	-	-	-	-	-	-	**0.17**	**3.4**	-	-
	11/17/2015	-	**1.6**	**59.0**	**19**	-	-	-	-	-	-	-	-	-	**24**	-	-	-	**0.2**	**35**	-	**0.91**	**0.81**	**1.9**	-	**31**	-	**6.7**	-	-	-	-	-	0.09	-	-	-	**0.12**	-	-
	4/14/2016	-	**0.19**	**6.0**	**22**	-	-	-	-	-	-	-	-	-	**6.1**	-	-	-	**3.1**	**21**	-	**0.27**	**1.5**	**6.3**	-	-	-	**3.0**	-	-	-	-	-	-	-	-	-	**0.76**	-	-
	11/2/2016	-	**4.9**	**16.0**	**55**	-	-	-	-	-	-	-	-	-	**20.0**	-	-	-	<0.05	**30**	-	**2.2**	**1.9**	**9.9**	-	-	-	**14.0**	-	-	-	-	-	-	-	-	-	**0.18**	-	-
	4/24/2017	-	**0.62**	**21**	**27**	-	-	-	-	-	-	-	-	-	**6.9**	-	-	-	**41**	**0.58**	-	**0.50**	**3.2**	**12**	-	-	-	**2.5**	-	-	-	-	-	-	-	-	-	**28**	-	-
	11/7/2017	-	**0.10**	**21**	**32**	-	-	-	-	-	-	-	-	-	**16**	-	-	-	**7.4**	**51**	-	**0.95**	**0.42**	**9.4**	-	**42**	-	**43**	-	-	-	-	-	**5.6**	-	-	-	**0.24**	-	-
	4/25/2018	-	**0.14**	**16**	**45**	-	-	-	-	-	-	-	-	-	**14**	-	-	-	**0.14**	**29**	-	**0.20**	**1.4**	**15**	-	-	-	**9.1**	-	-	-	-	-	-	-	-	-	**3.7**	-	-
	11/12/2018	-	**0.063**	**18**	**24**	-	-	-	-	-	-	-	-	-	**17**	-	-	-	**0.57**	**38**	-	**0.52**	**0.41**	**5.8**	-	**2.3**	-	**7.8**	-	-	-	-	-	-	-	-	-	**9.8**	-	-
	4/24/2019	-	**0.16**	**17**	**41**	-	-	-	-	-	-	-	-	-	**1.6**	-	-	-	**1.3**	**77**	-	**0.40**	**0.13**	**7.6**	-	-	-	**32**	-	-	-	-	-	-	-	-	-	**0.084**	-	-
	11/4/2019	-	**0.093**	**3.7**	**34**	-	-	-	-	-	-	-	<0.05	-	**8.4**	-	<0.05	-	<0.05	**48**	<0.05	**0.41**	**0.21**	**8.5**	-	<0.05	-	**0.29**	-	-	-	-	-	**2.2**	-	**0.25**	**2.8**	**97**	-	-
	4/16/2020	-	<0.05	**5.5**	**22**	-	-	-	-	-	-	-	<0.05	<0.05	**1.3**	**0.079**	<0.05	<0.05	<0.05	**53**	<0.05	**0.06**	<0.05	**8.1**	-	-	-	**8.10**	-	-	-	-	-	-	**0.16**	**1.30**	**0.37**	**13**	-	-
	11/5/2020	-	**0.26**	**8.7**	**26**	-	-	-	-	-	-	-	**0.25**	**0.13**	**23**	**0.059**	<0.05	<0.05	<0.05	**48**	<0.05	<0.05	**0.18**	**6.1**	-	-	-	**28**	-	-	-	-	-	-	**0.12**	**0.13**	**0.59**	**3.0**	-	-
	4/8/2021	-	<0.05	**9.3**	**16**	-	-	-	-	-	-	-	-	-	**8.2**	-	-	-	**0.051**	**34**	<0.05	<0.05	**0.07**	**1.9**	-	-	-	**20**	-	-	-	-	-	-	-	-	**2.5**	-	-
	11/10/2021	-	**0.12**	**3.5**	**16**	-	-	-	-	-	-	-	-	-	**24**	<0.05	**1.8**	<0.05	<0.05	**47**	**0.062**	**0.26**	**0.07**	**1.2**	-	-	-	**30**	-	-	-	-	-	-	**0.77**	**0.053**	-	**240**	-	-
	4/5/2022	-	<0.05	**2.4**	**13**	-	-	-	-	-	-	-	-	-	**3.8**	-	-	-	-	**53**	<0.05	**0.12**	<0.05	**1.2**	-	-	-	**17**	-	-	-	-	-	-	-	-	**2.5**	-	-
	11/2/2022	-	<0.05	**0.060**	**37**	-	-	-	-	-	-	-	-	-	**5.8**	<0.05	<0.05	<0.05	<0.05	**53**	**0.22**	**0.26**	**0.065**	**1.2**	-	**96**	-	**28**	-	-	**0.34**	**0.31**	-	**1.7**	<0.05	**0.25**	**0.52**	**0.57**	-	-

See last page for notes.

TABLE 1
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

Manganese (mg/L)

NH AGQS = 0.300 mg/L
WQCTS (Water and Fish Ingestion) = 0.05 mg/L

	Sampling Date	Overburden Monitoring Wells																			Bedrock Monitoring Wells				Groundwater Seep Monitoring Stations			Surface Water Monitoring Stations											Leachate Monitoring Well
		RFW-1	RFW-2	RFW-3	RFW-4	GZ-1U	GZ-2	GZ-3	GZ-4	GZ-5	GZ-6	GZWP-1	GZ-102	GZ-103	GZ-104	GZ-105	GZ-106	GZ-107	GZ-201	GZ-202A	GMW-11RR	GZ-1L	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/1P-2R Southern Spring)	GW-P-5R	SW-P-9 (P-9/1P-9R Northern Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	SW-14	SW-15	SW-16	SW-17	Exeter River	MW-6
PRE-CLOSURE	5/27/1992	**0.14**	**0.93**	**4.9**	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	**0.16**	-	-	-	-	-	-	-	-	-	-	-	**6.4**
	11/12/1992	**0.01**	**0.01**	**4.75**	**0.965**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**2.53**	-	-	-	-	-	-	-	-	-	-
	4/6/1993	<0.01	**0.56**	**6.62**	**4.32**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.04**	-	-	-	-	-	-	-	-	-	**1.56**
	7/1/1993	**0.59**	**0.39**	**6.24**	**5.24**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-	-
	11/5/1993	**0.12**	**0.34**	**10.8**	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**3.7**	-	-	-	-	-	-	-	-	-	**0.78**
	4/14/1994	**1.31**	**1.07**	**11.3**	**4.75**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**4.29**	-	-	-	-	-	-	-	-	-	-
	7/15/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/30/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/6/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10/11/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/1994	**0.05**	**0.19**	**9.9**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.08**	-	-	-	-	-	-	-	-	-	-
	12/23/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/2/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/12/1995	<0.05	**0.68**	**10.6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-
	7/28/1995	<0.05	**0.26**	**12.7**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**7.3**	-	-	-	-	-	-	-	-	-	-
	12/8/1995	<0.01	**0.56**	**13**	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**6.1**	-	-	-	-	-	-	-	-	-	-
	4/26/1996	<0.01	**0.61**	**9.2**	**3.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-	-
	7/25/1996	<0.02	**0.66**	**15**	**5.9**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**8.4**	-	-	-	-	-	-	-	-	-	-
	11/14/1996	-	**0.77**	**16**	**3.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.37**	-	**1.8**	**0.54**	-	-	-	-	-	-	-	-	-	-
	4/21/1997	-	**0.4**	**14**	**3.1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.01**	-	**1.4**	**0.11**	-	-	-	-	-	-	-	-	-	-
	7/22/1997	**0.8**	**0.47**	**0.36**	**3.3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.42**	-	**2.8**	**0.8**	-	-	-	-	-	-	-	-	-	-
	11/11/1997	<0.005	**0.73**	**19**	**3.1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.031**	-	**4.4**	**0.14**	-	-	-	-	-	-	-	-	-	-
	4/15/1998	<0.005	**0.67**	**14**	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**5.5**	-	-	**0.055**	-	-	-	-	-	-	-	-	-	-
	7/6/1998	-	**0.52**	**21**	**4.4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**10**	-	**3.6**	**0.17**	-	-	-	-	-	-	-	-	-	-
	11/16/1998	<0.005	**0.64**	**3.9**	**3.6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.028**	-	**3**	**0.065**	-	-	-	-	-	-	-	-	-	-
	4/19/1999	<0.005	**0.57**	**6.8**	**3.3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.01**	-	**3.4**	**3.8**	-	-	-	-	-	-	-	-	-	-
	7/27/1999	<0.005	**0.51**	**6.3**	**3.4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**16**	-	**54**	**1.8**	-	-	-	-	-	-	-	-	-	-
	11/18/1999	<0.005	**0.61**	**7.8**	**3.4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.32**	-	**320**	**94**	-	-	-	-	-	-	-	-	-	-
	5/5/2000	**0.018**	**0.55**	**7.8**	**4.3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.096**	-	-	-	-	-	-	-	-	-	-
	7/7/2000	**0.16**	**0.56**	**7**	**5.7**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**8.5**	-	**50**	**2.1**	-	-	-	-	-	-	-	-	-	-
	11/16/2000	<0.005	**0.51**	**4.8**	**4.1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**4.5**	-	**2.6**	**51**	-	-	-	-	-	-	-	-	-	-
	4/25/2001	<0.005	**0.97**	**2.9**	**5.1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**5.6**	-	**1.7**	**1.8**	-	-	-	-	-	-	-	-	-	-
	7/25/2001	<0.003	**0.62**	**2.5**	**4.8**	**1.53**	-	-	**0.0946**	**0.893**	**0.0834**	-	-	-	-	-	-	-	-	-	-	**0.413**	**0.404**	**0.175**	-	**1.2**	-	**100**	**5.7**	-	-	-	-	-	-	-	-	-	-
	8/9/2001	-	-	-	-	**0.902**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.399**	**1.730**	**0.195**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/28/2001	<0.03	**0.42**	**1.2**	**2.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.03**	-	-	**110**	-	-	-	-	-	-	-	-	-	-
	1/17/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2002	<0.03	**0.81**	**2.1**	**6.6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.39**	-	-	-	-	-	-	-	-	-	-
	11/20/2002	<0.03	**1.1**	**4.8**	**5.1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.05**	-	-	-	-	-	-	-	-	-	-
	4/29/2003	<0.03	**0.89**	**6.8**	**2.8**	**0.23**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.34**	**9.9**	**0.11**	-	**0.52**	-	**3.5**	**0.05**	-	-	-	-	-	-	-	-	-	-
	11/17/2003	-	**1.1**	**3.0**	**3.6**	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.45**	**19**	**0.16**	-	-	-	**2.5**	**0.1**	-	-	-	-	-	-	-	-	-	-
	4/28/2004	-	**0.75**	**1.9**	**5.5**	**0.08**	-	-	-	-	-	**4.9**	-	-	-	-	-	-	-	-	-	**0.48**	**5.8**	**0.12**	<0.05	**0.84**	**1.1**	**0.64**	<0.05	-	-	-	-	-	-	-	-	-	-
	11/15/2004	-	**0.81**	**1.0**	**5.2**	<0.03	-	-	-	-	-	**4.6**	-	-	-	-	-	-	-	-	-	**0.09**	**14**	**0.17**	-	**1.1**	**0.66**	**2.0**	**0.17**	-	-	-	-	-	-	-	-	-	-
	4/28/2005	-	**0.86**	**0.88**	**4.7**	**0.04**	-	-	-	-	-	**6.8**	-	-	-	-	-	-	-	-	-	**0.05**	**18**	**0.16**	-	**0.53**	**0.29**	**1.1**	<0.03	-	-	-	-	-	-	-	-	-	-
	11/8/2005	-	**0.71**	**0.21**	**3.8**	<0.03	-	-	-	-	-	**5.3**	-	-	-	-	-	-	-	-	-	<0.03	**10**	**0.10**		**1.1**	**0.63**	**2.5**	**1.9**	-	-	-	-	-	-	-	-	-	-
	4/17/2006	-	**0.72**	**0.33**	**3.0**	<0.03	-	-	-	-	-	**4.2**	-	-	-	-	-	-	-	-	-	<0.03	**11**	**0.07**	-	**0.94**	**0.68**	**1.4**	**260**	-	-	-	-	-	-	-	-	-	-
	11/20/2006	-	**0.78**	**0.36**	**2.3**	**1.5**	-	-	-	-	-	**2.7**	-	-	-	-	-	-	-	-	-	**0.03**	**7.5**	**0.10**	-	**1.1**	**0.48**	**1.5**	**0.19**	-	-	-	-	-	-	-	-	-	-
	5/2/2007	-	**1**	**4.1**	**2.5**	**1.1**	-	-	-	-	-	**3.2**	-	-	-	-	-	-	-	-	-	-	**8.5**	-	-	**1.6**	**0.74**	**2.3**	**2.7**	-	-	-	-	-	-	-	-	-	**0.05**
	11/14/2007	-	**1**	**1.9**	**3.4**	**0.54**	-	-	-	-	-	**3.8**	-	-	**4.0**	-	-	-	-	-	-	**0.13**	**4**	**0.12**	-	**1.0**	**0.39**	**2.8**	**0.26**	-	-	-	-	-	-	-	-	-	**0.06**
	4/25/2008	-	**1.1**	**6.1**	**3.9**	**2.9**	-	-	-	-	-	**4.0**	-	-	-	-	-	-	-	-	-	-	**6.1**	-	-	**1.8**	**0.41**	**2.4**	**0.13**	-	-	-	-	**0.30**	-	-	-	-	**0.10**
	11/18/2008	-	**1.2**	**0.75**	**4.7**	**4.2**	-	-	-	-	-	Dry	-	-	**0.27**	-	-	-	-	-	-	<0.03	**0.70**	-	-	Dry	**0.63**	**2.5**	**0.05**	-	-	-	-	**3.2**	-	-	-	-	**0.15**
	4/27/2009	-	**1.2**	**0.35**	**3.5**	**3.7**	-	-	-	-	-	**1.5**	-	-	-	-	-	-	-	-	-	-	**0.93**	-	-	**1.2**	**0.31**	**1.5**	**0.77**	-	-	-	-	**0.11**	-	-	-	**0.17**	**0.12**
	11/4/2009	-	**1.2**	**0.11**	**4.2**	**2.2**	-	-	-	-	-	-	-	-	**0.94**	-	-	-	-	-	-	**0.038**	**4.9**	**0.11**	-	**1.8**	**0.48**	**2.8**	-	-	-	-	-	**0.29**	-	-	-	**3.6**	**0.035**
	4/20/2010	-	**1.0**	**0.89**	**3.2**	**0.24**	-	-	-	-	-	-	-	-	**0.037**	-	-	-	-	-	-	-	**0.60**	-	-	**0.85**	**0.29**	**0.92**	**-**	-	-	-	-	**0.15**	-	-	-	**0.69**	**0.031**
	11/11/2010	-	**0.91**	**0.27**	**3.2**	**4.6**	-	-	-	-	-	-	-	-	**0.31**	-	-	-	-	-	-	**0.007**	**1.7**	**0.028**	-	**1.2**	**0.27**	**2.6**	**-**	-	-	-	-	**0.15**	-	-	-	**0.14**	**0.045**
	4/22/2011	-	**0.7**	**0.42**	**2.8**	**3.6**	-	-	-	-	-	-	-	-	**0.10**	-	-	-	-	-	-	-	**1.6**	-	-	**0.64**	**0.21**	**1.6**	**-**	-	-	-	-	**0.054**	-	-	-	**0.39**	**0.042**
	11/14/2011	-	**0.87**	**1.8**	**3.1**	**6.9**	-	-	-	-	-	-	-	-	**1.1**	-	-	-	-	-	-	**0.009**	**3.8**	**0.009**	-	**1.5**	**0.31**	**2.1**	**-**	-	-	-	**0.026**	**0.061**	-	-	-	**0.082**	**0.031**
	4/30/2012	-	**0.92**	**1.6**	**4.1**	**6.2**	-	-	-	-	-	-	-	-	**1.2**	-	-	-	-	-	-	-	**2.2**	-	-	**1.6**	**0.33**	**2.4**	**-**	-	-	-	-	**0.13**	-	-	-	**0.069**	**0.066**
	11/5/2012	-	**0.98**	**1.9**	**3.9**	**5.5**	-	-	-	-	-	-	-	-	**3.5**	-	-	**1.2**	**2.8**	-	-	**0.024**	**2.8**	-	-	**1.6**	**0.064**	**1.9**	**-**	-	-	-	-	**1.1**	-	-	-	**1.1**	**0.036**
	5/7/2013	-	-	-	-	-	-	-	-	-	-	-	**5.9**	-	**3.6**	-	-	-	**0.13**	**3.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/19/2013	-	**0.81**	**3.1**	**3.6**	**6.4**	-	-	-	-	-	-	**3.8**	-	**3.4**	-	-	-	**0.19**	**3.2**	-	<0.005	**20**	**0.056**	-	**2.0**	-	**1.4**	-	-	-	-	-	-	-	-	**1.3**	**0.25**	-	-
	4/15/2014	-	**1.1**	**2.3**	**6.0**	**8.3**	-	-	-	-	-	-	**0.052**	-	**1.7**	-	**0.018**	-	**0.15**	**5.6**	-	**0.27**	**20**	-	-	-	-	**1.6**	-	-	-	-	-	-	-	-	**1.6**	**3.9**	-	-
	11/3/2014	-	**0.77**	**2.9**	**3.8**	-	-	-	-	-	-	-	**1.6**	-	**4.1**	-	**0.15**	-	**0.21**	**3.8**	-	**0.21**	**25**	**0.14**	-	-	-	**1.5**	-	-	-	-	-	-	-	-	<0.005	**2.2**	-	-
	4/6/2015	-	**0.70**	**2.5**	**5.6**	-	-	-	-	-	-	-	-	-	**3.9**	-	-	-	**0.51**	**3.6**	-	**0.13**	**19**	**0.20**	-	-	-	**0.37**	-	-	-	-	-	-	-	-	**0.59**	**1.4**	-	-
	11/17/2015	-	**0.83**	**2**	**4.1**	-	-	-	-	-	-	-	-	-	**3.6**	-	-	-	**0.39**	**2.8**	-	**0.23**	**17**	**0.13**	-	**2.8**	-	**1.6**	-	-	-	-	-	**0.018**	-	-	-	**1.7**	-	-
	4/14/2016	-	**0.64**	**1.3**	**3.9**	-	-	-	-	-	-	-	-	-	**1.6**	-	-	-	**0.43**	**2.1**	-	**0.089**	**11**	**0.19**	-	-	-	**0.68**	-	-	-	-	-	-	-	-	-	**1.5**	-	-
	11/2/2016	-	**0.76**	**2.8**	**3.9**	-	-	-	-	-	-	-	-	-	**3.0**	-	-	-	**0.71**	**2.2**	-	**0.16**	**11**	**0.26**	-	-	-	**1.2**	-	-	-	-	-	-	-	-	-	**2.2**	-	-
	4/24/2017	-	**0.81**	**2.3**	**2.3**	-	-	-	-	-	-	-	-	-	**1.1**	-	-	-	**3.1**	**0.80**	-	**0.11**	**3.6**	**0.24**	-	-	-	**0.67**	-	-	-	-	-	-	-	-	-	**390**	-	-
	11/7/2017	-	**0.72**	**2.4**	**5.2**	-	-	-	-	-	-	-	-	-	**3.7**	-	-	-	**2.4**	**4.3**	-	**0.22**	**15**	**0.28**	-	**4.8**	-	**4.1**	-	-	-	-	-	**2.9**	-	-	-	**2.2**	-	-
	4/25/2018	-	**0.90**	**2.0**	**5.7**	-	-	-	-	-	-	-	-	-	**1.6**	-	-	-	**0.52**	**3.9**	-	**0.12**	**2.0**	**0.37**	-	-	-	**1.8**	-	-	-	-	-	-	-	-	-	**1.1**	-	-
	11/12/2018	-	**0.77**	**1.8**	**4.8**	-	-	-	-	-	-	-	-	-	**2.2**	-	-	-	**1.3**	**3.8**	-	**0.080**	**1.1**	**0.16**	-	**1.4**	-	**1.2**	-	-	-	-	-	-	-	-	-	**11**	-	-
	4/24/2019	-	**3.0**	**2.0**	**6.0**	-	-	-	-	-	-	-	-	-	**0.25**	-	-	-	**2.9**	**5.5**	-	**0.089**	**0.37**	**0.20**	-	-	-	**3.1**	-	-	-	-	-	-	-	-	-	**0.14**	-	-
	11/4/2019	-	**0.70**	**0.20**	**4.0**	-	-	-	-	-	-	-	**0.11**	-	**1.5**	-	**0.58**	-	**0.53**	**3.8**	**0.055**	**0.065**	**1.7**	**0.32**	-	**2.1**	-	**2.7**	-	-	-	-	-	**0.97**	-	**1.7**	**3.9**	**17**	-	-
	4/16/2020	-	**0.53**	**0.32**	**3.4**	-	-	-	-	-	-	-	**0.0079**	**0.027**	**0.19**	<0.005	**0.20**	**0.016**	**0.72**	**3.5**	**0.013**	**0.43**	**0.027**	**0.17**	-	-	-	**1.4**	-	-	-	-	-	-	**1.3**	**2.1**	**3.0**	**2.9**	-	-
	11/5/2020	-	**0.40**	**0.31**	**3.0**	-	-	-	-	-	-	-	**0.61**	**0.024**	**2.2**	<0.005	**0.30**	<0.005	**0.35**	**3.0**	<0.005	**0.13**	**0.50**	**0.23**	-	-	-	**2.3**	-	-	-	-	-	-	**1.5**	**1.6**	**3.8**	**3.6**	-	-
	4/8/2021	-	**0.35**	**0.47**	**3.8**	-	-	-	-	-	-	-	-	-	**1.1**	-	-	-	**0.54**	**3.7**	<0.005	**0.061**	**0.38**	**0.090**	-	-	-	**2.4**	-	-	-	-	-	-	-	-	-	**0.73**	-	-
	11/10/2021	-	**0.53**	**0.30**	**4.1**	-	-	-	-	-	-	-	-	-	**3.3**	<0.005	**0.60**	**0.011**	**0.53**	**4.8**	<0.005	**0.029**	**0.21**	**0.079**	-	-	-	**3.6**	-	-	-	-	-	-	**0.10**	**1.8**	**-**	**110**	-	-
	4/5/2022	-	**0.76**	**0.20**	**3.6**	-	-	-	-	-	-	-	-	-	**0.39**	-	-	-	**0.47**	**3.9**	<0.005	**0.028**	**0.039**	**0.057**	-	-	-	**2.0**	-	-	-	-	-	-	-	-	-	**0.75**	-	-
POST-CLOSURE	11/2/2022	-	**0.24**	**0.02**	**5.1**	-	-	-	-	-	-	-	-	-	**1.0**	<0.005	**0.15**	<0.005	**0.55**	**4.1**	**0.010**	**0.045**	**0.11**	**0.12**	-	**4.8**	-	**2.8**	-	-	**0.11**	**0.15**	-	**1.5**	**0.065**	**0.17**	**5.7**	**0.32**	-	-

See last page for notes.

TABLE 1
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

Chloride (mg/L)

NH AGQS = *NE*
SMCL = 250 mg/L
WQTS (Protection of Aquatic Life - Fresh Water Acute) = 230 mg/L

	Sampling Date	Overburden Monitoring Wells																	Bedrock Monitoring Wells				Groundwater Seep Monitoring Stations			Surface Water Monitoring Stations									Leachate Monitoring Well
		RFW-1	RFW-2	RFW-3	RFW-4	GZ-1U	GZ-2	GZ-3	GZ-4	GZ-5	GZ-6	GZWP-1	GZ-102	GZ-104	GZ-106	GZ-201	GZ-202A	GMW-11RR	GZ-1L	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/1P-2R Southern Spring)	GW-P-5R	SW-P-9 (P-9/1P-9R Northern Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	SW-15	SW-16	SW-17	Exeter River	MW-6
PRE-CLOSURE	5/27/1992	17	56	78	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	-	-	-	-	-	-	-	-	-	900
	11/12/1992	24	70	78	188	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64	-	-	-	-	-	-	-	-	-
	4/6/1993	32	70	34	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	40	-	-	-	-	-	-	-	-	1,150
	7/1/1993	900	700	650	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,200	-	-	-	-	-	-	-	-	-
	11/5/1993	18	52	66	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62	-	-	-	-	-	-	-	-	700
	4/14/1994	6.6	56	52.6	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	-	-	-	-	-	-
	7/15/1994	5.24	49.7	46.6	147	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50.1	-	-	-	-	-	-	-	-	-
	8/30/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	350
	9/6/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	950
	10/11/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	450
	11/18/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/23/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	470
	2/2/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	500
	4/12/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	490
	7/28/1995	10	54	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	-	-	-	-	-	-	-	-	510
	12/8/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,200
	4/26/1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	550
	7/25/1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/14/1996	-	66	35	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-	49	52	-	-	-	-	-	-	-	-	-	-
	4/21/1997	-	60	32	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	23	8	-	-	-	-	-	-	-	-	-	-
	7/22/1997	17	37	29	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69	-	49	39	-	-	-	-	-	-	-	-	-	-
	11/11/1997	78	103	36	220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	80	40	-	-	-	-	-	-	-	-	-	-
	4/15/1998	52	56	22	97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	-	-	25	-	-	-	-	-	-	-	-	-	-
	7/6/1998	-	39	31	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	-	90	17	-	-	-	-	-	-	-	-	-	-
	11/16/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/19/1999	28	50	140	7.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	-	27	44	-	-	-	-	-	-	-	-	-	-
	7/27/1999	9.9	37	21	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	-	51	67	-	-	-	-	-	-	-	-	-	-
	11/18/1999	40	47	28	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	47	53	-	-	-	-	-	-	-	-	-	-
	5/5/2000	83	51	8.1	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-	-	-	-	-
	7/7/2000	420	53	14	59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46	-	54	43	-	-	-	-	-	-	-	-	-	-
	11/16/2000	120	73	44	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43	-	62	60	-	-	-	-	-	-	-	-	-	-
	4/25/2001	72	63	34	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	-	42	39	-	-	-	-	-	-	-	-	-	-
	7/25/2001	42	63	17	100	94	-	-	77	45	460	-	-	-	-	-	-	-	81	<5	26	-	11	-	41	37	-	-	-	-	-	-	-	-	-	-
	8/9/2001	-	-	-	-	51	-	-	-	-	-	-	-	-	-	-	-	-	120	13	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/28/2001	43	74	40	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	96	-	-	-	-	-	-	-	-	-	-
	1/17/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2002	34	68	51	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	-	-	-	-	-	-	-	-	-
	11/20/2002	28	67	24	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-
	4/29/2003	18	61	6.1	45	48	-	-	-	-	-	-	-	-	-	-	-	-	140	6.8	22	-	17	-	30	14	-	-	-	-	-	-	-	-	-	-
	11/17/2003	-	71	33	160	53	-	-	-	-	-	-	-	-	-	-	-	-	140	5.4	27	-	27	-	62	22	-	-	-	-	-	-	-	-	-	-
	4/28/2004	-	51	<0.5	94	64	-	-	-	-	-	41	-	-	-	-	-	-	120	5.5	21	6.8	19	22	45	24	-	-	-	-	-	-	-	-	-	-
	11/15/2004	-	38	8.8	79	31	-	-	-	-	-	19	-	-	-	-	-	-	67	7.3	20	-	20	4.0	74	57	-	-	-	-	-	-	-	-	-	-
	4/28/2005	-	65	24	130	70	-	-	-	-	-	36	-	-	-	-	-	-	130	14	26	-	11	8.3	45	22	-	-	-	-	-	-	-	-	-	-
	11/8/2005	-	47	11	120	88	-	-	-	-	-	15	-	-	-	-	-	-	120	12	34	-	16	6.7	62	39	-	-	-	-	-	-	-	-	-	-
	4/17/2006	-	51	13	98	51	-	-	-	-	-	35	-	-	-	-	-	-	130	29 M	36	-	23	19	61	69	-	-	-	-	-	-	-	-	-	-
	11/20/2006	-	11	5.0	35	63	-	-	-	-	-	4	-	-	-	-	-	-	50	10	7.9	-	5.2	1.8	18	3.4	-	-	-	-	-	-	-	-	-	-
	5/2/2007	-	80	56.0	95	68	-	-	-	-	-	32	-	-	-	-	-	-	-	66	-	-	28	17	41	45	-	-	-	-	-	-	-	-	22	-
	11/14/2007	-	63	37	98	38	-	-	-	-	-	35	-	-	-	-	-	-	130	59	14	-	35	13	53 M	55	-	-	-	-	-	-	-	-	30	-
	4/25/2008	-	74	66	110	75	-	-	-	-	-	48	-	-	-	-	-	-	-	59	-	-	45	10	46 M	39	-	-	-	-	33	-	-	-	33	-
	11/18/2008	-	70	45	230	150	-	-	-	-	-	170	-	46	-	-	-	-	160	39	-	-	Dry	6.1	35	28	-	-	-	-	79	-	-	-	-	-
	4/27/2009	-	77	52	130	35	-	-	-	-	-	46	-	-	-	-	-	-	-	33	-	-	25	7	37	29	-	-	-	-	26	-	-	-	27	-
	11/4/2009	-	75	40	180	53	-	-	-	-	-	-	-	41	-	-	-	-	120	44	19	-	30	16	72	-	-	-	-	-	29	-	-	100	30	-
	4/20/2010	-	77	40	140	30	-	-	-	-	-	-	-	6	-	-	-	-	-	43	-	-	35	33	38	-	-	-	-	-	27	-	-	87	25	-
	11/11/2010	-	57	43	140	61	-	-	-	-	-	-	-	43	-	-	-	-	120	52	24	-	35	9	88	-	-	-	-	-	30	-	-	100	29	-
	4/22/2011	-	54	50	130	39	-	-	-	-	-	-	-	19	-	-	-	-	-	50	-	-	35	8	50	-	-	-	-	-	24	-	-	73	28	-
	11/14/2011	-	62	45	160	61	-	-	-	-	-	-	-	42	-	-	-	-	130	48	24	-	26	5	36	-	-	-	-	-	21	-	-	75	24	-
	4/30/2012	-	60	39	210	41	-	-	-	-	-	-	-	33	-	-	-	-	-	32	-	-	27	16	53	-	-	-	-	-	26	-	-	73	28	-
	11/5/2012	-	77	40	210	46	-	-	-	-	-	-	-	53	-	90	48	-	120	27	-	-	32	19	87	-	-	-	-	-	37	-	-	83	30	-
	5/7/2013	-	-	-	-	-	-	-	-	-	-	-	60	46	-	79	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/19/2013	-	60	42	170	91	-	-	-	-	-	-	41	42	-	96	44	-	130	15	12	-	28	-	79	-	-	-	-	-	-	-	46	66	-	-
	4/15/2014	-	64	42	97	110	-	-	-	-	-	-	34	37	6	98	40	-	130	12	-	-	-	-	51	-	-	-	-	-	-	-	78	60	-	-
	11/3/2014	-	57	39	170	-	-	-	-	-	-	-	44	47	30	130	40	-	120	10	23	-	-	-	89	-	-	-	-	-	-	-	120	50	-	-
	4/6/2015	-	50	43	78	-	-	-	-	-	-	-	-	52	-	170	42	-	120	10	15	-	-	-	10	-	-	-	-	-	-	-	82	52	-	-
	11/17/2015	-	57	38	170	-	-	-	-	-	-	-	-	41	170	-	40	-	120	8	20	-	20	-	85	-	-	-	-	-	44	-	-	47	-	-
	4/14/2016	-	51	42	86	-	-	-	-	-	-	-	-	57	-	98	44	-	130	8	13	-	-	-	47	-	-	-	-	-	-	-	-	50	-	-
	11/2/2016	-	59	40	71	-	-	-	-	-	-	-	-	54	-	220	38	-	120	9	18	-	-	-	110	-	-	-	-	-	-	-	-	50	-	-
	4/24/2017	-	67	42	53	-	-	-	-	-	-	-	-	49	-	99	45	-	120	10	3	-	-	-	59	-	-	-	-	-	-	-	-	44	-	-
	11/7/2017	-	59	37	170	-	-	-	-	-	-	-	-	45	-	210	43	-	120	6	18	-	39	-	80	-	-	-	-	-	48	-	-	51	-	-
	4/25/2018	-	89	40	85	-	-	-	-	-	-	-	-	50	-	96	45	-	120	8.6	20	-	-	-	56	-	-	-	-	-	-	-	-	55	-	-
	11/12/2018	-	83	46	170	-	-	-	-	-	-	-	-	53	-	160	49	-	110	7.6	21	-	20	-	21	-	-	-	-	-	-	-	-	47	-	-
	4/24/2019	-	200	42	160	-	-	-	-	-	-	-	-	11	-	140	51	-	93	16	28	-	-	-	43	-	-	-	-	-	-	-	-	49	-	-
	11/4/2019	-	69	48	130	-	-	-	-	-	-	-	89	53	83	98	50	120	100	30	42	-	26	-	98	-	-	-	-	-	17	65	69	78	-	-
	4/16/2020	-	81	55	110	-	-	-	-	-	-	-	-	35	-	180	49	77	93	8.2	28	-	-	-	34	-	-	-	-	-	-	-	-	64	-	-
	11/5/2020	-	89	58	95	-	-	-	-	-	-	-	-	48	-	120	56	120	99	15	34	-	-	-	98	-	-	-	-	-	-	-	-	61	-	-
	4/8/2021	-	98	58	97	-	-	-	-	-	-	-	-	60	-	110	61	69	110	6.6	33	-	-	-	77	-	-	-	-	-	-	-	-	73	-	-
	11/10/2021	-	92	65	90	-	-	-	-	-	-	-	-	60	-	170	67	36	130	6	26	-	-	-	74	-	-	-	-	-	-	-	-	58	-	-
	4/5/2022	-	240	75	120	-	-	-	-	-	-	-	-	83	-	140	77	29	140	5.8	20	-	-	-	87	-	-	-	-	-	-	-	-	61	-	-
POST-CLOSURE	11/2/2022	-	94	54	150	-	-	-	-	-	-	-	-	74	-	160	72	91	130	8.7	40	-	42	-	91	-	-	-	-	-	45	59	65	67		

See last page for notes.

TABLE 1
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

Nitrate (mg/L)

NH AGQS = 10 mg/L
WQCTS (Water and Fish Ingestion) = 10 mg/L

	Sampling Date	Overburden Monitoring Wells																	Bedrock Monitoring Wells				Groundwater Seep Monitoring Stations			Surface Water Monitoring Stations									Leachate Monitoring Well
		RFW-1	RFW-2	RFW-3	RFW-4	GZ-1U	GZ-2	GZ-3	GZ-4	GZ-5	GZ-6	GZWP-1	GZ-102	GZ-104	GZ-106	GZ-201	GZ-202A	GMW-11RR	GZ-1L	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/1P-2R Southern Spring)	GW-P-5R	SW-P-9 (P-9/1P-9R Northern Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	SW-15	SW-16	SW-17	Exeter River	MW-6
PRE-CLOSURE	5/27/1992	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	<0.05
	11/12/1992	**1.35**	**0.36**	**2.15**	**0.38**	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	**0.34**	-	-	-	-	-	-	-	-	-
	4/6/1993	**0.5**	**0.5**	**0.5**	**0.5**	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	**0.5**	-	-	-	-	-	-	-	-	**1.5**
	7/1/1993	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-
	11/5/1993	**0.6**	**0.5**	**0.5**	**0.5**	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	**0.5**	-	-	-	-	-	-	-	-	**1.5**
	4/14/1994	**0.197**	**0.091**	**0.226**	<0.03	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	<0.03	-	-	-	-	-	-	-	-	-
	7/15/1994	<0.03	<0.03	<0.03	<0.03	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	<0.03	-	-	-	-	-	-	-	-	-
	8/30/1994	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/6/1994	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10/11/1994	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/1994	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/23/1994	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/2/1995	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/12/1995	**0.52**	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-
	7/28/1995	**0.7**	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-
	12/8/1995	**0.17**	<0.05	**0.16**	**0.078**	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-
	4/26/1996	**0.1**	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-
	7/25/1996	**0.17**	<0.05	<0.05	**0.07**	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-
	11/14/1996	-	**0.6**	**0.47**	**19**	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	**3.2**	-	**0.74**	**0.49**	-	-	-	-	-	-	-	-	-	-
	4/21/1997	-	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	**0.34**	-	**2.1**	**1.4**	-	-	-	-	-	-	-	-	-	-
	7/22/1997	**0.35**	<0.05	**0.06**	<0.05	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	<0.05	-	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
	11/11/1997	**0.89**	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	<0.05	-	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
	4/15/1998	**0.46**	<0.05	**0.06**	<0.05	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	-	-	-
	7/6/1998	-	<0.05	<0.05	**5.6**	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	**4.1**	-	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
	11/16/1998	**0.52**	<0.05	**0.31**	<0.05	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	**0.08**	-	<0.05	**0.12**	-	-	-	-	-	-	-	-	-	-
	4/19/1999	**0.39**	<0.05	<0.1	<0.1	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	<0.05	-	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
	7/27/1999	**0.096**	<0.05	**0.37**	<0.05	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	<0.05	-	<0.05	**0.18**	-	-	-	-	-	-	-	-	-	-
	11/18/1999	**0.51**	<0.05	<0.05	<0.3	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	**0.09**	-	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
	5/5/2000	**2.7**	**0.1**	**0.39**	**0.1**	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	**0.1**	-	-	-	-	-	-	-	-	-	-
	7/7/2000	**7**	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	**0.43**	-	<0.05	**0.06**	-	-	-	-	-	-	-	-	-	-
	11/16/2000	**2.1**	**0.051**	**0.55**	<0.1	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	<0.05	-	<0.05	**0.38**	-	-	-	-	-	-	-	-	-	-
	4/25/2001	**0.98**	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	<0.05	-	**0.12**	<0.05	-	-	-	-	-	-	-	-	-	-
	7/25/2001	**1**	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
	8/9/2001	**-**	-	-	-	**1.3**	-	-	-	-	-	-	-	-		-	-	-	<0.100	<0.100	**0.140**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/28/2001	**1.3**	**0.16**	**0.44**	**3**	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	**0.26**	-	-	<0.05	-	-	-	-	-	-	-	-	-	-
	1/17/2002	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2002	**1**	**0.2**	**0.3**	**0.2**	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	**0.2**	-	-	-	-	-	-	-	-	-	-
	11/20/2002	**0.8**	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	-	-
	4/29/2003	**0.7**	<0.1	**0.2**	<0.1	**1.8**	-	-	-	-	-	-	-	-		-	-	-	<0.1	<0.1	**0.2**	-	<0.1	-	<0.1	**0.3**	-	-	-	-	-	-	-	-	-	-
	11/17/2003	-	<0.1	<0.1	<0.1	**3.6**	-	-	-	-	-	-	-	-		-	-	-	**0.1**	<0.1	**0.2**	-	<0.1	-	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
	4/28/2004	**-**	<0.1	**0.3**	<0.1	**2.6**	-	-	-	-	-	**0.4**	-	-		-	-	-	**0.1**	<0.1	**0.1**	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
	11/15/2004	**-**	<0.1	**0.9**	<0.1	**0.8**	-	-	-	-	-	**0.2**	-	-		-	-	-	**0.2**	<0.1	**0.2**	-	<0.1	<0.1	<0.1	**2.1**	-	-	-	-	-	-	-	-	-	-
	4/28/2005	**-**	<0.1	**0.1**	<0.1	**2.0**	-	-	-	-	-	**0.2**	-	-		-	-	-	**0.1**	<0.1	**0.1**	-	**0.8**	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
	11/8/2005	-	<0.1	**1.2**	<0.1	**1.0**	-	-	-	-	-	<0.1	-	-		-	-	-	**0.3**	<0.1	**0.2**	-	<0.5	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
	4/17/2006	**-**	<0.1	<0.1	<0.1	**0.4**	-	-	-	-	-	<0.1	-	-		-	-	-	**0.2**	<0.1	**0.2**	-	<0.1	<0.1	<0.1	**0.1**	-	-	-	-	-	-	-	-	-	-
	11/20/2006	**-**	<0.1	<0.1	<0.1	**0.2**	-	-	-	-	-	<0.1	-	-		-	-	-	<0.1	<0.1	**0.1**	-	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-
	5/2/2007	**-**	<0.1	**0.2**	<0.1	**0.2**	-	-	-	-	-	<0.1	-	-		-	-	-	-	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	<0.1	-
	11/14/2007	**-**	<0.1	**0.6**	<0.1	<0.1	-	-	-	-	-	<0.1	-	<0.5		-	-	-	**0.4**	**0.2**	**0.1**	-	<0.1	**0.1**	<0.1	<0.1	-	-	-	-	-	-	-	-	**0.2**	-
	4/25/2008	-	<0.1	**0.2**	<0.1	**0.2**	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	-	-	-	-	<0.1	-	-	-	<0.1	-
	11/18/2008	-	<0.1	**1.1**	<0.1	<0.1	-	-	-	-	-	<0.1	-	**0.27**	-	-	-	-	**0.2**	<0.1	-	-	Dry	<0.1	<0.1	<0.1	-	-	-	-	<0.1	-	-	-	-	-
	4/27/2009	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	**0.7**	-	-	-	-	-	-	-	<0.5	-	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	<0.5	-
	11/4/2009	-	<0.5	**0.6**	<0.5	<0.5	-	-	-	-	-	-	-	**0.7**	-	-	-	-	<0.5	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	-	-	<0.5	<0.5	-
	4/20/2010	-	<0.5	**1.3**	<0.5	**1.4**	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	<0.5	-	-	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	-	-	<0.5	<0.5	-
	11/11/2010	-	<0.5	**1.0**	<0.5	<0.5	-	-	-	-	-	-	-	**0.7**	-	-	-	-	<0.5	**0.6**	<0.5	-	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	-	-	<0.5	<0.5	-
	4/22/2011	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	**1.0**	-	-	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	-	-	<0.5	<0.5	-
	11/14/2011	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	<0.5	-	-	-	-	<0.5	**0.8**	<0.5	-	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	-	-	<0.5	<0.5	-
	4/30/2012	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	<0.5	-	-	-	-		<0.5	-	-	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	-	-	<0.5	<0.5	-
	11/5/2012	-	<0.5	**1.3**	<0.5	<0.5	-	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	-	<0.5	**0.6**	-	-	<0.5	<0.5	<0.5	-	-	-	-	-	<0.5	-	-	<0.5	<0.5	-
	5/7/2013	-	-	-	-	-	-	-	-	-	-	-	<0.5	<0.5	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/19/2013	-	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	<0.5	<0.5	-	**0.6**	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	-	<0.5	<0.5	-	-
	4/15/2014	-	<0.5	**0.8**	<0.5	<0.5	-	-	-	-	-	-	**0.8**	<0.5	<0.5	**0.7**	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	-	<0.5	<0.5	-	-
	11/3/2014	-	<0.5	**3.3**	<0.5	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	**0.8**	**1.1**	-	<0.5	-	<0.5	-	-	-	-	-	-	-	**1.2**	<0.5	-	-
	4/6/2015	-	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	<0.5	-	**0.9**	<0.5	-	<0.5	**0.9**	**0.5**	-	-	-	<0.5	-	-	-	-	-	-	-	<0.5	<0.5	-	-
	11/17/2015	-	<0.5	0.7	<0.5	-	-	-	-	-	-	-	-	<0.5	-	**0.8**	<0.5	-	<0.5	**<0.5**	**0.5**	-	<0.5	-	<0.5	-	-	-	-	-	<0.5	-	-	<0.5	-	-
	4/14/2016	-	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	-	<0.5	<0.5	<0.5	-	-	-	<0.5	-	-	-	-	-	-	-	-	<0.5	-	-
	11/2/2016	-	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	<0.5	-	**2**	<0.5	-	1	1.4	1.1	-	-	-	<0.5	-	-	-	-	-	-	-	-	<0.5	-	-
	4/24/2017	-	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	<0.5	-	**1.0**	<0.5	-	<0.5	<0.5	<0.5	-	-	-	<0.5	-	-	-	-	-	-	-	-	<0.5	-	-
	11/7/2017	-	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	<0.5	-	**1.2**	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	<0.5	-	-	<0.5	-	-
	4/25/2018	-	<0.5	**0.54**	<0.5	-	-	-	-	-	-	-	-	<0.5	-	**0.61**	<0.5	-	<0.5	<0.5	**1.1**	-	-	-	<0.5	-	-	-	-	-	-	-	-	<0.5	-	-
	11/12/2018	-	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	<0.5	-	**1.5**	<0.5	-	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	-	-	-	<0.5	-	-
	4/24/2019	-	**0.50**	<0.5	<0.5	-	-	-	-	-	-	-	-	**1.2**	-	**1.3**	<0.5	-	<0.5	<0.5	<0.5	-	-	-	<0.5	-	-	-	-	-	-	-	-	<0.5	-	-
	11/4/2019	-	**0.79**	<0.5	<0.5	-	-	-	-	-	-	-	<0.5	<0.5	<0.5	**1.8**	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	<0.5	-	-
	4/16/2020	-	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	<0.5	-	<0.5	<0.5	**0.62**	<0.5	<0.5	<0.5	-	-	-	<0.5	-	-	-	-	-	-	-	-	<0.5	-	-
	11/5/2020	-	**0.78**	<0.5	<0.5	-	-	-	-	-	-	-	-	<0.5	-	**1.4**	<0.5	**0.50**	<0.5	<0.5	<0.5	-	-	-	<0.5	-	-	-	-	-	-	-	-	<0.5	-	-
	4/8/2021	-	**0.73**	**2.6**	<0.5	-	-	-	-	-	-	-	-	<0.5	-	**0.88**	<0.5	**0.66**	<0.5	<0.5	<0.5	-	-	-	<0.5	-	-	-	-	-	-	-	-	<0.5	-	-
	11/10/2021	-	**0.96**	**2.0**	<0.5	-	-	-	-	-	-	-	-	<0.5	-	**0.93**	<0.5	**1.9**	<0.5	<0.5	**0.87**	-	-	-	<0.5	-	-	-	-	-	-	-	-	**1.1**	-	-
	4/5/2022	-	**0.71**	<0.5	<0.5	-	-	-	-	-	-	-	-	<0.5	-	**0.99**	<0.5	**1.1**	<0.5	<0.5	**0.58**	-	-	-	<0.5	-	-		-	-	-	-	-	**1.3**	-	-
POST-CLOSURE	11/2/2022	-	**0.83**	**1.1**	<0.5	-	-	-	-	-	-	-	-	**0.64**	-	**0.79**	<0.5	<0.5	<0.5	<0.5	<0.5	-	<0.5	-	<0.5	-	-	-	-	-	<0.5	<0.5	<0.5	**0.73**	-	-

See last page for notes.

TABLE 1
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

TKN (mg/L)

NH AGQS = NE
WQCTS = NE

	Sampling Date	Overburden Monitoring Wells																	Bedrock Monitoring Wells				Groundwater Seep Monitoring Stations			Surface Water Monitoring Stations									Leachate Monitoring Well
		RFW-1	RFW-2	RFW-3	RFW-4	GZ-1U	GZ-2	GZ-3	GZ-4	GZ-5	GZ-6	GZWP-1	GZ-102	GZ-104	GZ-106	GZ-201	GZ-202A	GMW-11RR	GZ-1L	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/ South Spring)	GZ-P-5R	SW-P-9 (P-9/1P-9R Northern Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	SW-15	SW-16	SW-17	Exeter River	MW-6
PRE-CLOSURE	5/27/1992	**0.5**	**0.5**	**1.2**	**8.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**150**
	11/12/1992	**0.665**	**0.904**	**0.477**	**7.50**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.425**	-	-	-	-	-	-	-	-	-
	4/6/1993	**2.09**	**1.39**	**1.39**	**7.65**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**1.39**	-	-	-	-	-	-	-	-	**207**
	7/1/1993	<1.0	<1.0	**24**	**10**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**9.1**	-	-	-	-	-	-	-	-	-
	11/5/1993	**0.164**	**0.164**	**0.789**	**8.24**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**2.2**	-	-	-	-	-	-	-	-	**213**
	4/14/1994	**0.393**	**0.241**	**1.24**	**7.08**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.685**	-	-	-	-	-	-	-	-	-
	7/15/1994	**0.317**	**0.099**	**0.404**	**6.47**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.343**	-	-	-	-	-	-	-	-	-
	8/30/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	9/6/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	10/11/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/23/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/2/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/12/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/28/1995	**1.64**	<1	**3.47**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-
	12/8/1995	**0.56**	**0.31**	**3.8**	**7.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**8.7**	-	-	-	-	-	-	-	-	-
	4/26/1996	<1	**0.24**	**2.5**	**1.3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.28**	-	-	-	-	-	-	-	-	-
	7/25/1996	**0.05**	**0.15**	**2.6**	**7.8**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**1.4**	-	-	-	-	-	-	-	-	-
	11/14/1996	-	**0.69**	**11**	**19**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.12**	-	**0.74**	**0.52**	-	-	-	-	-	-	-	-	-	-
	4/21/1997	-	**0.61**	**1.5**	**14**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.34**	-	**2.1**	**1.4**	-	-	-	-	-	-	-	-	-	-
	7/22/1997	**0.27**	**0.61**	**1.29**	**10.7**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**2.45**	-	**3.36**	**0.44**	-	-	-	-	-	-	-	-	-	-
	11/11/1997	**0.3**	**1.9**	**0.2**	**0.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.4**	-	**1.5**	**0.8**	-	-	-	-	-	-	-	-	-	-
	4/15/1998	<0.1	**0.95**	**1.5**	**2.7**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**1.5**	-	-	**1.1**	-	-	-	-	-	-	-	-	-	-
	7/6/1998	-	**1.8**	**1.4**	**2.9**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**3.2**	-	**4.3**	**0.3**	-	-	-	-	-	-	-	-	-	-
	11/16/1998	**2.2**	**0.27**	**1.8**	**6.3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.16**	-	**0.47**	**3.6**	-	-	-	-	-	-	-	-	-	-
	4/19/1999	<0.5	<0.5	**1.6**	**4.1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.6**	-	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-
	7/27/1999	<0.01	<0.01	**1.9**	**5.4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**1.3**	-	**1.5**	**0.8**	-	-	-	-	-	-	-	-	-	-
	11/18/1999	<0.5	<0.5	**5.3**	**4.3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	**2.4**	**2**	-	-	-	-	-	-	-	-	-	-
	5/5/2000	<0.5	<0.5	**2.7**	**5.4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	-	-
	7/7/2000	<0.5	<0.5	**3.5**	**3.4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.5**	-	**0.5**	<0.5	-	-	-	-	-	-	-	-	-	-
	11/16/2000	**1.3**	**0.5**	**2.5**	**3.6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**1**	-	**4.1**	**45.2**	-	-	-	-	-	-	-	-	-	-
	4/25/2001	**0.7**	ND	**1.8**	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**4**	-	**5**	**2.2**	-	-	-	-	-	-	-	-	-	-
	7/25/2001	**0.8**	<0.3	**1.1**	**4.3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**1**	-	**4**	**16**	-	-	-	-	-	-	-	-	-	-
	8/9/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/28/2001	**0.6**	**0.3**	**1.2**	**4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.4**	-	-	**77**	-	-	-	-	-	-	-	-	-	-
	1/17/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2002	**0.4**	**0.2**	**1.1**	**3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.8**	-	-	-	-	-	-	-	-	-	-
	11/20/2002	**0.4**	**0.5**	**1.3**	**3.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.8**	-	-	-	-	-	-	-	-	-	-
	4/29/2003	<0.3	<0.3	**1.2**	**3.8**	**0.4**	-	-	-	-	-	-	-	-	-	-	-	-	**1.1**	**0.5**	<0.3	-	**1.3**	-	**1.1**	<0.3	-	-	-	-	-	-	-	-	-	-
	11/17/2003	-	**0.7**	**1.2**	**2.6**	**1.1**	-	-	-	-	-	-	-	-	-	-	-	-	**1.1**	**3.1**	<0.3	-	-	-	**3.5**	**0.4**	-	-	-	-	-	-	-	-	-	-
	4/28/2004	-	**5.0**	**0.8**	**2.8**	**1.2**	-	-	-	-	-	**2.0**	-	-	-	-	-	-	**0.4**	**3.0**	<0.3	<0.3	**5.1**	**1.2**	**1.5**	**0.7**	-	-	-	-	-	-	-	-	-	-
	11/15/2004	-	**0.8**	**2.2**	**3.2**	**0.4**	-	-	-	-	-	**3.5**	-	-	-	-	-	-	<0.3	**0.8**	<0.3	-	**3.9**	<1.5	**2.5**	**1.2**	-	-	-	-	-	-	-	-	-	-
	4/28/2005	-	**0.8**	**0.5**	**1.9**	**0.4**	-	-	-	-	-	**1.5**	-	-	-	-	-	-	<0.3	**0.4**	<0.3	-	**4.3**	**0.4**	**1.8**	**0.7**	-	-	-	-	-	-	-	-	-	-
	11/8/2005	-	**0.5**	**0.5**	**6.2**	**0.4**	-	-	-	-	-	**1.7**	-	-	-	-	-	-	<0.3	**14.7**	**0.3**	-	**5.8**	**1.2**	**5.1**	**1.2**	-	-	-	-	-	-	-	-	-	-
	4/17/2006	-	**0.3**	**0.6**	**5.4**	**0.6**	-	-	-	-	-	**2.4**	-	-	-	-	-	-	**0.3**	**3.5**	**1.1**	-	**12.1**	**2.2**	**4.9**	**20.0**	-	-	-	-	-	-	-	-	-	-
	11/20/2006	-	**1.3**	**1.7**	**6.2**	<1	-	-	-	-	-	**2.2**	-	-	-	-	-	-	<1	**14**	**1.3**	-	**77**	**6.0**	**110**	<1	-	-	-	-	-	-	-	-	-	-
	5/2/2007	-	<0.5	**0.7**	**4**	<0.5	-	-	-	-	-	**3.9**	-	-	-	-	-	-	-	**1.5**	-	-	**36**	**2.1**	**7**	<0.5	-	-	-	-	-	-	-	-	<0.5	-
	11/14/2007	-	<0.5	<0.5	**3.9**	**0.5**	-	-	-	-	-	**1.3**	-	**0.6**	-	-	-	-	<0.5	<0.5	**1.0**	-	**17**	**2.1**	**7.1**	**1.4**	-	-	-	-	-	-	-	-	**1.0**	-
	4/25/2008	-	<0.5	**1.1**	**3.6**	**0.6**	-	-	-	-	-	**1.3**	-	-	-	-	-	-	-	<0.5	-	-	**1.9**	**0.9**	**0.8**	<0.5	-	-	-	-	<0.5	-	-	-	<0.5	-
	11/18/2008	-	<0.5	**0.6**	**6.1**	<0.5	-	-	-	-	-	**2.7**	-	**0.91**	-	-	-	-	<0.5	**2.8**	-	-	Dry	<0.5	**0.8 M**	<0.5	-	-	-	-	<0.5	-	-	-	-	-
	4/27/2009	-	<0.5	<0.5	**4.3**	**0.7**	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	<0.5	-	-	**4.0**	<0.5	**1.7**	**0.9**	-	-	-	-	<0.5	-	-	-	<0.5	-
	11/4/2009	-	<0.5	<0.5	**4.6**	<0.5	-	-	-	-	-	-	-	<0.5	-	-	-	-	<0.5	**1.3**	<0.5	-	**2.2**	<0.5	**1.6**	-	-	-	-	-	**0.7**	-	-	<0.5	<0.5	-
	4/20/2010	-	<0.5	**0.7**	**3.4**	**0.6**	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	**0.7**	-	-	**4.8**	<0.5	**0.9**	-	-	-	-	-	<0.5	-	-	<0.5	<0.5	-
	11/11/2010	-	**0.6**	<0.5	**4.0**	<0.5	-	-	-	-	-	-	-	<0.5	-	-	-	-	<0.5	**<0.5**	<0.5	-	**2.8**	<0.5	**1.9**	**-**	-	-	-	-	<0.5	-	-	<0.5	**0.6**	-
	4/22/2011	-	<0.5	<0.5	**1.8**	<0.5	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	<0.5	-	-	**2.9**	<0.5	**1.5**	-	-	-	-	-	<0.5	-	-	<0.5	<0.5	-
	11/14/2011	-	**0.5**	**0.8**	**2.9**	**0.6**	-	-	-	-	-	-	-	-	-	-	-	-	<0.5	**0.5**	<0.5	-	**2.9**	<0.5	**17**	-	-	-	-	-	<0.5	-	-	<0.5	<0.5	-
	4/30/2012	-	<0.5	**0.6**	**3.5**	<0.5	-	-	-	-	-	-	-	<0.5	-	-	-	-	-	<0.5	-	-	**3.2**	<0.5	**2.1**	-	-	-	-	-	<0.5	-	-	<0.5	<0.5	-
	11/5/2012	-	<0.5	**0.8**	**3.1**	**0.6**	-	-	-	-	-	-	-	**1.2**	-	<0.5	**3.7**	-	<0.5	**0.5**	-	-	**1.8**	<0.5	**2.2**	-	-	-	-	-	**0.7**	-	-	<0.5	**0.6**	-
	5/7/2013	-	-	-	-	-	-	-	-	-	-	**0.8**	**0.8**	-	<0.5	**1.8**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/19/2013	-	**5.8**	**1.1**	**2.2**	**1.6**	-	-	-	-	-	**0.5**	**2.0**	-	**0.6**	**1.4**	-	**0.8**	**0.7**	**0.7**	-	**2.0**	-	**1.8**	-	-	-	-	-	**-**	-	**1.3**	<0.5	-	-
	4/15/2014	-	**7.3**	<0.5	**2.1**	**0.9**	-	-	-	-	-	<0.5	**0.9**	<0.5	<0.5	**2.0**	-	<0.5	**0.5**	-	-	-	-	**2.2**	-	-	-	-	-	**-**	-	<0.5	**0.7**	-	-
	11/3/2014	-	**13**	**0.5**	**1.4**	**-**	-	-	-	-	-	<0.5	**1.3**	**0.6**	<0.5	**1.5**	-	<0.5	**3.9**	<0.5	-	-	-	**3.0**	-	-	-	-	-	**-**	-	<0.5	**0.7**	-	-
	4/6/2015	-	**8.9**	**0.5**	**3.9**	**-**	**-**	**-**	**-**	**-**	**-**	**-**	**1.2**	-	<0.5	**2.6**	-	<0.5	**1.2**	<0.5	-	-	-	**1.3**	-	-	-	-	-	-	-	<0.5	<0.5	-	-
	11/17/2015	-	**3.4**	**1.2**	**1.4**	-	-	-	-	-	-	-	**1.2**	-	<0.5	**2.6**	-	<0.5	**0.5**	<0.5	-	**2.7**	-	**1.5**	-	-	-	-	-	**0.7**	-	**0.5**	-	-	-
	4/14/2016	-	<0.5	<0.5	**2.3**	-	-	-	-	-	-	-	<0.5	-	<0.5	**1.8**	-	**0.6**	**0.6**	<0.5	-	-	-	**0.8**	-	-	-	-	-	-	-	**0.5**	-	-	-
	11/2/2016	-	**4.2**	**0.6**	**5.1**	-	-	-	-	-	-	-	**0.9**	-	<0.5	**0.9**	-	<0.5	**3.1**	<0.5	-	-	-	**2.4**	-	-	-	-	-	-	-	<0.5	-	-	-
	4/24/2017	-	<0.5	<0.5	**2.8**	-	-	-	-	-	-	-	<0.5	-	<0.5	**1.0**	-	<0.5	**0.8**	<0.5	-	-	-	**0.6**	-	-	-	-	-	-	-	**0.6**	-	-	-
	11/7/2017	-	<0.5	<0.5	**1.3**	-	-	-	-	-	-	-	**0.7**	-	<0.5	**0.9**	-	<0.5	**0.7**	<0.5	-	**1.3**	-	**1.3**	-	-	-	-	-	**1.2**	-	<0.5	-	-	-
	4/25/2018	-	<0.5	<0.5	**2.3**	-	-	-	-	-	-	-	<0.5	-	**0.54**	**1.3**	-	<0.5	<0.5	<0.5	-	-	-	<0.5	-	-	-	-	-	-	-	<0.5	-	-	-
	11/12/2018	-	<0.5	<0.5	**1.1**	-	-	-	-	-	-	-	<0.5	-	<0.5	**1.3**	-	<0.5	**0.69**	<0.5	-	**0.65**	-	**0.52**	-	-	-	-	-	**-**	-	<0.5	-	-	-
	4/24/2019	-	<0.5	<0.5	**2.3**	-	-	-	-	-	-	-	<0.5	-	<0.5	**1.3**	-	<0.5	**0.8**	<0.5	-	-	-	**2.0**	-	-	-	-	-	**-**	-	<0.5	-	-	-
	11/4/2019	-	<0.5	<0.5	**2.6**	-	-	-	-	-	-	<0.5	<0.5	<0.5	**0.7**	**1.3**	<0.5	<0.5	<0.5	<0.5	-	**1.4**	-	**0.9**	-	-	-	-	-	**1.1**	<0.5	<0.5	**0.5**	-	-
	4/16/2020	-	<0.5	**0.6**	**1.2**	-	-	-	-	-	-	-	<0.5	-	<0.5	**1.3**	<0.5	<0.5	<0.5	<0.5	-	-	-	**0.88**	-	-	-	-	-	-	-	<0.5	-	-	-
	11/5/2020	-	<0.5	<0.5	**1.5**	-	-	-	-	-	-	-	<0.5	-	<0.5	**0.83**	<0.5	**1.1**	**19**	<0.5	-	-	-	**0.63**	-	-	-	-	-	**-**	-	<0.5	-	-	-
	4/8/2021	-	**1.5**	<0.5	**1.1**	-	-	-	-	-	-	-	<0.5	-	<0.5	**1.6**	<0.5	<0.5	<0.5	<0.5	-	-	-	**2.0**	-	-	-	-	-	-	-	<0.5	-	-	-
	11/10/2021	-	**0.64**	<0.5	**1.9**	-	-	-	-	-	-	-	**0.87**	-	<0.5	**0.81**	<0.5	<0.5	**0.62**	<0.5	-	-	-	**2.6**	-	-	-	-	-	**-**	-	-	**1.7**	-	-
	4/5/2022	-	<0.5	**0.66**	**0.99**	-	-	-	-	-	-	-	**0.70**	-	**1.0**	**1.5**	**1.1**	**0.77**	**0.86**	**1.0**	-	-	-	**0.89**	-	-	-	-	-	-	-	-	**0.77**	-	-
	11/2/2022	-	<0.5	<0.5	**2.0**	-	-	-	-	-	-	-	<0.5	-	<0.5	**1.0**	<0.5	<0.5	**0.98**	<0.5	-	**1.8**	-	**1.5**	-	-	-	-	-	**0.59**	**0.65**	<0.5	<0.5	-	-

See last page for notes.

TABLE 1
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

1,4-Dioxane (mg/L)

NH AGQS = 0.32 µg/L
WQCTS (Water and Fish Ingestion) = NE

Sampling Date	Overburden Monitoring Wells																			Bedrock Monitoring Wells				Groundwater Seep Monitoring Stations			Surface Water Monitoring Stations												Leachate Monitoring Well
	RFW-1	RFW-2	RFW-3	RFW-4	GZ-1U	GZ-2	GZ-3	GZ-4	GZ-5	GZ-6	GZWP-1	GZ-102	GZ-103	GZ-104	GZ-105	GZ-106	GZ-107	GZ-201	GZ-202A	GMW-11RR	GZ-1L	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/1P-2R Southern Spring)	GZ-P-5R	SW-P-9 (P-9/1P-9R Northern Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	SW-14	SW-15	SW-16	SW-17	Exeter River	MW-6
4/27/2009	-	-	**1**	**6**	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	-	-	-	<1	-	-	**1**	-	**5**	-	-	-	-	-	-	-	-	-	-	-	-
11/4/2009	-	-	**1**	**4**	-	-	-	-	-	-	-	-	-	<1	-	-	-	-	-	-	-	<1	-	-	**1**	-	**2**	-	-	-	-	-	<1	-	-	-	<1	<1	-
4/20/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/11/2010	-	<1	**2**	**4**	<1	-	-	-	-	-	-	-	-	**1**	-	-	-	-	-	-	<1	<1	<1	-	**1**	<1	**3**	-	-	-	-	-	-	-	-	-	-	-	-
4/22/2011	-	<0.25	**1**	**1**	<0.25	-	-	-	-	-	-	-	-	**0.95**	-	-	-	-	-	-	-	<0.25	-	-	**0.58**	<0.25	**2**	-	-	-	-	-	-	-	-	-	-	-	-
11/4/2011	-	<0.25	**1.3**	**1.4**	<0.25	-	-	-	-	-	-	-	-	**1.6**	-	-	-	-	-	-	<0.25	<0.25	<0.25	-	**0.56**	<0.25	-	-	-	-	-	-	-	-	-	-	-	-	-
4/30/2012	-	**0.55**	**1.6**	**2.8**	<0.25	-	-	-	-	-	-	-	-	**0.83**	-	-	-	-	-	-	-	<0.25	-	-	**1.2**	**0.50**	-	-	-	-	-	-	-	-	-	-	-	-	-
11/5/2012	-	<0.25	**1.5**	**1.3**	<0.25	-	-	-	-	-	-	-	-	**1.7**	-	-	-	<0.25	**2.8**	-	<0.25	<0.25	-	-	**1.4**	**0.55**	**2.1**	-	-	-	-	-	<0.25	-	-	-	<0.25	<0.25	-
5/7/2013	-	-	-	-	-	-	-	-	-	-	-	**0.70**	-	**1.2**	-	-	-	<0.25	**2.4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/19/2013	-	<0.25	**0.25**	**1.1**	<0.25	-	-	-	-	-	-	**0.79**	-	**1.2**	-	-	-	<0.25	**2.0**	-	<0.25	<0.25	<0.25	-	-	-	**1.1**	-	-	-	-	-	-	-	-	**1.3**	<0.25	-	-
4/15/2014	-	-	-	-	-	-	-	-	-	-	-	<0.25	-	-	-	<0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.25	-	-	-
11/3/2014	-	-	-	-	-	-	-	-	-	-	-	**0.33**	-	-	-	**0.92**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.25	-	-	-
11/17/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**1.2**	-	-	-	-	-	-	<0.25	-	-	-	-	-	-	-
11/2/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/24/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/7/2017	-	<0.25	**2.2**	**3.2**	-	-	-	-	-	-	-	-	-	**0.71**	-	-	-	<0.25	**2.0**	-	<0.25	<0.25	<0.25	-	**1.4**	-	**1.4**	-	-	-	-	-	<0.25	-	-	-	**1.3**	-	-
4/25/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.70**	-	-	-	-
4/24/2019	-	<0.2	**2.1**	**4.2**	-	-	-	-	-	-	-	-	-	<0.2	-	-	-	<0.2	**5.3**	-	**0.44**	<0.2	<0.2	-	-	-	**1.8**	-	-	-	-	-	-	-	-	-	**0.73**	-	-
11/4/2019	-	<0.2	**2.0**	**2.9**	-	-	-	-	-	-	-	**0.89**	-	**1.4**	-	**1.2**	-	<0.2	**4.4**	<0.2	<0.2	<0.2	<0.2	-	**0.70**	-	**1.1**	-	-	-	-	-	<0.2	-	**1.0**	**1.3**	**0.81**	-	-
4/16/2020	-	<0.2	**0.9**	**0.81**	-	-	-	-	-	-	-	**0.79**	<0.2	**1.0**	<0.2	**0.9**	<0.2	<0.2	**1.8**	<0.2	<0.2	<0.2	<0.2	-	-	-	**0.53**	-	-	-	-	-	-	**0.81**	**0.78**	**0.52**	**0.42**	-	-
11/5/2020	-	<0.2	**1.5**	**1.5**	-	-	-	-	-	-	-	**1.0**	<0.2	**1.5**	<0.2	**2.0**	<0.2	<0.2	**2.1**	<0.2	<0.2	<0.2	<0.2	-	-	-	**1.1**	-	-	-	-	-	-	**1.2**	**1.6**	**1.6**	**1.9**	-	-
4/8/2021	-	<0.2	**0.78**	**0.68**	-	-	-	-	-	-	-	-	-	**0.98**	-	-	-	<0.2	**1.3**	<0.2	<0.2	<0.2	<0.2	-	-	-	**1.4**	-	-	-	-	-	-	-	-	-	**0.59**	-	-
11/10/2021	-	<0.2	**0.59**	**0.78**	-	-	-	-	-	-	-	-	-	**0.73**	<0.2	**0.20**	<0.2	<0.2	**0.96**	<0.2	<0.2	<0.2	<0.2	-	-	-	**0.83**	-	-	-	-	-	-	<0.2	**0.73**	-	**0.42**	-	-
4/5/2022	-	<0.2	**1.17**	**0.74**	-	-	-	-	-	-	-	-	-	**0.56**	-	-	-	<0.2	**1.43**	<0.2	<0.2	<0.2	<0.2	-	-	-	**1.13**	-	-	-	-	-	-	-	-	-	**0.48**	-	-
11/2/2022	-	<0.2	<0.2	**2.6**	-	-	-	-	-	-	-	-	-	**0.58**	<0.2	**2.6**	<0.2	<0.2	**1.5**	<0.2	<0.2	<0.2	<0.2	-	**0.70**	-	**1.5**	-	-	-	-	-	<0.2	-	<0.2	**0.83**	**0.33**	-	-

TABLE 1
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

Specific Conductance (mg/L)

NH AGQS = NE
WQCTS (Water and Fish Ingestion) = NE

Sampling Date	Overburden Monitoring Wells																			Bedrock Monitoring Wells				Groundwater Seep Monitoring Stations				Surface Water Monitoring Stations											Leachate Monitoring Well
	RFW-1	RFW-2	RFW-3	RFW-4	GZ-1U	GZ-2	GZ-3	GZ-4	GZ-5	GZ-6	GZWP-1	GZ-102	GZ-103	GZ-104	GZ-105	GZ-106	GZ-107	GZ-201	GZ-202A	GMW-11RR	GZ-1L	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/ Southern Spring)	SW-P-2 (P-2/1P-2R Southern Spring)	GW-P-5R	SW-P-9 (P-9/1P-9R Northern Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	SW-14	SW-15	SW-16	SW-17	Exeter River	MW-6
5/27/1992	150	370	910	1,400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	510	-	-	-	-	-	-	-	-	-	-	-	-	7,500
11/12/1992	130	347	858	1,270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	630	-	-	-	-	-	-	-	-	-	-
4/6/1993	180	340	699	855	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	148	-	-	-	-	-	-	-	-	-	6,790
7/1/1993	134	368	991	1,350	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	721	-	-	-	-	-	-	-	-	-	-
11/5/1993	136	352	943	1,310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	727	-	-	-	-	-	-	-	-	-	5,830
4/14/1994	69	350	710	958	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	280	-	-	-	-	-	-	-	-	-	-
7/15/1994	77	335	740	1,200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	665	-	-	-	-	-	-	-	-	-	-
11/18/1994	140	340	800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	800	-	-	-	-	-	-	-	-	-	-
7/22/1997	189	1,024	202	156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,274	1,107	-	166	-	-	-	-	-	-	-	-	-	-	-
7/22/1999	117	325	1,076	1,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	615	1,045	-	610	-	-	-	-	-	-	-	-	-	-	-
4/25/2001	261	327	887	847	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	314	274	-	371	-	-	-	-	-	-	-	-	-	-	-
7/25/2001	229	301	1,390	982	810	-	-	504	296	805	-	-	-	-	-	-	-	-	-	-	530	290	585	-	131	494	-	261	-	-	-	-	-	-	-	-	-	-	-
8/9/2001	-	-	-	-	662	-	-	435	225	-	-	-	-	-	-	-	-	-	-	-	603	769	279	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/28/2001	590	387	1,610	984	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	470	477	-	398	-	-	-	-	-	-	-	-	-	-	-
4/24/2002	266	349	912	940	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	307	-	-	-	-	-	-	-	-	-	-	-
11/20/2002	192	355	822	782	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	291	-	-	-	-	-	-	-	-	-	-	-
4/29/2003	535	94	1,003	431	346	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	586	696	224	-	259	573	-	140	-	-	-	-	-	-	-	-	-	-	-
11/17/2003	-	117	968	412	362	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	613	712	242	-	230	508	-	103	-	-	-	-	-	-	-	-	-	-	-
4/28/2004	-	542	1,017	760	405	-	-	-	-	-	936	-	-	-	-	-	-	-	-	-	596	553	382	342	-	247	270	762	-	-	-	-	-	-	-	-	-	-	-
11/15/2004	-	226	1,262	794	251	-	-	-	-	-	580	-	-	-	-	-	-	-	-	-	436	402	204	-	-	199	180	406	-	-	-	-	-	-	-	-	-	-	-
4/28/2005	-	558	1,093	717	390	-	-	-	-	-	909	-	-	-	-	-	-	-	-	-	559	561	366	-	-	240	235	723	-	-	-	-	-	-	-	-	-	-	-
11/8/2005	-	268	1,330	905	554	-	-	-	-	-	855	-	-	-	-	-	-	-	-	-	623	711	284	-	-	265	397	581	-	-	-	-	-	-	-	-	-	-	-
4/17/2006	-	205	1,231	606	301	-	-	-	-	-	548	-	-	-	-	-	-	-	-	-	393	324	218	-	-	170	255	464	320	-	-	-	-	-	-	-	-	-	-	-
11/20/2006	-	274	796	756	1,050	-	-	-	-	-	718	-	-	-	-	-	-	-	-	-	582	308	257	-	-	197	363	442	113	-	-	-	-	-	-	-	-	-	-	-
5/2/2007	-	358	603	707	508	-	-	-	-	-	121	-	-	-	-	-	-	-	-	-	-	627	-	-	-	308	363	517	347	-	-	-	-	-	-	-	-	-	119	-
11/14/2007	-	303	633	715	510	-	-	-	-	-	975	-	-	-	-	-	-	-	-	-	525	605	229	-	-	217	344	485	208	-	-	-	-	-	-	-	-	-	97	-
4/25/2008	-	367	681	856	700	-	-	-	-	-	913	-	-	-	-	-	-	-	-	-	-	668	-	-	-	325	246	517	257	-	-	-	-	165	-	-	-	-	155	-
11/18/2008	-	341	634	871	765	-	-	-	-	-	-	-	-	417	-	-	-	-	-	-	487	677	-	-	-	-	255	492	249	-	-	-	-	137	-	-	-	-	131	-
4/27/2009	-	367	636	835	712	-	-	-	-	-	938	-	-	-	-	-	-	-	-	-	-	625	-	-	-	317	226	502	117	-	-	-	-	131	-	-	-	248	130	-
11/4/2009	-	350	1,062	1,070	338	-	-	-	-	-	-	-	-	607	-	-	-	-	-	-	668	554	217	-	-	330	264	481	-	-	-	-	114	-	-	-	262	106	-
4/20/2010	-	347	1,071	1,019	321	-	-	-	-	-	-	-	-	618	-	-	-	-	-	-	-	568	-	-	-	322	249	446	-	-	-	-	105	-	-	-	250	93	-
11/11/2010	-	344	1,138	1,048	322	-	-	-	-	-	-	-	-	592	-	-	-	-	-	-	683	561	202	-	-	338	246	456	-	-	-	-	119	-	-	-	240	98	-
4/22/2011	-	339	1033	987	337	-	-	-	-	-	-	-	-	641	-	-	-	-	-	-	-	554	-	-	-	308	228	461	-	-	-	-	96	-	-	-	227	67	-
11/14/2011	-	267	628	692	416	-	-	-	-	-	-	-	-	568	-	-	-	-	-	-	515	626	214	-	-	304	234	422	-	-	-	-	174	-	-	-	212	151	-
4/30/2012	-	290	918	844	301	-	-	-	-	-	-	-	-	509	-	-	-	-	-	-	-	500	-	-	-	288	251	426	-	-	-	-	133	-	-	-	71	92	-
11/5/2012	-	248	467	703	286	-	-	-	-	-	-	-	-	546	-	-	-	421	649	-	446	500	228	-	-	231	212	408	-	-	-	-	151	-	-	-	88	100	-
5/7/2013	-	-	-	-	-	-	-	-	-	-	559	-	579	-	-	-	-	449	691	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/19/2013	-	346	880	808	595	-	-	-	-	-	-	614	-	588	-	-	-	578	570	-	605	819	221	-	-	339	-	498	-	-	-	-	-	-	-	-	496	520	-	-
11/3/2014	-	344	612	786	-	-	-	-	-	-	547	-	688	-	329	-	676	610	-	583	839	241	-	-	-	-	577	-	-	-	-	-	-	-	-	528	510	-	-
4/6/2015	-	306	482	786	-	-	-	-	-	-	-	-	571	-	-	-	828	629	-	571	897	834	-	-	-	-	275	-	-	-	-	-	-	-	-	712	478	-	-
11/17/2015	-	235	469	537	-	-	-	-	-	-	-	-	495	-	-	-	625	482	-	404	239	155	-	-	239	-	410	-	-	-	-	-	167	-	-	-	345	-	-
4/14/2016	-	211	381	537	-	-	-	-	-	-	-	-	543	-	-	-	543	411	-	452	698	195.7	-	-	-	-	292	-	-	-	-	-	-	-	-	-	407	-	-
11/2/2016	-	277	435	632	-	-	-	-	-	-	-	-	538	-	-	-	762	383	-	490	518	190	-	-	-	-	518	-	-	-	-	-	-	-	-	-	392	-	-
4/24/2017	-	374	620	623	-	-	-	-	-	-	-	-	628	-	-	-	738	546	-	628	4,160	172.7	-	-	-	-	473	-	-	-	-	-	-	-	-	-	529	-	-
11/7/2017	-	288	632	828	-	-	-	-	-	-	-	-	600	-	-	-	929	535	-	617	1,058	236	-	-	369	-	636	-	-	-	-	-	374	-	-	-	494	-	-
4/25/2018	-	429	518	836	-	-	-	-	-	-	-	-	235	-	-	-	832	601	-	699	4,140	271	-	-	-	-	527	-	-	-	-	-	-	-	570	-	454	-	-
11/12/2018	-	346	412	777	-	-	-	-	-	-	-	-	433	-	-	-	782	508	-	524	546	215	-	-	194.1	-	181.2	-	-	-	-	-	-	-	-	-	518	-	-
4/24/2019	-	579	708	919	-	-	-	-	-	-	-	-	111	-	-	-	650	667	-	561	1,085	268	-	-	-	-	306	-	-	-	-	-	-	-	-	-	570	-	-
11/4/2019	-	360	575	735	-	-	-	-	-	-	-	619	-	552	-	539	-	599	521	513	541	398	349	-	-	294	-	614	-	-	-	-	-	198	-	536	575	547	-	-
4/16/2020	-	242	278	418	-	-	-	-	-	-	-	428	47	176	286	239	311	492	310	211	375	2,815	145	-	-	-	-	184	-	-	-	-	-	-	229	338	410	345	-	-
11/5/2020	-	393	447	652	-	-	-	-	-	-	-	496	142	679	497	546	450	655	536	443	535	2,134	280	-	-	-	-	548	-	-	-	-	-	-	518	520	583	524	-	-
4/8/2021	-	293	438	463	-	-	-	-	-	-	-	-	-	464	-	-	-	588	335	192	443	2,465	223	-	-	-	-	359	-	-	-	-	-	-	-	-	-	388	-	-
11/10/2021	-	429	558	622	-	-	-	-	-	-	-	-	-	688	514.0	280	519	863	530	222	584	3,557	242	-	-	-	-	572	-	-	-	-	-	-	158	507	-	493	-	-
4/5/2022	-	925	503	640	-	-	-	-	-	-	-	-	-	664	-	-	-	807	609	197	634	3,521	249	-	-	-	-	545	-	-	-	-	-	-	-	-	-	473	-	-
11/2/2022	-	483.8	717	789	-	-	-	-	-	-	-	-	-	790	564.0	575	677	894	567	302	643	2,485	301.6	-	-	293.4	-	761	-	-	290	292.9	-	282.3	375.6	309.7	633	515	-	-

TABLE 1
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

DO (mg/L)

NH AGQS = NE
WQCTS (Water and Fish Ingestion) = NE

Sampling Date	Overburden Monitoring Wells																			Bedrock Monitoring Wells				Groundwater Seep Monitoring Stations				Surface Water Monitoring Stations											Leachate Monitoring Well
	RFW-1	RFW-2	RFW-3	RFW-4	GZ-1U	GZ-2	GZ-3	GZ-4	GZ-5	GZ-6	GZWP-1	GZ-102	GZ-103	GZ-104	GZ-105	GZ-106	GZ-107	GZ-201	GZ-202A	GMW-11RR	GZ-1L	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/ South Spring)	SW-P-2 (P-2/1P-2R Southern Spring)	GW-P-5R	SW-P-9 (P-9/1P-9R Northern Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	SW-14	SW-15	SW-16	SW-17	Exeter River	MW-6
4/16/2020	-	3.60	2.95	2.71	-	-	-	-	-	-	-	5.6	10.46	6.80	9.35	5.25	8.85	3.88	2.78	7.65	7.25	10.40	4.20	-	-	-	-	5.01	-	-	-	-	-	-	9.94	9.59	9.34	9.22	-	-
11/5/2020	-	2.54	2.72	2.50	-	-	-	-	-	-	-	8.77	10.75	7.15	8.62	7.17	8.22	3.28	2.27	7.14	3.30	5.02	4.46	-	-	-	-	3.64	-	-	-	-	-	-	9.08	8.6	7.23	5.81	-	-
11/10/2021	-	3.77	4.32	1.99	-	-	-	-	-	-	-	-	-	4.16	8.82	9.78	7.6	2.97	7.07	7.49	6.71	9.41	4.40	-	-	-	-	1.48	-	-	-	-	-	-	10.96	9.47	-	7.85	-	-
4/5/2022	-	4.80	4.28	2.93	-	-	-	-	-	-	-	-	-	6.02	-	-	-	5.00	6.75	8.66	5.88	12.21	6.37	-	-	-	-	1.93	-	-	-	-	-	-	-	-	-	11.11	-	-
11/2/2022	-	3.03	5.36	1.93	-	-	-	-	-	-	-	-	-	5.35	8.38	9.41	7.31	5.07	2.92	5.65	4.49	16.05	4.24	-	-	0.38	-	0.30	-	-	4.38	9.98	-	3.32	8.36	10.75	8.93	9.03	-	-

See last page for notes.

TABLE 1
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

ORP (mg/L)

NH AGQS = NE
WQCTS (Water and Fish Ingestion) = NE

Sampling Date	Overburden Monitoring Wells																				Bedrock Monitoring Wells				Groundwater Seep Monitoring Stations				Surface Water Monitoring Stations											Leachate Monitoring Well
	RFW-1	RFW-2	RFW-3	RFW-4	GZ-1U	GZ-2	GZ-3	GZ-4	GZ-5	GZ-6	GZWP-1	GZ-102	GZ-103	GZ-104	GZ-105	GZ-106	GZ-107	GZ-201	GZ-202A	GMW-11RR	GZ-1L	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/ South Spring)	SW-P-2 (P-2/1P-2R Southern Spring)	GW-P-5R	SW-P-9 (P-9/1P-9R Northern Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	SW-14	SW-15	SW-16	SW-17	Exeter River	MW-6
4/16/2020	-	67.6	241.6	3.2	-	-	-	-	-	-	-	323.3	339.0	313.3	319.5	337.4	245.1	196.4	196.4	208.0	68.9	-9.1	82.9	-	-	-	-	-15.2	-	-	-	-	-	-	245.1	253.0	318.8	328.6	-	-
11/5/2020	-	153.7	68.1	-36.9	-	-	-	-	-	-	-	129.9	135.4	-12.6	161.3	62.3	97.4	144.8	-66.4	188.0	-62.8	-174.6	158.1	-	-	-	-	-44.9	-	-	-	-	-	-	47.2	56.6	60.5	59.7	-	-
11/10/2021	-	65.4	69.3	-50.1	-	-	-	-	-	-	-	-	-	40.4	83.9	68.3	51.1	69.4	18.7	10.7	-16.2	-139.7	14.3	-	-	-	-	-35.0	-	-	-	-	-	-	74.6	54.0	-	68.2	-	-
4/5/2022	-	70.9	36.4	-44.5	-	-	-	-	-	-	-	-	-	9.4	-	-	-	105.5	-57.2	88.8	-63.0	-131.7	-6.8	-	-	-	-	-21.3	-	-	-	-	-	-	-	-	-	33.6	-	-
11/2/2022	-	56.9	170.0	-6.9	-	-	-	-	-	-	-	-	-	104.5	153.9	166.7	202.9	211.4	-14.0	233.6	254.4	-134.7	-30.4	-	-	-22.8	-	-111.7	-	-	72.1	90.3	-	-28.7	93.2	26.2	183.7	136.3	-	-

See last page for notes.

TABLE 1
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

Barium (mg/L)

NH AGQS= 2 mg/L
WQCTS (Water and Fish Ingestion) = 1.0 mg/L

	Sampling Date	Overburden Monitoring Wells																	Bedrock Monitoring Wells				Groundwater Seep Monitoring Stations			Surface Water Monitoring Stations									Leachate Monitoring Well
		RFW-1	RFW-2	RFW-3	RFW-4	GZ-1U	GZ-2	GZ-3	GZ-4	GZ-5	GZ-6	GZWP-1	GZ-102	GZ-104	GZ-106	GZ-201	GZ-202A	GMW-11RR	GZ-1L	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/1P-2R Southern Spring)	GZ-P-5R	SW-P-9 (P-9/1P-9R Northern Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	SW-15	SW-16	SW-17	Exeter River	MW-6
PRE-CLOSURE	5/27/1992	<0.1	**0.2**	**0.1**	**0.4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.2**
	11/12/1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/6/1993	<0.1	**1.2**	<0.1	**1.1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	**0.7**
	7/1/1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/5/1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/14/1994	**0.015**	**0.034**	**0.105**	**0.256**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.043**	-	-	-	-	-	-	-
	7/15/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/30/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**1.8**
	9/6/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**11.8**
	10/11/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**2.3**
	11/18/1994	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-
	12/23/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2/2/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**1.2**
	4/12/1995	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	**0.6**
	7/28/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/8/1995	<0.4	<0.4	<0.4	**0.56**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.027**	-	-	-	-	-	-	<0.5
	4/26/1996	<0.4	<0.4	<0.4	<0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.9**	-	-	-	-	-	-	**0.7**
	7/25/1996	**0.025**	**0.036**	**0.1**	**0.21**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.1**	-	-	-	-	-	-	-
	11/14/1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/21/1997	-	**0.046**	**0.13**	**0.23**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.009**	-	**0.024**	**0.008**	-	-	-	-	-	-	-	-
	7/22/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/11/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POST-CLOSURE	4/15/1998	**0.006**	**0.016**	**0.094**	**0.14**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.42**	-	-	**0.01**	-	-	-	-	-	-	-	-
	7/6/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/16/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/19/1999	**0.007**	**0.013**	**0.11**	**0.14**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.011**	-	**0.064**	**0.071**	-	-	-	-	-	-	-	-
	7/27/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5/5/2000	**0.014**	**0.013**	**0.096**	**0.14**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.009**	-	-	-	-	-	-	-	-
	7/7/2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/16/2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/25/2001	**0.01**	**0.016**	**0.081**	**0.15**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.11**	-	**0.027**	**0.023**	-	-	-	-	-	-	-	-
	7/25/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/9/2001	-	-	-	-	**0.0418**	-	-	-	-	-	-	-	-	-	-	-	-	**0.061**	**0.11**	**0.012**	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/28/2001	<0.01	<0.01	**0.09**	**0.1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	**1.9**	-	-	-	-	-	-	-	-
	1/17/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2002	<0.03	<0.03	**0.12**	**0.14**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.03	-	-	-	-	-	-	-	-
	11/20/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/29/2003	<0.005	<0.005	**0.12**	**0.15**	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	**0.12**	<0.05	-	<0.05	-	<0.05	<0.05	-	-	-	-	-	-	-	-
	11/17/2003	-	<0.005	**0.08**	**0.12**	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	**0.1**	<0.05	-	-	-	<0.05	<0.05	-	-	-	-	-	-	-	-
	4/28/2004	-	<0.05	**0.09**	**0.17**	<0.05	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	**0.05**	<0.05	<0.05	-	-	-	-	-	-	-	-
	11/15/2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/28/2005	-	<0.05	**0.14**	**0.13**	<0.05	-	-	-	-	-	0.06	-	-	-	-	-	-	<0.05	**0.1**	<0.05	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-
	11/8/2005	-	<0.05	**0.14**	**0.17**	<0.05	-	-	-	-	-	**0.07**	-	-	-	-	-	-	<0.05	**0.09**	<0.05	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-
	4/17/2006	-	<0.05	**0.10**	**0.15**	<0.05	-	-	-	-	-	**0.05**	-	-	-	-	-	-	<0.05	**0.08**	<0.05	-	<0.05	<0.05	<0.05	**2.3**	-	-	-	-	-	-	-	-
	11/20/2006	-	<0.05	**0.09**	**0.11**	**0.06**	-	-	-	-	-	**0.05**	-	-	-	-	-	-	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-
	5/2/2007	-	<0.05	**0.11**	**0.11**	<0.05	-	-	-	-	-	**0.06**	-	-	-	-	-	-	-	**0.06**	-	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	<0.05	-
	11/14/2007	-	<0.05	**0.13**	**0.12**	<0.05	-	-	-	-	-	**0.06**	-	**0.052**	-	-	-	-	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	<0.05	-
	4/25/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/2008	-	<0.05	**0.12**	**0.17**	<0.05	-	-	-	-	-	Dry	-	**0.014**	-	-	-	-	<0.05	<0.05	-	-	Dry	<0.05	<0.05	-	-	-	-	-	<0.05	-	-	<0.05	-
	11/4/2009	-	**0.027**	**0.11**	**0.16**	**0.015**	-	-	-	-	-	-	-	**0.019**	-	-	-	-	**0.022**	**0.038**	**0.007**	-	**0.010**	**0.005**	**0.017**	-	-	-	-	-	**0.011**	-	-	**0.15**	**0.011**	-
	4/20/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/11/2010	-	**0.022**	**0.077**	**0.13**	**0.019**	-	-	-	-	-	-	-	**0.025**	-	-	-	-	**0.020**	**0.027**	**0.008**	-	**0.011**	**0.005**	**0.028**	-	-	-	-	-	**0.018**	-	-	**0.039**	**0.017**	-
	4/22/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/14/2011	-	**0.023**	**0.069**	**0.11**	**0.027**	-	-	-	-	-	-	-	**0.021**	-	-	-	-	**0.019**	**0.025**	**0.006**	-	**0.020**	**0.006**	**0.025**	-	-	-	-	-	**0.007**	-	-	**0.031**	0.011	-
	4/30/2012	-	**0.024**	**0.068**	**0.13**	**0.022**	-	-	-	-	-	-	-	**0.035**	-	-	-	-	-	**0.018**	-	-	**0.009**	**0.005**	**0.011**	-	-	-	-	-	**0.008**	-	-	**0.032**	**0.010**	-
	11/5/2012	-	**0.030**	**0.062**	**0.12**	**0.021**	-	-	-	-	-	-	-	**0.034**	-	**0.075**	**0.080**	-	**0.020**	**0.026**	-	-	**0.013**	**0.005**	**0.027**	-	-	-	-	-	**0.025**	-	-	**0.075**	**0.014**	-
	5/7/2013	-	-	-	-	-	-	-	-	-	-	-	**0.030**	**0.039**	-	**0.043**	**0.093**	-	-	-	-	-	-	-	-	-	-	-	-	-	**-**	-	-	-	-	-
	12/19/2013	-	**0.018**	**0.093**	**0.080**	**0.026**	-	-	-	-	-	-	**0.019**	**0.029**	-	**0.077**	**0.065**	-	**0.019**	**0.048**	**0.012**	-	**0.058**	**-**	**0.016**	-	-	-	-	-	**-**	-	**0.021**	**0.035**	-	-
	4/15/2014	-	-	-	-	-	-	-	-	-	-	-	**0.005**	-	**0.005**	-	-	-	-	-	-	-	-	**-**	-	-	-	-	-	-	**-**	-	**0.071**	-	-	-
	11/3/2014	-	-	-	-	-	-	-	-	-	-	-	**0.010**	-	**0.031**	-	-	-	-	-	-	-	-	**-**	-	-	-	-	-	-	**-**	-	**0.026**	-	-	-
	4/6/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/17/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.27**	-	-	-	-	-	-	0.011	-	-	-	-	-
	4/14/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/2/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/7/2017	-	**0.024**	**0.065**	**0.15**	-	-	-	-	-	-	-	-	**0.041**	-	**0.23**	**0.069**	-	**0.028**	**0.064**	**0.055**	-	**0.49**	-	**0.082**	-	-	-	-	-	**0.033**	-	-	**0.022**	-	-
	4/25/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/4/2019	-	-	-	-	-	-	-	-	-	-	-	**0.014**	-	**0.046**	-	-	-	-	-	-	-	**0.019**	-	-	-	-	-	-	**0.023**	**0.018**	**0.039**	-	-	-
	4/16/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/5/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/8/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/10/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

Barium (mg/L)

WQCTS (Water and Fish Ingestion) = 1.0 mg/L

Sampling Date	Overburden Monitoring Wells																	Bedrock Monitoring Wells				Groundwater Seep Monitoring Stations			Surface Water Monitoring Stations										Leachate Monitoring Well
	RFW-1	RFW-2	RFW-3	RFW-4	GZ-1U	GZ-2	GZ-3	GZ-4	GZ-5	GZ-6	GZWP-1	GZ-102	GZ-104	GZ-106	GZ-201	GZ-202A	GMW-11RR	GZ-1L	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/1P-2R Southern Spring)	GZ-P-5R	SW-P-9 (P-9/1P-9R Northern Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	SW-15	SW-16	SW-17	Exeter River	MW-6
4/5/2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/2/2022	-	**0.033**	**0.074**	**0.11**	-	-	-	-	-	-	-	-	**0.030**	-	**0.077**	**0.060**	**0.030**	**0.014**	**0.061**	**0.021**	-	**0.49**	-	**0.043**	-	-	-	-	-	**0.016**	**0.022**	**0.056**	**0.023**	-	-

See last page for notes.

TABLE 1
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

Cadmium (mg/L)

NH AGQS = 0.005 mg/L
WQCTS (Protection of Aquatic Life - Fresh Water Acute) = 0.21 ug/L

	Sampling	Overburden Monitoring Wells																	Bedrock				Groundwater Seep Monitoring Stations			Surface Water Monitoring Stations										Leachate Monitoring Well
		RFW-1	RFW-2	RFW-3	RFW-4	GZ-1U	GZ-2	GZ-3	GZ-4	GZ-5	GZ-6	GZWP-1	GZ-102	GZ-104	GZ-106	GZ-201	GZ-202A	GMW-11RR	GZ-1L	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/1P-2R Southern Spring)	GW-P-5R	SW-P-9 (P-9/1P-9R Northern Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	SW-15	SW-16	SW-17	Exeter River	MW-6
PRE-CLOSURE	5/27/1992	<0.005	**0.007**	<0.005	**0.007**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	-	-	-	-	<0.005
	11/12/1992	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-
	4/6/1993	**0.01**	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	-	-	-	<0.005
	7/1/1993	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-
	11/5/1993	**0.02**	**0.02**	**0.02**	**0.02**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.01**	-	-	-	-	-	-	-	-	**0.02**
	4/14/1994	**0.015**	<0.01	<0.01	**0.029**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.016**	-	-	-	-	-	-	-	-	-
	7/15/1994	<0.01	<0.01	**0.017**	**0.028**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-
	8/30/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.014**
	9/6/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.022**
	10/11/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.011**
	11/18/1994	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	-	-	-	-
	12/23/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005
	2/2/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005
	4/12/1995	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	-	-	-	<0.005
	7/28/1995	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	**0.7**
	12/8/1995	<0.004	<0.004	<0.004	<0.004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.004	-	-	-	-	-	-	-	-	<0.004
	4/26/1996	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	-	-	-	<0.005
	7/25/1996	<0.002	<0.002	<0.002	<0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002	-	-	-	-	-	-	-	-	-
	11/14/1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POST-CLOSURE	4/21/1997	-	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	<0.001	<0.001	-	-	-	-	-	-	-	-	-
	7/22/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/11/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/15/1998	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	-	<0.001	-	-	-	-	-	-	-	-	-
	7/6/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/16/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/19/1999	<0.001	<0.001	**0.002**	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.007**	-	**0.012**	<0.001	-	-	-	-	-	-	-	-	-
	7/27/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5/5/2000	<0.001	<0.001	**0.002**	**0.001**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	-	-	-	-	-	-	-	-
	7/7/2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/16/2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/25/2001	<0.001	<0.001	<0.001	**0.0016**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.0078**	-	**0.0042**	**0.0022**	-	-	-	-	-	-	-	-	-
	7/25/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/9/2001	-	-	-	-	<0.004	-	-	-	-	-	-	-	-	-	-	-	-	<0.004	<0.004	<0.004	-	-	-	-		-	-	-	-	-	-	-	-	-
	11/28/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1/17/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2002	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.005**	-	-	-	-	-	-	-	-	-
	11/20/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/29/2003	<0.005	**0.01**	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-	-	-	-
	11/17/2003	-	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	-	-	-	<0.005	<0.005	-	-	-	-	-	-	-	-	-
	4/28/2004	-	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	<0.005	-	-	-	-	-	-	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-
	11/15/2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/28/2005	-	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	<0.005	-	-	-	-	-	-	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-
	11/8/2005	-	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	<0.005	-	-	-	-	-	-	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-
	4/17/2006	-	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	<0.005	-	-	-	-	-	-	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-
	11/20/2006	-	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	<0.005	-	-	-	-	-	-	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-
	5/2/2007	-	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	<0.005	-	-	-	-	-	-	-	<0.005	-	-	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	<0.005	-
	11/14/2007	-	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	<0.005	-	-	-	-	-	-	<0.005	<0.005	<0.005	-	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	<0.005	-
	4/25/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
	11/18/2008	-	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	Dry	-	<0.005	-	-	-	-	<0.005	<0.005	-	-	Dry	<0.005	<0.005	-	-	-	-	-	<0.005	-	-	-	<0.005	-
	11/4/2009	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	<0.001	-
	4/20/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/11/2010	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	-	-	-	-	**0.010**	-	-	<0.001	<0.001	-
	4/22/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/14/2011	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	<0.001	-
	4/30/2012	-	<0.001	<0.001	<0.001	**0.006**	-	-	-	-	-	-	-	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	<0.001	-
	11/5/2012	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	-	<0.001	<0.001	-	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	<0.001	-
	5/7/2013	-	-	-	-	-	-	-	-	-	-	-	<0.001	<0.001	-	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/19/2013	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	<0.001	<0.001	-	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	-	-	-	-	-	-	-	<0.001	<0.001	-	-
	4/15/2014	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	-	-
	11/3/2014	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	-	-
	4/6/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/17/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	-	-
	4/14/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/2/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/7/2017	-	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	<0.001	-	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	-	-
	4/25/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/4/2019	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	-	-	-	-	<0.001	<0.001	<0.001	-	-	-

TABLE 1
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

Cadmium (mg/L)

NH AGQS = 0.005 mg/L
WQCTS (Protection of Aquatic Life - Fresh Water Acute) = 0.21 ug/L

Sampling	Overburden Monitoring Wells																	Bedrock				Groundwater Seep Monitoring Stations			Surface Water Monitoring Stations									Leachate Monitoring Well
	RFW-1	RFW-2	RFW-3	RFW-4	GZ-1U	GZ-2	GZ-3	GZ-4	GZ-5	GZ-6	GZWP-1	GZ-102	GZ-104	GZ-106	GZ-201	GZ-202A	GMW-11RR	GZ-1L	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/1P-2R Southern Spring)	GW-P-5R	SW-P-9 (P-9/1P-9R Northern Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	SW-15	SW-16	SW-17	Exeter River	MW-6
4/16/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/5/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/8/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/10/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/5/2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/2/2022	-	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	-	-

See last page for notes.

TABLE 1
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

Chromium (mg/L)

NH AGQS= 0.10 mg/L
WQCTS (Water and Fish Ingestion) = NE

Sampling Date	Overburden	Bedrock Monitoring Wells																				Groundwater Seep Monitoring Stations			Surface Water Monitoring Stations										Leachate Monitoring Well
	RFW-1	RFW-2	RFW-3	RFW-4	GZ-1U	GZ-2	GZ-3	GZ-4	GZ-5	GZ-6	GZWP-1	GZ-102	GZ-104	GZ-106	GZ-201	GZ-202A	GZ-1L	GMW-11RR	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/1P-2R Southern Spring)	GZ-P-5R	SW-P-9 (P-9/1P-9R Northern Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	SW-15	SW-16	SW-17	Exeter River	MW-6
5/27/1992	**0.01**	**0.1**	**0.04**	**0.07**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-	**0.06**
11/12/1992	**0.1**	<0.01	**0.02**	**0.03**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.01**	-	-	-	-	-	-	-	-	-
4/6/1993	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	**0.08**
7/1/1993	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-
11/5/1993	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	<0.05
4/14/1994	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-
7/15/1994	<0.01	<0.01	**0.016**	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-
8/30/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.08**
9/6/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.16**
10/11/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
11/18/1994	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-
12/23/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01
2/2/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
4/12/1995	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	<0.1
7/28/1995	<0.1	<0.1	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	-	-	-	-	-	-	-	<0.1
12/8/1995	<0.03	<0.03	<0.03	<0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.03	-	-	-	-	-	-	-	-	**0.018**
4/26/1996	<0.03	<0.03	<0.03	**0.04**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.03	-	-	-	-	-	-	-	-	<0.03
7/25/1996	<0.004	<0.004	<0.004	<0.004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.004	-	-	-	-	-	-	-	-	-
11/14/1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/21/1997	-	<0.004	<0.004	<0.004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.004	-	<0.004	<0.004	-	-	-	-	-	-	-	-	-	-
7/22/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/11/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/15/1998	<0.004	<0.004	<0.004	<0.004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.004	-	-	<0.004	-	-	-	-	-	-	-	-	-	-
7/6/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/16/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/19/1999	<0.004	<0.004	<0.004	<0.004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.004	-	<0.004	<0.004	-	-	-	-	-	-	-	-	-	-
7/27/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/18/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/5/2000	<0.004	<0.004	0.008	0.009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.004	-	-	-	-	-	-	-	-	-	-
7/7/2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/16/2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/25/2001	<0.004	<0.004	<0.004	**0.006**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.012**	-	**0.0045**	<0.004	-	-	-	-	-	-	-	-	-	-
7/25/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/9/2001	-	-	-	-	<0.004	-	-	-	-	-	-	-	-	-	-	-	<0.004	<0.004	<0.004	<0.004	-		-		-	-	-	-	-	-	-	-	-	-	-
11/28/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/17/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/24/2002	<0.01	<0.01	<0.01	**0.01**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-	-
11/20/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/29/2003	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
11/17/2003	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	-	-	-	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
4/28/2004	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	<0.05	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
11/15/2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/28/2005	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	<0.05	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
11/8/2005	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	<0.05	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
4/17/2006	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	<0.05	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	**0.26**	-	-	-	-	-	-	-	-	-	-
11/20/2006	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	<0.05	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
5/2/2007	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	<0.05	-
11/14/2007	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	<0.05	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	<0.05	-
4/25/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/18/2008	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	Dry	-	<0.002	-	-	-	<0.05	<0.05	<0.05	-	-	Dry	<0.05	<0.05	-	-	-	-	-	<0.05	-	-	-	<0.05	-
11/4/2009	-	<0.001	**0.002**	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	-	**0.007**	<0.001	-
4/20/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/11/2010	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	-	-	-	-	**0.001**	-	-	<0.001	<0.001	-
4/22/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/14/2011	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	<0.001	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	<0.001	-
4/30/2012	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	-	-	**0.001**	-	-	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	<0.001	-
11/5/2012	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	-	-	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	-	**0.002**	<0.001	-
5/7/2013	-	-	-	-	-	-	-	-	-	-	-	**0.008**	<0.001	-	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/19/2013	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	<0.001	<0.001	-	**0.011**	<0.001	<0.001	-	<0.001	<0.001	-	**0.002**	-	<0.001	-	-	-	-	-	-	-	<0.001	<0.001	-	-
4/15/2014	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.003**	-	-	-
11/3/2014	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	-	-
4/6/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/17/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.01	-	-	-	-	-	-	-	<0.001	-	-	-	-	-
4/14/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/2/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/24/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/7/2017	-	<0.001	<0.001	**0.003**	-	-	-	-	-	-	-	-	<0.001	-	**0.017**	<0.001	**0.003**	-	<0.001	**0.017**	-	**0.008**	-	**0.002**	-	-	-	-	-	<0.001	-	-	<0.001	-	-
4/25/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/24/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/4/2019	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	-	-	-	-	**0.0010**	<0.001	<0.001	-	-	-
4/16/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/5/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/8/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/10/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/5/2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/2/2022	-	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	**0.042**	**0.0025**	-	**0.11**	-	<0.001	-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	-	-

See last page for notes.

TABLE 1
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

Lead (mg/L)

NH AGQS = 0.015 mg/L
WQCTS (Water and Fish Ingestion) = NE

	Sampling Date	Overburden Monitoring Wells																	Bedrock Monitoring Wells				Groundwater Seep Monitoring Stations			Surface Water Monitoring Stations									Leachate Monitoring Well
		RFW-1	RFW-2	RFW-3	RFW-4	GZ-1U	GZ-2	GZ-3	GZ-4	GZ-5	GZ-6	GZWP-1	GZ-102	GZ-104	GZ-106	GZ-201	GZ-202A	GMW-11RR	GZ-1L	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/1P-2R Southern Spring)	GZ-P-5R	SW-P-9 (P-9/1P-9R Northern Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	SW-15	SW-16	SW-17	Exeter River	MW-6
PRE-CLOSURE	5/27/1992	**0.006**	**0.031**	**0.011**	**0.025**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	-	-	-	-	-	**0.03**
	11/12/1992	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-
	4/6/1993	**0.001**	**0.001**	**0.001**	**0.001**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.001**	-	-	-	-	-	-	-	-	**0.018**
	7/1/1993	<0.1	<0.1	**9.06**	<0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.78**	-	-	-	-	-	-	-	-	-
	11/5/1993	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	<0.01
	4/14/1994	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	-	-	-	-
	7/15/1994	<0.05	**0.052**	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-
	8/30/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.1
	9/6/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.9
	10/11/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.03**
	11/18/1994	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	-	-	-	-	-	-	-	-
	12/23/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005
	2/2/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001
	4/12/1995	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	-	-	-	<0.005
	7/28/1995	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	-	-	-	<0.005
	12/8/1995	<0.002	**0.003**	**0.006**	**0.004**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.003**	-	-	-	-	-	-	-	-	**0.009**
	4/26/1996	<0.02	<0.02	<0.02	<0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.02	-	-	-	-	-	-	-	-	<0.02
	7/25/1996	<0.005	**0.053**	<0.005	**0.007**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	-	-	-	-
	11/14/1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POST-CLOSURE	4/21/1997	-	**0.004**	**0.004**	**0.004**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.18**	-	**0.012**	**0.003**	-	-	-	-	-	-	-	-	-
	7/22/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/11/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/15/1998	<0.002	<0.002	**18**	<0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002	-	-	<0.002	-	-	-	-	-	-	-	-	-
	7/6/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/16/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/19/1999	<0.002	<0.002	<0.002	<0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.002**	-	**0.003**	<0.002	-	-	-	-	-	-	-	-	-
	7/27/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5/5/2000	<0.002	<0.002	<0.002	<0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002	-	-	-	-	-	-	-	-	-
	7/7/2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/16/2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/25/2001	<0.002	<0.002	<0.002	<0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002	-	<0.002	<0.002	-	-	-	-	-	-	-	-	-
	7/25/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/9/2001	-	-	-	-	<0.016	-	-	-	-	-	-	-	-	-	-	-	-	<0.016	<0.016	<0.016	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/28/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1/17/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2002	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-
	11/20/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/29/2003	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	<0.01	<0.01	-	<0.01	-	<0.01	<0.01	-	-	-	-	-	-	-	-	-
	11/17/2003	-	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	<0.01	<0.01	-	-	-	<0.01	<0.01	-	-	-	-	-	-	-	-	-
	4/28/2004	-	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	<0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	-
	11/15/2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/28/2005	-	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	<0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	-
	11/8/2005	-	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	<0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	-
	4/17/2006	-	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	<0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	**0.36**	-	-	-	-	-	-	-	-	-
	11/20/2006	-	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	<0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	-
	5/2/2007	-	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	<0.01	-	-	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	<0.01
	11/14/2007	-	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	<0.01	-	-	-	-	-	-	<0.01	<0.01	<0.01	-	<0.01	<0.01	<0.01	**0.01**	-	-	-	-	-	-	-	-	<0.01
	4/25/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/2008	-	<0.008	<0.008	<0.008	<0.008	-	-	-	-	-	Dry	-	<0.001	-	-	-	-	<0.008	<0.008	-	-	Dry	<0.008	<0.008	-	-	-	-	-	<0.008	-	-	-	<0.008	-
	11/4/2009	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	-	**0.012**	<0.001	-
	4/20/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/11/2010	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	-	-	-	-	**0.058**	-	-	<0.001	<0.001	-
	4/22/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/14/2011	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	<0.001	-
	4/30/2012	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	**0.002**	-	-	-	-	-	<0.001	-	-	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	<0.001	-
	11/5/2012	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	-	<0.001	<0.001	-	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	-	-	-	-	-	**0.001**	-	-	**0.003**	<0.001	-
	5/7/2013	-	-	-	-	-	-	-	-	-	-	-	<0.001	<0.001	-	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/19/2013	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	<0.001	<0.001	-	**0.004**	<0.001	-	<0.001	<0.001	<0.001	-	**0.009**	-	<0.001	-	-	-	-	-	-	-	<0.001	**0.001**	-	-
	4/15/2014	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.003**	-	-
	11/3/2014	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	-
	4/6/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/17/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.041**	-	-	-	-	-	-	-	<0.001	-	-	-	-	-
	4/14/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/2/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/7/2017	-	<0.001	<0.001	**0.003**	-	-	-	-	-	-	-	-	<0.001	-	**0.010**	<0.001	-	**0.001**	<0.001	**0.006**	-	**0.028**	-	**0.006**	-	-	-	-	-	<0.001	-	-	<0.001	-	-
	4/25/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/4/2019	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	-	-	-	-	**0.0017**	<0.001	<0.001	-	-	-
	4/16/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/5/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/8/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/10/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/5/2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/2/2022	-	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	**0.048**	-	<0.001	-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	-	-

See last page for notes.

TABLE 1
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

Mercury (mg/L)

NH AGQS = 0.002 mg/L
WQCTS (Water and Fish Ingestion) = 0.00005 mg/L

	Sampling Date	Overburden Monitoring Wells																	Bedrock Monitoring Wells				Groundwater Seep Monitoring Stations			Surface Water Monitoring Stations										Leachate Monitoring Well
		RFW-1	RFW-2	RFW-3	RFW-4	GZ-1U	GZ-2	GZ-3	GZ-4	GZ-5	GZ-6	GZWP-1	GZ-102	GZ-104	GZ-106	GZ-201	GZ-202A	GMW-11RR	GZ-1L	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/1P-2R Southern Spring)	GW-P-5R	SW-P-9 (P-9/1P-9R Northern Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	SW-15	SW-16	SW-17	Exeter River	MW-6
PRE-CLOSURE	5/27/1992	<0.0003	<0.0003	<0.0003	<0.0003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0003	-	-	-	-	-	-	-	-	-	-	<0.0003
	11/12/1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/6/1993	<0.0002	<0.0002	<0.0002	<0.0002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002	-	-	-	-	-	-	-	-	<0.0002
	7/1/1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/5/1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/14/1994	<0.0002	<0.0002	<0.0002	<0.0002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002	-	-	-	-	-	-	-	-	-
	7/15/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/30/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002
	9/6/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002
	10/11/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002
	11/18/1994	<0.0002	<0.0002	<0.0002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002	-	-	-	-	-	-	-	-	-
	12/23/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0003
	2/2/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002
	4/12/1995	<0.001	<0.001	<0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002	-	-	-	-	-	-	-	-	<0.001
	7/28/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001
	12/8/1995	<0.0002	<0.0002	<0.0002	<0.0002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002	-	-	-	-	-	-	-	-	<0.0002
	4/26/1996	<0.0002	<0.0002	<0.0002	<0.0002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002	-	-	-	-	-	-	-	-	<0.0002
	7/25/1996	**0.0008**	**0.0007**	**0.0007**	**0.0012**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.0012**	-	-	-	-	-	-	-	-	-
	11/14/1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POST-CLOSURE	4/21/1997	-	**0.0003**	<0.0002	0.0002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002	-	<0.0002	<0.0002	-	-	-	-	-	-	-	-	-
	7/22/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/11/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/15/1998	<0.0002	<0.0002	<0.0003	<0.0005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002	-	-	<0.0002	-	-	-	-	-	-	-	-	-
	7/6/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/16/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/19/1999	<0.0002	<0.0002	<0.0002	<0.0002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002	-	<0.0002	<0.0002	-	-	-	-	-	-	-	-	-
	7/27/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5/5/2000	<0.0002	<0.0002	<0.0002	<0.0002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002	-	-	-	-	-	-	-	-	-
	7/7/2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/16/2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/25/2001	<0.00035	<0.00035	<0.00035	<0.00035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.00035	-	<0.00035	<0.00035	-	-	-	-	-	-	-	-	-
	7/25/2001	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/9/2001	-	-	-	-	<0.0005	-	-	-	-	-	-	-	-	-	-	-	-	<0.0005	<0.0005	<0.0005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/28/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1/17/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2002	<0.0004	<0.0004	<0.0004	<0.0004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0004	-	-	-	-	-	-	-	-	-
	11/20/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/29/2003	<0.0005	<0.0005	<0.0005	<0.0005	**0.0005**	-	-	-	-	-	-	-	-	-	-	-	-	<0.0005	<0.0005	<0.0005	-	<0.0005	-	<0.0005	<0.0005	-	-	-	-	-	-	-	-	-
	11/17/2003	-	<0.0005	<0.0005	<0.0005	<0.0009	-	-	-	-	-	-	-	-	-	-	-	-	<0.0009	<0.0009	<0.0009	-	-	-	<0.0009	<0.0009	-	-	-	-	-	-	-	-	-
	4/28/2004	-	<0.0009	<0.0009	<0.0009	<0.0009	-	-	-	-	-	<0.0009	-	-	-	-	-	-	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009	**0.0013**	<0.0009	<0.0009	-	-	-	-	-	-	-	-	-
	11/15/2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/28/2005	-	<0.0009	<0.0009	<0.0009	<0.0009	-	-	-	-	-	<0.0009	-	-	-	-	-	-	<0.0009	<0.0009	<0.0009	-	<0.0009	<0.0009	<0.0009	<0.0009	-	-	-	-	-	-	-	-	-
	11/8/2005	-	<0.0009	<0.0009	<0.0009	<0.0009	-	-	-	-	-	<0.0009	-	-	-	-	-	-	<0.0009	<0.0009	<0.0009	-	<0.0009	<0.0009	<0.0009	<0.0009	-	-	-	-	-	-	-	-	-
	4/17/2006	-	<0.0009	<0.0009	<0.0009	<0.0009	-	-	-	-	-	<0.0009	-	-	-	-	-	-	<0.0009	<0.0009	<0.0009	-	<0.0009	<0.0009	<0.0009	<0.0009	-	-	-	-	-	-	-	-	-
	11/20/2006	-	<0.0009	<0.0009	<0.0009	<0.0009	-	-	-	-	-	<0.0009	-	-	-	-	-	-	<0.0009	<0.0009	<0.0009	-	<0.0009	<0.0009	<0.0009	<0.0009	-	-	-	-	-	-	-	-	-
	5/2/2007	-	<0.0009	<0.0009	<0.0009	<0.0009	-	-	-	-	-	<0.0009	-	-	-	-	-	-	-	<0.0009	-	-	<0.0009	<0.0009	<0.0009	<0.0009	-	-	-	-	-	-	-	-	<0.0009
	11/14/2007	-	<0.0009	<0.0009	<0.0009	<0.0009	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0009	-	-	<0.0009	<0.0009	<0.0009	-	-	-	-	-	-	-	-	-	-
	4/25/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/2008	-	<0.0009	<0.0009	<0.0009	<0.0009	-	-	-	-	-	Dry	-	<0.01	-	-	-	-	<0.0009	<0.0009	-	-	Dry	<0.0009	<0.0009	-	-	-	-	-	<0.0009	-	-	-	<0.0009
	11/4/2009	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	-	<0.001	**0.0002**	**0.0002**	-	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	<0.001	-
	4/20/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/11/2010	-	<0.0001	<0.0001	<0.0001	<0.0001	-	-	-	-	-	-	-	<0.0001	-	-	-	-	<0.0001	<0.0001	**0.0001**	-	<0.0001	<0.0001	<0.0001	-	-	-	-	-	<0.0001	-	-	<0.0001	<0.0001	-
	4/22/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/14/2011	-	<0.0001	<0.0001	<0.0001	<0.0001	-	-	-	-	-	-	-	<0.0001	-	-	-	-	<0.0001	**0.0002**	**0.0002**	-	<0.0001	-	<0.0001	-	-	-	-	-	<0.0001	-	-	<0.0001	<0.0001	-
	4/30/2012	-	<0.0001	<0.0001	<0.0001	<0.0001	-	-	-	-	-	-	-	<0.0001	-	-	-	-	-	**0.0003**	-	-	<0.0001	<0.0001	<0.0001	-	-	-	-	-	<0.0001	-	-	<0.0001	<0.0001	-
	11/5/2012	-	<0.0001	<0.0001	<0.0001	<0.0001	-	-	-	-	-	-	-	<0.0001	-	<0.0001	<0.0001	-	<0.0001	<0.0001	-	-	<0.0001	<0.0001	<0.0001	-	-	-	-	-	<0.0001	-	-	<0.0001	<0.0001	-
	5/7/2013	-	-	-	-	-	-	-	-	-	-	-	<0.0001	<0.0001	-	<0.0001	<0.0001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/19/2013	-	<0.0001	<0.0001	<0.0001	<0.0001	-	-	-	-	-	-	<0.0001	<0.0001	-	<0.0001	<0.0001	-	<0.0001	**0.0001**	<0.0001	-	<0.0001	-	<0.0001	-	-	-	-	-	-	-	<0.0001	<0.0001	-	-
	4/15/2014	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	-
	11/3/2014	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	-
	4/6/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/17/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	-	-	-	-	-	-	<0.0001	-	-	-	-	-
	4/14/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/2/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/7/2017	-	<0.0001	<0.0001	<0.0001	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	<0.0001	-	<0.0001	<0.0001	**0.0002**	-	<0.0001	-	<0.0001	-	-	-	-	-	<0.0001	-	-	<0.0001	-	-
	4/25/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/4/2019	-	-	-	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	-	-	-	-	-	-	-	<0.0001	-	-	-	-	-	-	-	<0.0001	<0.0001	<0.0001	-	-	-
	4/16/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/5/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/8/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/10/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/5/2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/2/2022	-	<0.0001	<0.0001	<0.0001	-	-	-	-	-	-	-	-	<0.0001	-	<0.0001	<0.0001	<0.0001	<0.0001	**0.0017**	<0.0001	-	<0.0001	-	<0.0001	-	-	-	-	-	<0.0001	<0.0001	<0.0001	<0.0001	-	-

See last page for notes.

TABLE 1
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

Selenium (mg/L)

NH AGQS = 0.05 mg/L
WQCTS (Water and Fish Ingestion) = 0.170 mg/L

	Sampling Date	Overburden Monitoring Wells																	Bedrock Monitoring Wells				Groundwater Seep Monitoring Stations			Surface Water Monitoring Stations									Leachate Monitoring Well
		RFW-1	RFW-2	RFW-3	RFW-4	GZ-1U	GZ-2	GZ-3	GZ-4	GZ-5	GZ-6	GZWP-1	GZ-102	GZ-104	GZ-106	GZ-201	GZ-202A	GMW-11RR	GZ-1L	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/1P-2R Southern Spring)	GW-P-5R	SW-P-9 (P-9/1P-9R Northern Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	SW-15	SW-16	SW-17	Exeter River	MW-6
PRE-CLOSURE	5/27/1992	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	-	<0.01
	11/12/1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/6/1993	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	<0.01
	7/1/1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/5/1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/14/1994	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	-	-	-	-
	7/15/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/30/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002
	9/6/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002
	10/11/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002
	11/18/1994	<0.002	**0.005**	<0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002	-	-	-	-	-	-	-	-	-
	12/23/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01
	2/2/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.002
	4/12/1995	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	-	-	-	<0.005
	7/28/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005
	12/8/1995	<0.005	<0.005	**0.01**	**0.009**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.006**	-	-	-	-	-	-	-	-	**0.019**
	4/26/1996	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	<0.01
	7/25/1996	<0.007	<0.007	<0.007	<0.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.007	-	-	-	-	-	-	-	-	-
	11/14/1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/21/1997	-	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-
	7/22/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/11/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POST-CLOSURE	4/15/1998	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	**0.006**	-	-	-	-	-	-	-	-	-	-
	7/6/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/16/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/19/1999	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-
	7/27/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5/5/2000	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	-	-	-	-	-
	7/7/2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/16/2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/25/2001	**0.018**	**0.013**	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	**0.012**	<0.005	-	-	-	-	-	-	-	-	-	-
	7/25/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/9/2001	-	-	-	-	**0.0711**	-	-	-	-	-	-	-	-	-	-	-	-	**0.082**	**0.101**	<0.034	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/28/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1/17/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2002	<0.03	<0.03	<0.03	<0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.03	-	-	-	-	-	-	-	-	-	-
	11/20/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/29/2003	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	<0.05	<0.05	-	<0.05	-	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
	11/17/2003	-	<0.05	**0.06**	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	**0.05**	<0.05	-	-	-	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
	4/28/2004	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
	11/15/2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/28/2005	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
	11/8/2005	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
	4/17/2006	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	**0.13**	-	-	-	-	-	-	-	-	-	-
	11/20/2006	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-
	5/2/2007	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	<0.05	-	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	<0.05	-
	11/14/2007	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	<0.05	-	-	-	-	-	-	<0.05	<0.05	<0.05	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	<0.05	-
	4/25/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/2008	-	<0.05	<0.05	<0.05	<0.05	-	-	-	-	-	Dry	-	<0.002	-	-	-	-	<0.05	<0.05	-	-	Dry	<0.05	<0.05	-	-	-	-	-	<0.05	-	-	-	<0.05	-
	11/4/2009	-	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	<0.001	-	-	-	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	<0.001	-
	4/20/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/11/2010	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	<0.001	-
	4/22/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/14/2011	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	<0.001	-
	4/30/2012	-	<0.0001	<0.0001	<0.0001	<0.001	-	-	-	-	-	-	-	<0.0001	-	-	-	-	-	<0.0001	-	-	<0.0001	<0.0001	<0.0001	-	-	-	-	-	<0.0001	-	-	<0.0001	<0.0001	-
	11/5/2012	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	-	<0.001	<0.001	-	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	<0.001	-
	5/7/2013	-	-	-	-	-	-	-	-	-	-	-	<0.001	<0.001	-	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/19/2013	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	<0.001	<0.001	-	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	-	-	-	-	-	-	-	<0.001	<0.001	-	-
	4/15/2014	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	-	-
	11/3/2014	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	-	-
	4/6/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/17/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	-	-
	4/14/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/2/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/7/2017	-	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	<0.001	-	**0.002**	<0.001	-	<0.001	<0.001	<0.001	-	**0.003**	-	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	-	-
	4/25/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/4/2019	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	-	-	-	-	<0.001	<0.001	<0.001	-	-	-
	4/16/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/5/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/8/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/10/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/5/2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/2/2022	-	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	-	-

See last page for notes.

TABLE 1
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

Silver (mg/L)

NH AGQS = 0.10 mg/L
WQCTS (Water and Fish Ingestion) = 0.05 mg/L

	Sampling Date	Overburden Monitoring Wells																	Bedrock Monitoring Wells				Groundwater Seep Monitoring Stations			Surface Water Monitoring Stations									Leachate Monitoring Well
		RFW-1	RFW-2	RFW-3	RFW-4	GZ-1U	GZ-2	GZ-3	GZ-4	GZ-5	GZ-6	GZWP-1	GZ-102	GZ-104	GZ-106	GZ-201	GZ-202A	GMW-11RR	GZ-1L	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/1P-2R Southern Spring)	GW-P-SR	SW-P-9 (P-9/1P-9R Northern Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	SW-15	SW-16	SW-17	Exeter River	MW-6
PRE-CLOSURE	5/27/1992	<0.02	<0.02	<0.02	<0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.02	-	-	-	-	-	-	-	-	-	-	<0.02
	11/12/1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/6/1993	<0.01	<0.01	<0.01	<0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.01	-	-	-	-	-	-	-	-	<0.01
	7/1/1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/5/1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/14/1994	<0.007	<0.007	<0.007	<0.007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.007	-	-	-	-	-	-	-	-	-
	7/15/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/30/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.02**
	9/6/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.03**
	10/11/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.01**
	11/18/1994	**0.06**	**0.03**	**0.04**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.04**	-	-	-	-	-	-	-	-	-
	12/23/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.02
	2/2/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.01**
	4/12/1995	<0.05	<0.05	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	<0.05
	7/28/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.05
	12/8/1995	<0.008	<0.008	<0.008	<0.008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.008	-	-	-	-	-	-	-	-	**0.011**
	4/26/1996	<0.008	<0.008	<0.008	<0.008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.008	-	-	-	-	-	-	-	-	<0.008
	7/25/1996	<0.003	<0.003	<0.003	<0.003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.003	-	-	-	-	-	-	-	-	-
	11/14/1996	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/21/1997	-	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	<0.001	<0.001	-	-	-	-	-	-	-	-	-
	7/22/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/11/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POST-CLOSURE	4/15/1998	<0.001	**0.019**	<0.001	0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	-	<0.001	-	-	-	-	-	-	-	-	-
	7/6/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/16/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/19/1999	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	**0.001**	<0.001	-	-	-	-	-	-	-	-	-
	7/27/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5/5/2000	**0.005**	**0.002**	**0.005**	**0.005**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.004**	-	-	-	-	-	-	-	-	-
	7/7/2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/16/2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/25/2001	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	<0.001	<0.001	-	-	-	-	-	-	-	-	-
	7/25/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/9/2001	-	-	-	-	<0.013	-	-	-	-	-	-	-	-	-	-	-	-	<0.013	<0.013	<0.013	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/28/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1/17/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2002	<0.005	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	-	-	-	-
	11/20/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/29/2003	<0.007	<0.007	<0.007	<0.007	<0.007	-	-	-	-	-	-	-	-	-	-	-	-	<0.007	<0.007	<0.007	-	<0.007	-	<0.007	<0.007	-	-	-	-	-	-	-	-	-
	11/17/2003	-	<0.007	<0.007	<0.007	<0.007	-	-	-	-	-	-	-	-	-	-	-	-	<0.007	<0.007	<0.007	-	-	-	<0.007	<0.007	-	-	-	-	-	-	-	-	-
	4/28/2004	-	<0.007	<0.007	<0.007	<0.007	-	-	-	-	-	<0.007	-	-	-	-	-	-	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	-	-	-	-	-	-	-	-	-
	11/15/2004	-					-	-	-	-	-		-	-	-	-	-	-				-				-	-	-	-	-	-	-	-	-	-
	4/28/2005	-	<0.007	<0.007	<0.007	<0.007	-	-	-	-	-	<0.007	-	-	-	-	-	-	<0.007	<0.007	<0.007	-	<0.007	<0.007	<0.007	<0.007	-	-	-	-	-	-	-	-	-
	11/8/2005	-	<0.007	<0.007	<0.007	<0.007	-	-	-	-	-	<0.007	-	-	-	-	-	-	<0.007	<0.007	<0.007	-	<0.007	<0.007	<0.007	<0.007	-	-	-	-	-	-	-	-	-
	4/17/2006	-	<0.007	<0.007	<0.007	<0.007	-	-	-	-	-	<0.007	-	-	-	-	-	-	<0.007	<0.007	<0.007	-	<0.007	<0.007	<0.007	<0.007	-	-	-	-	-	-	-	-	-
	11/20/2006	-	<0.007	<0.007	<0.007	<0.007	-	-	-	-	-	<0.007	-	-	-	-	-	-	<0.007	<0.007	<0.007	-	<0.007	<0.007	<0.007	<0.007	-	-	-	-	-	-	-	-	-
	5/2/2007	-	<0.007	<0.007	<0.007	<0.007	-	-	-	-	-	<0.007	-	-	-	-	-	-	-	<0.007	-	-	<0.007	<0.007	<0.007	<0.007	-	-	-	-	-	-	-	-	<0.007
	11/14/2007	-	<0.007	<0.007	<0.007	<0.007	-	-	-	-	-	<0.007	-	-	-	-	-	-	<0.007	<0.007	<0.007	-	<0.007	<0.007	<0.007	<0.007	-	-	-	-	-	-	-	-	<0.007
	4/25/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/2008	-	<0.007	<0.007	<0.007	<0.007	-	-	-	-	-	Dry	-	<0.001	-	-	-	-	<0.007	<0.007	-	-	Dry	<0.007	<0.007	-	-	-	-	-	<0.007	-	-	-	<0.007	-
	11/4/2009	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	<0.001	-
	4/20/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/11/2010	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	<0.001	-
	4/22/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/14/2011	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	-	<0.001	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	<0.001	-
	4/30/2012	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	<0.001	-
	11/5/2012	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	<0.001	-	<0.001	<0.001	-	<0.001	<0.001	-	-	<0.001	<0.001	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	<0.001	-
	5/7/2013	-	-	-	-	-	-	-	-	-	-	-	<0.001	<0.001	-	<0.001	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/19/2013	-	<0.001	<0.001	<0.001	<0.001	-	-	-	-	-	-	<0.001	<0.001	-	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	-	-	-	-	-	-	-	-	<0.001	<0.001	-
	4/15/2014	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	-
	11/3/2014	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	<0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	-
	4/6/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/17/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	-	-
	4/14/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/2/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/7/2017	-	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	<0.001	-	<0.001	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	-	-	-	-	-	<0.001	-	-	<0.001	-	-
	4/25/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/4/2019	-	-	-	-	-	-	-	-	-	-	-	<0.001	-	<0.001	-	-	-	-	-	-	-	<0.001	-	-	-	-	-	-	-	<0.001	<0.001	<0.001	-	-	-
	4/16/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/5/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/8/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/10/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/5/2022	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/2/2022	-	<0.001	<0.001	<0.001	-	-	-	-	-	-	-	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	<0.001	-	<0.001	-	-	-	-	-	<0.001	<0.001	<0.001	<0.001	-	-

See last page for notes.

TABLE 1
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

VOCs (mg/L)

	Sampling Date	Overburden Monitoring Wells																	Bedrock Monitoring Wells				Groundwater Seep Monitoring Stations			Surface Water Monitoring Stations									Leachate Monitoring Well
		RFW-1	RFW-2	RFW-3	RFW-4	GZ-1U	GZ-2	GZ-3	GZ-4	GZ-5	GZ-6	GZWP-1	GZ-102	GZ-104	GZ-106	GZ-201	GZ-202A	GMW-11	GZ-1L	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/ South Spring)	GZ-P-5R	SW-P-9 (P-9/1P-9R Northern Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	SW-15	SW-16	SW-17	Exeter River	MW-6
PRE-CLOSURE	5/27/1992	BDL	BDL	BDL	**6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**11,122**
	11/12/1992	BDL	BDL	BDL	**3.4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	-	-	-	-	-	-	-	-
	4/6/1993	BDL	BDL	BDL	BDL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	-	-	-	-	-	-	-	**1,338.6**
	7/1/1993	BDL	BDL	**25.17**	**5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	-	-	-	-	-	-	-	-
	11/5/1993	BDL	BDL	BDL	BDL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	-	-	-	-	-	-	-	**154.6**
	4/14/1994	BDL	BDL	**3.5**	**17**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	-	-	-	-	-	-	-	-
	7/15/1994	BDL	BDL	BDL	**7.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	-	-	-	-	-	-	-	-
	8/30/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**697.1**
	9/6/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**801.5**
	10/11/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**731.5**
	11/18/1994	BDL	BDL	**6.3**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	-	-	-	-	-	-	-	-
	12/23/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**1,443**
	2/2/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**283.4**
	4/12/1995	BDL	BDL	BDL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	-	-	-	-	-	-	-	**235.5**
	7/28/1995	BDL	BDL	DA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	DA	-	-	-	-	-	-	-	-	**260.3**
	12/8/1995	BDL	BDL	**4**	**11**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**4**	-	-	-	-	-	-	-	-	**201.5**
	4/26/1996	BDL	BDL	**14.2**	**39.9**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	-	-	-	-	-	-	-	**2,279.6**
	7/25/1996	BDL	BDL	**4.1**	**49.4**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	-	-	-	-	-	-	-	-
	11/14/1996	-	BDL	**4.7**	**332.2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	BDL	BDL	-	-	-	-	-	-	-	-	-	-
	4/21/1997	-	BDL	**2.9**	**24.1**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	BDL	BDL	-	-	-	-	-	-	-	-	-	-
	7/22/1997	BDL	BDL	**3**	BDL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	BDL	BDL	-	-	-	-	-	-	-	-	-	-
	11/11/1997	**4.6**	BDL	BDL	**26.8**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	BDL	BDL	-	-	-	-	-	-	-	-	-	-
	4/15/1998	BDL	**3**	BDL	**27**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**11**	-	-	BDL	-	-	-	-	-	-	-	-	-	-
	7/6/1998	-	**4**	BDL	**93.7**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**8.2**	-	**2.1**	BDL	-	-	-	-	-	-	-	-	-	-
	11/16/1998	DA	**19.9**	DA	**27.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**6.2**	-	DA		-	-	-	-	-	-	-	-	-	-
	4/19/1999	BDL	BDL	**2.8**	**7.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	**2.4**	BDL	-	-	-	-	-	-	-	-	-	-
	7/27/1999	BDL	BDL	BDL	**4.7**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	BDL	BDL	-	-	-	-	-	-	-	-	-	-
	11/18/1999	BDL	BDL	**4.6**	BDL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	**2.1**	BDL	-	-	-	-	-	-	-	-	-	-
	5/5/2000	BDL	BDL	BDL	**10.6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	-	-	-	-	-	-	-	-	-
	7/7/2000	BDL	BDL	BDL	**2**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	BDL	BDL	-	-	-	-	-	-	-	-	-	-
	11/16/2000	BDL	BDL	BDL	**3.8**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	BDL	BDL	-	-	-	-	-	-	-	-	-	-
	4/25/2001	BDL	BDL	**2.1**	**6.5**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**76**	-	BDL	BDL	-	-	-	-	-	-	-	-	-	-
	7/25/2001	BDL	BDL	BDL	**10**	BDL	-	-	BDL	BDL	BDL	-	-	-	-	-	-	-	**17**	BDL	BDL	-	BDL	-	BDL	BDL	-	-	-	-	-	-	-	-	-	-
	8/9/2001	-	-	-	-	BDL	-	-	BDL	BDL	BDL	-	-	-	-	-	-	-	**3.1**	**2**	BDL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/28/2001	BDL	BDL	BDL	**6**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	BDL	BDL	-	-	-	-	-	-	-	-	-	-
	1/17/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
	4/24/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/20/2002	BDL	BDL	BDL	**11**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	-	-	-	-	-	-	-	-	-
	4/29/2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/17/2003	-	BDL	BDL	**2**	BDL	-	-	-	-	-	-	-	-	-	-	-	-	BDL	**3**	BDL	-	BDL	-	BDL	BDL	-	-	-	-	-	-	-	-	-	-
	4/28/2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/15/2004	-	BDL	BDL	**5**	BDL	-	-	-		-	BDL	-	-	-	-	-	-	BDL	BDL	BDL	-	**10**	BDL	BDL	BDL	-	-	-	-	-	-	-	-	-	-
	4/28/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/8/2005	-	BDL	BDL	**2.2**	BDL	-	-	-	-	-	BDL	-	-	-	-	-	-	BDL	BDL	BDL	-	**8.7**	BDL	BDL	**14**	-	-	-	-	-	-	-	-	-	-
	4/17/2006	-	-	-	**-**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**-**	-	-	**-**	-	-	-	-	-	-	-	-	-	-
	11/20/2006	-	BDL	**3**	BDL	BDL	-	-	-	-	-	**6**	-	**-**	-	**-**	**-**	**-**	BDL	**23**	BDL	-	**19**	BDL	**21**	BLD	-	-	-	-	-	-	-	-	-	-
	5/2/2007	-	-	**-**	-	-	-	-	-	-	-	**-**	-	**-**	-	**-**	**-**	**-**	-	**-**	-	-	**-**	-	**-**	-	-	-	-	-	-	-	-	-	-	-
	11/14/2007	-	BDL	BDL	BDL	BDL	-	-	-	-	-	**8**	-	**-**	-	**-**	**-**	**-**	BDL	BDL	BDL	-	BDL	BDL	**14**	BDL	-	-	-	-	-	-	-	-	BDL	-
	4/25/2008	-	**-**	**-**	**-**	-	-	-	-	-	-	**-**	-	-	-	**-**	**-**	**-**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/2008	-	BDL	BDL	BDL	BDL	-	-	-	-	-	**13**	-	**2.5**	-	**-**	**-**	**-**	BDL	BDL	**-**	-	Dry	BDL	**4**	BDL	-	-	-	-	BDL	-	-	-	-	-
	11/4/2009	-	BDL	BDL	BDL	BDL	-	-	-	-	-	-	-	BDL	-	**-**	**-**	**-**	BDL	BDL	BDL	-	BDL	BDL	BDL	BDL	-	-	-	-	BDL	-	-	BDL	-	-
	4/20/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**-**	**-**	**-**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/11/2010	-	BDL	BDL	BDL	BDL	-	-	-	-	-	-	-	BDL	-	**-**	**-**	**-**	BDL	BDL	BDL	-	BDL	BDL	BDL	-	-	-	-	-	BDL	-	-	BDL	BDL	-
	4/22/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**-**	**-**	**-**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/14/2011	-	BDL	BDL	BDL	BDL	-	-	-	-	-	-	-	BDL	-	**-**	**-**	**-**	BDL	BDL	BDL	-	BDL	BDL	**21**	-	-	-	-	-	BDL	-	-	BDL	BDL	-
	4/30/2012	-	BDL	BDL	BDL	BDL	-	-	-	-	-	-	-	BDL	-	**-**	**-**	**-**	-	BDL	-	-	**1**	BDL	BDL	-	-	-	-	-	BDL	-	-	BDL	BDL	-
	11/5/2012	-	BDL	BDL	BDL	BDL	-	-	-	-	-	-	-	BDL	-	BDL	BDL	**-**	BDL	BDL	-	-	BDL	BDL	**3**	-	-	-	-	-	BDL	-	-	BDL	BDL	-
	5/7/2013	-	-	-	-	-	-	-	-	-	-	-	BDL	BDL	-	BDL	**5**	**-**	-	-	-	-	-	-	**-**	-	-	-	-	-	-	-	-	-	-	-
	12/19/2013	-	BDL	BDL	BDL	BDL	-	-	-	-	-	-	BDL	BDL	-	BDL	**2**	**-**	BDL	BDL	BDL	-	**8**	-	**11**	-	-	-	-	-	-	-	BDL	BDL	-	-
	4/15/2014	-	-	-	-	-	-	-	-	-	-	-	BDL	-	BDL	-	**-**	**-**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	-	-
	11/3/2014	-	-	-	-	-	-	-	-	-	-	-	BDL	-	BDL	-	**-**	**-**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	BDL	-	-	-
	4/6/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**-**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/17/2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**-**	**-**	-	-	-	-	BDL	-	-	-	-	-	-	BDL	-	-	-	-	-	-
	4/14/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**-**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/2/2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**-**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**-**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/7/2017	-	BDL	**1**	BDL	-	-	-	-	-	-	-	-	BDL	-	BDL	**1**	**-**	BDL	BDL	BDL	-	BDL	-	**66**	-	-	-	-	-	**10**	-	-	BDL	-	-
	4/25/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**-**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/12/2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**-**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2019	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**-**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/4/2019	-	-	**-**	-	-	-	-	-	-	-	-	BDL	-	BDL	-	**-**	**-**	-	-	-	-	BDL	-	**-**	-	-	-	-	-	BDL	BDL	BDL	-	-	-
	4/16/2020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**-**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/5/2020	-	-	**-**	-	-	-	-	-	-	-	-	-	-	-	-	**-**	**-**	-	-	-	-	-	-	**-**	-	-	-	-	-	-	-	-	-	-	-
	4/8/2021	-	-	**-**	-	-	-	-	-	-	-	-	-	-	-	-	**-**	**-**	-	-	-	-	-	-	**-**	-	-	-	-	-	-	-	-	-	-	-
	11/10/2021	-	-	**-**	-	-	-	-	-	-	-	-	-	-	-	-	**-**	**-**	-	-	-	-	-	-	**-**	-	-	-	-	-	-	-	-	-	-	-
	4/5/2022	-	-	**-**	-	-	-	-	-	-	-	-	-	-	-	-	**-**	**-**	-	-	-	-	-	-	**-**	-	-	-	-	-	-	-	-	-	-	-
POST-CLOSURE	11/2/2022	-	BDL	**10.7**	BDL	-	-	-	-	-	-	-	-	BDL	-	BDL	BDL	BDL	BDL	**25.1**	BDL	-	BDL	-	**41**	-	-	-	-	-	BDL	BDL	BDL	BDL	-	-

See last page for notes.

TABLE 1
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

Thallium (mg/L)

NH AGQS = 0.002 mg/L
WQCTS (Water and Fish Ingestion) = 0.0017 mg/L

	Sampling Date	Overburden Monitoring Wells												Bedrock Monitoring Wells				Groundwater Seep Monitoring Stations		Surface Water Monitoring Locations							Leachate Monitoring Well
		RFW-1	RFW-2	RFW-3	RFW-4	GZ-1U	GZ-2	GZ-3	GZ-4	GZ-5	GZ-6	GZWP-1	GZ-104	GZ-1L	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/1P-2R Southern Spring)	GZ-P-5R	SW-P-9 (P-9/1P-9R Northern Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	Exeter River	MW-6
PRE-CLOSURE	5/27/1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/12/1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/6/1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/1/1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/5/1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/14/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/15/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/30/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.023**
	9/6/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.001**
	10/11/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001
	11/18/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/23/1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.04
	2/2/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.001
	4/12/1995	<0.005	<0.005	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	-	-	-	-	-	<0.005
	7/28/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005
	12/8/1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.24**
	4/26/1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**0.06**
	7/25/1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/14/1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/21/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/22/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/11/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/15/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/6/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/16/1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/19/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/27/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5/5/2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/7/2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/16/2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/25/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	7/25/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	8/9/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/28/2001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1/17/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/24/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/20/2002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/29/2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/17/2003	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/28/2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/15/2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/28/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/8/2005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/17/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/20/2006	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5/2/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/14/2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/25/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/18/2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/27/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/4/2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POST-CLOSURE	4/20/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/11/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

Thallium (mg/L)

4/22/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/14/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/30/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
11/5/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/7/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/19/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/15/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11/3/2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See last page for notes.

TABLE 1 - Notes
WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

NOTES:

1. Concentrations are in milligrams per liter (mg/L) or micrograms per liter (µg/L) as indicated.
2. "-" indicates that measurements were not made/not applicable.
3. "< " indicates the parameter was not detected above the detection limit shown.
4. **Bold** face print indicates detection.
5. "NH AGQS" indicates New Hampshire Ambient Groundwater Quality Standards as defined in the New Hampshire Code of Administrative Rules Env-Or 603.03 revised October 22, 2016.
6. Shading indicates that the measured level exceeds its NH AGQS, Secondary Maximum Contaminant Level (SMCL), or Water Quality Criteria for Toxic Substances (WQCTS) at time of sampling as defined by the New Hampshire Code of Administrative Rules Env-Wq 1703.23, adopted November 17, 2016. For groundwater monitoring locations where NH AGQS are not established for the referenced parameter SMCLs are used to shade data. For surface water monitoring locations where WQCTS are not established for the referenced parameter NH AGQS are used to shade data.
7. "NE" indicates none established.
8. "DA" indicates that the Chain-of-Custody indicates a sample taken and a volatile organic compound (VOC) laboratory report was not available.
9. Water quality data were compiled by GZA GeoEnvironmental, Inc. from analytical laboratory reports provided by the Town of Exeter.
10. "BDL" indicates target VOCs for the method used were below laboratory detection limits.
11. "µS/cm" indicates microseimens per centimeter.
12. “M” indicates that the percent recovery for the matrix was outside of the acceptance criteria. Refer to analytical reports for additional information.
13. The analytical laboratory reports provided by Resource Environmental Group for groundwater monitoring wells RFW-2, RFW-3 and RFW-4 during November 2006 are mislabeled GZ-2, GZ-3 and GZ-4, respectively.
14. The groundwater elevation data provided by Resource Environmental Group for GZ-2U during November 2006 is mislabeled GZ-2M.
15. For 11/14/2007 the percent recovery for sample P-9R for chloride was 85.
16. Please note that based on review of historical chain-of-custody forms, samples for metals analyses collected from groundwater monitoring wells have been field filtered and represent dissolved metals analyses. Samples collected from surface water location SW-1 have not been field filtered and represent total metals analyses. Samples collected at P-2 (southern spring) and P-9 (northern spring) through 2002 were also not field filtered and represent total metals analyses. Samples collected from the replacement well points (P-2R, P-5R, and P-9R) during 2006 were field filtered. For further information regarding historic sampling procedures, please refer to Section 5.2.4 (Review of Historic Total Metals and Dissolved Metals Analyses) of GZA’s May 10, 2002 report.
17. Landfill water quality monitoring associated with the samples labeled P-2 and P-9 has been performed by Mr. Tom Walker of REG. Based on conversations with Mr. Walker during a site visit on April 17, 2002, the samples designated P-2 and P-9 on laboratory reports and chain-of-custody forms since November 1996 (the start of routine sampling of P-2 and P-9) were collected from surface water proximate to P-2 and about 300 feet south of P-9 from November 1996 through November 2001. The locations sampled from November 1996 through November 2001 are designated SW-P-2 and SW-P-9 on ***Figure 1***. The data from these locations represent total metals analyses of surface water. Replacement groundwater well points designated P-2R and P-9R have been sampled since November 2001.
18. The NH AGQS for 1,4-dioxane was revised on September 1, 2018 to 0.32 µg/L.
19. The NH AGQS for Manganese was revised on January 1, 2021 to 300 µg/L.

20. The NH AGQS for Arsenic was revised on July 1, 2021 to 5 µg/L.

TABLE 2
REFERENCE/GROUNDWATER ELEVATION DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NH DES No. 198401081

Monitoring Location	Ground Surface Elevation	Bedrock Surface Elevation	Reference Elevation	04/25/01 Depth-to-Water	04/25/01 Groundwater Surface Elevation	07/23/01 Depth-to-Water	07/23/01 Groundwater Surface Elevation	07/25/01 Depth-to-Water	07/25/01 Groundwater Surface Elevation	08/09/01 Depth-to-Water	08/09/01 Groundwater Surface Elevation	11/28/01 Depth-to-Water	11/28/01 Groundwater Surface Elevation	04/24/02 Depth-to-Water	04/24/02 Groundwater Surface Elevation	11/20/02 Depth-to-Water	11/20/02 Groundwater Surface Elevation	04/29/03 Depth-to-Water	04/29/03 Groundwater Surface Elevation	06/17/03 Depth-to-Water	06/17/03 Groundwater Surface Elevation	11/17/03 Depth-to-Water	11/17/03 Groundwater Surface Elevation	04/28/04 Depth-to-Water	04/28/04 Groundwater Surface Elevation	11/15/04 Depth-to-Water	11/15/04 Groundwater Surface Elevation	04/28/05 Depth-to-Water	04/28/05 Groundwater Surface Elevation
GZ-1U	97.1	-	99.68	-	-	22.6	77.1	-	-	22.8	76.9	-	-	-	-	-	-	23.5	76.2	23.2	76.5	23.5	76.2	22.6	77.1	22.3	77.4	21.3	78.4
GZ-1L	97.1	45.1	99.44	-	-	20.4	79.1	-	-	20.5	78.9	-	-	-	-	-	-	23.2	76.3	20.8	78.6	21.1	78.3	23.2	76.3	20.9	78.6	18.5	81.0
GMW-10	114.2	-	-	-	-	Dry	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-2U	113.8	-	116.29	-	-	Dry	<116.3	-	-	Dry	<116.3	-	-	-	-	-	-	dry	<116.3	dry	<116.3	dry	<116.3	-	-	-	-	-	-
GZ-2L	114.6	81.6	117.12	-	-	33.9	83.3	-	-	34.2	82.9	-	-	-	-	-	-	33.6	83.5	33.7	83.4	36.6	80.5	32.8	84.3	34.7	82.4	32.0	85.1
GMW-11RR	93.8	-	96.32	-	-	Dry	<81.32	-	-	10.9	85.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-3L	94.8	68.8	97.32	-	-	11.5	85.9	-	-	11.8	85.5	-	-	-	-	-	-	13.9	83.4	12.2	85.2	13.0	84.4	10.8	86.5	12.4	84.9	8.8	88.5
GZ-4	142.9	<85.9	142.29	-	-	50.1	92.2	-	-	50.3	92.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-5	141.1	<84.1	140.73	-	-	50.8	89.9	-	-	51.1	89.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-6	141.4	<84.4	141.16	-	-	50.0	91.2	-	-	51.2	89.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-101	69.4	-	72.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-102	77.0	-	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-103	78.3	-	81.39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-104	72.4	-	75.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-105	65.4	-	67.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-106	73.5	-	76.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-107	108.7	-	103.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-201	123.3		122.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-202A	121.1		123.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P-1	64.5	-	67.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P-2 / P-2R	68.3	-	69.18	-	-	-	-	-	-	0.7	68.5	-	-	-	-	-	-	3.2	68.3	-	-	3.7	68.3	3.6	65.6	3.6	65.6	3.4	65.8
P-3	67.9	-	68.41	-	-	-	-	-	-	2.0	66.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P-4	70.5	-	71.15	-	-	-	-	-	-	2.0	69.2	-	-	-	-	-	-	-	-	1.8	69.4	-	-	-	-	-	-	-	-
GW-P-5R/P-5	82.3	-	84.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	72.8	-	-	7.8	76.7	7.6	76.9	6.7	77.8
P-6	74.8	-	76.01	-	-	-	-	-	-	3.2	72.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P-7	-	-	84.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P-8	69.7	-	70.25	-	-	-	-	-	-	2.5	67.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P-9 / P-9R	68	-	68.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	68.0	-	-	3.2	68.0	3.0	65.4	3.0	65.3	2.9	65.4
RFW-1	85.6	34.6	88.11	3.23	84.88	-	-	4.95	83.16	5.3	82.8	7.5	80.6	7.9	80.2	8.0	80.2	5.7	82.4	5.8	82.3	destroyed	-	-	-	-	-	-	-
RFW-2	118	-	119.72	41.34	78.38	-	-	43.02	76.7	-	-	44.9	74.8	45.2	74.5	45.7	74.0	43.5	76.2	43.6	76.1	43.8	75.9	42.3	77.4	43.5	76.2	41.2	78.5
RFW-3	140.6	-	143.48	72.95	70.53	-	-	72.89	70.59	73.2	70.3	74.9	68.6	75.6	67.9	76.2	67.3	74.3	69.2	-	-	74.6	68.9	73.6	69.9	73.9	69.6	72.0	71.5
RFW-4	116.9	46.9	118.71	45	73.71	-	-	45.75	72.96	46.0	72.8	47.5	71.3	47.9	70.8	48.5	70.3	46.4	72.3	-	-	47.0	71.8	45.8	73.0	46.5	72.2	44.5	74.2
WS-1	102	-	102.26	-	-	-	-	-	-	12.2	90.0	-	-	-	-	-	-	-	-	12.4	89.8	-	-	-	-	-	-	-	-
WS-2	93	-	93.57	-	-	-	-	-	-	4.3	89.3	-	-	-	-	-	-	-	-	destroyed	-	-	-	-	-	-	-	-	-
SW-17/Seep	915.91	-	61.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SW-14	-	-	40.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bridge	917.07	-	60.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Monitoring Location	11/08/05 Depth-to-Water	11/08/05 Groundwater Surface Elevation	04/17/06 Depth-to-Water	04/17/06 Groundwater Surface Elevation	11/20/06 Depth-to-Water	11/20/06 Groundwater Surface Elevation	05/03/07 Depth-to-Water	05/03/07 Groundwater Surface Elevation	11/12/07 Depth-to-Water	11/12/07 Groundwater Surface Elevation	04/25/08 Depth-to-Water	04/25/08 Groundwater Surface Elevation	11/18/08 Depth-to-Water	11/18/08 Groundwater Surface Elevation	04/27/09 Depth-to-Water	04/27/09 Groundwater Surface Elevation	11/04/09 Depth-to-Water	11/04/09 Groundwater Surface Elevation	04/20/10 Depth-to-Water	04/20/10 Groundwater Surface Elevation	11/11/10 Depth-to-Water	11/11/10 Groundwater Surface Elevation	04/22/11 Depth-to-Water	04/22/11 Groundwater Surface Elevation	11/14/11 Depth-to-Water	11/14/11 Groundwater Surface Elevation	04/30/12 Depth-to-Water	04/30/12 Groundwater Surface Elevation	11/05/12 Depth-to-Water	11/05/12 Groundwater Surface Elevation	05/07/13 Depth-to-Water	05/07/13 Groundwater Surface Elevation	12/19/2013 Depth-to-Water	12/19/2013 Groundwater Surface Elevation	11/03/14 Depth-to-Water	11/03/14 Groundwater Surface Elevation	11/17/15 Depth-to-Water	11/17/15 Groundwater Surface Elevation	04/14/16 Depth-to-Water	04/14/16 Groundwater Surface Elevation
GZ-1U	21.9	77.8	21.4	78.3	19.9	79.8	19.7	80.0	22.7	77.0	21.2	78.5	21.9	77.8	20.80	78.9	22.15	77.5	17.42	82.3	22.18	77.5	21.97	77.7	22.17	77.5	22.87	76.8	24.20	75.5	-	-	24.66	75.0	-	-	-	-	-	-
GZ-1L	18.0	81.4	18.6	80.9	16.8	82.6	16.4	83.0	27.0	72.5	-	-	19.3	80.2	-	-	19.55	79.9	-	-	19.78	79.7	-	-	19.63	79.8	-	-	26.40	73.0	-	-	22.44	77.0	22.63	76.8	22.90	76.5	21.94	77.5
GMW-10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-2U	-	-	30.9	85.4	28.6	87.7	28.1	88.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-2L	31.7	85.4	32.5	84.7	31.5	85.6	30.7	86.5	35.2	81.9	32.2	84.9	33.2	83.9	31.76	85.4	33.68	83.4	29.2	87.9	34.31	82.8	32.54	84.6	33.40	83.7	33.92	83.2	36.85	80.3	-	-	37.32	79.8	35.78	81.3	38.07	79.1	35.28	81.8
GMW-11RR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-3L	8.7	88.6	9.2	88.1	7.5	89.9	7.3	90.1	12.1	85.2	-	-	-	-	-	-	10.71	86.6	-	-	11.2	86.1	-	-	10.72	86.6	-	-	13.96	83.4	-	-	14.74	82.6	15.87	81.5	15.25	82.1	13.68	83.6
GZ-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-101	-	-	-	-	-	-	-	-	11.0	61.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.50	60.6	-	-	-	-	-	-	-	-
GZ-102	-	-	-	-	-	-	-	-	16.5	63.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.05	63.0	17.85	62.2	18.18	61.8	18.18	61.8	-	-
GZ-103	-	-	-	-	-	-	-	-	17.8	63.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.20	63.2	-	-	-	-	-	-	-	-
GZ-104	-	-	-	-	-	-	-	-	12.7	62.3	-	-	12.3	62.7	-	-	12.40	62.6	8.94	66.1	12.40	62.6	8.94	66.1	12.72	62.3	12.44	62.6	13.77	61.3	13.50	61.5	13.87	61.2	14.22	60.8	14.32	60.7	13.62	61.4
GZ-105	-	-	-	-	-	-	-	-	11.1	56.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.48	56.4	-	-	-	-	-	-	-	-
GZ-106	-	-	-	-	-	-	-	-	12.3	63.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.15	62.0	-	-	13.53	62.6	13.53	62.6	-	-
GZ-107	-	-	-	-	-	-	-	-	37.1	66.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38.21	65.5	-	-	-	-	-	-	-	-
GZ-201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51.68	71.2	51.12	71.7	51.94	70.9	52.23	70.6	52.45	70.4	51.95	70.9
GZ-202A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52.48	71.5	51.58	72.4	52.38	71.6	52.76	71.2	52.95	71.0	52.40	71.6
P-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P-2 / P-2R	3.6	65.6	3.8	65.4	3.5	65.7	3.6	65.5	4.0	65.2	3.5	65.6	3.5	65.7	3.51	65.7	3.46	65.7	3.61	65.6	3.41	65.8	3.55	65.6	3.48	65.7	3.50	65.7	3.47	65.7	-	-	3.55	65.6	-	-	3.7	65.5	-	-
P-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-P-5R/P-5	5.1	79.4	7.1	77.5	5.3	79.2	5.4	79.2	9.3	75.2	7.0	77.5	7.7	76.9	6.47	78.1	7.93	76.6	4.08	80.4	8.22	76.3	7.46	77.1	7.96	76.6	8.68	75.8	9.98	74.5	-	-	-	-	-	-	-	-	-	-
P-6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P-7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P-8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P-9 / P-9R	3.2	65.2	3.0	65.3	3.3	65.1	3.3	65.1	3.4	64.9	2.8	65.6	2.9	65.5	2.90	65.5	2.81	65.5	2.76	65.6	2.86	65.5	2.77	65.6	2.74	65.6	2.78	65.6	2.92	65.4	-	-	2.8	65.6	3.26	65.1	3.05	65.3	2.73	65.6
RFW-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RFW-2	40.2	79.5	41.5	78.2	39.3	80.4	39.4	80.3	43.3	76.4	41.4	78.3	41.9	77.8	40.67	79.1	42.16	77.6	37.81	81.9	42.37	77.4	41.82	77.9	42.06	77.7	43.10	76.6	44.48	75.2	-	-	45.11	74.6	44.27	75.5	44.27	75.5	44.35	75.4
RFW-3	72.0	71.5	71.6	71.9	70.8	72.7	70.5	73.0	73.9	69.6	71.8	71.7	71.7	71.8	71.87	71.6	72.75	70.7	71.68	71.8	73.66	69.8	73.09	70.4	73.97	69.5	73.31	70.2	74.9	68.6	-	-	75.90	67.6	75.48	68.0	75.66	67.8	74.93	68.6
RFW-4	44.5	74.2	44.7	74.0	43.9	74.9	43.4	75.3	46.8	71.9	44.5	74.2	45.4	73.3	44.19	74.5	45.68	73.0	42.04	76.7	45.74	73.0	45.35	73.4	45.68	73.0	46.03	72.7	47.4	71.3	-	-	47.71	71.0	47.84	70.9	48.08	70.6	47.26	71.5
WS-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WS-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SW-17/Seep	-	-	-	-	-	-	-	-	3.8	57.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SW-14	-	-	-	-	-	-	-	-	2.9	37.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bridge	-	-	-	-	-	-	-	-	13.14	47.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Monitoring Location	11/02/16 Depth-to-Water	11/02/16 Groundwater Surface Elevation	04/24/17 Depth-to-Water	04/24/17 Groundwater Surface Elevation	11/07/17 Depth-to-Water	11/07/17 Groundwater Surface Elevation	04/25/18 Depth-to-Water	04/25/18 Groundwater Surface Elevation	11/12&13/2018 Depth-to-Water	11/12&13/2018 Groundwater Surface Elevation	04/24/19 Depth-to-Water	04/24/19 Groundwater Surface Elevation	11/05/19 Depth-to-Water	11/05/19 Groundwater Surface Elevation	04/15/20 Depth-to-Water	04/15/20 Groundwater Surface Elevation	11/05/20 Depth-to-Water	11/05/20 Groundwater Surface Elevation	04/07/21 Depth-to-Water	04/07/21 Groundwater Surface Elevation	11/10/21 Depth-to-Water	11/10/21 Groundwater Surface Elevation	04/05/22 Depth-to-Water	04/05/22 Groundwater Surface Elevation	11/02/22 Depth-to-Water	11/02/22 Groundwater Surface Elevation
GZ-1U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-1L	23.52	75.9	22.95	76.5	21.39	78.1	20.65	78.8	20.22	79.2	27.70	71.7	26.60	72.8	19.36	80.1	21.87	77.6	21.82	77.6	21.10	78.3	20.06	79.4	21.85	77.6
GMW-10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-2U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-2L	38.72	78.4	34.28	82.8	36.17	81.0	32.96	84.2	33.62	83.5	33.92	83.2	34.74	82.4	31.79	85.3	36.78	80.3	34.22	82.9	34.80	82.3	32.00	85.1	36.41	80.7
GMW-11RR	-	-	dry	-	dry	-	dry	-	dry	-	dry	-	10.82	85.3	8.51	87.6	12.51	83.6	12.22	83.9	11.55	84.6	9.79	86.3	12.89	83.2
GZ-3L	15.79	81.5	11.63	85.7	12.94	84.4	10.43	86.9	11.46	85.9	8.91	88.4	13.80	83.5	10.05	87.3	15.27	82.1	14.48	82.8	12.46	84.9	10.76	86.6	13.86	83.5
GZ-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-102	-	-	-	-	-	-	-	-	-	-	-	-	16.90	63.1	15.79	64.2	17.61	62.4	17.61	62.4	-	-	-	-	-	-
GZ-103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20.61	60.8	18.94	62.5	18.94	62.5	-	-	-	-	-	-
GZ-104	14.60	60.4	13.3	61.7	13.53	61.5	12.95	62.1	12.97	62.1	11.80	63.2	13.01	62.0	12.12	62.9	13.65	61.4	13.48	61.5	13.51	61.5	12.49	62.5	13.57	61.5
GZ-105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.20	57.7	11.83	56.1	11.83	56.1	16.04	51.9	-	-	11.84	56.1
GZ-106	-	-	-	-	-	-	-	-	-	-	-	-	12.35	63.8	12.21	63.9	13.00	63.1	13.00	63.1	12.60	63.5	-	-	12.92	63.2
GZ-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36.91	66.8	38.49	65.2	38.49	65.2	38.48	65.2	-	-	38.44	65.2
GZ-201	53.15	69.7	51.37	71.5	51.27	71.6	50.91	71.9	50.93	71.9	48.37	74.5	50.51	72.3	49.76	73.1	51.41	71.4	51.58	71.3	51.41	71.4	51.70	71.2	51.30	71.6
GZ-202A	53.58	70.4	51.83	72.2	51.69	72.3	51.34	72.7	51.28	72.7	48.76	75.2	50.93	73.1	50.12	73.9	51.78	72.2	51.96	72.0	51.73	72.3	50.56	73.4	51.57	72.4
P-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P-2 / P-2R	-	-	-	-	3.04	66.14	-	-	3.81	65.4	-	-	4.08	65.1	-	-	-	-	-	-	-	-	-	-	4.14	65.0
P-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GW-P-5R/P-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P-6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P-7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P-8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P-9 / P-9R	3.19	65.2	2.8	65.6	2.54	65.8	2.71	65.6	2.75	65.6	2.73	65.6	2.73	65.6	2.69	65.7	2.92	65.4	2.75	65.6	2.74	65.6	2.72	65.6	2.88	65.5
RFW-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RFW-2	45.83	73.9	42.9	76.8	43.82	75.9	42.75	77.0	42.32	77.4	41.18	78.5	43.11	76.6	41.44	78.3	44.52	75.2	44.24	75.5	43.23	76.5	42.46	77.3	44.18	75.5
RFW-3	76.32	67.2	74.5	69.0	74.43	69.1	74.13	69.4	74.08	69.4	71.72	71.8	73.82	69.7	73.03	70.5	74.64	68.8	74.75	68.7	74.56	68.9	73.41	70.1	74.03	69.5
RFW-4	48.55	70.2	46.39	72.3	38.98	79.7	46.23	72.5	46.34	72.4	44.59	74.1	46.51	72.2	45.42	73.3	47.24	71.5	47.12	71.6	46.88	71.8	45.77	72.9	46.91	71.8
WS-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WS-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SW-17/Seep	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SW-14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bridge	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See last page for notes.

TABLE 2

REFERENCE/GROUNDWATER ELEVATION DATA SUMMARY

Cross Road Landfill - Exeter, New Hampshire

NH DES No. 198401081

NOTES:

1. Groundwater elevation data were collected by GZA GeoEnvironmental, Inc. (GZA) on 7/23/01 and 8/9/01, and provided by the Town of Exeter for 4/25/01, 7/25/01, and 11/28/01 through the present.
2. Reference elevation is the top of PVC riser or top of well point casing.
3. Elevations are reported in feet above the National Geodetic Vertical Datum of 1929.
4. Reference elevations for wells RFW-1 through RFW-4 and piezometers P-1 through P-9 are based on Table 2 (Water Level Measurements, Exeter Landfill, Exeter, New Hampshire) of Weston's report dated June 1990.
5. Reference elevations for wells GZ-1U through GZ-3L, GZ-101 through GZ-107, and GZ-201 through GZ-202A were established by GZA using optical survey techniques and referenced to a benchmark established by TF Moran approximately 75 feet south of well GZ-2L (GZ-1U through GZ-3L) and top of PVC of selected wells (each of the other monitoring wells referenced in this note).
6. Reference elevations for former water supply wells WS-1 and WS-2 were established by GZA on using optical survey techniques and referenced to the top of PVC (reference elevation) for monitoring well RFW-1 [88.11 feet] as indicated on Table 2 (Water Level Measurements, Exeter Landfill, Exeter, New Hampshire) of Weston's report dated June 1990.
7. Wells GMW-10 and GMW-11 were installed for use as Landfill gas monitoring wells. Groundwater was encountered in GMW-11 during the August 9, 2001 monitoring round.
8. "-" indicates water level measurements were not performed at the location and date specified, or no data/not encountered.
9. Bedrock surface elevations are based on depth to bedrock encountered while drilling borings and as shown on boring logs RFW-1, RFW-2, RFW-3, and RFW-4 in Weston's 1990 report.
10. P-5 was replaced with GZ-P-5R during April 2004.
11. GMW-11RR was replaced on 8/6/19, new PVC reference elevation is 96.32'.

TABLE 3
SUMMARY OF DETECTED COMPOUNDS - PFAS IN GROUNDWATER
Cross Road Landfill - Exeter, New Hampshire
NH DES No. 198401081

Stratigraphic Unit	Monitoring Well ID	Sample Date	Carboxylic Acids[2]						Sulfonates[2]			Calculated Parameters		
			Perfluorobutanoic acid (PFBA) [4]	Perfluoropentanoic Acid (PFPeA) [5]	Perfluorohexanoic Acid (PFHxA) [6]	Perfluoroheptanoic Acid (PFHpA) [7]	Perfluoro-n-Octanoic Acid (PFOA) [8]	Perfluorononanoic Acid (PFNA) [9]	Perfluorobutane Sulfonate (PFBS) [4]	Perfluorohexane Sulfonate (PFHxS) [6]	Perfluorooctane Sulfonate (PFOS) [8]	PFOA and PFOS	Total Measured[1] PFAS	% PFOS+PFOA vs. Total PFAS
		AGQS (ng/L)	na	na	na	na	12	11	na	18	15	na	na	na
		EPA Health Advisory (ng/L)	na	na	na	na	70	na	na	na	70	70	na	na
Overburden	RFW-3	11/12/2018	<4.42	<4.42	**6.62**	<4.42	**4.47**	<4.42	<4.42	<4.42	<4.42	**4.5**	**11.1**	40.3%
		11/5/2020	<4.73	<4.73	**4.80**	<4.73	**6.42**	<4.73	<4.73	<4.73	**6.16**	**12.6**	**17.4**	72.4%
		11/2/2022	**2.15**	**3.65**	**3.34**	**2.74**	**3.96**	<1.90	**2.22**	**2.12**	**59.4**	**63.4**	**79.6**	79.6%
	RFW-4	4/25/2018	<4.11	<4.11	**5.07**	<4.11	**7.53**	<4.11	<4.11	<4.11	**7.04**	**14.6**	**19.6**	74.2%
		11/12/2018	<4.45	<4.45	<4.45	<4.45	<4.45	<4.45	<4.45	<4.45	<4.45	ND	ND	N/A
		11/5/2020	<4.50	<4.50	**4.97**	<4.50	**4.62**	<4.50	<4.50	<4.50	<4.50	4.6	9.6	48.2%
		11/2/2022	**2.74**	**2.4**	**4.03**	<1.97	**3.27**	<1.97	**2.73**	<1.97	<1.97	3.3	15.2	21.6%
	GZ-202A	4/25/2018	<4.10	<4.10	**5.54**	<4.10	<4.10	<4.10	<4.10	<4.10	<4.10	ND	**5.5**	N/A
		11/12/2018	<4.42	<4.42	**5.61**	<4.42	<4.42	<4.42	<4.42	<4.42	<4.42	ND	**5.6**	N/A
		11/5/2020	<4.57	<4.57	**4.95**	<4.57	**5.55**	<4.57	<4.57	<4.57	<4.57	5.6	**10.5**	52.9%
		11/2/2022	**3.44**	**2.75**	**3.87**	**2.61**	**5.69**	<1.97	**2.62**	<1.97	<1.97	5.7	**21.0**	27.1%
Groundwater Seep	P-2R	11/12/2018	<4.33	<4.33	<4.33	<4.33	<4.33	<4.33	<4.33	<4.33	<4.33	ND	ND	N/A

TABLE KEY:
PFAS = per- and polyfluoroalkyl substances
AGQS = Ambient Groundwater Quality Standards included in Env-Or 600 - Contaminated Site Management (Env-Or 603.03)
na = no current standard available
N/A = not applicable
< = analyte not detected above the laboratory reporting limit
ng/L = nanograms per liter

TABLE 3
SUMMARY OF DETECTED COMPOUNDS - PFAS IN GROUNDWATER
Cross Road Landfill - Exeter, New Hampshire
NH DES No. 198401081

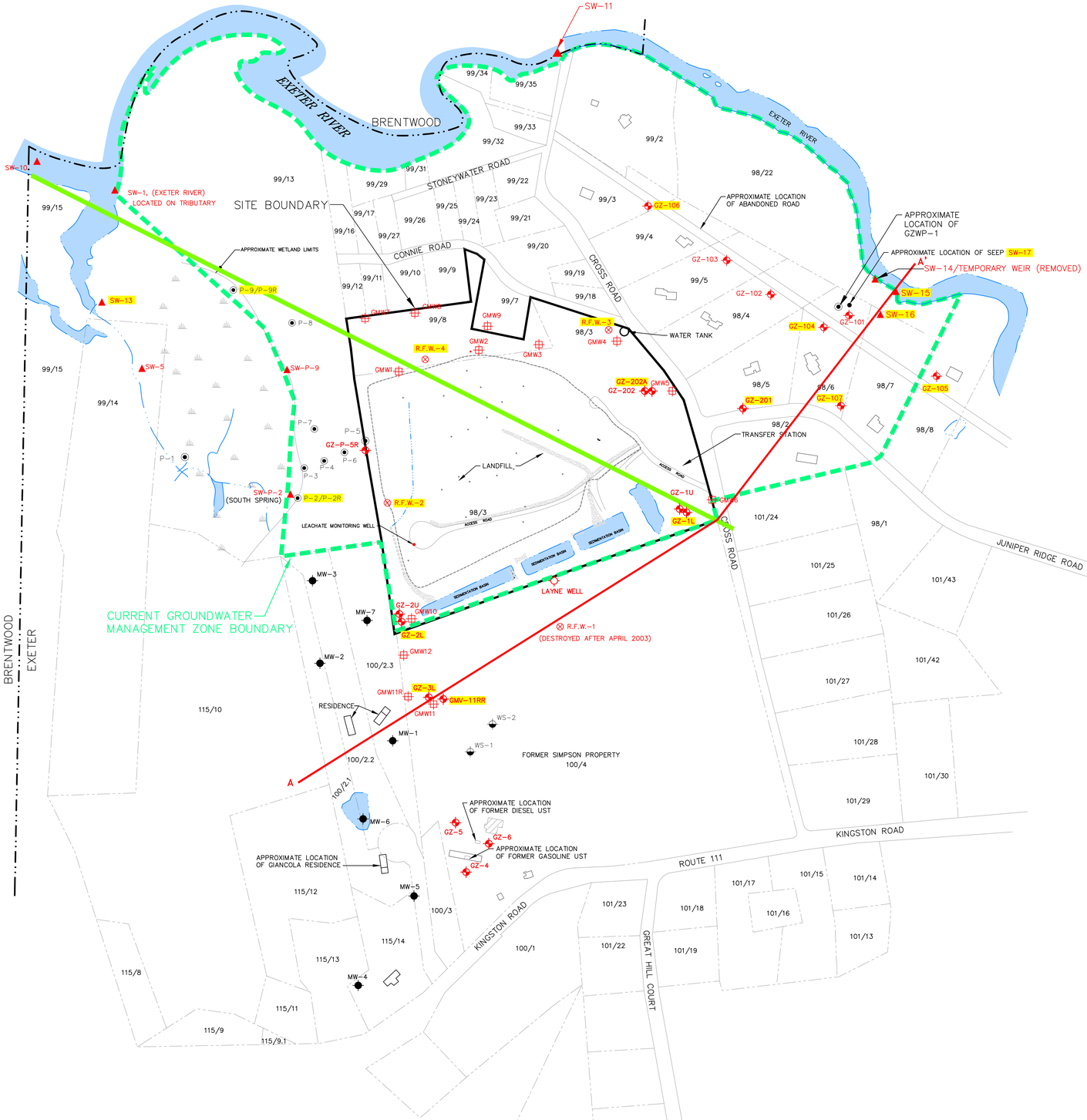
GENERAL NOTES:

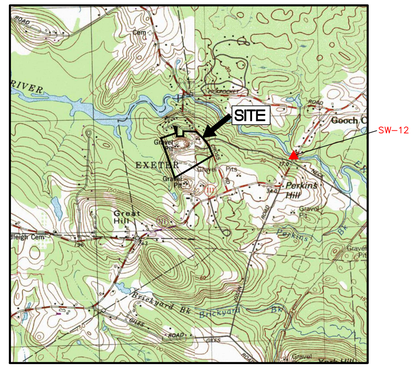
* Civil & Environmental Consultants collected the groundwater samples for PFAS analysis and submitted the samples to Eastern Analytical who subcontracted the analysis to Vista Analytical Laboratory of El Dorado Hills, California.
* All concentrations reported in nanograms per liter.
* **Bold** indicates that the concentration was detected above the laboratory reporting detection limit. Shading indicates that concentration exceeds the AGQS.
* The analytical test method for PFAS samples analyzed during 2020 is Modified EPA Method 537.
* During May 2016, EPA issued a Lifetime Drinking Water Health Advisory (EPA Health Advisory) level of 70 ng/L for PFOA, PFOS, and for both PFOA and PFOS combined where these chemicals are present together.
* Effective July 23, 2020, New Hampshire established AGQS for PFOA (12 ng/L), PFOS (15 ng/L), perfluorononanoic acid (PFNA, 11 ng/L), and perfluorohexane sulfonic acid (PFHxS, 18 ng/L).

SPECIFIC NOTES:

1. A total of nine PFAS compounds were measured by the analyses. Other PFAS compounds may or may not be present.
2. The number within the brackets indicates the number of fluorinated carbon chains.

Figures





NOTES:

1. BASE MAP DEVELOPED FROM PROPERTY TAX MAPS PROVIDED BY THE TOWN OF EXETER, NEW HAMPSHIRE INCLUDING TAX MAPS 98, 99, 100 AND 101.
2. LOCUS MAP DEVELOPED FROM UNITED STATES GEOLOGIC SURVEY MAPS, KINGSTON, 1981 PHOTO REVISED 1989 AND EXETER 1985.
3. THE LOCATIONS OF SITE FEATURES INCLUDING WELLS, PIEZOMETERS, AND ROADS ARE BASED ON INFORMATION SHOWN ON PLANS TITLED "TOPOGRAPHIC PLAN OF LAND OF CROSSROAD LANDFILL, PREPARED FOR THE TOWN OF EXETER, NEW HAMPSHIRE," PREPARED BY T.F. MORAN, INC. OF BEDFORD, NEW HAMPSHIRE, DATED JANUARY 24, 1994; "GROUNDWATER ELEVATION CONTOUR MAP–26 APRIL 1990, EXETER LANDFILL, EXETER, NEW HAMPSHIRE," PREPARED BY ROY F. WESTON, INC. (WESTON) OF CONCORD NEW HAMPSHIRE, DATED MAY 1990; "EXPLORATION LOCATION PLAN, EXETER LANDFILL, EXETER, NEW HAMPSHIRE," PREPARED BY GZA GEOENVIRONMENTAL, INC. OF MANCHESTER, NEW HAMPSHIRE, DATED JULY 1997; SITE SKETCH TITLED "PARKER SURVEY" PROVIDED BY THE TOWN OF EXETER, NEW HAMPSHIRE DATED NOVEMBER 1997. THE LOCATIONS OF CERTAIN WELLS, PIEZOMETERS, AND SURFACE WATER SAMPLING LOCATIONS ARE BASED ON TAPED MEASUREMENTS FROM SITE FEATURES BY GZA AND ARE APPROXIMATE.
4. WETLAND LIMITS AND LOCATIONS OF SW–1, NORTH SPRING, SOUTH SPRING, AND P–6 WERE OBTAINED FROM FIGURE 4 OF A REPORT TITLED "REPORT OF HYDROGEOLOGIC INVESTIGATION, EXETER LANDFILL, EXETER, NEW HAMPSHIRE," PREPARED BY ROY F. WESTON, INC. OF CONCORD, NEW HAMPSHIRE, DATED JUNE 1990. THE LOCATIONS ARE APPROXIMATE.
5. THE MONITORING WELL DESIGNATED "LAYNE WELL" WAS INSTALLED BY LAYNE NEW ENGLAND AS DIRECTED BY GIDLEY LABORATORIES, INC. (GIDLAB) OF FAIRHAVEN, MASSACHUSETTS DURING OR BEFORE 1979. PIEZOMETERS P–1 THROUGH P–9 WERE INSTALLED BY GIDLAB DURING OR BEFORE 1979. MONITORING WELLS RFW–1 THROUGH RFW–4 WERE INSTALLED BY WESTON DURING MARCH 27 THROUGH APRIL 4, 1990. MONITORING WELLS MW–1 THROUGH MW–3 LOCATED ON THE BRADSHER PROPERTY WERE INSTALLED BY EXETER ENVIRONMENTAL ASSOCIATES, (EEA) ON DECEMBER 22, 2000. MONITORING WELLS MW–4 THROUGH MW–7, ALSO LOCATED ON THE BRADSHER PROPERTY WERE INSTALLED BY EEA ON MAY 15, 2001. MONITORING WELLS GZ–1U, GZ–1L, GZ–2U, GZ–2L, GZ– 3L, GZ–4, GZ–5 AND GZ–6 AND SOIL GAS MONITORING WELLS GMW10 AND GMW11 WERE INSTALLED BY CAPITAL ENVIRONMENTAL DRILLING SERVICE OF DUNBARTON, NEW HAMPSHIRE DURING JUNE 28 THROUGH JULY 6 2001. WELL POINTS P–2R AND P–9R WERE INSTALLED BY GZA DURING APRIL 2003. GZ–P–5R WAS INSTALLED BY NEW HAMPSHIRE BORING OF LONDONDERRY, NH ON APRIL 20, 2004. MONITORING WELLS GZ–201, GZ–202, AND GZ–202A WERE INSTALLED BY NEW HAMPSHIRE BORING DURING SEPTEMBER AND NOVEMBER 2012. MONITORING WELL GMW–11RR WAS INSTALLED BY NEW ENGLAND BORING DURING AUGUST 2019.
6. LOCATION OF PHOTO LINEAMENT SHOWN BASED ON THE UNITED STATES GEOLOGIC SURVEY MAP TITLED "LINEAMENT MAP OF AREA 1 OF THE NEW HAMPSHIRE BEDROCK AQUIFER ASSESSMENT, SOUTH EASTERN NEW HAMPSHIRE," DATED 1997.
7. LOCATIONS SHOULD BE CONSIDERED APPROXIMATE.

LEGEND:

GZ–1L	GROUNDWATER MONITORING WELL BY GZA
R.F.W.–4	GROUNDWATER MONITORING WELL
LAYNE WELL	LAYNE WELL FORMER MONITORING WELL BY OTHERS
	MW–1 – OFFSITE OVERBURDEN MONITORING WELL BY OTHERS
WS–1	ABANDONED OVERBURDEN WATER SUPPLY WELL
SW–5	SURFACE WATER SAMPLING LOCATION
GMW4	SOIL GAS MONITORING WELL LOCATION
P–5	PIEZOMETER LOCATION
	STREAM
	OPEN SURFACE WATER
100/4	TOWN OF EXETER, NEW HAMPSHIRE PROPERTY TAX MAP NO./LOT NO.
	TOWN OF EXETER, NEW HAMPSHIRE PROPERTY LOT BOUNDARY
	APPROXIMATE LOCATION OF STRUCTURE
	APPROXIMATE LOCATION OF FORMER STRUCTURE
	CURRENT GROUNDWATER MANAGEMENT PERMIT REQUIRED SAMPLING LOCATION
	APPROXIMATE LOCATION OF PHOTO LINEAMENT IDENTIFIED BY THE UNITED STATES GEOLOGICAL SURVEY
A — A'	LOCATION OF CROSS SECTION LINE

N

0 100' 200' 400' 600'
SCALE IN FEET

2022 ANNUALSUMMARY REPORT
CROSS ROAD LANDFILL
GWP-198401081-E-005
EXETER, NEW HAMPSHIRE

SITE/SITE VICINITY PLAN

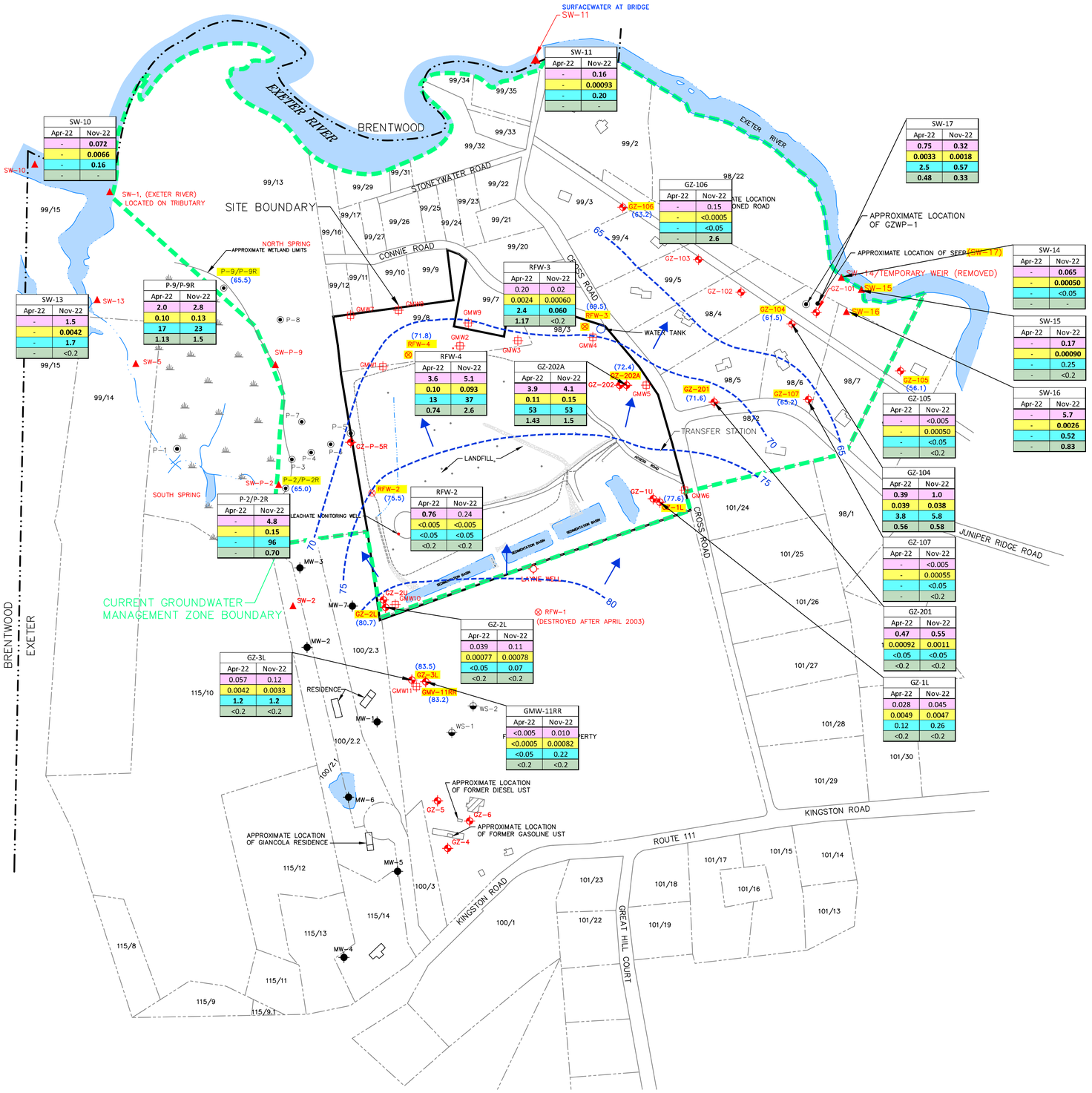
PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
5 COMMERCE PARK NORTH, SUITE 201
BEDFORD, NEW HAMPSHIRE 03110
(603) 623-3600

PREPARED FOR: TOWN OF EXETER

PROJ MGR: EBD	REVIEWED BY: JDR	CHECKED BY: JMW	FIGURE 1
DESIGNED BY: EBD	DRAWN BY: HLP	SCALE: 1" = 200'	
DATE: JANUARY 2023	PROJECT NO. 04.0021270.34	REVISION NO.	SHEET NO. 1 OF 3

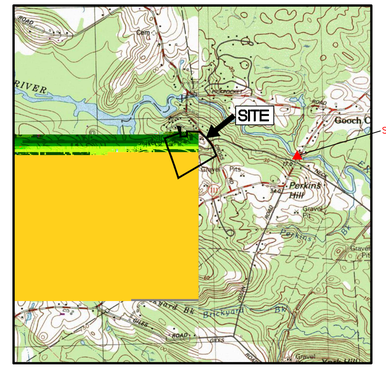
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

©2023– GZA GeoEnvironmental, Inc. GZA–P:\21000s\21270\04.0021270.34\Figures\DWGs\04.0021270.34_Figure 1 – Site Vicinity Plan.dwg [Figure 1] January 09, 2023 – 10:33am Haley.Puntin



NOTES:

1. BASE MAP DEVELOPED FROM PROPERTY TAX MAPS PROVIDED BY THE TOWN OF EXETER, NEW HAMPSHIRE INCLUDING TAX MAPS 98, 99, 100 AND 101.
2. LOCUS MAP DEVELOPED FROM UNITED STATES GEOLOGIC SURVEY MAPS, KINGSTON, 1981 PHOTO REVISED 1989 AND EXETER 1985.
3. THE LOCATIONS OF SITE FEATURES INCLUDING WELLS, PIEZOMETERS, AND ROADS ARE BASED ON INFORMATION SHOWN ON PLANS TITLED "TOPOGRAPHIC PLAN OF LAND OF CROSSROAD LANDFILL, PREPARED FOR THE TOWN OF EXETER, NEW HAMPSHIRE," PREPARED BY T.F. MORAN, INC. OF BEDFORD, NEW HAMPSHIRE, DATED JANUARY 24, 1994; "GROUNDWATER ELEVATION CONTOUR MAP–26 APRIL 1990, EXETER LANDFILL, EXETER, NEW HAMPSHIRE," PREPARED BY ROY F. WESTON, INC. (WESTON) OF CONCORD NEW HAMPSHIRE, DATED MAY 1990; "EXPLORATION LOCATION PLAN, EXETER LANDFILL, EXETER, NEW HAMPSHIRE," PREPARED BY GZA GEOENVIRONMENTAL, INC. OF MANCHESTER, NEW HAMPSHIRE, DATED JULY 1997; AND SITE SKETCH TITLED "PARKER SURVEY" PROVIDED BY THE TOWN OF EXETER, NEW HAMPSHIRE DATED NOVEMBER 1997.
4. ESTIMATED GROUNDWATER SURFACE ELEVATION CONTOURS AND INFERRED DIRECTION OF GROUNDWATER FLOW ARE BASED ON DEPTH–TO–WATER MEASUREMENTS MADE ON NOVEMBER 4, 2019 BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. (CEC), REFERENCE POINT ELEVATION DATA SHOWN IN TABLE 1 AND TABLE 2 OF ROY F. WESTON, INC.'S REPORT TITLED "REPORT OF HYDROGEOLOGIC INVESTIGATION, EXETER LANDFILL, EXETER, NEW HAMPSHIRE," DATED JUNE 1990, AND LEVEL ELEVATION SURVEYS BY GZA ON JUNE 22, 2001, JULY 24, 2001, AND NOVEMBER 12, 2007. GROUNDWATER ELEVATION DATA ALSO CONSIDER DEPTH–TO–GROUNDWATER MEASUREMENTS, MADE BY CEC ON MARCH 7, 2013.
5. WETLAND LIMITS AND LOCATIONS OF SW–1, NORTH SPRING, SOUTH SPRING, AND P–6 WERE OBTAINED FROM FIGURE 4 OF A REPORT TITLED "REPORT OF HYDROGEOLOGIC INVESTIGATION, EXETER LANDFILL, EXETER, NEW HAMPSHIRE," PREPARED BY ROY F. WESTON, INC. OF CONCORD, NEW HAMPSHIRE, DATED JUNE 1990. THE LOCATIONS ARE APPROXIMATE.
6. GROUNDWATER SURFACE AND GROUND SURFACE ELEVATIONS REFERENCED TO THE NATIONAL GEODETIC SURVEY DATUM OF 1929 (NGVD).
7. THE MONITORING WELL DESIGNATED "LAYNE WELL" WAS INSTALLED BY LAYNE NEW ENGLAND AS DIRECTED BY GIDLEY LABORATORIES, INC. (GIDLAB) OF FAIRHAVEN, MASSACHUSETTS DURING OR BEFORE 1979. PIEZOMETERS P–1 THROUGH P–9 WERE INSTALLED BY GIDLAB DURING OR BEFORE 1979. MONITORING WELLS RFW–1 THROUGH RFW–4 WERE INSTALLED BY WESTON DURING MARCH 27 THROUGH APRIL 4, 1990. MONITORING WELLS MW–1 THROUGH MW–3 LOCATED ON THE BRADSHER PROPERTY WERE INSTALLED BY EXETER ENVIRONMENTAL ASSOCIATES, (EEA) ON DECEMBER 22, 2000. MONITORING WELLS MW–4 THROUGH MW–7, ALSO LOCATED ON THE BRADSHER PROPERTY WERE INSTALLED BY EEA ON MAY 15, 2001. MONITORING WELLS GZ–1U, GZ–1L, GZ–2U, GZ–2L, GZ– 3L, GZ–4, GZ–5 AND GZ–6 AND SOIL GAS MONITORING WELLS GMW10 AND GMW11 WERE INSTALLED BY CAPITAL ENVIRONMENTAL DRILLING SERVICE OF DUNBARTON, NEW HAMPSHIRE DURING JUNE 28 THROUGH JULY 6 2001. WELL POINTS P–2R AND P–9R WERE INSTALLED BY GZA DURING APRIL 2003. GZ–P–5R WAS INSTALLED BY NEW HAMPSHIRE BORING OF LONDONDERRY, NH ON APRIL 20, 2004. MONITORING WELL GMW–11RR WAS INSTALLED BY NEW ENGLAND BORING DURING AUGUST 2019.
8. WATER QUALITY DATA SHOWN HEREON SUMMARIZE THE RESULTS OF WATER QUALITY MONITORING FOR ARSENIC, IRON, AND MANGANESE FROM SAMPLES COLLECTED BY BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DURING APRIL AND NOVEMBER 2022.
9. LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. REFER TO PREVIOUS FIGURE FOR ADDITIONAL NOTES AND LEGEND.



LOCUS MAP
SCALE: 1" = 2000'±

LEGEND:

- GZ-1L — GROUNDWATER MONITORING WELL BY GZA
- R.F.W.-4 — GROUNDWATER MONITORING WELL
- LAYNE WELL — LAYNE WELL FORMER MONITORING WELL BY OTHERS
- WS-1 — ABANDONED OVERBURDEN WATER SUPPLY WELL
- SW-5 — SURFACE WATER SAMPLING LOCATION
- GMW4 — SOIL GAS MONITORING WELL LOCATION
- P-6 — PIEZOMETER LOCATION
- STREAM
- OPEN SURFACE WATER (POND/POND)
- 100/4 — TOWN OF EXETER, NEW HAMPSHIRE PROPERTY TAX MAP NO./LOT NO.
- TOWN OF EXETER, NEW HAMPSHIRE PROPERTY LOT BOUNDARY
- APPROXIMATE LOCATION OF STRUCTURE
- APPROXIMATE LOCATION OF FORMER STRUCTURE
- 0.11 — INDICATES MANGANESE CONCENTRATION IN MILLIGRAMS PER LITER (mg/L)
- <0.01 — INDICATES ARSENIC CONCENTRATION IN MILLIGRAMS PER LITER (mg/L)
- <0.05 — INDICATES IRON CONCENTRATION IN MILLIGRAMS PER LITER (mg/L)
- <0.02 — INDICATES 1,4–DIOXONE CONCENTRATION IN MICROGRAMS PER LITER (µg/L)

BOLD PRINT INDICATES EXCEEDANCE OF NH AQGS OR SMCL

- (65.0) — INDICATES ESTIMATED OVERBURDEN GROUNDWATER SURFACE ELEVATION IN FEET BASED ON DEPTH TO GROUNDWATER MEASUREMENTS DURING NOVEMBER 2022 (SEE NOTE 4).
- 75 — ESTIMATED OVERBURDEN GROUNDWATER SURFACE ELEVATION CONTOUR IN FEET BASED ON DEPTH TO GROUNDWATER MEASUREMENTS DURING NOVEMBER 2022 (SEE NOTE 4).
- INFERRED DIRECTION OF OVERBURDEN GROUNDWATER FLOW
- CURRENT GROUNDWATER MANAGEMENT PERMIT REQUIRED SAMPLING LOCATION

N

0 100' 200' 400' 600'
SCALE IN FEET

2022 ANNUAL SUMMARY REPORT
CROSS ROAD LANDFILL
GWP-198401081-E-005
EXETER, NEW HAMPSHIRE

WATER QUALITY AND ELEVATION DATA SUMMARY

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
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BEDFORD, NEW HAMPSHIRE 03110
(603) 623-3600

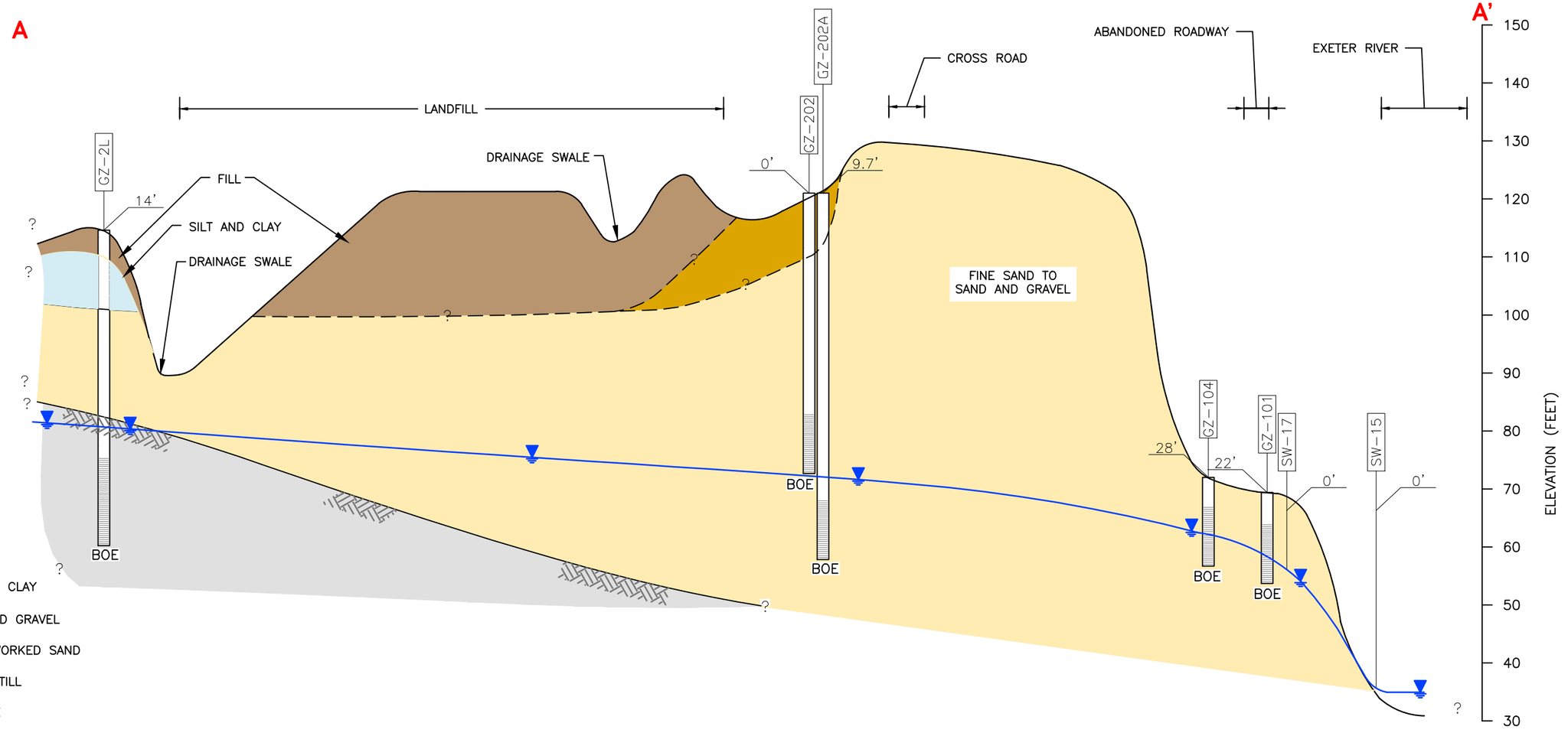
PREPARED FOR:
TOWN OF EXETER

PROJ MGR:	EBD	REVIEWED BY:	JDR	CHECKED BY:	JMW
DESIGNED BY:	EBD	DRAWN BY:	HLP	SCALE:	AS NOTED
DATE:	JANUARY 2022	PROJECT NO.	04.0021270.34	REVISION NO.	

FIGURE
2
SHEET NO. 2 OF 3

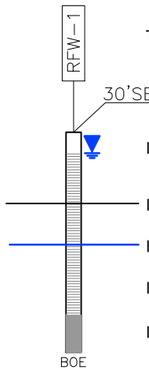
©2023– GZA GeoEnvironmental, Inc. GZA–P:\21000s\21270\04.0021270.34\Figures\DWGs\04.0021270.34_Figure 2 – Water Quality and Elevation Data Summary.dwg [Figure 2] January 09, 2023 – 12:11pm Haley.Puntin

CROSS-SECTION A-A'



LEGEND:

- SILT AND CLAY
- SAND AND GRAVEL
- FILL/REWORKED SAND
- GLACIAL TILL
- BEDROCK
- STRATIFIED FINE SAND, SILT, AND CLAY WITH OCCASIONAL GRAVEL
- APPROXIMATE LOCATION OF LANDFILL MATERIALS



- TEST BORING/MONITORING WELL AND NUMBER
- OFFSET FROM CROSS SECTION LINE
- INDICATES APPROXIMATE GROUNDWATER ELEVATION
- INDICATES APPROXIMATE STRATUM CHANGE
- INDICATES ESTIMATED GROUNDWATER SURFACE
- INDICATES INSTALLED WELL SCREEN
- INDICATES BENTONITE

NOTES:

1) GEOLOGIC UNITS ARE GENERALIZED IN ORDER TO DEMONSTRATE MAJOR STRATIGRAPHIC RELATIONSHIPS. REFER TO BORING LOGS FOR DETAILED SOIL DESCRIPTIONS FOR INDIVIDUAL SUBSURFACE EXPLORATIONS.

2) STRATIFICATION LINES ARE APPROXIMATE AND ARE BASED ON DATA COLLECTED FROM WIDELY SPACED EXPLORATIONS AND REPRESENT APPROXIMATE BOUNDARIES BETWEEN SOIL TYPES. ACTUAL TRANSITIONS MAY VARY FROM THOSE SHOWN.

3) THE ESTIMATED GROUNDWATER ELEVATION IS BASED ON WATER LEVEL MEASUREMENTS MADE AT VARIOUS TIMES AND IS PROVIDED TO SHOW THE GENERAL LOCATION OF THE SATURATED ZONE.

4) THE GENERALIZED HYDROSTRATIGRAPHIC CROSS-SECTIONS SHOWN ARE BASED ON THE RESULTS OF THE EXPLORATIONS SHOWN ON THE CROSS-SECTIONS.

5) 'R' INDICATES REFUSAL.

6) 'BOE' INDICATES BOTTOM OF EXPLORATION.

7) GROUNDWATER SURFACE AND GROUND SURFACE ELEVATIONS REFERENCED TO THE NATIONAL GEODETIC SURVEY DATUM OF 1929 (NGVD).

8) PLEASE REFER TO FIGURE 1 FOR ADDITIONAL NOTES.

VERTICAL SCALE: 1" = 20'

0 10' 20' 40'

0 100' 200' 400'

HORIZONTAL SCALE: 1" = 200'

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2022 ANNUAL SUMMARY REPORT
CROSS ROAD LANDFILL
GWP-198401081-E-005
EXETER, NEW HAMPSHIRE

HYDROGEOLOGIC CROSS SECTION

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
5 COMMERCE PARK NORTH, SUITE 201
BEDFORD, NEW HAMPSHIRE 03110
(603) 623-3600

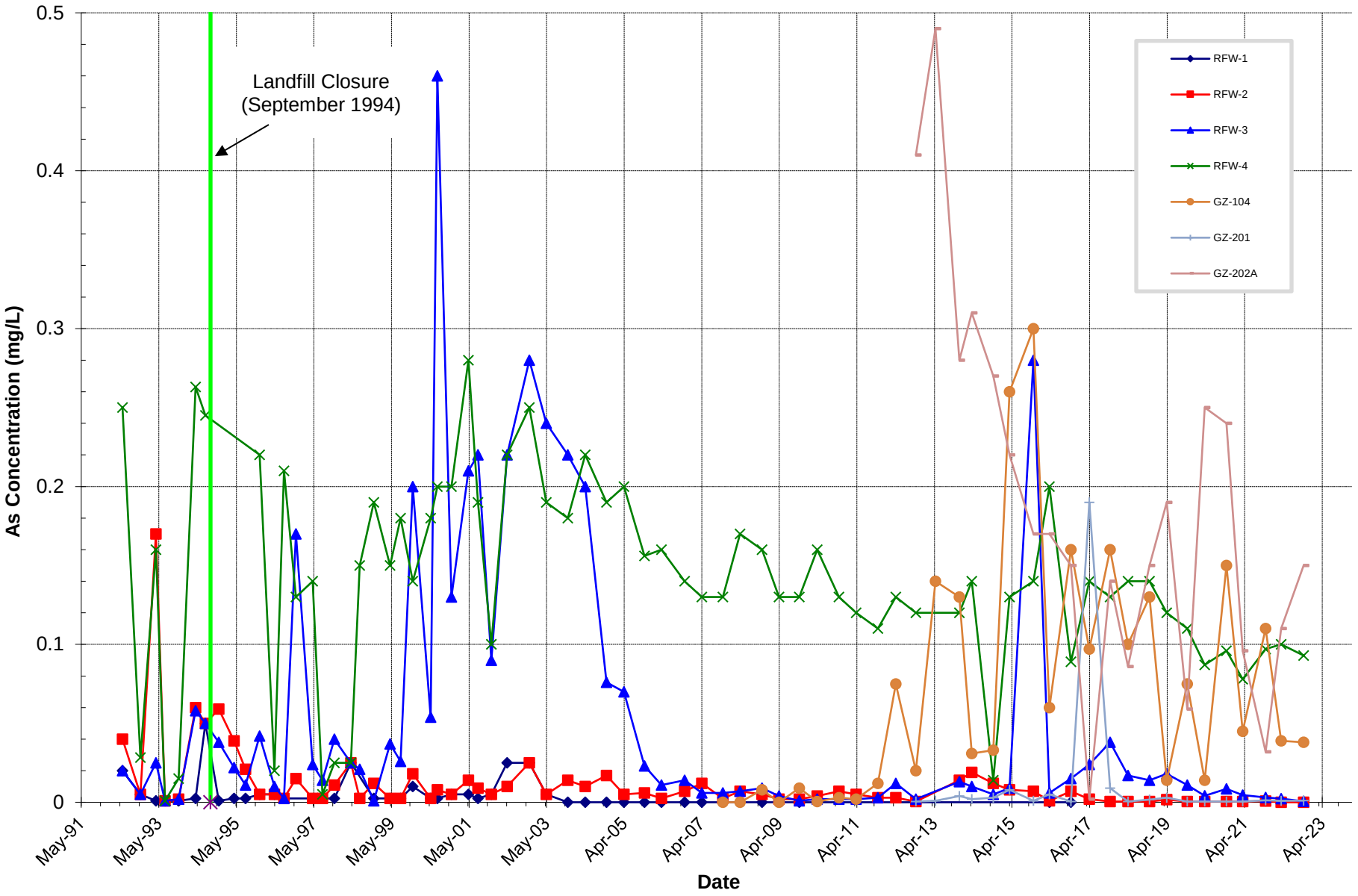
PREPARED FOR:
TOWN OF EXETER

PROJ MGR: EBD	REVIEWED BY: JDR	CHECKED BY: JMW	FIGURE 3
DESIGNED BY: EBD	DRAWN BY: HLP	SCALE: AS SHOWN	
DATE JANUARY 2023	PROJECT NO. 04.0021270.34	REVISION NO.	SHEET NO. 3 OF 3

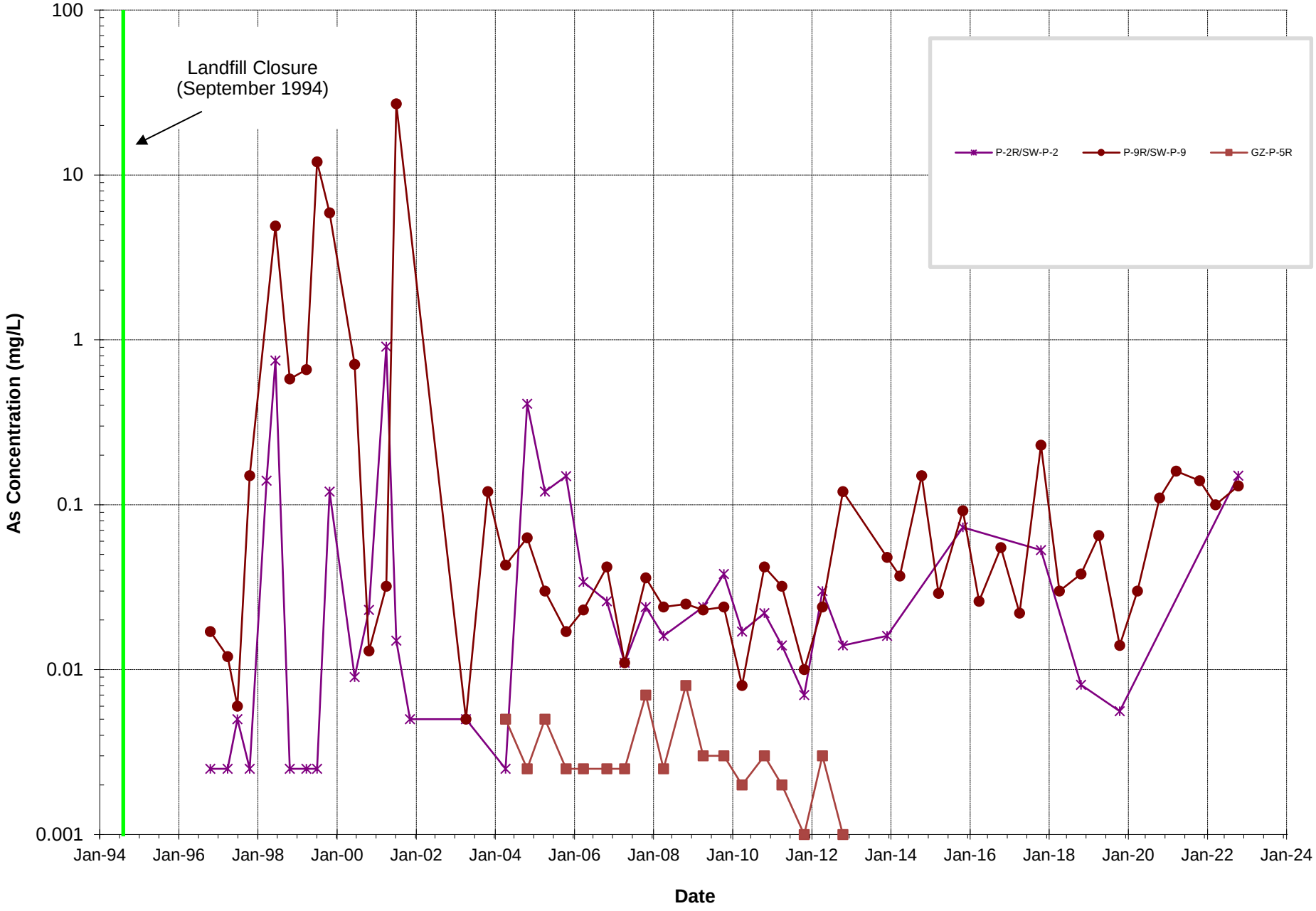
© 2023 - GZA GeoEnvironmental, Inc. - G:\Projects\21000s\21270\04.0021270.34\Figures\GWQs\04.0021270.34_Figure 3 - Hydrogeologic Cross-Section.dwg [Figure 3] January 09, 2023 - 12:10pm Haley.Puntin

Plots

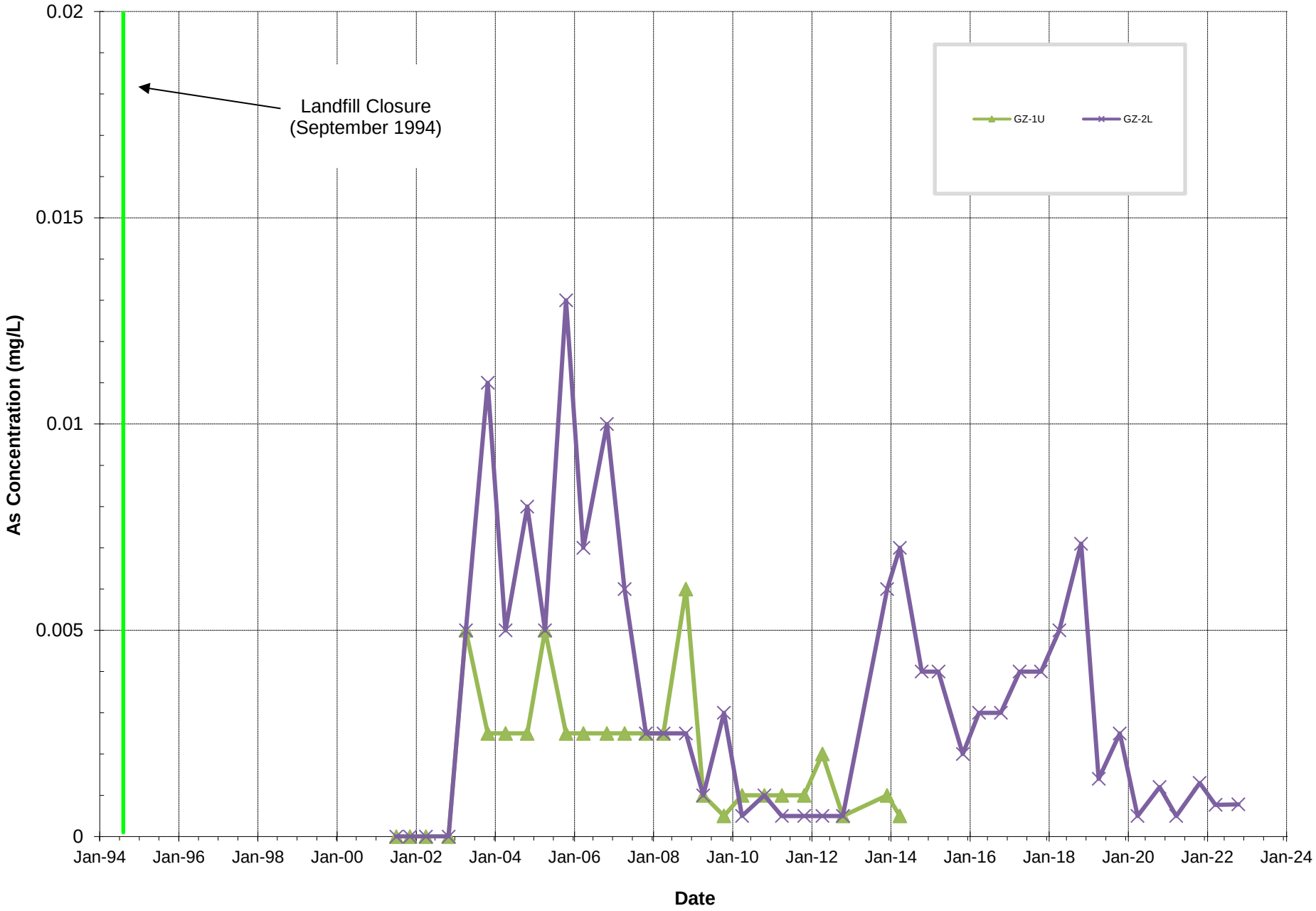
PLOT 1A
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



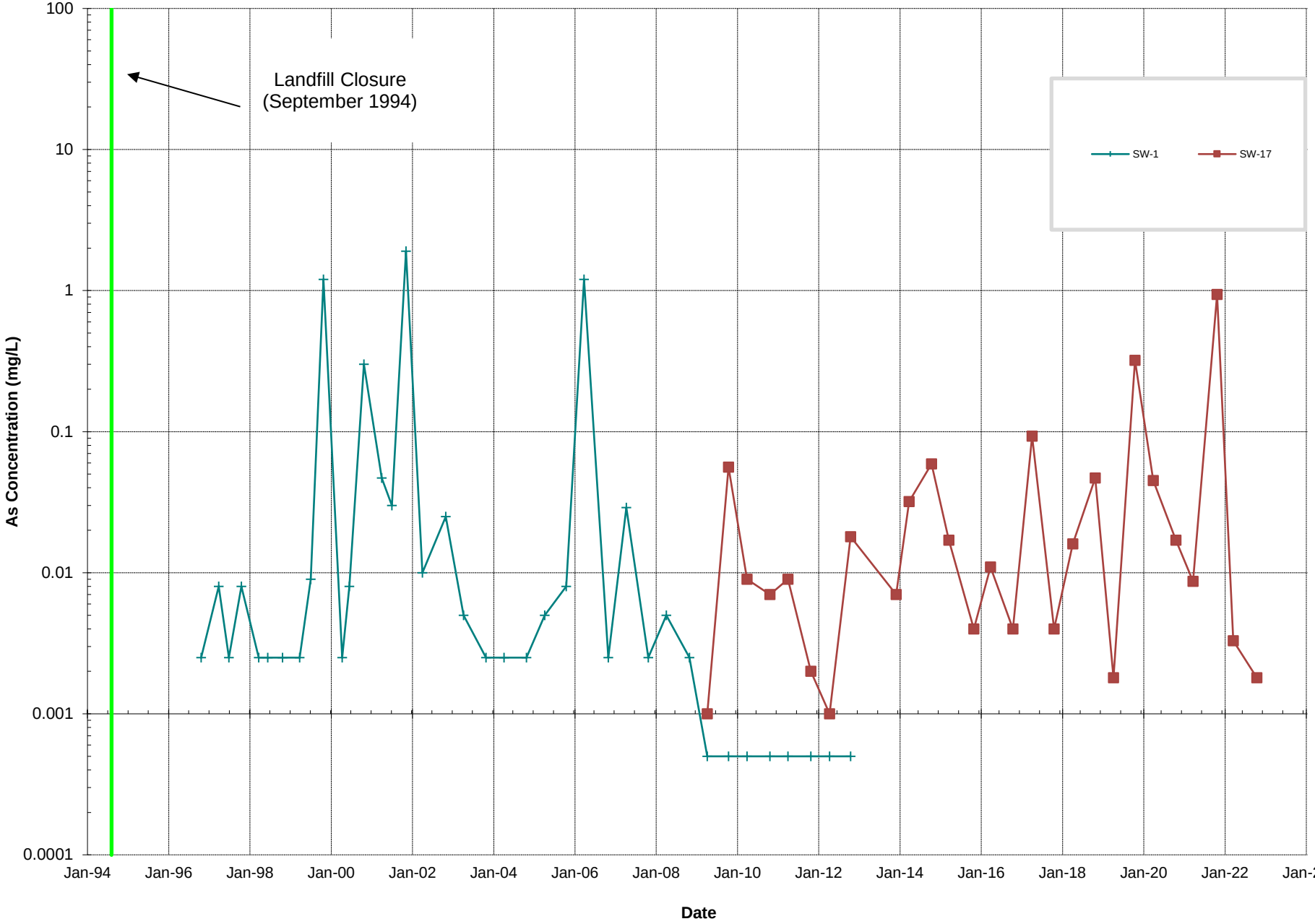
PLOT 1B
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



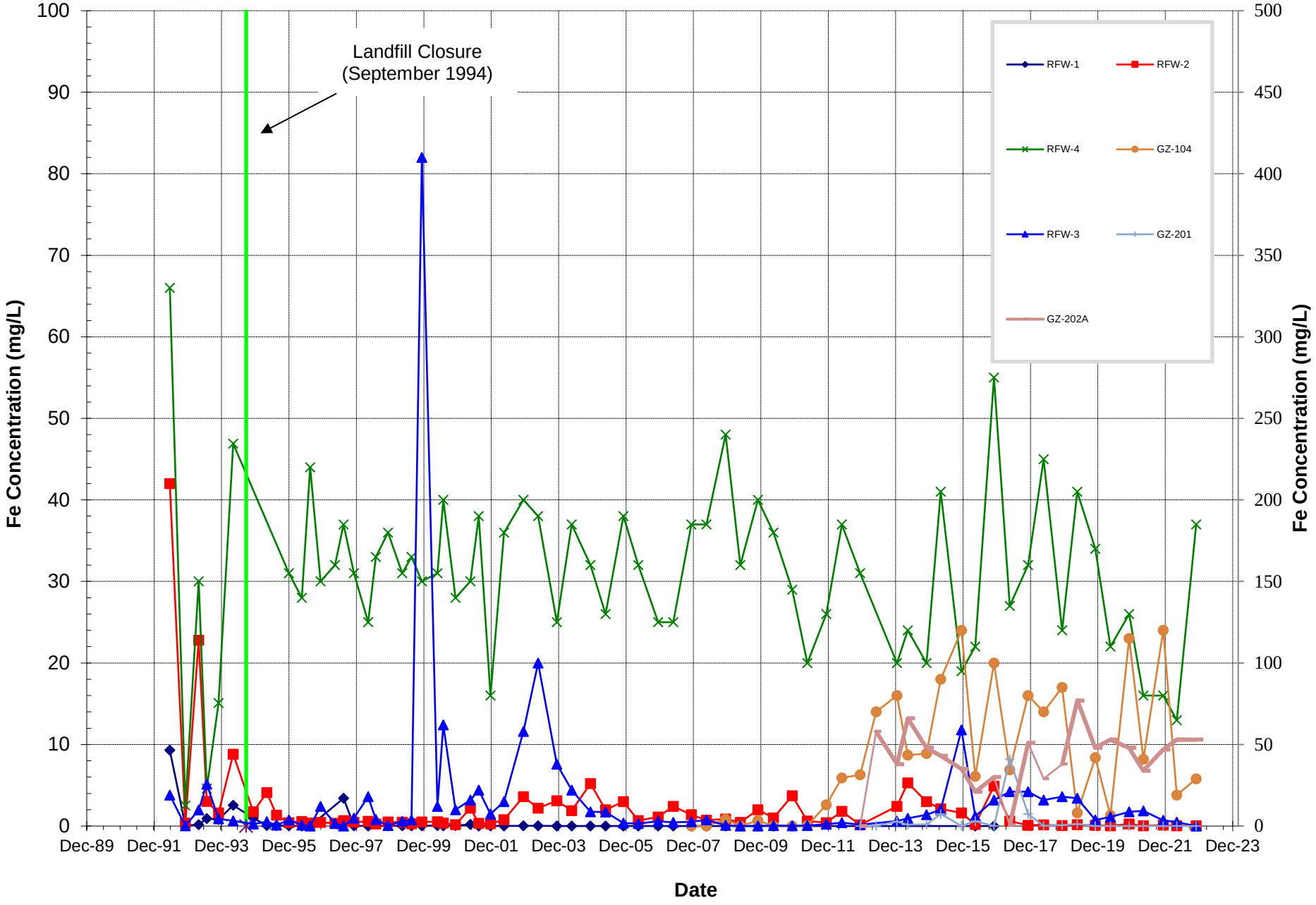
PLOT 1C
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



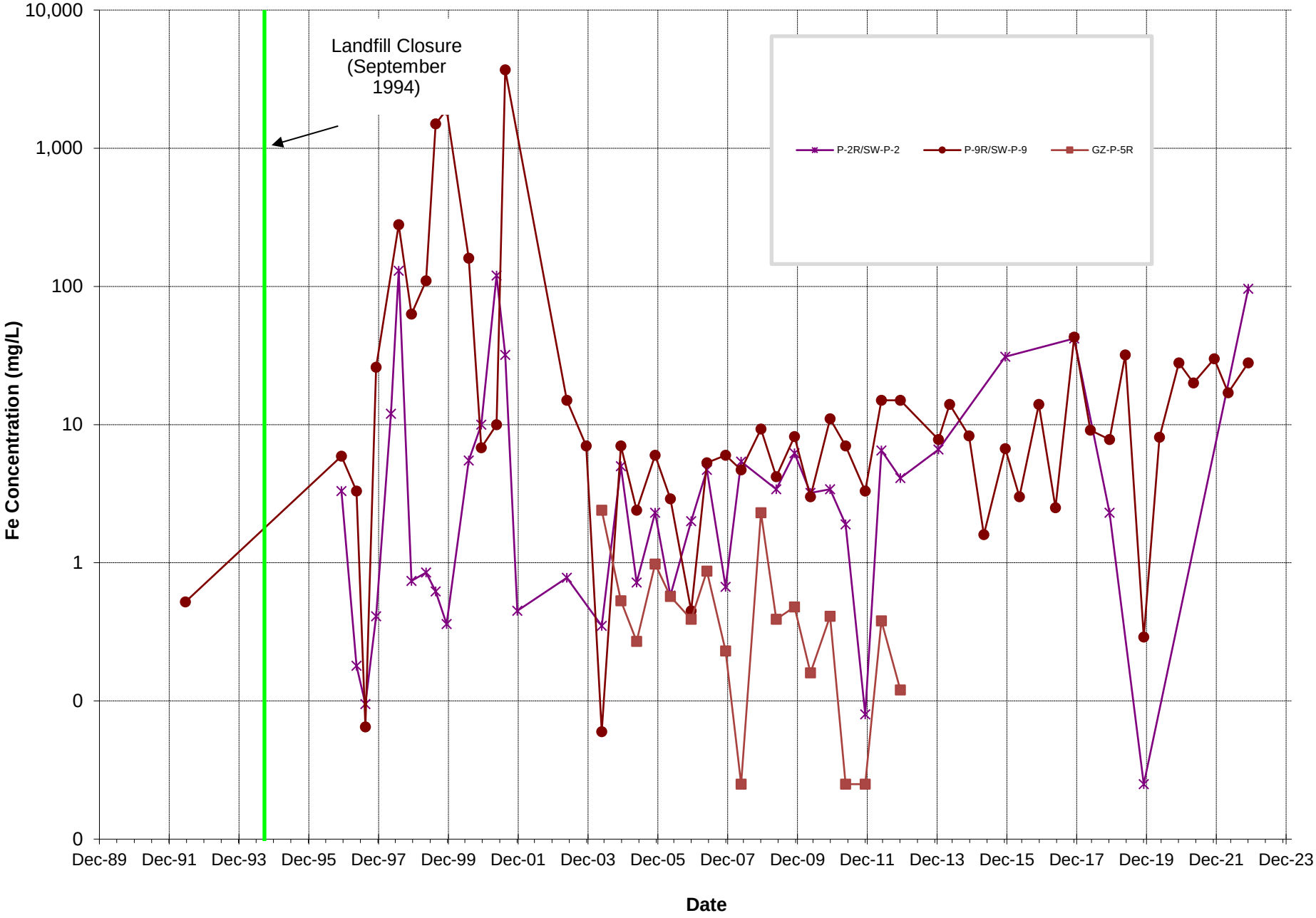
PLOT 1D
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



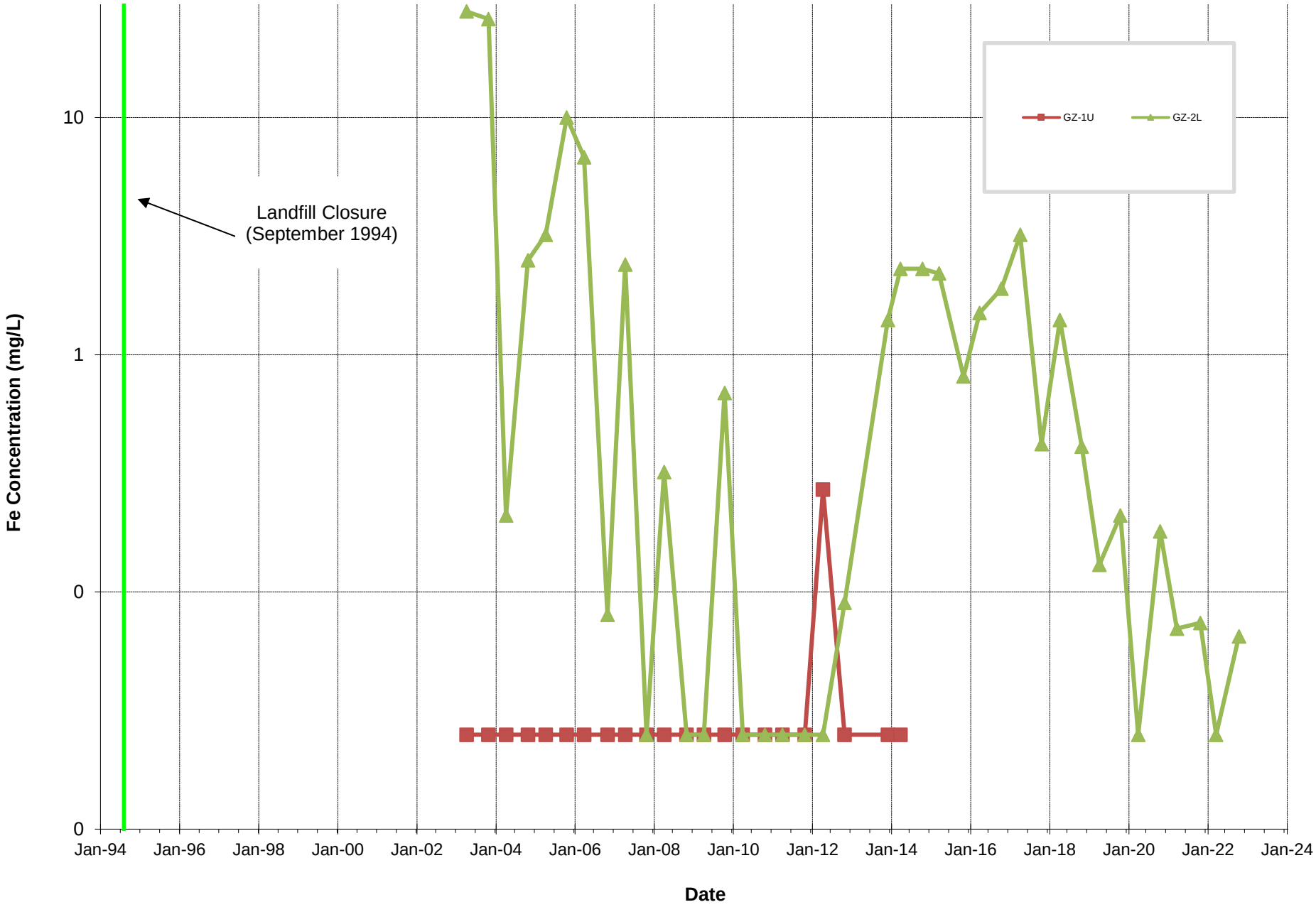
PLOT 2A
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



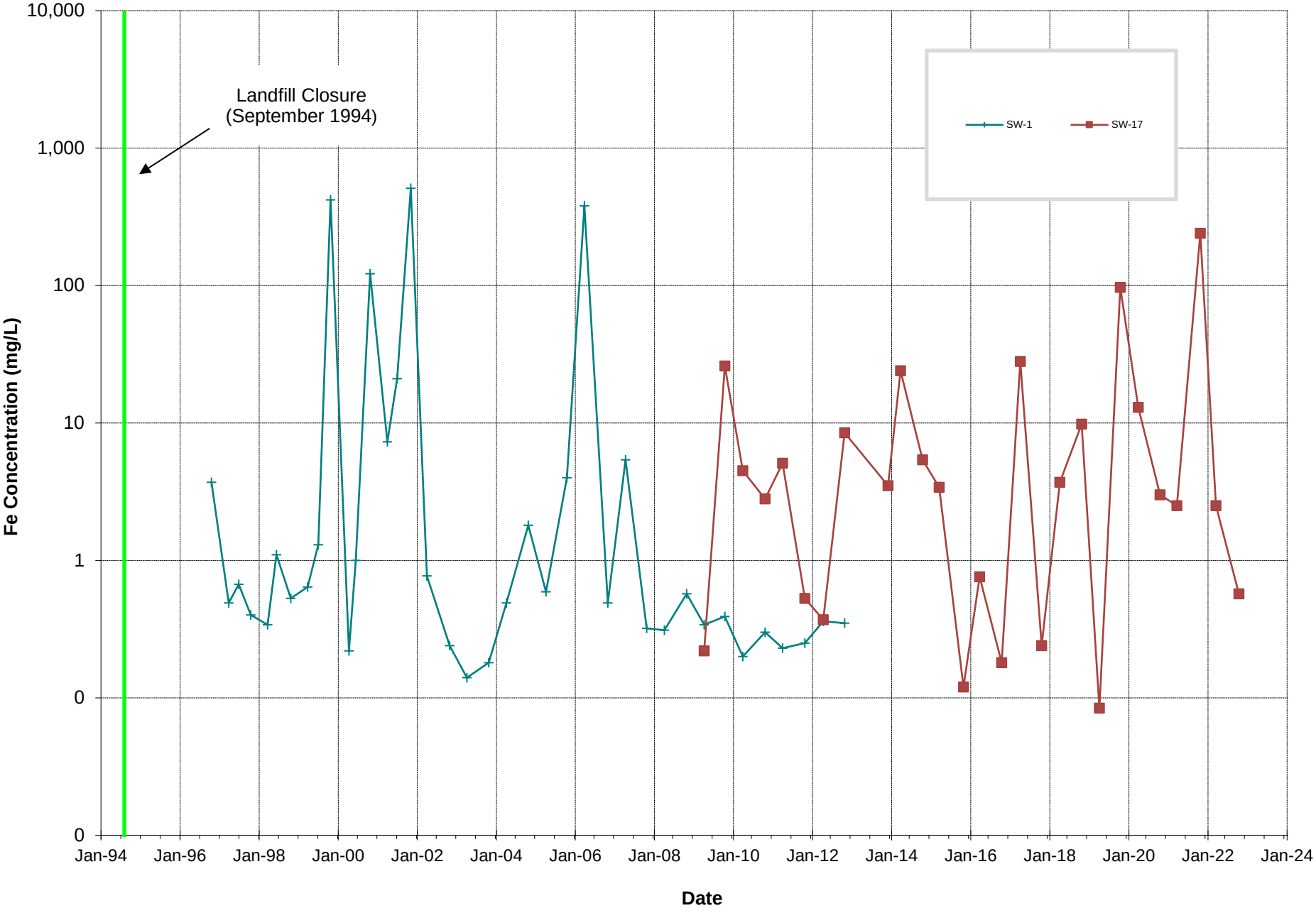
PLOT 2B
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



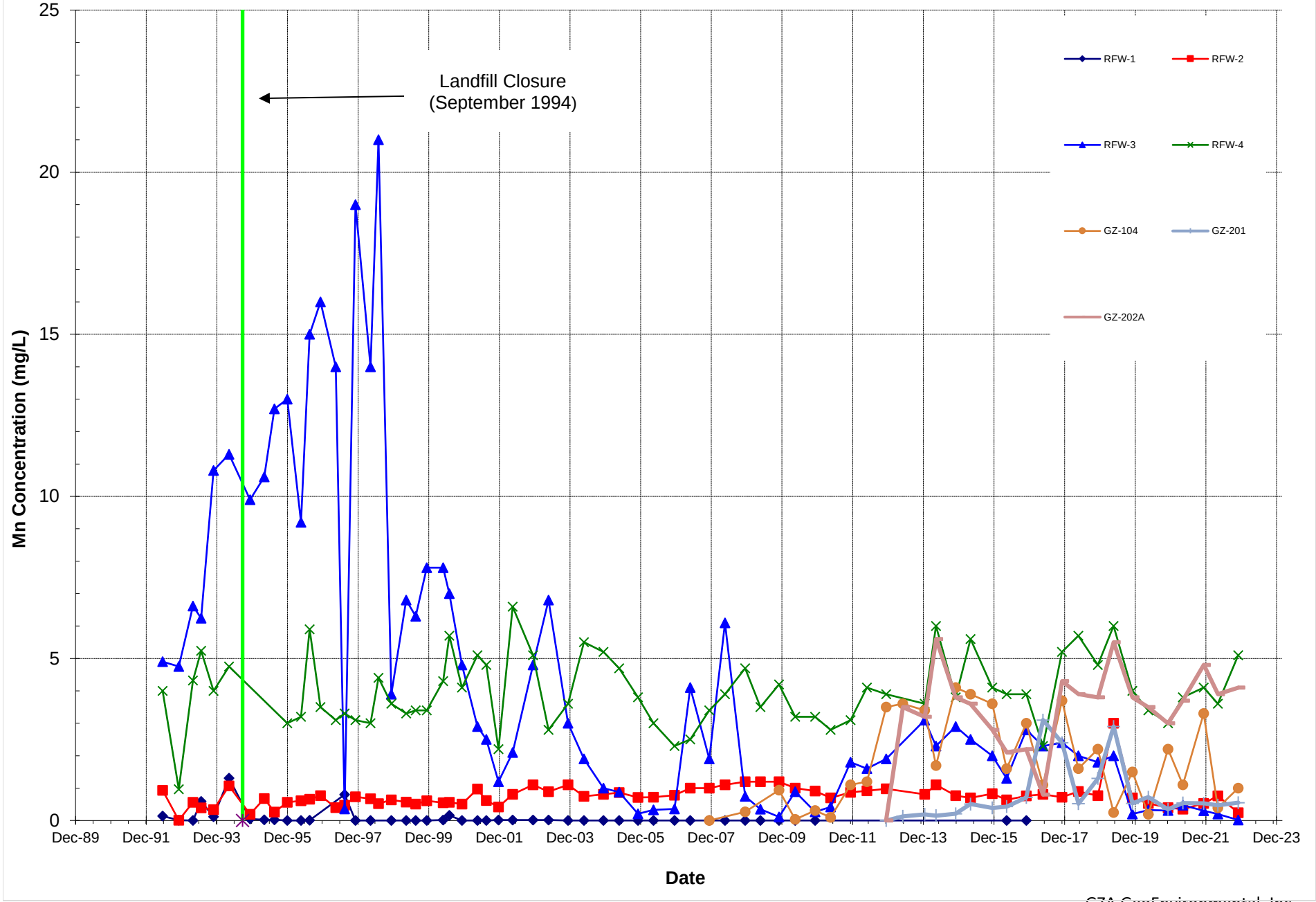
PLOT 2C
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



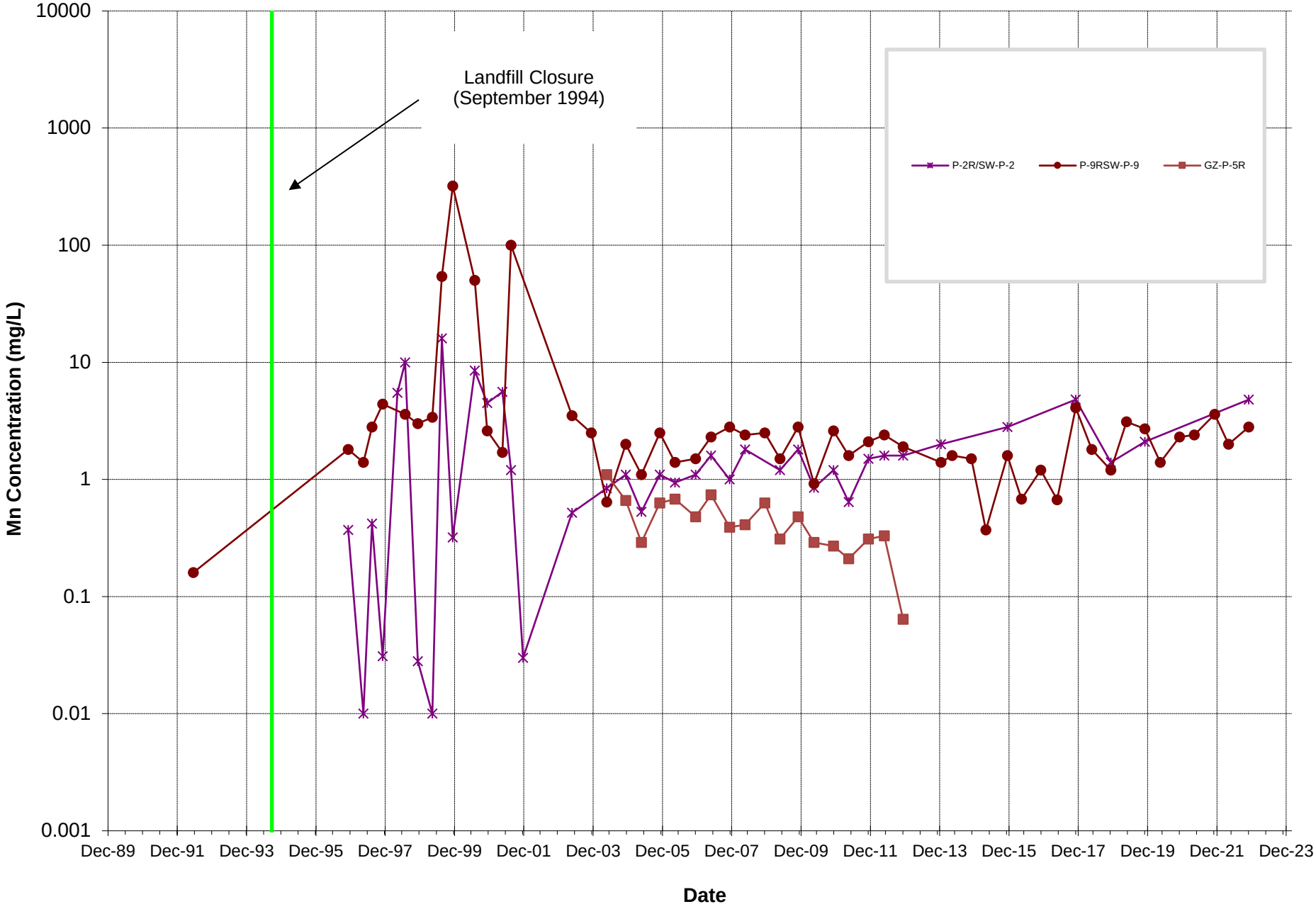
PLOT 2D
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



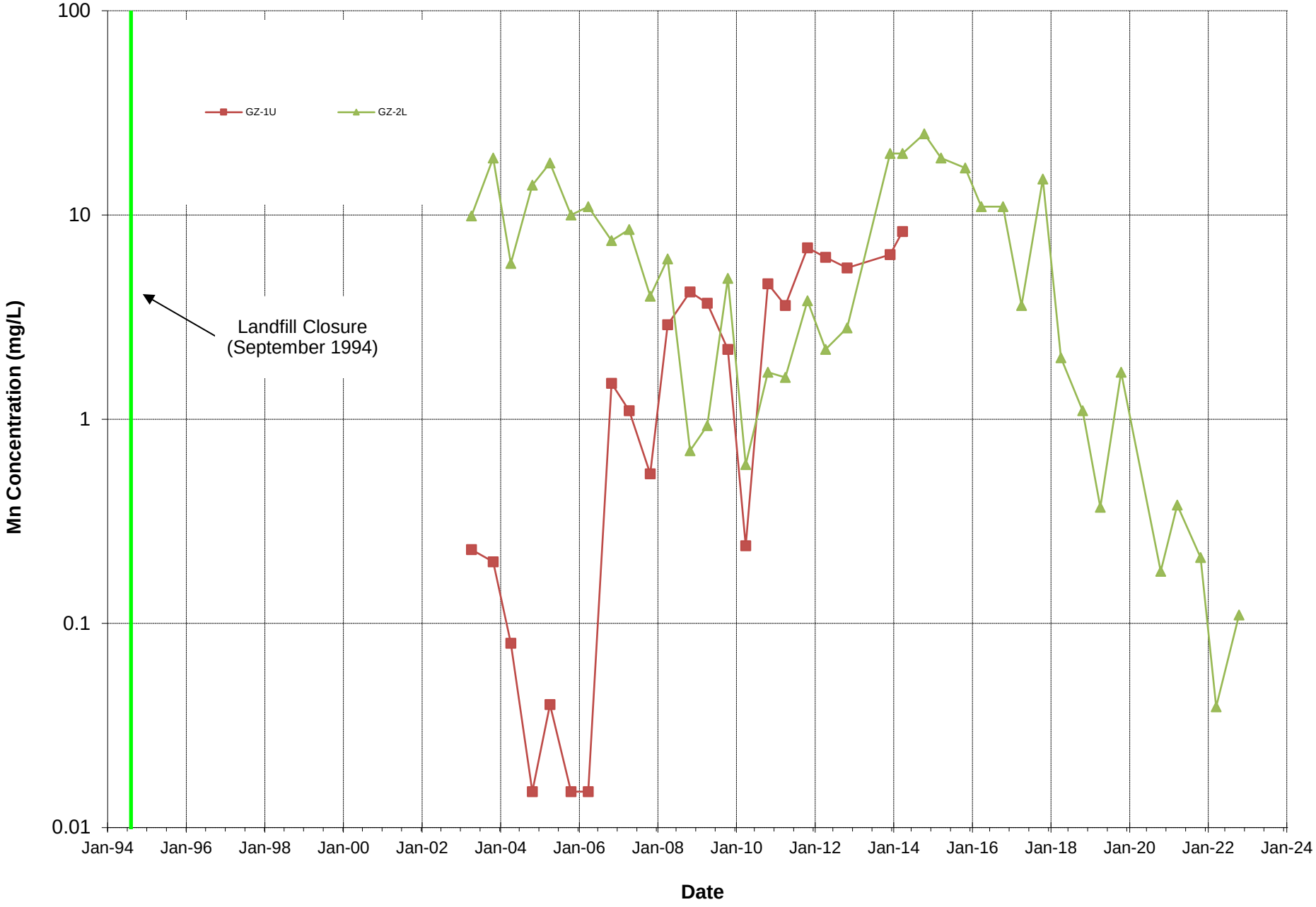
PLOT 3A
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



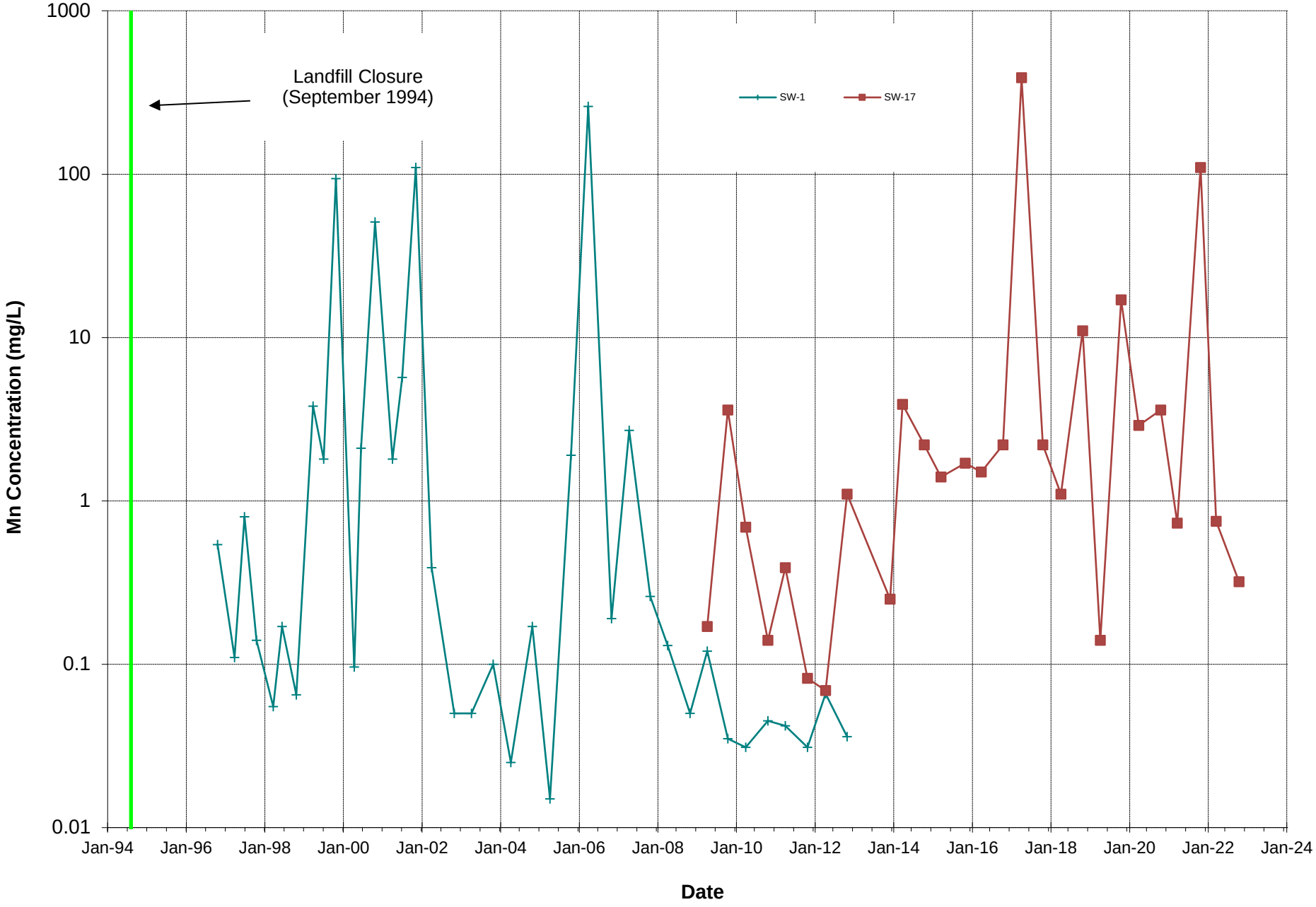
PLOT 3B
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



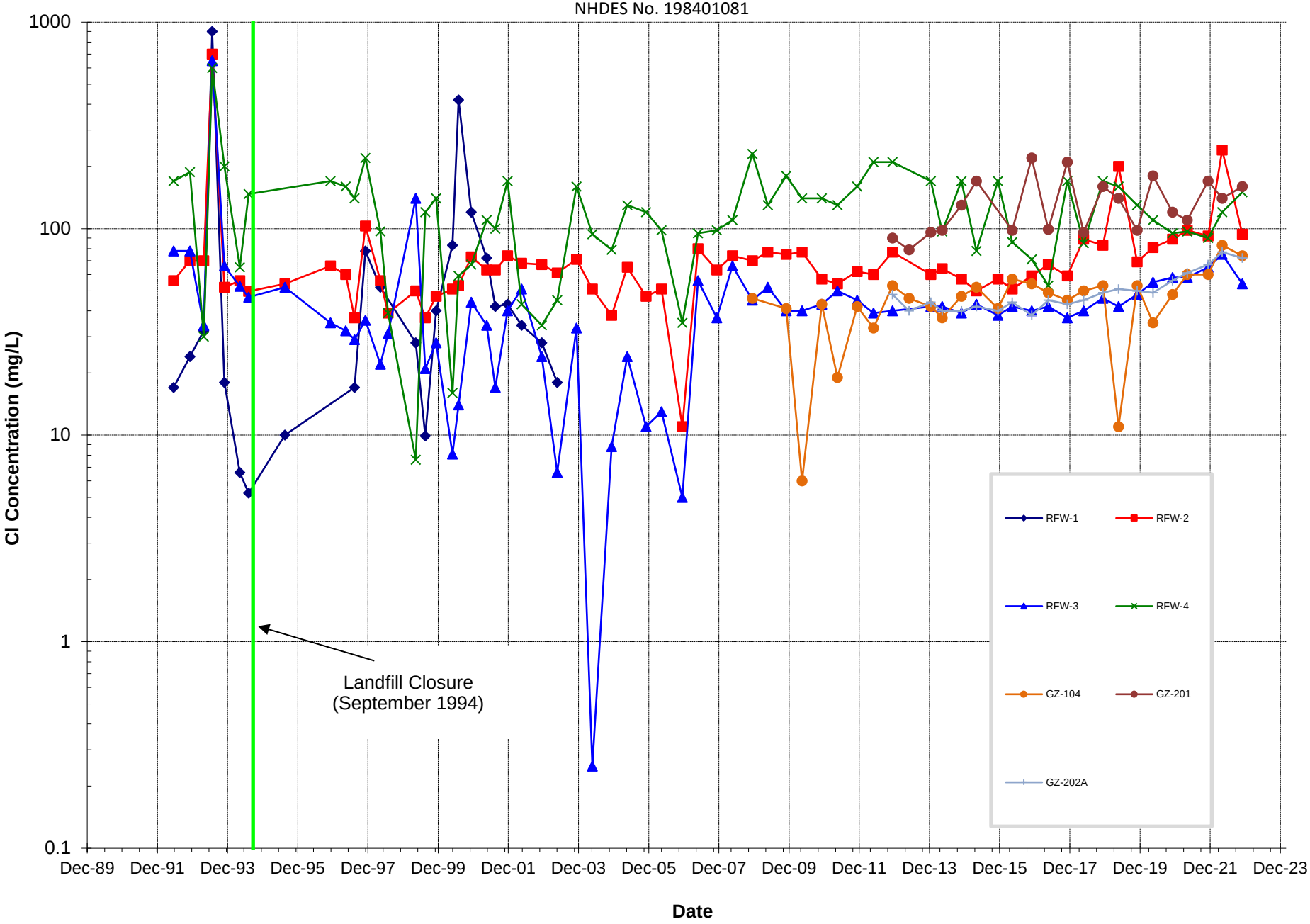
PLOT 3C
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



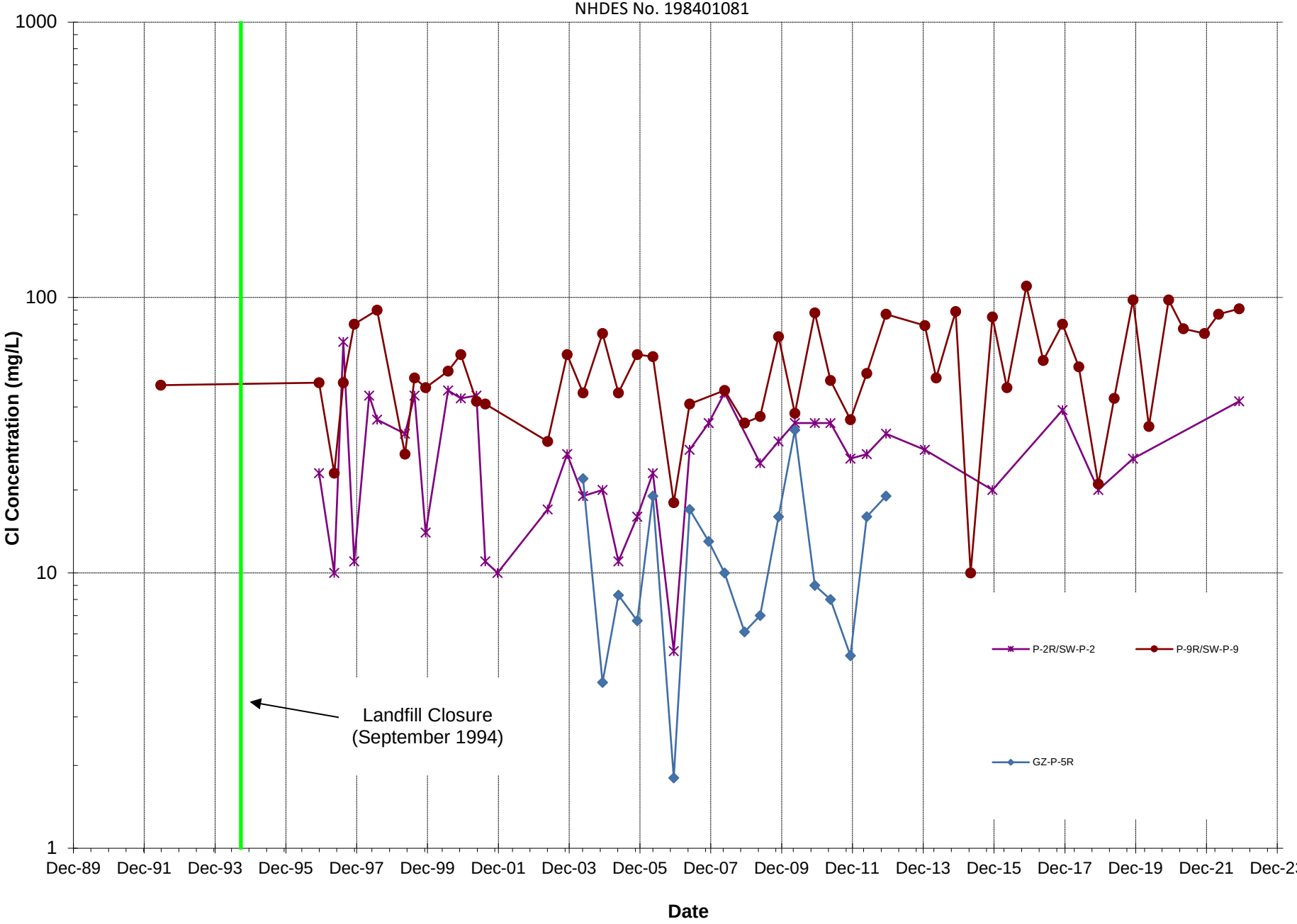
PLOT 3D
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



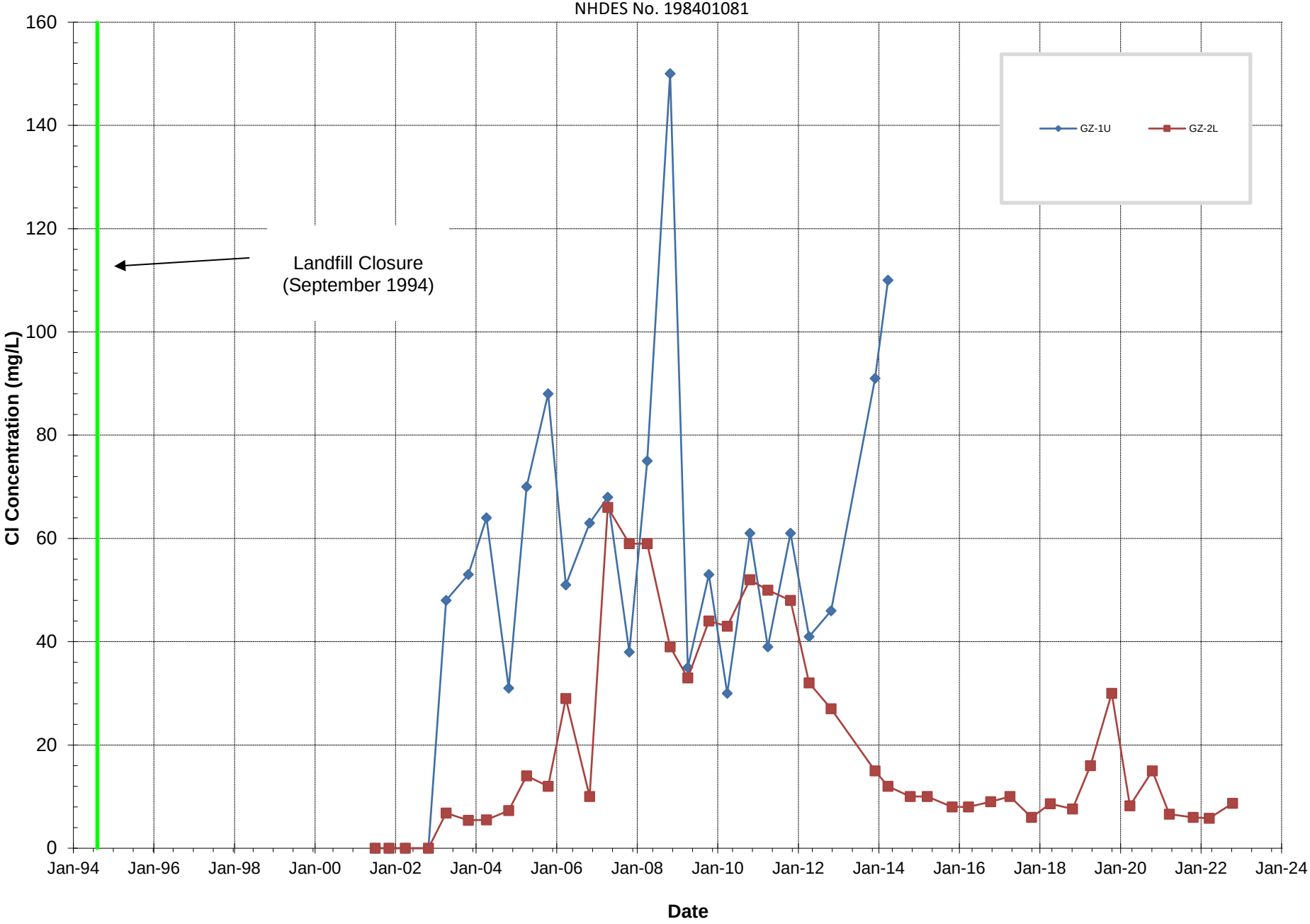
PLOT 4A
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



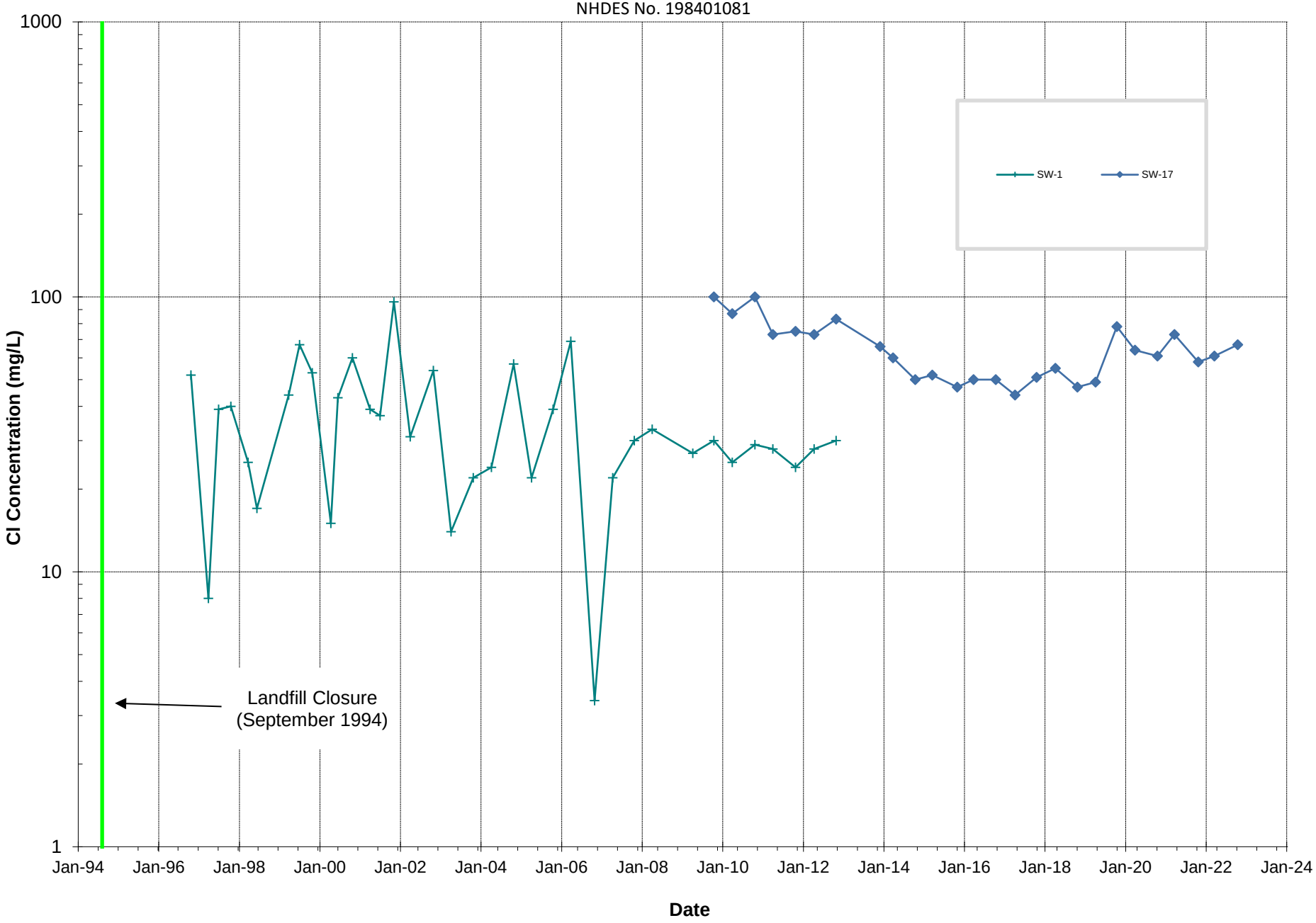
PLOT 4B
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



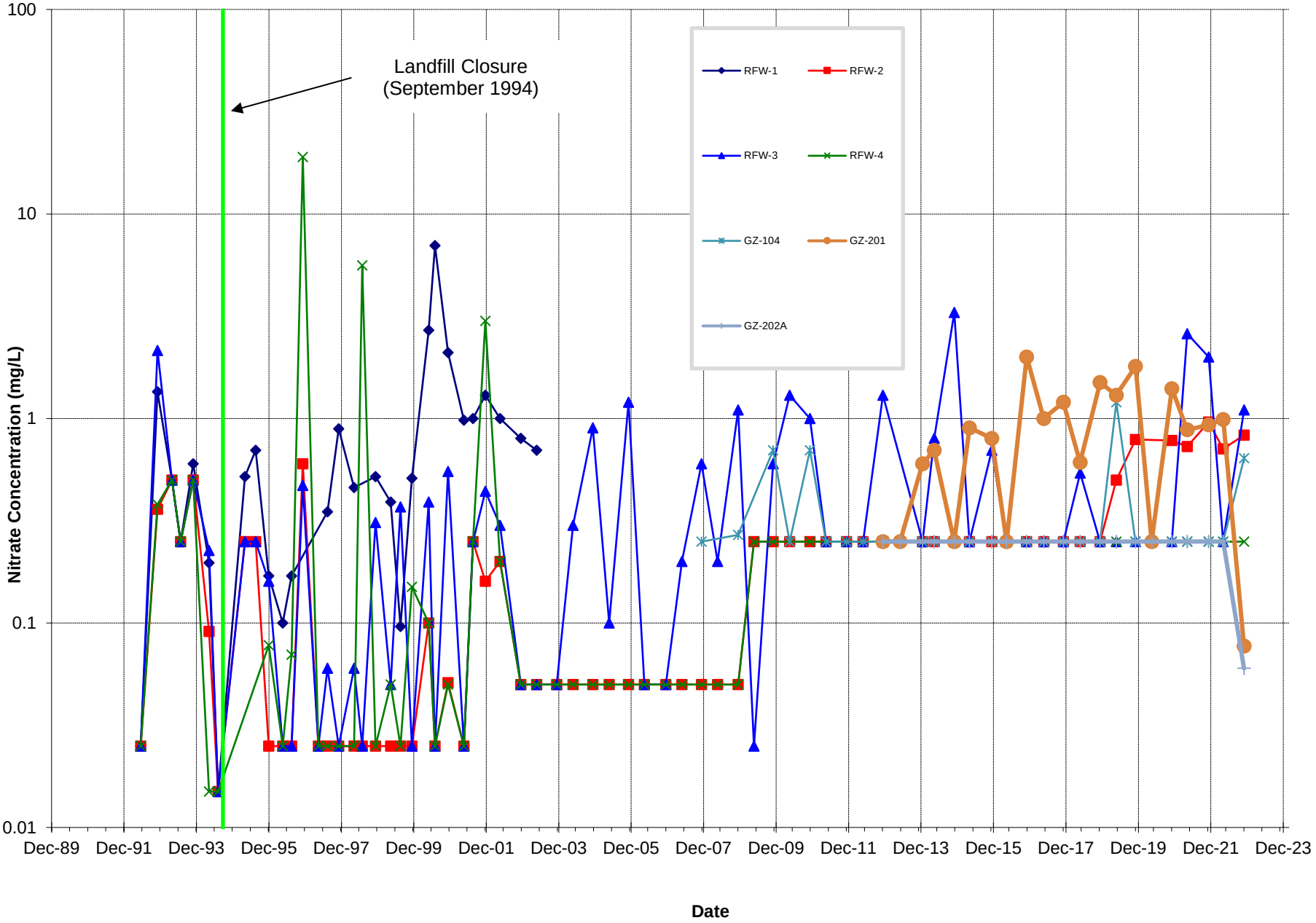
PLOT 4C
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



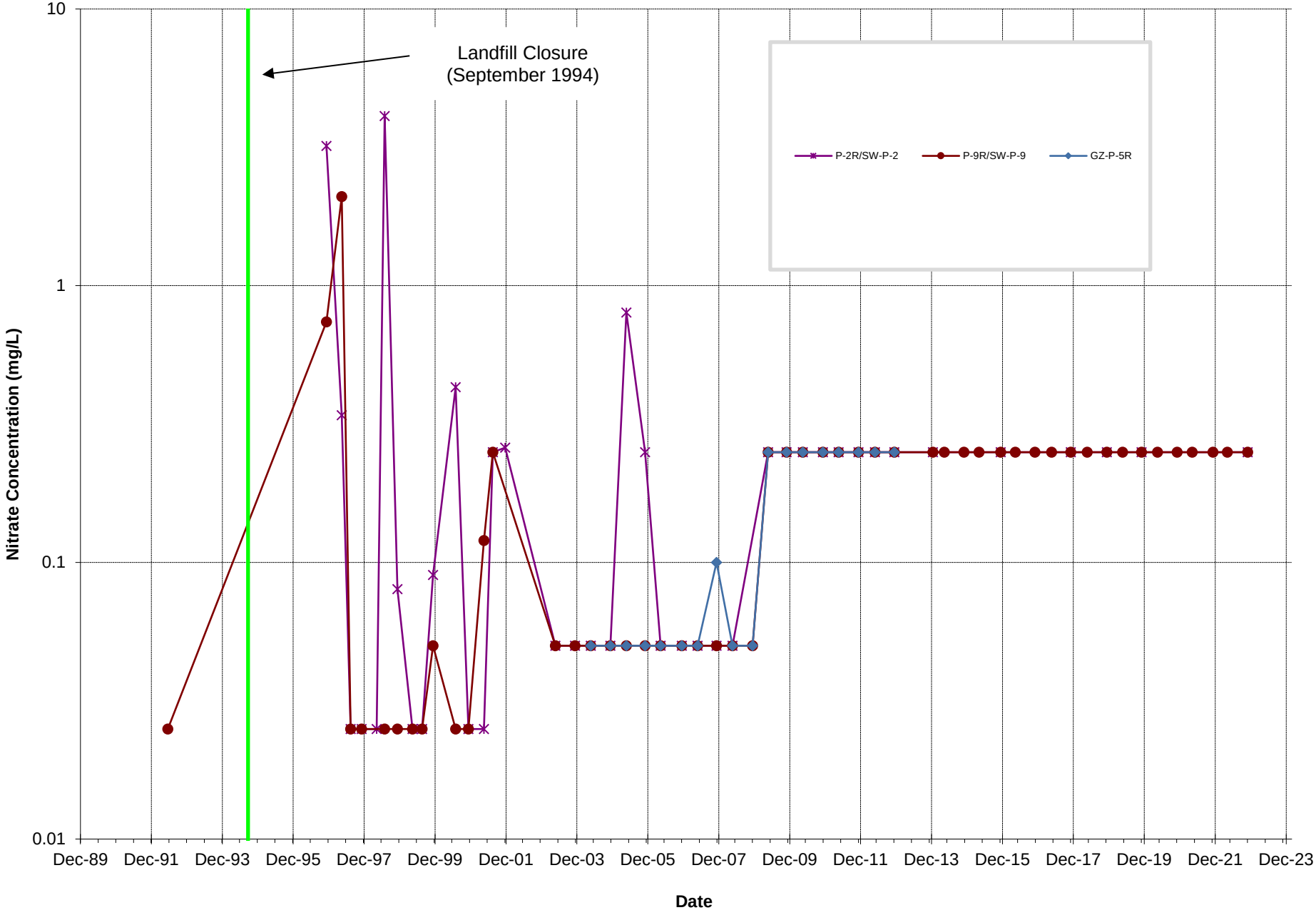
PLOT 4D
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



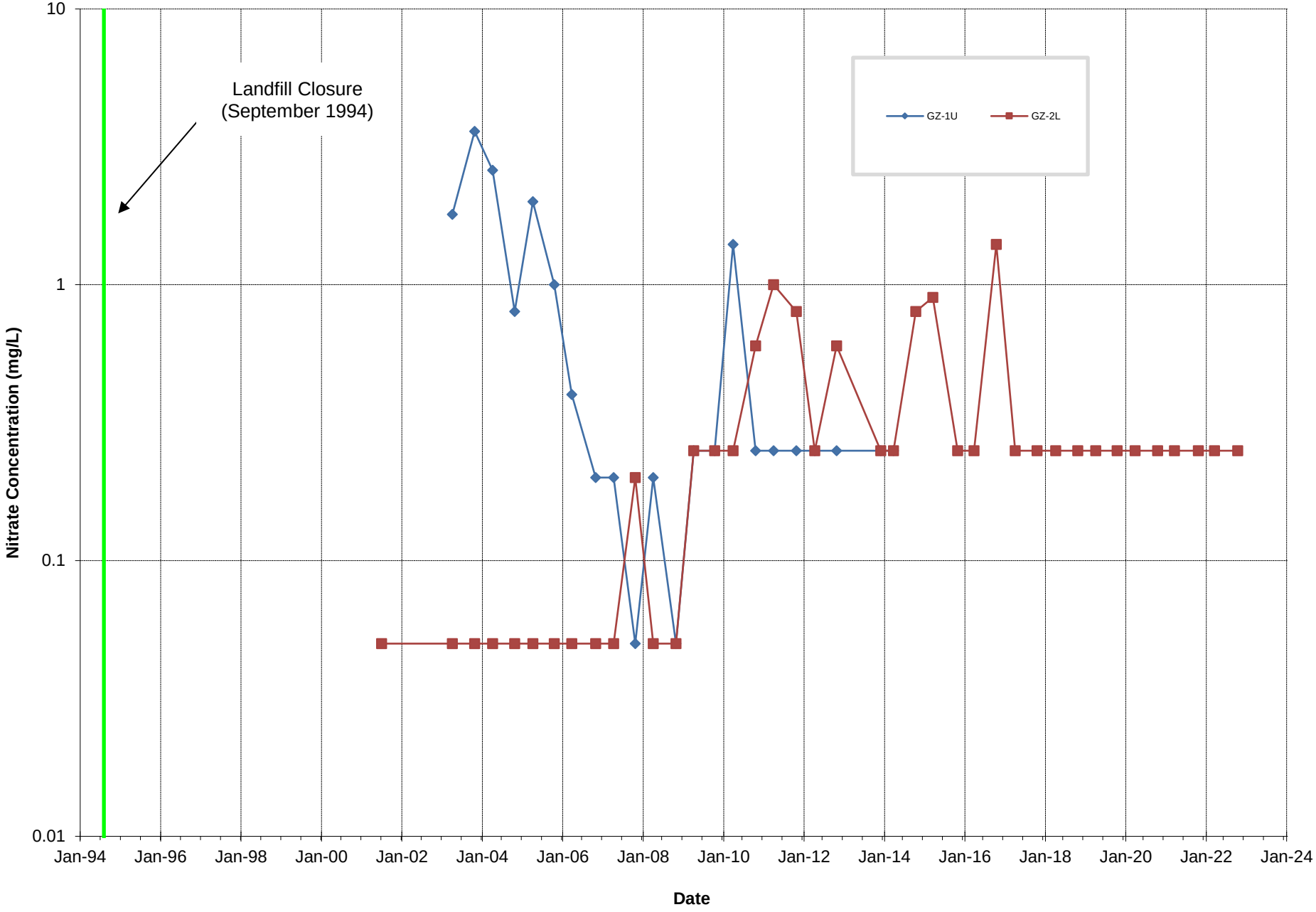
PLOT 5A
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



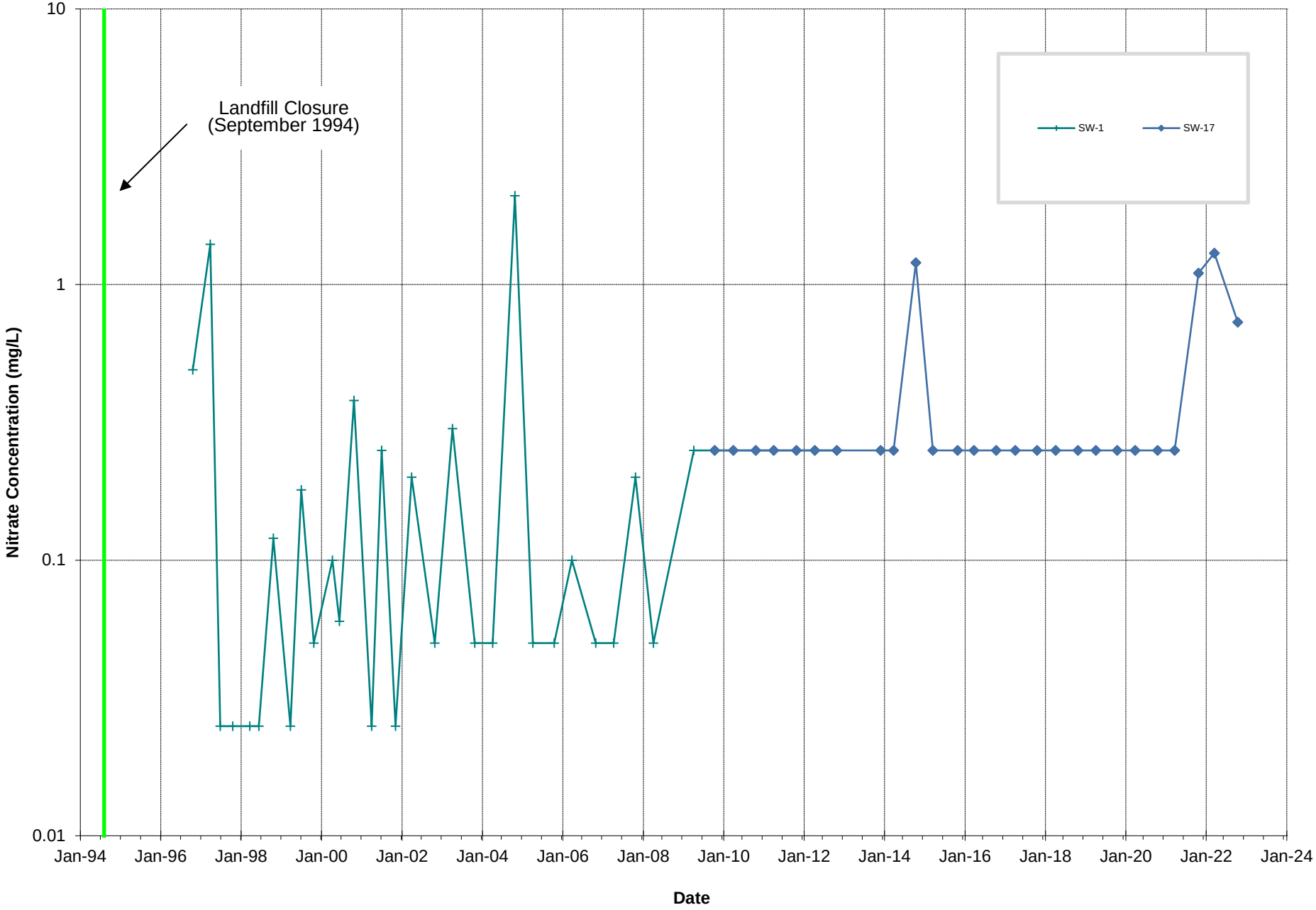
PLOT 5B
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



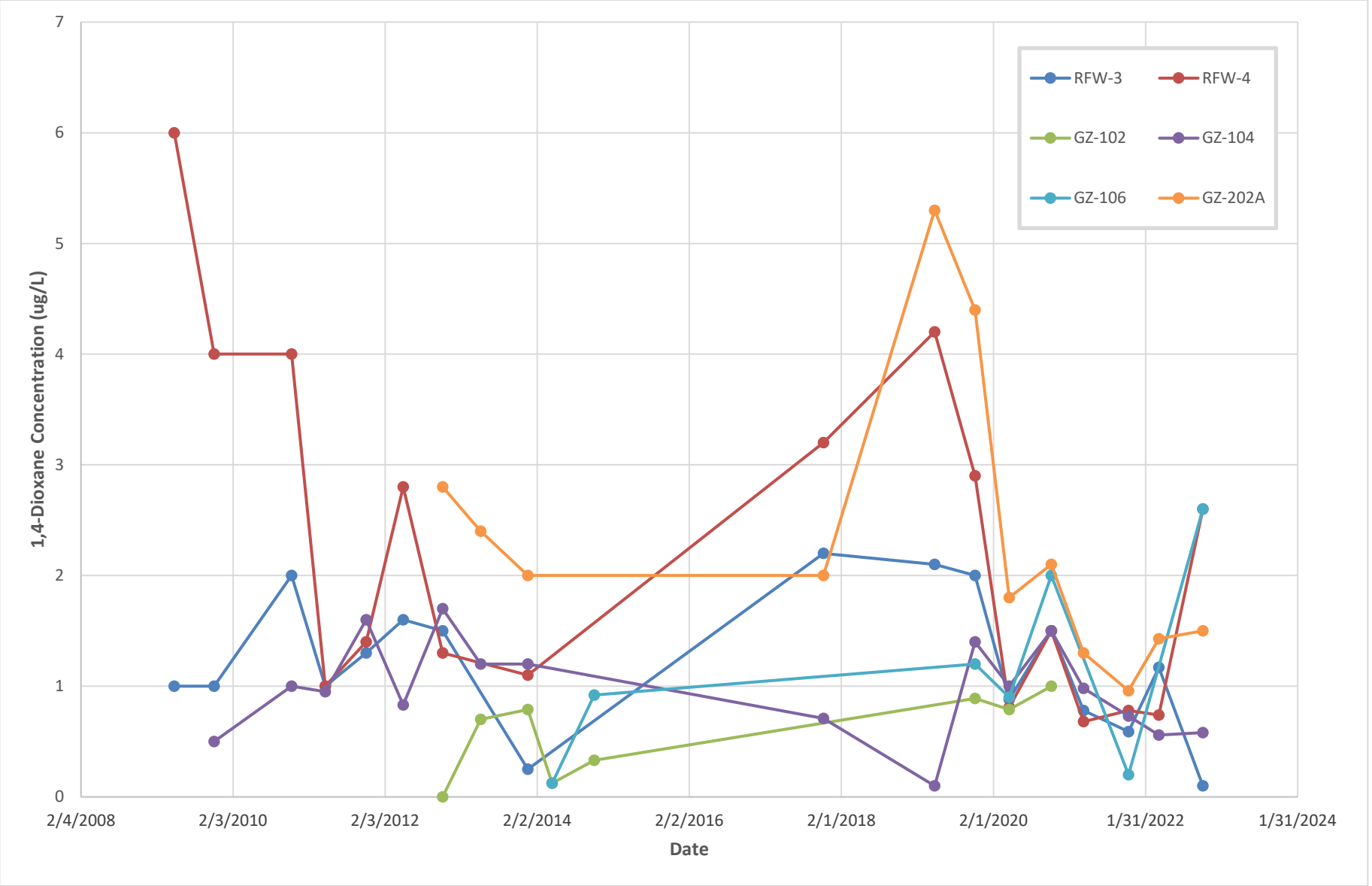
PLOT 5C
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



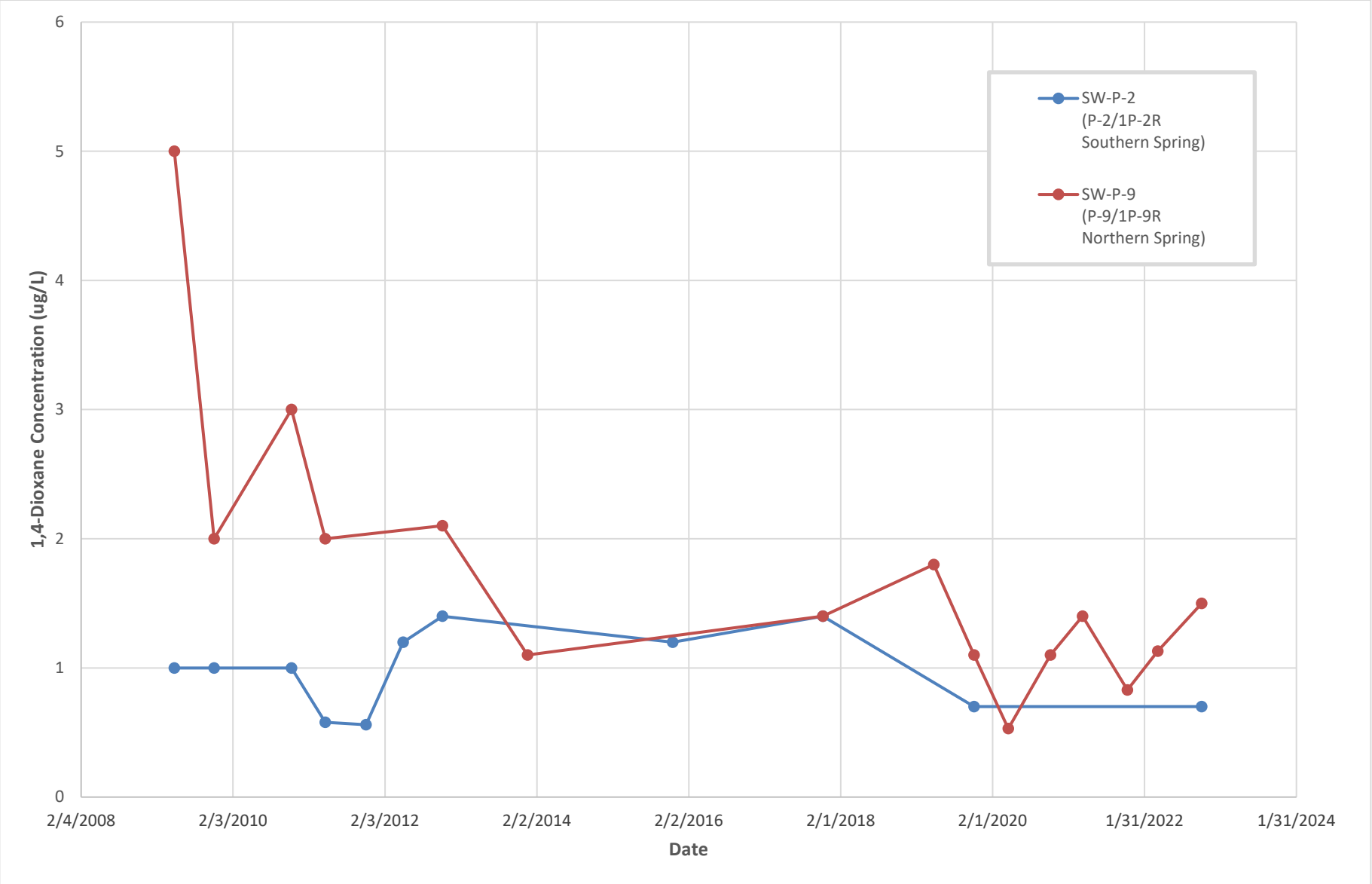
PLOT 5D
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



PLOT 6A
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



PLOT 6B
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



PLOT 6C
SUMMARY OF CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

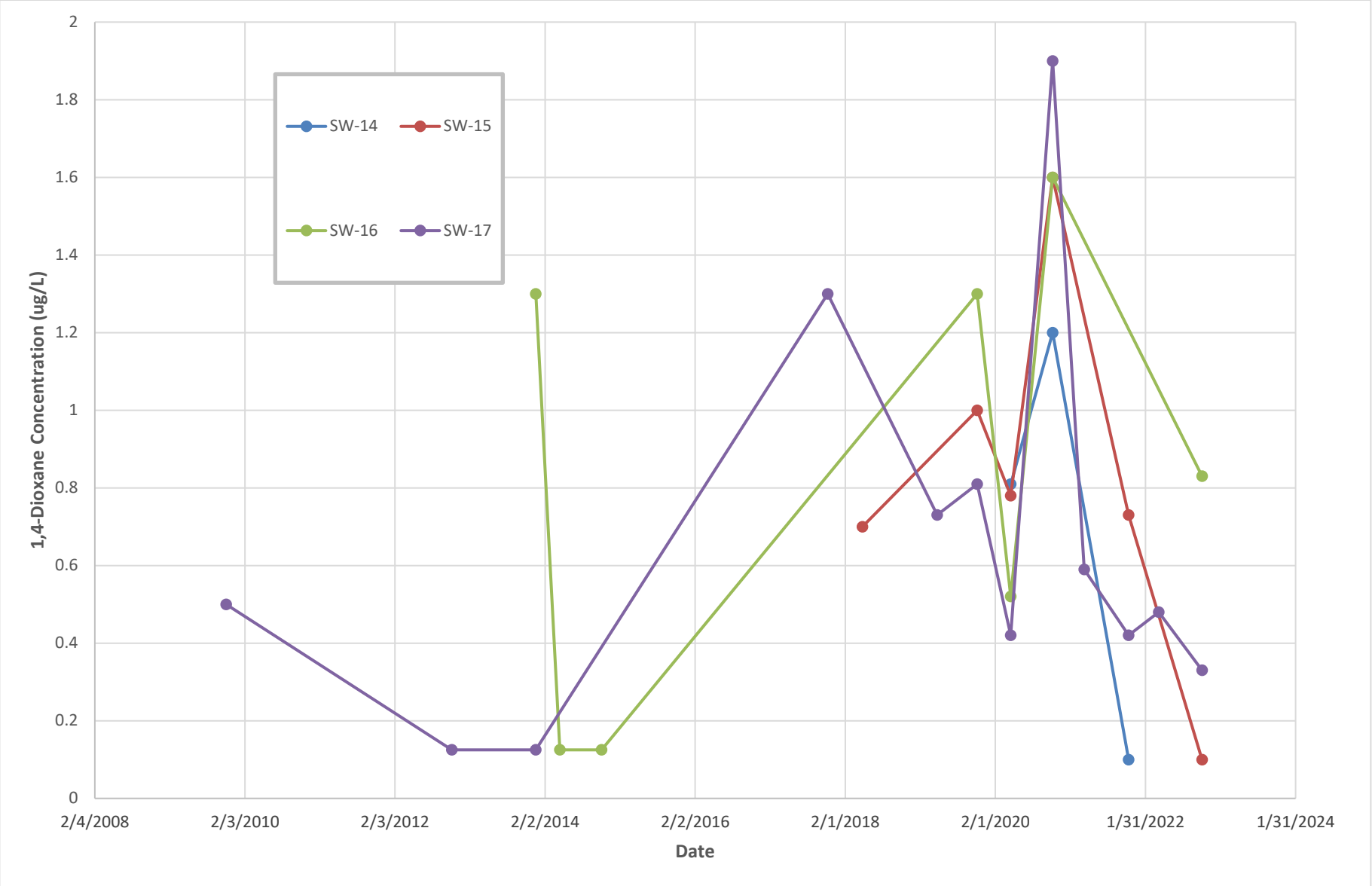


TABLE 1
WATER QUALITY SUMMARY TABLE
Cross Road Landfill
Exeter, New Hampshire

Notes
1. Concentrations are in milligrams per liter (mg/l) which are roughly equivalent to parts per million (ppm).
2. "-" indicates that no measurement made/not applicable.
3. < 1.6 indicates the parameter was not detected above the detection limit shown.
4. Bold-face print indicates detection.
5. NH AGQS indicates New Hampshire Ambient Groundwater Quality Standards as defined in the State of New Hampshire Code of Administrative Rules Env-Wm 1403.05.
6. Shading indicates that the measured level exceeds its Secondary Maximum Contaminant Level (SMCL) or Water Quality Criteria for Toxic Substances (WQCTS) as defined by State of New
Hampshire Code of Administrative Rules Env-Wm 1703.21.
7. NE indicates none established.
8. "DA" indicates Chain of Custody indicates sample taken and volatile organic compound (VOC) laboratory report not available.

November 2022 Analytical Laboratory Data

Eastern Analytical, Inc.

professional laboratory and drilling services

Jennifer Perry
Exeter, Town of
Town Office, 13 Newfields Road
Exeter , NH 03833-2792

Laboratory Report for:

Eastern Analytical, Inc. ID: 251840
Client Identification: Cross Road Landfill | Nov 2022
Date Received: 11/4/2022

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:
< : "less than" followed by the reporting limit
> : "greater than" followed by the reporting limit
%R : % Recovery

Certifications:
Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072), West Virginia (9910C) and Alabama (41620). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.

References:
- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992
- ASTM International

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw, Lab Director — 12.2.22 Date

SAMPLE CONDITIONS PAGE

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Temperature upon receipt (°C): 1.5 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
251840.01	GZ-104	11/4/22	11/3/22 13:40	aqueous		Adheres to Sample Acceptance Policy
251840.02	GZ-201	11/4/22	11/3/22 16:40	aqueous		Adheres to Sample Acceptance Policy
251840.03	GZ-202A	11/4/22	11/3/22 08:40	aqueous		Adheres to Sample Acceptance Policy
251840.04	P-9R	11/4/22	11/3/22 10:35	aqueous		Adheres to Sample Acceptance Policy
251840.05	RFW-2	11/4/22	11/3/22 09:20	aqueous		Adheres to Sample Acceptance Policy
251840.06	RFW-3	11/4/22	11/2/22 17:30	aqueous		Adheres to Sample Acceptance Policy
251840.07	RFW-4	11/4/22	11/3/22 11:20	aqueous		Adheres to Sample Acceptance Policy
251840.08	GZ-1L	11/4/22	11/3/22 08:15	aqueous		Adheres to Sample Acceptance Policy
251840.09	GZ-2L	11/4/22	11/3/22 09:05	aqueous		Adheres to Sample Acceptance Policy
251840.1	GZ-3L	11/4/22	11/3/22 11:50	aqueous		Adheres to Sample Acceptance Policy
251840.11	SW-17	11/4/22	11/3/22 14:55	aqueous		Adheres to Sample Acceptance Policy
251840.12	Upstream of Seep	11/4/22	11/3/22 14:35	aqueous		Adheres to Sample Acceptance Policy
251840.13	SW-14	11/4/22	11/3/22 14:25	aqueous		Adheres to Sample Acceptance Policy
251840.14	SW-15	11/4/22	11/3/22 14:05	aqueous		Adheres to Sample Acceptance Policy
251840.15	SW-11	11/4/22	11/3/22 12:45	aqueous		Adheres to Sample Acceptance Policy
251840.16	SW-10	11/4/22	11/3/22 12:20	aqueous		Adheres to Sample Acceptance Policy
251840.17	GZ-105	11/4/22	11/3/22 13:20	aqueous		Adheres to Sample Acceptance Policy
251840.18	GZ-106	11/4/22	11/3/22 15:35	aqueous		Adheres to Sample Acceptance Policy
251840.19	GZ-107	11/4/22	11/3/22 16:30	aqueous		Adheres to Sample Acceptance Policy
251840.2	P-2R	11/4/22	11/3/22 10:10	aqueous		Adheres to Sample Acceptance Policy
251840.21	SW-13	11/4/22	11/3/22 10:55	aqueous		Adheres to Sample Acceptance Policy
251840.22	SW-16	11/4/22	11/3/22 15:55	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- *Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.*
- *Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitablity, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.*
- *Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.*
- *Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.*

SAMPLE CONDITIONS PAGE

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Temperature upon receipt (°C): 1.5 **Received on ice or cold packs (Yes/No): Y**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
251840.23	Trip Blank	11/4/22	10/21/22 07:30	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- *Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.*
- *Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.*
- *Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.*
- *Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.*

LABORATORY REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Sample ID:	GZ-104	GZ-201	GZ-202A	P-9R
Lab Sample ID:	251840.01	251840.02	251840.03	251840.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	11/3/22	11/3/22	11/3/22	11/3/22
Date Received:	11/4/22	11/4/22	11/4/22	11/4/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	11/8/22	11/8/22	11/8/22	11/8/22
Analyst:	DGM	DGM	DGM	DGM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1

LABORATORY REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Sample ID:	GZ-104	GZ-201	GZ-202A	P-9R
Lab Sample ID:	251840.01	251840.02	251840.03	251840.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	11/3/22	11/3/22	11/3/22	11/3/22
Date Received:	11/4/22	11/4/22	11/4/22	11/4/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	11/8/22	11/8/22	11/8/22	11/8/22
Analyst:	DGM	DGM	DGM	DGM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	**41**
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	**88 %R**	**87 %R**	**87 %R**	**88 %R**
1,2-Dichlorobenzene-d4 (surr)	**104 %R**	**106 %R**	**106 %R**	**100 %R**
Toluene-d8 (surr)	**96 %R**	**96 %R**	**96 %R**	**95 %R**
1,2-Dichloroethane-d4 (surr)	**112 %R**	**112 %R**	**114 %R**	**115 %R**

LABORATORY REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Sample ID:	RFW-2	RFW-3	RFW-4	GZ-1L
Lab Sample ID:	251840.05	251840.06	251840.07	251840.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	11/3/22	11/2/22	11/3/22	11/3/22
Date Received:	11/4/22	11/4/22	11/4/22	11/4/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	11/8/22	11/8/22	11/8/22	11/8/22
Analyst:	DGM	DGM	DGM	DGM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	**8.3**	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	**2.4**	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1

LABORATORY REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Sample ID:	RFW-2	RFW-3	RFW-4	GZ-1L
Lab Sample ID:	251840.05	251840.06	251840.07	251840.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	11/3/22	11/2/22	11/3/22	11/3/22
Date Received:	11/4/22	11/4/22	11/4/22	11/4/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	11/8/22	11/8/22	11/8/22	11/8/22
Analyst:	DGM	DGM	DGM	DGM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	**87 %R**	**86 %R**	**86 %R**	**85 %R**
1,2-Dichlorobenzene-d4 (surr)	**106 %R**	**106 %R**	**107 %R**	**107 %R**
Toluene-d8 (surr)	**96 %R**	**96 %R**	**96 %R**	**95 %R**
1,2-Dichloroethane-d4 (surr)	**115 %R**	**115 %R**	**115 %R**	**116 %R**

LABORATORY REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Sample ID:	GZ-2L	GZ-3L	SW-17	SW-15
Lab Sample ID:	251840.09	251840.1	251840.11	251840.14
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	11/3/22	11/3/22	11/3/22	11/3/22
Date Received:	11/4/22	11/4/22	11/4/22	11/4/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	11/8/22	11/8/22	11/8/22	11/8/22
Analyst:	DGM	DGM	DGM	DGM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	**24**	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1

LABORATORY REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Sample ID:	GZ-2L	GZ-3L	SW-17	SW-15
Lab Sample ID:	251840.09	251840.1	251840.11	251840.14
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	11/3/22	11/3/22	11/3/22	11/3/22
Date Received:	11/4/22	11/4/22	11/4/22	11/4/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	11/8/22	11/8/22	11/8/22	11/8/22
Analyst:	DGM	DGM	DGM	DGM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	**1.1**	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	**87 %R**	**85 %R**	**85 %R**	**85 %R**
1,2-Dichlorobenzene-d4 (surr)	**101 %R**	**106 %R**	**107 %R**	**107 %R**
Toluene-d8 (surr)	**105 %R**	**95 %R**	**95 %R**	**95 %R**
1,2-Dichloroethane-d4 (surr)	**116 %R**	**116 %R**	**118 %R**	**118 %R**

LABORATORY REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Sample ID:	P-2R	SW-13	SW-16	Trip Blank
Lab Sample ID:	251840.2	251840.21	251840.22	251840.23
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	11/3/22	11/3/22	11/3/22	10/21/22
Date Received:	11/4/22	11/4/22	11/4/22	11/4/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	11/8/22	11/8/22	11/8/22	11/8/22
Analyst:	DGM	DGM	DGM	DGM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Dichlorodifluoromethane	< 2	< 2	< 2	< 2
Chloromethane	< 2	< 2	< 2	< 2
Vinyl chloride	< 1	< 1	< 1	< 1
Bromomethane	< 2	< 2	< 2	< 2
Chloroethane	< 2	< 2	< 2	< 2
Trichlorofluoromethane	< 2	< 2	< 2	< 2
Diethyl Ether	< 2	< 2	< 2	< 2
Acetone	< 10	< 10	< 10	< 10
1,1-Dichloroethene	< 0.5	< 0.5	< 0.5	< 0.5
tert-Butyl Alcohol (TBA)	< 30	< 30	< 30	< 30
Methylene chloride	< 1	< 1	< 1	< 1
Carbon disulfide	< 2	< 2	< 2	< 2
Methyl-t-butyl ether(MTBE)	< 1	< 1	< 1	< 1
Ethyl-t-butyl ether(ETBE)	< 2	< 2	< 2	< 2
Isopropyl ether(DIPE)	< 2	< 2	< 2	< 2
tert-amyl methyl ether(TAME)	< 2	< 2	< 2	< 2
trans-1,2-Dichloroethene	< 1	< 1	< 1	< 1
1,1-Dichloroethane	< 1	< 1	< 1	< 1
2,2-Dichloropropane	< 1	< 1	< 1	< 1
cis-1,2-Dichloroethene	< 1	< 1	< 1	< 1
2-Butanone(MEK)	< 10	< 10	< 10	< 10
Bromochloromethane	< 1	< 1	< 1	< 1
Tetrahydrofuran(THF)	< 10	< 10	< 10	< 10
Chloroform	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	< 1	< 1	< 1	< 1
Carbon tetrachloride	< 1	< 1	< 1	< 1
1,1-Dichloropropene	< 1	< 1	< 1	< 1
Benzene	< 1	< 1	< 1	< 1
1,2-Dichloroethane	< 1	< 1	< 1	< 1
Trichloroethene	< 1	< 1	< 1	< 1
1,2-Dichloropropane	< 1	< 1	< 1	< 1
Dibromomethane	< 1	< 1	< 1	< 1
Bromodichloromethane	< 0.5	< 0.5	< 0.5	< 0.5
1,4-Dioxane	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone(MIBK)	< 10	< 10	< 10	< 10
cis-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
Toluene	< 1	< 1	< 1	< 1
trans-1,3-Dichloropropene	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-Trichloroethane	< 1	< 1	< 1	< 1
2-Hexanone	< 10	< 10	< 10	< 10
Tetrachloroethene	< 1	< 1	< 1	< 1
1,3-Dichloropropane	< 1	< 1	< 1	< 1
Dibromochloromethane	< 1	< 1	< 1	< 1
1,2-Dibromoethane(EDB)	< 0.5	< 0.5	< 0.5	< 0.5
Chlorobenzene	< 1	< 1	< 1	< 1
1,1,1,2-Tetrachloroethane	< 1	< 1	< 1	< 1

LABORATORY REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Sample ID:	P-2R	SW-13	SW-16	Trip Blank
Lab Sample ID:	251840.2	251840.21	251840.22	251840.23
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	11/3/22	11/3/22	11/3/22	10/21/22
Date Received:	11/4/22	11/4/22	11/4/22	11/4/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	11/8/22	11/8/22	11/8/22	11/8/22
Analyst:	DGM	DGM	DGM	DGM
Method:	8260C	8260C	8260C	8260C
Dilution Factor:	1	1	1	1
Ethylbenzene	< 1	< 1	< 1	< 1
mp-Xylene	< 1	< 1	< 1	< 1
o-Xylene	< 1	< 1	< 1	< 1
Styrene	< 1	< 1	< 1	< 1
Bromoform	< 2	< 2	< 2	< 2
IsoPropylbenzene	< 1	< 1	< 1	< 1
Bromobenzene	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	< 0.5	< 0.5	< 0.5	< 0.5
n-Propylbenzene	< 1	< 1	< 1	< 1
2-Chlorotoluene	< 1	< 1	< 1	< 1
4-Chlorotoluene	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	< 1	< 1	< 1	< 1
tert-Butylbenzene	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	< 1	< 1	< 1	< 1
sec-Butylbenzene	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	< 1	< 1	< 1	< 1
p-Isopropyltoluene	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	< 1	< 1	< 1	< 1
n-Butylbenzene	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	< 2	< 2	< 2	< 2
1,3,5-Trichlorobenzene	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	< 1	< 1	< 1	< 1
Hexachlorobutadiene	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	< 2	< 2	< 2	< 2
1,2,3-Trichlorobenzene	< 0.5	< 0.5	< 0.5	< 0.5
4-Bromofluorobenzene (surr)	**85 %R**	**85 %R**	**85 %R**	**87 %R**
1,2-Dichlorobenzene-d4 (surr)	**108 %R**	**107 %R**	**106 %R**	**104 %R**
Toluene-d8 (surr)	**94 %R**	**94 %R**	**94 %R**	**97 %R**
1,2-Dichloroethane-d4 (surr)	**118 %R**	**118 %R**	**118 %R**	**110 %R**

QC REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Batch ID: 63803514966

Client Designation: **Cross Road Landfill | Nov 2022**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 2	19 (97 %R)	18 (92 %R) (5 RPD)	11/7/2022	ug/L	40 - 160	20	8260C
Chloromethane	< 2	21 (106 %R)	20 (100 %R) (6 RPD)	11/7/2022	ug/L	40 - 160	20	8260C
Vinyl chloride	< 1	23 (114 %R)	22 (109 %R) (5 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Bromomethane	< 2	19 (97 %R)	19 (94 %R) (3 RPD)	11/7/2022	ug/L	40 - 160	20	8260C
Chloroethane	< 2	21 (107 %R)	20 (101 %R) (5 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Trichlorofluoromethane	< 2	20 (99 %R)	19 (95 %R) (4 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Diethyl Ether	< 2	17 (84 %R)	17 (84 %R) (1 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Acetone	< 10	19 (94 %R)	19 (94 %R) (0 RPD)	11/7/2022	ug/L	40 - 160	20	8260C
1,1-Dichloroethene	< 0.5	21 (104 %R)	20 (101 %R) (4 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
tert-Butyl Alcohol (TBA)	< 30	93 (93 %R)	91 (91 %R) (2 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Methylene chloride	< 1	21 (106 %R)	21 (103 %R) (3 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Carbon disulfide	< 2	18 (88 %R)	17 (86 %R) (3 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 1	20 (98 %R)	19 (97 %R) (0 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Ethyl-t-butyl ether(ETBE)	< 2	17 (84 %R)	17 (83 %R) (2 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Isopropyl ether(DIPE)	< 2	18 (92 %R)	20 (98 %R) (7 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
tert-amyl methyl ether(TAME)	< 2	16 (78 %R)	15 (77 %R) (1 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 1	21 (107 %R)	21 (104 %R) (3 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
1,1-Dichloroethane	< 1	22 (109 %R)	21 (105 %R) (3 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
2,2-Dichloropropane	< 1	16 (80 %R)	15 (75 %R) (6 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 1	20 (102 %R)	20 (100 %R) (2 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
2-Butanone(MEK)	< 10	16 (80 %R)	16 (80 %R) (0 RPD)	11/7/2022	ug/L	40 - 160	20	8260C
Bromochloromethane	< 1	21 (106 %R)	21 (103 %R) (2 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 10	14 (71 %R)	14 (71 %R) (0 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Chloroform	< 1	22 (108 %R)	21 (105 %R) (3 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
1,1,1-Trichloroethane	< 1	21 (103 %R)	20 (99 %R) (4 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Carbon tetrachloride	< 1	21 (103 %R)	20 (99 %R) (4 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
1,1-Dichloropropene	< 1	19 (97 %R)	19 (94 %R) (4 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Benzene	< 1	21 (107 %R)	21 (103 %R) (3 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
1,2-Dichloroethane	< 1	21 (106 %R)	21 (104 %R) (1 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Trichloroethene	< 1	21 (103 %R)	20 (100 %R) (3 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
1,2-Dichloropropane	< 1	21 (105 %R)	21 (103 %R) (2 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Dibromomethane	< 1	21 (105 %R)	21 (104 %R) (1 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Bromodichloromethane	< 0.5	20 (101 %R)	20 (99 %R) (2 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
1,4-Dioxane	< 50	< 50 (68 %R)	< 50 (67 %R) (2 RPD)	11/7/2022	ug/L	40 - 160	20	8260C
4-Methyl-2-pentanone(MIBK)	< 10	14 (71 %R)	14 (72 %R) (1 RPD)	11/7/2022	ug/L	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.5	18 (91 %R)	18 (90 %R) (2 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Toluene	< 1	21 (105 %R)	20 (102 %R) (3 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
trans-1,3-Dichloropropene	< 0.5	19 (93 %R)	20 (101 %R) (8 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
1,1,2-Trichloroethane	< 1	22 (111 %R)	22 (110 %R) (1 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
2-Hexanone	< 10	14 (71 %R)	14 (71 %R) (0 RPD)	11/7/2022	ug/L	40 - 160	20	8260C
Tetrachloroethene	< 1	21 (106 %R)	21 (103 %R) (3 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
1,3-Dichloropropane	< 1	21 (106 %R)	21 (105 %R) (1 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Dibromochloromethane	< 1	20 (98 %R)	19 (97 %R) (1 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.5	21 (106 %R)	21 (105 %R) (0 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Chlorobenzene	< 1	21 (105 %R)	21 (103 %R) (2 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 1	21 (105 %R)	21 (103 %R) (2 RPD)	11/7/2022	ug/L	70 - 130	20	8260C

QC REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Batch ID: 63803514966

Client Designation: **Cross Road Landfill | Nov 2022**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	21 (104 %R)	20 (101 %R) (3 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
mp-Xylene	< 1	43 (108 %R)	42 (104 %R) (4 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
o-Xylene	< 1	21 (104 %R)	20 (101 %R) (3 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Styrene	< 1	21 (104 %R)	20 (102 %R) (2 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Bromoform	< 2	20 (101 %R)	20 (100 %R) (0 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
IsoPropylbenzene	< 1	20 (102 %R)	20 (99 %R) (3 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Bromobenzene	< 1	20 (98 %R)	19 (96 %R) (2 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 1	20 (102 %R)	20 (102 %R) (0 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.5	20 (99 %R)	20 (100 %R) (1 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
n-Propylbenzene	< 1	20 (101 %R)	20 (98 %R) (3 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
2-Chlorotoluene	< 1	21 (103 %R)	20 (99 %R) (3 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
4-Chlorotoluene	< 1	20 (99 %R)	19 (97 %R) (2 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 1	19 (95 %R)	19 (93 %R) (2 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
tert-Butylbenzene	< 1	19 (96 %R)	19 (93 %R) (3 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 1	20 (102 %R)	20 (99 %R) (3 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
sec-Butylbenzene	< 1	21 (103 %R)	20 (99 %R) (4 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
1,3-Dichlorobenzene	< 1	20 (98 %R)	19 (97 %R) (2 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
p-Isopropyltoluene	< 1	19 (97 %R)	19 (94 %R) (3 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
1,4-Dichlorobenzene	< 1	20 (98 %R)	19 (97 %R) (1 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
1,2-Dichlorobenzene	< 1	20 (102 %R)	20 (101 %R) (1 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
n-Butylbenzene	< 1	20 (100 %R)	19 (97 %R) (3 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 2	18 (91 %R)	18 (91 %R) (0 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
1,3,5-Trichlorobenzene	< 1	20 (101 %R)	20 (99 %R) (2 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 1	16 (82 %R)	16 (81 %R) (1 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Hexachlorobutadiene	< 0.5	20 (99 %R)	19 (96 %R) (3 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
Naphthalene	< 2	18 (92 %R)	18 (91 %R) (0 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.5	21 (106 %R)	21 (105 %R) (1 RPD)	11/7/2022	ug/L	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	89 %R	99 %R	98 %R	11/7/2022	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	104 %R	98 %R	98 %R	11/7/2022	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	97 %R	100 %R	100 %R	11/7/2022	% Rec	70 - 130	20	8260C
1,2-Dichloroethane-d4 (surr)	110 %R	104 %R	104 %R	11/7/2022	% Rec	70 - 130	20	8260C

*/! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.

LABORATORY REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Sample ID:	GZ-104	GZ-201	GZ-202A	P-9R
Lab Sample ID:	251840.01	251840.02	251840.03	251840.04
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	11/3/22	11/3/22	11/3/22	11/3/22
Date Received:	11/4/22	11/4/22	11/4/22	11/4/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	11/4/22	11/4/22	11/4/22	11/4/22
Analyst:	MLW	MLW	MLW	MLW
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	**0.58**	< 0.2	**1.5**	**1.5**
4-Bromofluorobenzene (surr)	**102 %R**	**101 %R**	**101 %R**	**104 %R**
Toluene-d8 (surr)	**99 %R**	**99 %R**	**99 %R**	**99 %R**

LABORATORY REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Sample ID:	RFW-2	RFW-3	RFW-4	GZ-1L
Lab Sample ID:	251840.05	251840.06	251840.07	251840.08
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	11/3/22	11/2/22	11/3/22	11/3/22
Date Received:	11/4/22	11/4/22	11/4/22	11/4/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	11/4/22	11/4/22	11/5/22	11/5/22
Analyst:	MLW	MLW	MLW	MLW
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.2	< 0.2	**2.6**	< 0.2
4-Bromofluorobenzene (surr)	**103 %R**	**101 %R**	**102 %R**	**100 %R**
Toluene-d8 (surr)	**99 %R**	**99 %R**	**99 %R**	**99 %R**

LABORATORY REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Sample ID:	GZ-2L	GZ-3L	SW-17	SW-15
Lab Sample ID:	251840.09	251840.1	251840.11	251840.14
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	11/3/22	11/3/22	11/3/22	11/3/22
Date Received:	11/4/22	11/4/22	11/4/22	11/4/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	11/7/22	11/5/22	11/5/22	11/5/22
Analyst:	MLW	MLW	MLW	MLW
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.2	< 0.2	**0.33**	< 0.2
4-Bromofluorobenzene (surr)	**124 %R**	**100 %R**	**100 %R**	**100 %R**
Toluene-d8 (surr)	**143 %R**	**98 %R**	**98 %R**	**99 %R**

GZ-2L: Non target interference in the samples resulted in recovery outside of the acceptance control limits of 70-130%R for the surrogate Touluene-d8 (surr).

LABORATORY REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Sample ID:	GZ-105	GZ-106	GZ-107	P-2R
Lab Sample ID:	251840.17	251840.18	251840.19	251840.2
Matrix:	aqueous	aqueous	aqueous	aqueous
Date Sampled:	11/3/22	11/3/22	11/3/22	11/3/22
Date Received:	11/4/22	11/4/22	11/4/22	11/4/22
Units:	ug/L	ug/L	ug/L	ug/L
Date of Analysis:	11/5/22	11/5/22	11/5/22	11/6/22
Analyst:	MLW	MLW	MLW	MLW
Method:	8260B SIM	8260B SIM	8260B SIM	8260B SIM
Dilution Factor:	1	1	1	1
1,4-Dioxane	< 0.2	**2.6**	< 0.2	**0.70**
4-Bromofluorobenzene (surr)	**100 %R**	**100 %R**	**99 %R**	**99 %R**
Toluene-d8 (surr)	**98 %R**	**99 %R**	**97 %R**	**96 %R**

LABORATORY REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Sample ID:	SW-13	SW-16
Lab Sample ID:	251840.21	251840.22
Matrix:	aqueous	aqueous
Date Sampled:	11/3/22	11/3/22
Date Received:	11/4/22	11/4/22
Units:	ug/L	ug/L
Date of Analysis:	11/6/22	11/6/22
Analyst:	MLW	MLW
Method:	8260B SIM	8260B SIM
Dilution Factor:	1	1
1,4-Dioxane	< 0.2	**0.83**
4-Bromofluorobenzene (surr)	**100 %R**	**100 %R**
Toluene-d8 (surr)	**98 %R**	**98 %R**

QC REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Batch ID: 638031-61591/A110422DIOX1

Client Designation: **Cross Road Landfill | Nov 2022**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	4.8 (96 %R)	4.7 (95 %R) (2 RPD)	11/4/2022	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	103 %R	102 %R	103 %R	11/4/2022	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	101 %R	102 %R	102 %R	11/4/2022	% Rec	70 - 130	50	8260B

*/! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.

QC REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Batch ID: 638034-15432/A110522DIOX1

Client Designation: **Cross Road Landfill | Nov 2022**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	4.8 (97 %R)	5.1 (102 %R) (5 RPD)	11/5/2022	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	101 %R	101 %R	101 %R	11/5/2022	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	99 %R	100 %R	100 %R	11/5/2022	% Rec	70 - 130	50	8260B

*/! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.

QC REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Batch ID: 638035-95437/A110722DIOX1

Client Designation: **Cross Road Landfill | Nov 2022**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	5.0 (99 %R)	5.0 (101 %R) (1 RPD)	11/7/2022	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	102 %R	104 %R	104 %R	11/7/2022	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	99 %R	103 %R	102 %R	11/7/2022	% Rec	70 - 130	50	8260B

*/! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.

LABORATORY REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Sample ID:	GZ-104	GZ-201	GZ-202A	P-9R					
Lab Sample ID:	251840.01	251840.02	251840.03	251840.04					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	11/3/22	11/3/22	11/3/22	11/3/22		Analysis			
Date Received:	11/4/22	11/4/22	11/4/22	11/4/22	**Units**	**Date**	**Time**	**Method**	**Analyst**
Chloride	**74**	**160**	**72**	**91**	mg/L	11/04/22	14:15	4500CIE-11	ALM
Nitrate-N	**0.64**	**0.79**	< 0.5	< 0.5	mg/L	11/04/22	14:15	353.2	ALM
TKN	< 0.5	< 0.5	**1.0**	**1.5**	mg/L	11/09/22	15:07	$4500N_{org}C/NH3D$	GRS

Sample ID:	RFW-2	RFW-3	RFW-4	GZ-1L					
Lab Sample ID:	251840.05	251840.06	251840.07	251840.08					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	11/3/22	11/2/22	11/3/22	11/3/22		Analysis			
Date Received:	11/4/22	11/4/22	11/4/22	11/4/22	**Units**	**Date**	**Time**	**Method**	**Analyst**
Chloride	**94**	**54**	**150**	**130**	mg/L	11/04/22	14:33	4500CIE-11	ALM
Nitrate-N	**0.83**	**1.1**	< 0.5	< 0.5	mg/L	11/04/22	14:33	353.2	ALM
TKN	< 0.5	< 0.5	**2.0**	< 0.5	mg/L	11/09/22	15:18	$4500N_{org}C/NH3D$	GRS

GZ-202A: The matrix spike for Nitrate-N associated with this sample exhibited recovery outside the acceptance criteria. The matrix spike duplicate and other batch QC were in control

LABORATORY REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Sample ID:	GZ-2L	GZ-3L	SW-17	SW-15					
Lab Sample ID:	251840.09	251840.1	251840.11	251840.14					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	11/3/22	11/3/22	11/3/22	11/3/22		Analysis			
Date Received:	11/4/22	11/4/22	11/4/22	11/4/22	**Units**	**Date**	**Time**	**Method**	**Analyst**
Chloride	**8.7**	**40**	**67**	**59**	mg/L	11/04/22	14:39	4500CIE-11	ALM
Nitrate-N	< 0.5	< 0.5	**0.73**	< 0.5	mg/L	11/04/22	14:39	353.2	ALM
TKN	**0.98**	< 0.5	< 0.5	**0.65**	mg/L	11/09/22	15:43	$4500N_{org}C/NH3D$	GRS

Sample ID:	P-2R	SW-13	SW-16					
Lab Sample ID:	251840.2	251840.21	251840.22					
Matrix:	aqueous	aqueous	aqueous					
Date Sampled:	11/3/22	11/3/22	11/3/22		Analysis			
Date Received:	11/4/22	11/4/22	11/4/22	**Units**	**Date**	**Time**	**Method**	**Analyst**
Chloride	**42**	**45**	**65**	mg/L	11/04/22	14:58	4500CIE-11	ALM
Nitrate-N	< 0.5	< 0.5	< 0.5	mg/L	11/04/22	14:58	353.2	ALM
TKN	**1.8**	**0.59**	< 0.5	mg/L	11/09/22	15:53	$4500N_{org}C/NH3D$	GRS

QC REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Chloride	< 1	26 (105 %R)	26 (103 %R) (2 RPD)	mg/L	11/4/22	90 - 110	20	4500CIE-11
Nitrate-N	< 0.5	5.1 (102 %R)	5.1 (102 %R) (0 RPD)	mg/L	11/4/22	90 - 110	20	353.2
TKN	< 0.5	10 (102 %R)	9.4 (94 %R) (7 RPD)	mg/L	11/9/22	90 - 111	20	4500N_{org}C/NH3D-11

*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.

LABORATORY REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Sample ID:	GZ-104	GZ-201	GZ-202A	P-9R					
Lab Sample ID:	251840.01	251840.02	251840.03	251840.04					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	11/3/22	11/3/22	11/3/22	11/3/22	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Date Received:	11/4/22	11/4/22	11/4/22	11/4/22					
Arsenic	**0.038**	**0.0011**	**0.15**	**0.13**	AqDis	mg/L	11/5/22	200.8	DS
Barium	**0.030**	**0.077**	**0.060**	**0.043**	AqDis	mg/L	11/5/22	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	11/5/22	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	11/5/22	200.8	DS
Iron	**5.8**	< 0.05	**53**	**28**	AqDis	mg/L	11/5/22	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	11/5/22	200.8	DS
Manganese	**1.0**	**0.55**	**4.1**	**2.8**	AqDis	mg/L	11/5/22	200.8	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	< 0.0001	AqDis	mg/L	11/5/22	200.8	DS
Selenium	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	11/5/22	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqDis	mg/L	11/5/22	200.8	DS

Sample ID:	RFW-2	RFW-3	RFW-4					
Lab Sample ID:	251840.05	251840.06	251840.07					
Matrix:	aqueous	aqueous	aqueous					
Date Sampled:	11/3/22	11/2/22	11/3/22	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Date Received:	11/4/22	11/4/22	11/4/22					
Arsenic	< 0.0005	**0.00060**	**0.093**	AqDis	mg/L	11/5/22	200.8	DS
Barium	**0.033**	**0.074**	**0.11**	AqDis	mg/L	11/5/22	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	AqDis	mg/L	11/5/22	200.8	DS
Chromium	< 0.001	< 0.001	< 0.001	AqDis	mg/L	11/5/22	200.8	DS
Iron	< 0.05	**0.060**	**37**	AqDis	mg/L	11/5/22	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	AqDis	mg/L	11/5/22	200.8	DS
Manganese	**0.24**	**0.017**	**5.1**	AqDis	mg/L	11/5/22	200.8	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	AqDis	mg/L	11/5/22	200.8	DS
Selenium	< 0.001	< 0.001	< 0.001	AqDis	mg/L	11/5/22	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	AqDis	mg/L	11/5/22	200.8	DS

LABORATORY REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Sample ID:	GZ-1L	GZ-2L	GZ-3L	SW-17					
Lab Sample ID:	251840.08	251840.09	251840.1	251840.11					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	11/3/22	11/3/22	11/3/22	11/3/22	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Date Received:	11/4/22	11/4/22	11/4/22	11/4/22					
Arsenic	**0.0047**	**0.00078**	**0.0033**	**0.0018**	AqTot	mg/L	11/8/22	200.8	DS
Barium	**0.014**	**0.061**	**0.021**	**0.023**	AqTot	mg/L	11/8/22	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	11/8/22	200.8	DS
Chromium	< 0.001	**0.042**	**0.0025**	< 0.001	AqTot	mg/L	11/8/22	200.8	DS
Iron	**0.26**	**0.065**	**1.2**	**0.57**	AqTot	mg/L	11/8/22	200.8	DS
Lead	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	11/8/22	200.8	DS
Manganese	**0.045**	**0.11**	**0.12**	**0.32**	AqTot	mg/L	11/8/22	200.8	DS
Mercury	< 0.0001	**0.0017**	< 0.0001	< 0.0001	AqTot	mg/L	11/8/22	200.8	DS
Selenium	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	11/8/22	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	< 0.001	AqTot	mg/L	11/8/22	200.8	DS

Sample ID:	P-2R	SW-13	SW-16					
Lab Sample ID:	251840.2	251840.21	251840.22					
Matrix:	aqueous	aqueous	aqueous					
Date Sampled:	11/3/22	11/3/22	11/3/22	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Date Received:	11/4/22	11/4/22	11/4/22					
Arsenic	**0.15**	**0.0042**	**0.0026**	AqTot	mg/L	11/8/22	200.8	DS
Barium	**0.49**	**0.016**	**0.056**	AqTot	mg/L	11/8/22	200.8	DS
Cadmium	< 0.001	< 0.001	< 0.001	AqTot	mg/L	11/8/22	200.8	DS
Chromium	**0.11**	< 0.001	< 0.001	AqTot	mg/L	11/8/22	200.8	DS
Iron	**96**	**1.7**	**0.52**	AqTot	mg/L	11/8/22	200.8	DS
Lead	**0.048**	< 0.001	< 0.001	AqTot	mg/L	11/9/22	200.8	DS
Manganese	**4.8**	**1.5**	**5.7**	AqTot	mg/L	11/8/22	200.8	DS
Mercury	< 0.0001	< 0.0001	< 0.0001	AqTot	mg/L	11/8/22	200.8	DS
Selenium	< 0.001	< 0.001	< 0.001	AqTot	mg/L	11/8/22	200.8	DS
Silver	< 0.001	< 0.001	< 0.001	AqTot	mg/L	11/8/22	200.8	DS

SW-13 and SW-16 Lead analyzed 11/8/2022

LABORATORY REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Sample ID:	Upstream of Seep	SW-14	SW-11	SW-10					
Lab Sample ID:	251840.12	251840.13	251840.15	251840.16					
Matrix:	aqueous	aqueous	aqueous	aqueous					
Date Sampled:	11/3/22	11/3/22	11/3/22	11/3/22	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Date Received:	11/4/22	11/4/22	11/4/22	11/4/22					
Arsenic	**0.00088**	**0.00050**	**0.00093**	**0.00066**	AqTot	mg/L	11/8/22	200.8	DS
Iron	**0.26**	< 0.05	**0.31**	**0.34**	AqTot	mg/L	11/8/22	200.8	DS
Manganese	**0.15**	**0.084**	**0.15**	**0.11**	AqTot	mg/L	11/8/22	200.8	DS
Arsenic	**0.00090**	**0.00054**	**0.00073**	**0.00052**	AqDis	mg/L	11/5/22	200.8	DS
Iron	**0.18**	< 0.05	**0.20**	**0.16**	AqDis	mg/L	11/5/22	200.8	DS
Manganese	**0.16**	**0.065**	**0.16**	**0.072**	AqDis	mg/L	11/5/22	200.8	DS

Sample ID:	GZ-105	GZ-106	GZ-107					
Lab Sample ID:	251840.17	251840.18	251840.19					
Matrix:	aqueous	aqueous	aqueous					
Date Sampled:	11/3/22	11/3/22	11/3/22	**Analytical Matrix**	**Units**	**Date of Analysis**	**Method**	**Analyst**
Date Received:	11/4/22	11/4/22	11/4/22					
Arsenic	**0.00050**	< 0.0005	**0.00055**	AqDis	mg/L	11/5/22	200.8	DS
Iron	< 0.05	< 0.05	< 0.05	AqDis	mg/L	11/5/22	200.8	DS
Manganese	< 0.005	**0.15**	< 0.005	AqDis	mg/L	11/5/22	200.8	DS

LABORATORY REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Sample ID: SW-15

Lab Sample ID: 251840.14
Matrix: aqueous
Date Sampled: 11/3/22
Date Received: 11/4/22

		Analytical Matrix	Units	Date of Analysis	Method	Analyst
Arsenic	**0.00090**	AqTot	mg/L	11/8/22	200.8	DS
Barium	**0.022**	AqTot	mg/L	11/8/22	200.8	DS
Cadmium	< 0.001	AqTot	mg/L	11/8/22	200.8	DS
Chromium	< 0.001	AqTot	mg/L	11/8/22	200.8	DS
Iron	**0.25**	AqTot	mg/L	11/8/22	200.8	DS
Lead	< 0.001	AqTot	mg/L	11/8/22	200.8	DS
Manganese	**0.17**	AqTot	mg/L	11/8/22	200.8	DS
Mercury	< 0.0001	AqTot	mg/L	11/8/22	200.8	DS
Selenium	< 0.001	AqTot	mg/L	11/8/22	200.8	DS
Silver	< 0.001	AqTot	mg/L	11/8/22	200.8	DS
Arsenic	**0.00080**	AqDis	mg/L	11/5/22	200.8	DS
Barium	**0.025**	AqDis	mg/L	11/5/22	200.8	DS
Cadmium	< 0.001	AqDis	mg/L	11/5/22	200.8	DS
Chromium	< 0.001	AqDis	mg/L	11/5/22	200.8	DS
Iron	**0.16**	AqDis	mg/L	11/5/22	200.8	DS
Lead	< 0.001	AqDis	mg/L	11/5/22	200.8	DS
Manganese	**0.17**	AqDis	mg/L	11/5/22	200.8	DS
Mercury	< 0.0001	AqDis	mg/L	11/5/22	200.8	DS
Selenium	< 0.001	AqDis	mg/L	11/5/22	200.8	DS
Silver	< 0.001	AqDis	mg/L	11/5/22	200.8	DS

QC REPORT

EAI ID#: **251840**

Client: **Exeter, Town of**

Client Designation: **Cross Road Landfill | Nov 2022**

Parameter Name	Blank	LCS	LCSD		Units	Date of Analysis	Limits	RPD	Method
Arsenic (Aqdis)	< 0.0005	0.20 (102 %R)		NA	mg/L	11/5/22	85 - 115	20	200.8
Arsenic (Aqtot)	< 0.0005	0.40 (101 %R)		NA	mg/L	11/8/22	85 - 115	20	200.8
Barium (Aqdis)	< 0.001	0.21 (103 %R)		NA	mg/L	11/5/22	85 - 115	20	200.8
Barium (Aqtot)	< 0.001	0.43 (107 %R)		NA	mg/L	11/8/22	85 - 115	20	200.8
Cadmium (Aqdis)	< 0.001	0.20 (101 %R)		NA	mg/L	11/5/22	85 - 115	20	200.8
Cadmium (Aqtot)	< 0.001	0.45 (111 %R)		NA	mg/L	11/8/22	85 - 115	20	200.8
Chromium (Aqdis)	< 0.001	0.20 (98 %R)		NA	mg/L	11/5/22	85 - 115	20	200.8
Chromium (Aqtot)	< 0.001	0.40 (100 %R)		NA	mg/L	11/8/22	85 - 115	20	200.8
Iron (Aqdis)	< 0.05	9.8 (98 %R)		NA	mg/L	11/5/22	85 - 115	20	200.8
Iron (Aqtot)	< 0.05	9.7 (97 %R)		NA	mg/L	11/8/22	85 - 115	20	200.8
Lead (Aqdis)	< 0.001	0.20 (99 %R)		NA	mg/L	11/5/22	85 - 115	20	200.8
Lead (Aqtot)	< 0.001	0.43 (107 %R)		NA	mg/L	11/8/22	85 - 115	20	200.8
Manganese (Aqdis)	< 0.005	0.20 (98 %R)		NA	mg/L	11/5/22	85 - 115	20	200.8
Manganese (Aqtot)	< 0.005	0.38 (96 %R)		NA	mg/L	11/8/22	85 - 115	20	200.8
Mercury (Aqdis)	< 0.0001	0.0010 (104 %R)		NA	mg/L	11/5/22	85 - 115	20	200.8
Mercury (Aqtot)	< 0.0001	0.0010 (103 %R)		NA	mg/L	11/8/22	85 - 115	20	200.8
Selenium (Aqdis)	< 0.001	0.21 (107 %R)		NA	mg/L	11/5/22	85 - 115	20	200.8
Selenium (Aqtot)	< 0.001	0.39 (97 %R)		NA	mg/L	11/8/22	85 - 115	20	200.8
Silver (Aqdis)	< 0.001	0.010 (103 %R)		NA	mg/L	11/5/22	85 - 115	20	200.8
Silver (Aqtot)	< 0.001	0.022 (110 %R)		NA	mg/L	11/8/22	85 - 115	20	200.8

*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.

November 29, 2022

Vista Work Order No. 2211076

Ms. Jennifer Laramie
Eastern Analytical, Inc.
51 Antrim Avenue
Concord, NH 03301

Dear Ms. Laramie,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on November 09, 2022 under your Project Name '251840 NH 31'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at frschwebel@enthalpy.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

Frieda Schwebel
Project Manager

Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 2211076
Case Narrative

Sample Condition on Receipt:

Three aqueous samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The samples were received in good condition and within the recommended temperature requirements.

Analytical Notes:

PFAS Isotope Dilution/LC-MSMS Method Compliant with Table B-15 of DoD QSM 5.3 (Aqueous)

Samples "GZ-202A" and "RFW-4" contained particulate and were centrifuged prior to extraction.

The samples were extracted and analyzed for a selected list of PFAS using Isotope Dilution and LC-MS/MS compliant with Table B-15 of DoD QSM 5.3. The results for PFHxS, PFOA and PFOS include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The samples were extracted and analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above the Reporting Limits (RL). The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries for all QC and field samples were within the acceptance criteria.

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Sample Inventory Report

Vista
an Enthalpy Analytical Laboratory

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2211076-01	GZ-202A	03-Nov-22 08:40	09-Nov-22 11:05	Polypropylene, 250mL
				Polypropylene, 250mL
2211076-02	RFW-3	02-Nov-22 17:30	09-Nov-22 11:05	Polypropylene, 250mL
				Polypropylene, 250mL
2211076-03	RFW-4	03-Nov-22 11:20	09-Nov-22 11:05	Polypropylene, 250mL
				Polypropylene, 250mL

ANALYTICAL RESULTS

Vista
an Enthalpy Analytical Laboratory

Sample ID: Method Blank — **PFAS Isotope Dilution Table B-15**

Client Data				Laboratory Data			
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	B22K114-BLK1	Column:	BEH C18
Project:	251840 NH 31						

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	2.00		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:13	1
PFPeA	2706-90-3	ND	2.00		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:13	1
PFBS	375-73-5	ND	2.00		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:13	1
PFHxA	307-24-4	ND	2.00		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:13	1
PFHpA	375-85-9	ND	2.00		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:13	1
PFHxS	355-46-4	ND	2.00		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:13	1
PFOA	335-67-1	ND	2.00		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:13	1
PFNA	375-95-1	ND	2.00		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:13	1
PFOS	1763-23-1	ND	2.00		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:13	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	70.0	50 - 150		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:13	1
13C3-PFPeA	IS	88.8	50 - 150		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:13	1
13C3-PFBS	IS	79.2	50 - 150		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:13	1
13C2-PFHxA	IS	82.6	50 - 150		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:13	1
13C4-PFHpA	IS	76.8	50 - 150		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:13	1
13C3-PFHxS	IS	68.7	50 - 150		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:13	1
13C2-PFOA	IS	75.0	50 - 150		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:13	1
13C5-PFNA	IS	88.0	50 - 150		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:13	1
13C8-PFOS	IS	77.7	50 - 150		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:13	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Vista
an Enthalpy Analytical Laboratory

Sample ID: OPR **PFAS Isotope Dilution Table B-15**

Client Data

Name: Eastern Analytical, Inc.
Project: 251840 NH 31
Matrix: Aqueous

Laboratory Data

Lab Sample: B22K114-BS1
Column: BEH C18

Analyte	CAS Number	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	35.4	40.0	88.6	73 - 129		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:23	1
PFPeA	2706-90-3	39.1	40.0	97.8	72 - 129		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:23	1
PFBS	375-73-5	39.9	40.4	98.8	72 - 130		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:23	1
PFHxA	307-24-4	37.3	40.0	93.3	72 - 129		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:23	1
PFHpA	375-85-9	37.3	40.0	93.4	72 - 130		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:23	1
PFHxS	355-46-4	31.1	40.0	77.7	68 - 131		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:23	1
PFOA	335-67-1	37.1	40.0	92.8	71 - 133		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:23	1
PFNA	375-95-1	39.4	40.0	98.6	69 - 130		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:23	1
PFOS	1763-23-1	45.9	40.0	115	65 - 140		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:23	1
Labeled Standards		**Type**		**% Rec**	**Limits**	**Qualifiers**	**Batch**	**Extracted**	**Samp Size**	**Analyzed**	**Dilution**
13C3-PFBA		IS		73.9	50 - 150		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:23	1
13C3-PFPeA		IS		88.6	50 - 150		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:23	1
13C3-PFBS		IS		80.1	50 - 150		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:23	1
13C2-PFHxA		IS		79.8	50 - 150		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:23	1
13C4-PFHpA		IS		78.4	50 - 150		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:23	1
13C3-PFHxS		IS		78.3	50 - 150		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:23	1
13C2-PFOA		IS		75.4	50 - 150		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:23	1
13C5-PFNA		IS		88.7	50 - 150		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:23	1
13C8-PFOS		IS		77.4	50 - 150		B22K114	17-Nov-22	0.250 L	20-Nov-22 01:23	1

Vista
an Enthalpy Analytical Laboratory

Sample ID: GZ-202A — **PFAS Isotope Dilution Table B-15**

Client Data

Name: Eastern Analytical, Inc.
Project: 251840 NH 31
Location: 251840
Matrix: Aqueous
Date Collected: 03-Nov-22 08:40

Laboratory Data

Lab Sample: 2211076-01
Date Received: 09-Nov-22 11:05
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	3.44	1.97		B22K114	17-Nov-22	0.253 L	22-Nov-22 20:15	1
PFPeA	2706-90-3	2.75	1.97		B22K114	17-Nov-22	0.253 L	22-Nov-22 20:15	1
PFBS	375-73-5	2.62	1.97		B22K114	17-Nov-22	0.253 L	22-Nov-22 20:15	1
PFHxA	307-24-4	3.87	1.97		B22K114	17-Nov-22	0.253 L	22-Nov-22 20:15	1
PFHpA	375-85-9	2.61	1.97		B22K114	17-Nov-22	0.253 L	22-Nov-22 20:15	1
PFHxS	355-46-4	ND	1.97		B22K114	17-Nov-22	0.253 L	22-Nov-22 20:15	1
PFOA	335-67-1	5.69	1.97		B22K114	17-Nov-22	0.253 L	22-Nov-22 20:15	1
PFNA	375-95-1	ND	1.97		B22K114	17-Nov-22	0.253 L	22-Nov-22 20:15	1
PFOS	1763-23-1	ND	1.97		B22K114	17-Nov-22	0.253 L	22-Nov-22 20:15	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	78.5	50 - 150		B22K114	17-Nov-22	0.253 L	22-Nov-22 20:15	1
13C3-PFPeA	IS	78.0	50 - 150		B22K114	17-Nov-22	0.253 L	22-Nov-22 20:15	1
13C3-PFBS	IS	69.8	50 - 150		B22K114	17-Nov-22	0.253 L	22-Nov-22 20:15	1
13C2-PFHxA	IS	72.1	50 - 150		B22K114	17-Nov-22	0.253 L	22-Nov-22 20:15	1
13C4-PFHpA	IS	74.7	50 - 150		B22K114	17-Nov-22	0.253 L	22-Nov-22 20:15	1
13C3-PFHxS	IS	74.2	50 - 150		B22K114	17-Nov-22	0.253 L	22-Nov-22 20:15	1
13C2-PFOA	IS	72.4	50 - 150		B22K114	17-Nov-22	0.253 L	22-Nov-22 20:15	1
13C5-PFNA	IS	79.1	50 - 150		B22K114	17-Nov-22	0.253 L	22-Nov-22 20:15	1
13C8-PFOS	IS	75.6	50 - 150		B22K114	17-Nov-22	0.253 L	22-Nov-22 20:15	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Vista
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Sample ID: RFW-3 **PFAS Isotope Dilution Table B-15**

Client Data				Laboratory Data			
Name:	Eastern Analytical, Inc.	Matrix:	Aqueous	Lab Sample:	2211076-02	Column:	BEH C18
Project:	251840 NH 31	Date Collected:	02-Nov-22 17:30	Date Received:	09-Nov-22 11:05		
Location:	251840						

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	2.15	1.90		B22K114	17-Nov-22	0.263 L	22-Nov-22 20:25	1
PFPeA	2706-90-3	3.65	1.90		B22K114	17-Nov-22	0.263 L	22-Nov-22 20:25	1
PFBS	375-73-5	2.22	1.90		B22K114	17-Nov-22	0.263 L	22-Nov-22 20:25	1
PFHxA	307-24-4	3.34	1.90		B22K114	17-Nov-22	0.263 L	22-Nov-22 20:25	1
PFHpA	375-85-9	2.74	1.90		B22K114	17-Nov-22	0.263 L	22-Nov-22 20:25	1
PFHxS	355-46-4	2.12	1.90		B22K114	17-Nov-22	0.263 L	22-Nov-22 20:25	1
PFOA	335-67-1	3.96	1.90		B22K114	17-Nov-22	0.263 L	22-Nov-22 20:25	1
PFNA	375-95-1	ND	1.90		B22K114	17-Nov-22	0.263 L	22-Nov-22 20:25	1
PFOS	1763-23-1	59.4	1.90		B22K114	17-Nov-22	0.263 L	22-Nov-22 20:25	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	90.3	50 - 150		B22K114	17-Nov-22	0.263 L	22-Nov-22 20:25	1
13C3-PFPeA	IS	83.0	50 - 150		B22K114	17-Nov-22	0.263 L	22-Nov-22 20:25	1
13C3-PFBS	IS	81.7	50 - 150		B22K114	17-Nov-22	0.263 L	22-Nov-22 20:25	1
13C2-PFHxA	IS	79.7	50 - 150		B22K114	17-Nov-22	0.263 L	22-Nov-22 20:25	1
13C4-PFHpA	IS	80.7	50 - 150		B22K114	17-Nov-22	0.263 L	22-Nov-22 20:25	1
13C3-PFHxS	IS	79.5	50 - 150		B22K114	17-Nov-22	0.263 L	22-Nov-22 20:25	1
13C2-PFOA	IS	84.1	50 - 150		B22K114	17-Nov-22	0.263 L	22-Nov-22 20:25	1
13C5-PFNA	IS	87.8	50 - 150		B22K114	17-Nov-22	0.263 L	22-Nov-22 20:25	1
13C8-PFOS	IS	78.4	50 - 150		B22K114	17-Nov-22	0.263 L	22-Nov-22 20:25	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

Vista
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Sample ID: RFW-4

PFAS Isotope Dilution Table B-15

Client Data

Name: Eastern Analytical, Inc.
Project: 251840 NH 31
Location: 251840
Matrix: Aqueous
Date Collected: 03-Nov-22 11:20

Laboratory Data

Lab Sample: 2211076-03
Date Received: 09-Nov-22 11:05
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	2.74	1.97		B22K114	17-Nov-22	0.254 L	22-Nov-22 20:36	1
PFPeA	2706-90-3	2.40	1.97		B22K114	17-Nov-22	0.254 L	22-Nov-22 20:36	1
PFBS	375-73-5	2.73	1.97		B22K114	17-Nov-22	0.254 L	22-Nov-22 20:36	1
PFHxA	307-24-4	4.03	1.97		B22K114	17-Nov-22	0.254 L	22-Nov-22 20:36	1
PFHpA	375-85-9	ND	1.97		B22K114	17-Nov-22	0.254 L	22-Nov-22 20:36	1
PFHxS	355-46-4	ND	1.97		B22K114	17-Nov-22	0.254 L	22-Nov-22 20:36	1
PFOA	335-67-1	3.27	1.97		B22K114	17-Nov-22	0.254 L	22-Nov-22 20:36	1
PFNA	375-95-1	ND	1.97		B22K114	17-Nov-22	0.254 L	22-Nov-22 20:36	1
PFOS	1763-23-1	ND	1.97		B22K114	17-Nov-22	0.254 L	22-Nov-22 20:36	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	87.6	50 - 150		B22K114	17-Nov-22	0.254 L	22-Nov-22 20:36	1
13C3-PFPeA	IS	87.0	50 - 150		B22K114	17-Nov-22	0.254 L	22-Nov-22 20:36	1
13C3-PFBS	IS	76.9	50 - 150		B22K114	17-Nov-22	0.254 L	22-Nov-22 20:36	1
13C2-PFHxA	IS	79.8	50 - 150		B22K114	17-Nov-22	0.254 L	22-Nov-22 20:36	1
13C4-PFHpA	IS	80.8	50 - 150		B22K114	17-Nov-22	0.254 L	22-Nov-22 20:36	1
13C3-PFHxS	IS	76.7	50 - 150		B22K114	17-Nov-22	0.254 L	22-Nov-22 20:36	1
13C2-PFOA	IS	86.2	50 - 150		B22K114	17-Nov-22	0.254 L	22-Nov-22 20:36	1
13C5-PFNA	IS	86.0	50 - 150		B22K114	17-Nov-22	0.254 L	22-Nov-22 20:36	1
13C8-PFOS	IS	79.3	50 - 150		B22K114	17-Nov-22	0.254 L	22-Nov-22 20:36	1

RL - Reporting limit

Results reported to RL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Massachusetts Department of Environmental Protection	M-CA413
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Pennsylvania Department of Environmental Protection	018
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	**Method**
Determination of Polychlorinated p- Dioxins & Polychlorinated Dibenzofurans	EPA 23
Polychlorinated Dibenzodioxins in Ambient Air by GC/HRMS	EPA TO-9A

MATRIX: Biological Tissue	
Description of Test	**Method**
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	**Method**
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613/1613B
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537.1
Determination of Per- and Polyfluoroalkyl Substances in Drinking Water by Isotope Dilution Anion Exchange Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry	EPA 533
Perfluorooctanesulonate (PFOS) and Perfluorooctanoate (PFOA) - Method for Unfiltered Samples Using Solid Phase Extraction and Liquid Chromatography/Mass Spectrometry	ISO 25101 2009

MATRIX: Non-Potable Water	
Description of Test	**Method**
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	**Method**
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	PFAS Isotope Dilution
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

CHAIN-OF-CUSTODY RECORD

2211076 0.0°C

Eastern Analytical, Inc.
professional laboratory and drilling services

EAI ID# 251840 Page 1

Sample ID	Date Sampled	Matrix	aParameters	Sample Notes
GZ-202A	11/3/2022 08:40	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537 modified	
RFW-3	2 11/3/2022 17:30	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537 modified	
RFW-4	11/3/2022 11:20	aqueous	Subcontract - Perfluorinated Compounds EPA Method 537 modified	

EAI ID# 251840 **Project State: NH**

Project ID: 31

Company Vista Analytical Laboratory
Address 1104 Windfield Way
Address El Dorado Hills, CA 95762
Account #
Phone # (916) 673-1520

Results Needed: Preferred Date: Standard

RUSH Due Date: _____

QC Deliverables

☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP

Notes about project:

Email login confirmation, pdf of results and invoice to customerservice@easternanalytical.com.

NHDES 9 Compound List

PO #:58608 **EAI ID# 251840**

Data Deliverable (circle)

Excel NH EMD EQuIS ME EGAD

Call prior to analyzing, if RUSH charges will be applied.

Samples Collected by: _____

Relinquished by	Date/Time	Received by
[signature]	11/8/22 1600	UPS
UPS	11/09/22 11:05	[signature]

Relinquished by	Date/Time	Received by

As a subcontract lab to EAI, you will defend, indemnify and hold Eastern Analytical, Inc., its officers, employees, and agents harmless from and against any and all liability, loss, expense or claims for injury or damages arising out of the performance against this chain of custody but only in proportion to and to the extent such liability, loss, expense, or claims for injury or damages are caused by or result from the negligent or intentional acts or omissions of you as a subcontract lab, your officers, agents or employees

Vista Analytical Laboratory

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 2211076 TAT 14 days

Samples Arrival:	Date/Time: 11/09/22 11:05	Initials:	Location: WR-2 Shelf/Rack: NA

Delivered By:	FedEx	UPS	On Trac	GLS	DHL	Hand Delivered	Other
Preservation:	Ice		Blue Ice		Techni Ice	Dry Ice	None

Temp °C: 0.1 (uncorrected)	Probe used: Y / N	Thermometer ID: IR-3
Temp °C: 0.0 (corrected)		

	YES	NO	NA
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?			✓
Airbill: D Trk # 12 X 46 599 01 9377 4535	✓		
Shipping Documentation Present?	✓		

Shipping Container	Vista	Client	Retain	Return	Dispose

Chain of Custody / Sample Documentation Present?	✓		
Chain of Custody / Sample Documentation Complete?	✓		
Holding Time Acceptable?	✓		

Logged In:	Date/Time: 11/09/22 1425	Initials: WWS	Location: R-13, WR-2 Shelf/Rack: B-3, B-3, C-6

COC Anomaly/Sample Acceptance Form completed?		✓	✓

Comments:

CoC/Label Reconciliation Report WO# 2211076

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2211076-01	A GZ-202A	251840	03-Nov-22 08:40	Polypropylene, 250mL	Aqueous	
2211076-01	B GZ-202A	251840	03-Nov-22 08:40	Polypropylene, 250mL	Aqueous	
2211076-02	A RFW-3	251840	02-Nov-22 17:30	Polypropylene, 250mL	Aqueous	
2211076-02	B RFW-3	251840	02-Nov-22 17:30	Polypropylene, 250mL	Aqueous	
2211076-03	A RFW-4	251840	03-Nov-22 11:20	Polypropylene, 250mL	Aqueous	
2211076-03	B RFW-4	251840	03-Nov-22 11:20	Polypropylene, 250mL	Aqueous	

Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

	Yes	No	NA
Sample Container Intact?	✓		
Sample Custody Seals Intact?		✓	✓
Adequate Sample Volume?	✓		
Container Type Appropriate for Analysis(es)	✓		

Comments:
(B) Light Rusty Color
(C) Sample label time = 8:10

Preservation Documented: Na2S2O3 (Trizma T6) NH4CH3CO2 None Other

Verifed by/Date: BAC 11/10/22 (A)

1 of 6

CHAIN-OF-CUSTODY RECORD

251840
EXENH

Sample IDs	Date/Time *Composites need start and stop dates/times*	Matrix	Parameters and Sample Notes	# of containers
GMW-11		aqueous Grab or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260 AqDis/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg CDI 11/3/22	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
GZ-104	11/3/22 13:40	aqueous (Grab) or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260 AqDis/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	7
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* (HCL) (HNO_3) (H_2SO_4) NaOH MEOH $Na_2S_2O_3$ (ICE)	Dissolved Sample Field Filtered ☑
GZ-201	11/3/22 16:40	aqueous (Grab) or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260 AqDis/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	7
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* (HCL) (HNO_3) (H_2SO_4) NaOH MEOH $Na_2S_2O_3$ (ICE)	Dissolved Sample Field Filtered ☑
GZ-202A	08:40 11/3/22	aqueous (Grab) or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260/PFCsSubVAL AqDis/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	CI 9
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* (HCL) (HNO_3) (H_2SO_4) NaOH MEOH $Na_2S_2O_3$ (ICE) Trizma TC	Dissolved Sample Field Filtered ☑

Please ensure this auto COC is accurate, adheres to permit or sampling requirements for this sampling event, and modify as necessary.

EAI Project ID 31
Project Name Cross Road Landfill | Nov 2022
State NH
Client (Pro Mgr) Jennifer Perry
Customer Exeter, Town of
Address Town Office, 13 Newfields Road
City Exeter NH 03833-2792
Phone 778-0591 Fax 772-4709
Email: jperry@exeternh.gov
Direct 773-6157

Results Needed by: Preferred date _____
Notes:

Attn sampler: Auto chain of custody provided for your convenience, please review for accuracy and write in any needed changes

QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP

ReportingOptions
☐ HC ☐ NO FAX
☒ EDD PDF ☐ Partial FAX
☒ EDD email ☒ PDF Invoice
☒ PDF prelim, NO FAX ☐ EQUIS
☐ e-mail Login Confirmation

PO# 4335-309
Quote#: 1016750
Temp 1.5°C
Ice Y☒ N☐

Samples Collected by: Cameron Irdeck, Vito Munes

Relinquished by	Date/Time	Received by
Cameron Irdeck	11/3/22 19:30	Foyer
Foyer	11/4/22 0800	

2 of 6

CHAIN-OF-CUSTODY RECORD

251840
EXENH

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
P-9R	10:35 11/3/22	aqueous (Grab) or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260 AqDis/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	7
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* (HCL) (HNO3) (H2SO4) NaOH MEOH Na2S2O3 (ICE)	Dissolved Sample Field Filtered ☑
RFW-2	09:20 11/3/22	aqueous (Grab) or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260 AqDis/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	7
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* (HCL) (HNO3) (H2SO4) NaOH MEOH Na2S2O3 (ICE)	Dissolved Sample Field Filtered ☑
RFW-3	17:30 11/2/22	aqueous (Grab) or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260/PFCsSubVAL AqDis/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	9
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* (HCL) (HNO3) (H2SO4) NaOH MEOH Na2S2O3 (ICE) (Trizma T6)	Dissolved Sample Field Filtered ☑
RFW-4	11:20 11/3/22	aqueous (Grab) or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260/PFCsSubVAL AqDis/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	9
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* (HCL) (HNO3) (H2SO4) NaOH MEOH Na2S2O3 (ICE)	Dissolved Sample Field Filtered ☑

Please ensure this auto COC is accurate, adheres to permit or sampling requirements for this sampling event, and modify as necessary.

EAI Project ID 31
Project Name Cross Road Landfill | Nov 2022
State NH
Client (Pro Mgr) Jennifer Perry
Customer Exeter, Town of
Address Town Office, 13 Newfields Road
City Exeter NH 03833-2792
Phone 778-0591 **Fax** 772-4709
Email: jperry@exeternh.gov
Direct 773-6157

Results Needed by: Preferred date _____
Notes:

Attn sampler: Auto chain of custody provided for your convenience, please review for accuracy and write in any needed changes

QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP

ReportingOptions
☐ HC
☒ EDD PDF
☒ EDD email
☒ PDF prelim, NO FAX
☐ e-mail Login Confirmation
☐ NO FAX
☐ Partial FAX
☒ PDF Invoice
☐ EQUIS

PO# 4335-309
Quote#: 1016750
Temp 1.5 °C
Ice Y ☒ N ☐

Samples Collected by: Cameron Indeck, Vito Nunes
11/3/22 18:45

Relinquished by	Date/Time	Received by
	11/3/22 19:30	
Relinquished by	Date/Time	Received by
	11/4/22 0800	

3 of 6

CHAIN-OF-CUSTODY RECORD

251840
EXENH

Sample IDs	Date/Time *Composites need start and stop dates/times*	Matrix	Parameters and Sample Notes	# of containers
GZ-1L	08:15 11/3/22	aqueous (Grab) or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	7
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* (HCL) (HNO_3) (H_2SO_4) NaOH MEOH $Na_2S_2O_3$ (ICE)	Dissolved Sample Field Filtered ☐
GZ-2L	09:05 11/3/22	aqueous (Grab) or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	7
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* (HCL) (HNO_3) (H_2SO_4) NaOH MEOH $Na_2S_2O_3$ (ICE)	Dissolved Sample Field Filtered ☐
GZ-3L	11:50 11/3/22	aqueous (Grab) or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	7
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* (HCL) (HNO_3) (H_2SO_4) NaOH MEOH $Na_2S_2O_3$ (ICE)	Dissolved Sample Field Filtered ☐
SW-17	11/3/22 14:55	aqueous (Grab) or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	7
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* (HCL) (HNO_3) (H_2SO_4) NaOH MEOH $Na_2S_2O_3$ (ICE)	Dissolved Sample Field Filtered ☐

Please ensure this auto COC is accurate, adheres to permit or sampling requirements for this sampling event, and modify as necessary.

EAI Project ID 31
Project Name Cross Road Landfill | Nov 2022
State NH
Client (Pro Mgr) Jennifer Perry
Customer Exeter, Town of
Address Town Office, 13 Newfields Road
City Exeter NH 03833-2792
Phone 778-0591 Fax 772-4709
Email: jperry@exeternh.gov
Direct 773-6157

Results Needed by: Preferred date _____
Notes:

Attn sampler: Auto chain of custody provided for your convenience, please review for accuracy and write in any needed changes

QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP

ReportingOptions
☐ HC ☐ NO FAX
☒ EDD PDF ☐ Partial FAX
☒ EDD email ☒ PDF Invoice
☒ PDF prelim, NO FAX ☐ EQUIS
☐ e-mail Login Confirmation

PO# 4335-309
Quote#: 1016750
Temp 1.5 °C
Ice Y ☒ N ☐

Samples Collected by: VN + CI
11/3/22 18:45

Relinquished by	Date/Time	Received by
	11/3/22 19:30	Sayer
Sayer	11/4/22 0800	

4 of 6

CHAIN-OF-CUSTODY RECORD

251840

EXENH

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
Upstream of Seep	11/3/22 14:35	aqueous (Grab or Comp)	AqTot/ICPMets.As.Fe.Mn AqDis/ICPMets.As.Fe.Mn	2
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL (HNO3) H_2SO_4 NaOH MEOH $Na_2S_2O_3$ (ICE)	Dissolved Sample Field Filtered ☑
SW-14	11/3/22 14:25	aqueous (Grab or Comp)	AqTot/ICPMets.As.Fe.Mn AqDis/ICPMets.As.Fe.Mn	2
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL (HNO3) H_2SO_4 NaOH MEOH $Na_2S_2O_3$ (ICE)	Dissolved Sample Field Filtered ☑
SW-15	11/3/22 14:05	aqueous (Grab or Comp)	AqTot/Cl/NO3/TKN/V8260/DIOX/ICPMets.As.Ba.Cd.Cr.Pb.Se.Ag.Hg.Fe.Mn.As AqDis/ICPMets.As.Ba.Cd.Cr.Pb.Se.Ag.Hg.Fe.Mn.As	8
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* (HCL) (HNO3) (H_2SO_4) NaOH MEOH $Na_2S_2O_3$ (ICE)	Dissolved Sample Field Filtered ☑
SW-11	11/3/22 12:45	aqueous (Grab or Comp)	AqTot/ICPMets.As.Fe.Mn AqDis/ICPMets.As.Fe.Mn	2
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL (HNO3) H_2SO_4 NaOH MEOH $Na_2S_2O_3$ (ICE)	Dissolved Sample Field Filtered ☑

Please ensure this auto COC is accurate, adheres to permit or sampling requirements for this sampling event, and modify as necessary.

EAI Project ID 31

Project Name Cross Road Landfill | Nov 2022

State NH

Client (Pro Mgr) Jennifer Perry

Customer Exeter, Town of

Address Town Office, 13 Newfields Road

City Exeter NH 03833-2792

Phone 778-0591 Fax 772-4709

Email: jperry@exeternh.gov

Direct 773-6157

Results Needed by: Preferred date _____

Notes:

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QC deliverables

☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP

ReportingOptions

☐ HC ☐ NO FAX

☒ EDD PDF ☐ Partial FAX

☒ EDD email ☒ PDF Invoice

☒ PDF prelim, NO FAX ☐ EQUIS

☐ e-mail Login Confirmation

PO# 4335-309

Quote#: 1016750

Temp 1.5 °C

Ice Y ☒ N ☐

Samples Collected by: CJ+VN

Relinquished by	Date/Time	Received by
	11/3/22 18:45	
	11/3/22 19:30	
	11/4/22 0800	

5 of 6

CHAIN-OF-CUSTODY RECORD

251840

EXENH

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SW-10	11/3/22 12:40	aqueous Grab or Comp	AqTot/ICPMets.As.Fe.Mn AqDis/ICPMets.As.Fe.Mn	2
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL (HNO3) H2SO4 NaOH MEOH Na2S2O3 (ICE)	Dissolved Sample Field Filtered ☑
GZ-105	11/3/22 13:20	aqueous Grab or Comp	AqTot/DIOX AqDis/ICPMets.As.Fe.Mn	3
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL (HNO3) H2SO4 NaOH MEOH Na2S2O3 (ICE)	Dissolved Sample Field Filtered ☑
GZ-106	11/3/22 15:35	aqueous Grab or Comp	AqTot/DIOX AqDis/ICPMets.As.Fe.Mn	3
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL (HNO3) H2SO4 NaOH MEOH Na2S2O3 (ICE)	Dissolved Sample Field Filtered ☑
GZ-107	11/3/22 16:30	aqueous Grab or Comp	AqTot/DIOX AqDis/ICPMets.As.Fe.Mn	3
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL (HNO3) H2SO4 NaOH MEOH Na2S2O3 (ICE)	Dissolved Sample Field Filtered ☑

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EAI Project ID 31

Project Name Cross Road Landfill | Nov 2022

State NH

Client (Pro Mgr) Jennifer Perry

Customer Exeter, Town of

Address Town Office, 13 Newfields Road

City Exeter NH 03833-2792

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Email: jperry@exeternh.gov

Direct 773-6157

Results Needed by: Preferred date _____

Notes:

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PO# 4335-309

Quote#: 1016750

Temp 1.5 °C

Ice Y ☒ N ☐

Samples Collected by: CJ+VN

11/3/22 18:45

Relinquished by	Date/Time	Received by
	11/3/22 19:30	
Relinquished by	Date/Time	Received by
	11/4/22 0800	

CHAIN-OF-CUSTODY RECORD

251840
EXENH

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
P-2R	~~11/3/22~~ VN 10:10 11/3/22	aqueous (Grab) or Comp	AqTot/Cl/NO3/TKN/V8260/DIOX/ICPMets.As.Ba.Cd.Cr.Pb.Se.Ag.Hg.Fe.Mn.As	7
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* (HCL) (HNO3) (H2SO4) NaOH MEOH Na2S2O3 (ICE)	Dissolved Sample Field Filtered ☐
SW-13	11/3/22 10:55	aqueous (Grab) or Comp	AqTot/Cl/NO3/TKN/V8260/DIOX/ICPMets.As.Ba.Cd.Cr.Pb.Se.Ag.Hg.Fe.Mn.As	7
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* (HCL) (HNO3) (H2SO4) NaOH MEOH Na2S2O3 (ICE)	Dissolved Sample Field Filtered ☐
SW-16	15:55 11/3/22	aqueous (Grab) or Comp	AqTot/Cl/NO3/TKN/V8260/DIOX/ICPMets.As.Ba.Cd.Cr.Pb.Se.Ag.Hg.Fe.Mn.As	7
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* (HCL) (HNO3) (H2SO4) NaOH MEOH Na2S2O3 (ICE)	Dissolved Sample Field Filtered ☐
Trip Blank	10/21/22 07:30	aqueous (Grab) or Comp	AqTot/V8260/~~DIOX~~ (DIOX) unavailable (DIOX)	2
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* (HCL) HNO3 H2SO4 NaOH MEOH Na2S2O3 (ICE)	Dissolved Sample Field Filtered ☐

Please ensure this auto COC is accurate, adheres to permit or sampling requirements for this sampling event, and modify as necessary.

EAI Project ID 31
Project Name Cross Road Landfill | Nov 2022
State NH
Client (Pro Mgr) Jennifer Perry
Customer Exeter, Town of
Address Town Office, 13 Newfields Road
City Exeter NH 03833-2792
Phone 778-0591 Fax 772-4709
Email: jperry@exeternh.gov
Direct 773-6157

Results Needed by: Preferred date _____
Notes:

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QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP

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☐ e-mail Login Confirmation

PO# 4335-309
Quote#: 1016750
Temp 1.5 °C
Ice Y ☒ N ☐

Samples Collected by: Cameron Indeck, Vito Nunes
11/3/22 18:45

Relinquished by	Date/Time	Received by
	11/3/22 19:30	
	11/4/22 0800	

Eastern Analytical, Inc.
professional laboratory and drilling services

Jennifer Perry
Exeter, Town of
Town Office, 13 Newfields Road
Exeter , NH 03833-2792

Laboratory Report for:

Eastern Analytical, Inc. ID: 252406
Client Identification: Exeter Cross Road LF | Nov 2022
Date Received: 11/15/2022

Enclosed are the analytical results per the Chain of Custody for sample(s) in the referenced project. All analyses were performed in accordance with our QA/QC Program, NELAP and other applicable state requirements. All quality control criteria was within acceptance criteria unless noted on the report pages. Results are for the exclusive use of the client named on this report and will not be released to a third party without consent.

The following information is contained within this report: Sample Conditions summary, Analytical Results/Data, Quality Control data (if requested) and copies of the Chain of Custody. This report may not be reproduced except in full, without the written approval of the laboratory.

The following standard abbreviations and conventions apply to all EAI reports:
< : "less than" followed by the reporting limit
> : "greater than" followed by the reporting limit
%R : % Recovery

Certifications:
Eastern Analytical, Inc. maintains certification in the following states: Connecticut (PH-0492), Maine (NH005), Massachusetts (M-NH005), New Hampshire/NELAP (1012), Rhode Island (269), Vermont (VT1012), New York (12072), West Virginia (9910C) and Alabama (41620). Please refer to our website at www.easternanalytical.com for a copy of our certificates and accredited parameters.

References:
- EPA 600/4-79-020, 1983
- Standard Methods for Examination of Water and Wastewater, 20th, 21st, 22nd & 23rd edition or noted revision year.
- Test Methods for Evaluating Solid Waste SW 846 3rd Edition including updates IVA and IVB
- Hach Water Analysis Handbook, 4th edition, 1992
- ASTM International

If you have any questions regarding the results contained within, please feel free to contact customer service. Unless otherwise requested, we will dispose of the sample(s) 6 weeks from the sample receipt date.

We appreciate this opportunity to be of service and look forward to your continued patronage.

Sincerely,

Lorraine Olashaw, Lab Director — 12.1.22 Date

SAMPLE CONDITIONS PAGE

EAI ID#: **252406**

Client: **Exeter, Town of**

Client Designation: **Exeter Cross Road LF | Nov 2022**

Temperature upon receipt (°C): 14.1 **Received on ice or cold packs (Yes/No): N**

Acceptable temperature range (°C): 0-6

Lab ID	Sample ID	Date Received	Date/Time Sampled	Sample Matrix	% Dry Weight	Exceptions/Comments (other than thermal preservation)
252406.01	GMW-11RR	11/15/22	11/15/22 13:15	aqueous		Adheres to Sample Acceptance Policy

All results contained in this report relate only to the above listed samples.

Unless otherwise noted:

- *Hold times, preservation, container types, and sample conditions adhered to EPA Protocol.*
- *Solid samples are reported on a dry weight basis, unless otherwise noted. pH/Corrosivity, Flashpoint, Ignitability, Paint Filter, Conductivity and Specific Gravity are always reported on an "as received" basis.*
- *Analysis of pH, Total Residual Chlorine, Dissolved Oxygen and Sulfite were performed at the laboratory outside of the recommended 15 minute hold time.*
- *Samples collected by Eastern Analytical, Inc. (EAI) were collected in accordance with approved EPA procedures.*

LABORATORY REPORT

EAI ID#: **252406**

Client: **Exeter, Town of**

Client Designation: **Exeter Cross Road LF | Nov 2022**

Sample ID:	GMW-11RR
Lab Sample ID:	252406.01
Matrix:	aqueous
Date Sampled:	11/15/22
Date Received:	11/15/22
Units:	ug/L
Date of Analysis:	11/21/22
Analyst:	JAK
Method:	8260C
Dilution Factor:	1

Dichlorodifluoromethane	< 2
Chloromethane	< 2
Vinyl chloride	< 1
Bromomethane	< 2
Chloroethane	< 2
Trichlorofluoromethane	< 2
Diethyl Ether	< 2
Acetone	< 10
1,1-Dichloroethene	< 0.5
tert-Butyl Alcohol (TBA)	< 30
Methylene chloride	< 1
Carbon disulfide	< 2
Methyl-t-butyl ether(MTBE)	< 1
Ethyl-t-butyl ether(ETBE)	< 2
Isopropyl ether(DIPE)	< 2
tert-amyl methyl ether(TAME)	< 2
trans-1,2-Dichloroethene	< 1
1,1-Dichloroethane	< 1
2,2-Dichloropropane	< 1
cis-1,2-Dichloroethene	< 1
2-Butanone(MEK)	< 10
Bromochloromethane	< 1
Tetrahydrofuran(THF)	< 10
Chloroform	< 1
1,1,1-Trichloroethane	< 1
Carbon tetrachloride	< 1
1,1-Dichloropropene	< 1
Benzene	< 1
1,2-Dichloroethane	< 1
Trichloroethene	< 1
1,2-Dichloropropane	< 1
Dibromomethane	< 1
Bromodichloromethane	< 0.5
1,4-Dioxane	< 50
4-Methyl-2-pentanone(MIBK)	< 10
cis-1,3-Dichloropropene	< 0.5
Toluene	< 1
trans-1,3-Dichloropropene	< 0.5
1,1,2-Trichloroethane	< 1
2-Hexanone	< 10
Tetrachloroethene	< 1
1,3-Dichloropropane	< 1
Dibromochloromethane	< 1
1,2-Dibromoethane(EDB)	< 0.5
Chlorobenzene	< 1
1,1,1,2-Tetrachloroethane	< 1

LABORATORY REPORT

EAI ID#: **252406**

Client: **Exeter, Town of**

Client Designation: **Exeter Cross Road LF | Nov 2022**

Sample ID:	GMW-11RR
Lab Sample ID:	252406.01
Matrix:	aqueous
Date Sampled:	11/15/22
Date Received:	11/15/22
Units:	ug/L
Date of Analysis:	11/21/22
Analyst:	JAK
Method:	8260C
Dilution Factor:	1
Ethylbenzene	< 1
mp-Xylene	< 1
o-Xylene	< 1
Styrene	< 1
Bromoform	< 2
IsoPropylbenzene	< 1
Bromobenzene	< 1
1,1,2,2-Tetrachloroethane	< 1
1,2,3-Trichloropropane	< 0.5
n-Propylbenzene	< 1
2-Chlorotoluene	< 1
4-Chlorotoluene	< 1
1,3,5-Trimethylbenzene	< 1
tert-Butylbenzene	< 1
1,2,4-Trimethylbenzene	< 1
sec-Butylbenzene	< 1
1,3-Dichlorobenzene	< 1
p-Isopropyltoluene	< 1
1,4-Dichlorobenzene	< 1
1,2-Dichlorobenzene	< 1
n-Butylbenzene	< 1
1,2-Dibromo-3-chloropropane	< 2
1,3,5-Trichlorobenzene	< 1
1,2,4-Trichlorobenzene	< 1
Hexachlorobutadiene	< 0.5
Naphthalene	< 2
1,2,3-Trichlorobenzene	< 0.5
4-Bromofluorobenzene (surr)	**85 %R**
1,2-Dichlorobenzene-d4 (surr)	**109 %R**
Toluene-d8 (surr)	**98 %R**
1,2-Dichloroethane-d4 (surr)	**105 %R**

Dichlorodifluoromethane exhibited recovery above acceptance limits in the Quality Control sample(s).

QC REPORT

EAI ID#: **252406**

Client: **Exeter, Town of**

Batch ID: 638046-35643/A112122V82603

Client Designation: **Exeter Cross Road LF | Nov 2022**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Dichlorodifluoromethane	< 2	28 (142 %R)	26 (132 %R) (7 RPD)	11/21/2022	ug/L	40 - 160	20	8260C
Chloromethane	< 2	21 (107 %R)	20 (99 %R) (8 RPD)	11/21/2022	ug/L	40 - 160	20	8260C
Vinyl chloride	< 1	23 (113 %R)	20 (102 %R) (10 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Bromomethane	< 2	22 (111 %R)	20 (99 %R) (12 RPD)	11/21/2022	ug/L	40 - 160	20	8260C
Chloroethane	< 2	19 (97 %R)	18 (89 %R) (9 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Trichlorofluoromethane	< 2	23 (113 %R)	20 (100 %R) (12 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Diethyl Ether	< 2	18 (91 %R)	18 (88 %R) (4 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Acetone	< 10	20 (99 %R)	19 (97 %R) (2 RPD)	11/21/2022	ug/L	40 - 160	20	8260C
1,1-Dichloroethene	< 0.5	24 (119 %R)	22 (110 %R) (8 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
tert-Butyl Alcohol (TBA)	< 30	120 (115 %R)	120 (116 %R) (1 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Methylene chloride	< 1	19 (94 %R)	18 (90 %R) (5 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Carbon disulfide	< 2	21 (105 %R)	20 (98 %R) (6 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Methyl-t-butyl ether(MTBE)	< 1	20 (102 %R)	20 (98 %R) (4 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Ethyl-t-butyl ether(ETBE)	< 2	21 (106 %R)	22 (110 %R) (3 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Isopropyl ether(DIPE)	< 2	20 (102 %R)	22 (108 %R) (6 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
tert-amyl methyl ether(TAME)	< 2	23 (114 %R)	23 (115 %R) (1 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
trans-1,2-Dichloroethene	< 1	20 (98 %R)	19 (97 %R) (1 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
1,1-Dichloroethane	< 1	21 (106 %R)	22 (109 %R) (2 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
2,2-Dichloropropane	< 1	25 (123 %R)	24 (118 %R) (4 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
cis-1,2-Dichloroethene	< 1	21 (104 %R)	21 (105 %R) (2 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
2-Butanone(MEK)	< 10	18 (91 %R)	20 (99 %R) (9 RPD)	11/21/2022	ug/L	40 - 160	20	8260C
Bromochloromethane	< 1	22 (109 %R)	21 (107 %R) (2 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Tetrahydrofuran(THF)	< 10	18 (91 %R)	20 (101 %R) (10 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Chloroform	< 1	21 (106 %R)	21 (105 %R) (1 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
1,1,1-Trichloroethane	< 1	23 (113 %R)	22 (109 %R) (4 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Carbon tetrachloride	< 1	23 (117 %R)	22 (110 %R) (6 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
1,1-Dichloropropene	< 1	23 (115 %R)	23 (114 %R) (1 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Benzene	< 1	22 (109 %R)	22 (108 %R) (0 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
1,2-Dichloroethane	< 1	21 (107 %R)	21 (105 %R) (1 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Trichloroethene	< 1	23 (114 %R)	21 (104 %R) (9 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
1,2-Dichloropropane	< 1	23 (116 %R)	22 (108 %R) (7 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Dibromomethane	< 1	23 (113 %R)	21 (107 %R) (5 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Bromodichloromethane	< 0.5	23 (115 %R)	21 (107 %R) (8 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
1,4-Dioxane	< 50	< 50 (115 %R)	< 50 (112 %R) (3 RPD)	11/21/2022	ug/L	40 - 160	20	8260C
4-Methyl-2-pentanone(MIBK)	< 10	23 (116 %R)	22 (110 %R) (6 RPD)	11/21/2022	ug/L	40 - 160	20	8260C
cis-1,3-Dichloropropene	< 0.5	* 27 (133 %R)	23 (116 %R) (13 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Toluene	< 1	21 (106 %R)	21 (103 %R) (3 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
trans-1,3-Dichloropropene	< 0.5	23 (116 %R)	23 (114 %R) (2 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
1,1,2-Trichloroethane	< 1	21 (103 %R)	20 (101 %R) (1 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
2-Hexanone	< 10	20 (102 %R)	20 (102 %R) (1 RPD)	11/21/2022	ug/L	40 - 160	20	8260C
Tetrachloroethene	< 1	21 (105 %R)	20 (101 %R) (4 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
1,3-Dichloropropane	< 1	20 (101 %R)	20 (100 %R) (1 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Dibromochloromethane	< 1	21 (103 %R)	20 (101 %R) (2 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
1,2-Dibromoethane(EDB)	< 0.5	22 (110 %R)	22 (109 %R) (1 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Chlorobenzene	< 1	22 (109 %R)	21 (106 %R) (3 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
1,1,1,2-Tetrachloroethane	< 1	21 (105 %R)	20 (102 %R) (3 RPD)	11/21/2022	ug/L	70 - 130	20	8260C

QC REPORT

EAI ID#: **252406**

Client: **Exeter, Town of**

Batch ID: 638046-35643/A112122V82603

Client Designation: **Exeter Cross Road LF | Nov 2022**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
Ethylbenzene	< 1	23 (116 %R)	22 (112 %R) (3 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
mp-Xylene	< 1	48 (121 %R)	47 (116 %R) (4 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
o-Xylene	< 1	24 (121 %R)	24 (118 %R) (3 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Styrene	< 1	24 (119 %R)	23 (115 %R) (3 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Bromoform	< 2	23 (117 %R)	23 (116 %R) (1 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
IsoPropylbenzene	< 1	23 (117 %R)	22 (112 %R) (4 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Bromobenzene	< 1	20 (100 %R)	20 (99 %R) (1 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
1,1,2,2-Tetrachloroethane	< 1	20 (102 %R)	21 (103 %R) (1 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
1,2,3-Trichloropropane	< 0.5	20 (98 %R)	20 (99 %R) (1 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
n-Propylbenzene	< 1	23 (113 %R)	22 (110 %R) (3 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
2-Chlorotoluene	< 1	22 (109 %R)	22 (110 %R) (1 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
4-Chlorotoluene	< 1	23 (113 %R)	22 (108 %R) (5 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
1,3,5-Trimethylbenzene	< 1	22 (112 %R)	22 (109 %R) (3 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
tert-Butylbenzene	< 1	23 (115 %R)	22 (112 %R) (3 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
1,2,4-Trimethylbenzene	< 1	23 (115 %R)	22 (112 %R) (2 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
sec-Butylbenzene	< 1	24 (120 %R)	23 (116 %R) (3 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
1,3-Dichlorobenzene	< 1	21 (103 %R)	20 (102 %R) (2 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
p-Isopropyltoluene	< 1	23 (114 %R)	22 (111 %R) (2 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
1,4-Dichlorobenzene	< 1	19 (97 %R)	19 (95 %R) (1 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
1,2-Dichlorobenzene	< 1	19 (97 %R)	19 (96 %R) (1 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
n-Butylbenzene	< 1	22 (112 %R)	22 (109 %R) (3 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
1,2-Dibromo-3-chloropropane	< 2	20 (101 %R)	20 (102 %R) (1 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
1,3,5-Trichlorobenzene	< 1	19 (95 %R)	19 (95 %R) (1 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
1,2,4-Trichlorobenzene	< 1	19 (96 %R)	19 (97 %R) (0 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Hexachlorobutadiene	< 0.5	19 (94 %R)	18 (92 %R) (2 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
Naphthalene	< 2	21 (104 %R)	21 (107 %R) (3 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
1,2,3-Trichlorobenzene	< 0.5	20 (100 %R)	20 (101 %R) (1 RPD)	11/21/2022	ug/L	70 - 130	20	8260C
4-Bromofluorobenzene (surr)	85 %R	105 %R	104 %R	11/21/2022	% Rec	70 - 130	20	8260C
1,2-Dichlorobenzene-d4 (surr)	109 %R	96 %R	95 %R	11/21/2022	% Rec	70 - 130	20	8260C
Toluene-d8 (surr)	98 %R	97 %R	97 %R	11/21/2022	% Rec	70 - 130	20	8260C
1,2-Dichloroethane-d4 (surr)	104 %R	96 %R	97 %R	11/21/2022	% Rec	70 - 130	20	8260C

*/! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.

LABORATORY REPORT

EAI ID#: **252406**

Client: **Exeter, Town of**

Client Designation: **Exeter Cross Road LF | Nov 2022**

Sample ID:	GMW-11RR
Lab Sample ID:	252406.01
Matrix:	aqueous
Date Sampled:	11/15/22
Date Received:	11/15/22
Units:	ug/L
Date of Analysis:	11/16/22
Analyst:	MLW
Method:	8260B SIM
Dilution Factor:	1
1,4-Dioxane	< 0.2
4-Bromofluorobenzene (surr)	**106 %R**
Toluene-d8 (surr)	**103 %R**

QC REPORT

EAI ID#: **252406**

Client: **Exeter, Town of**

Batch ID: 638041-84289/A111622DIOX1

Client Designation: **Exeter Cross Road LF | Nov 2022**

Parameter Name	Blank	LCS	LCSD	Analysis Date	Units	Limits	RPD	Method
1,4-Dioxane	< 0.2	5.3 (106 %R)	5.3 (106 %R) (0 RPD)	11/16/2022	ug/L	70 - 130	20	8260B
4-Bromofluorobenzene (surr)	104 %R	103 %R	105 %R	11/16/2022	% Rec	70 - 130	50	8260B
Toluene-d8 (surr)	102 %R	102 %R	104 %R	11/16/2022	% Rec	70 - 130	50	8260B

*/! Flagged analyte recoveries deviated from the QA/QC limits. Data that impacts sample results are noted on the sample report.

LABORATORY REPORT

EAI ID#: **252406**

Client: **Exeter, Town of**

Client Designation: **Exeter Cross Road LF | Nov 2022**

Sample ID: GMW-11RR

Lab Sample ID: 252406.01
Matrix: aqueous
Date Sampled: 11/15/22
Date Received: 11/15/22

		Analysis			
	Units	Date	Time	Method	Analyst
Chloride	**91**	mg/L	11/16/22	9:37	4500ClE-11	ALM
Nitrate-N	< 0.5	mg/L	11/16/22	9:37	353.2	ALM
TKN	< 0.5	mg/L	11/29/22	16:51	$4500N_{org}C/NH3D$	GRS

QC REPORT

EAI ID#: **252406**

Client: **Exeter, Town of**

Client Designation: **Exeter Cross Road LF | Nov 2022**

Parameter Name	Blank	LCS	LCSD	Units	Date of Analysis	Limits	RPD	Method
Chloride	< 1	26 (105 %R)	26 (105 %R) (0 RPD)	mg/L	11/16/22	90 - 110	20	4500ClE-11
Nitrate-N	< 0.05	4.9 (98 %R)	4.9 (98 %R) (0 RPD)	mg/L	11/16/22	90 - 110	20	353.2
TKN	< 0.5	9.9 (99 %R)	10 (103 %R) (3 RPD)	mg/L	11/29/22	90 - 111	20	4500N_{org}C/NH3D-11

*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.

LABORATORY REPORT

EAI ID#: **252406**

Client: **Exeter, Town of**

Client Designation: **Exeter Cross Road LF | Nov 2022**

Sample ID: GMW-11RR

Lab Sample ID: 252406.01
Matrix: aqueous
Date Sampled: 11/15/22
Date Received: 11/15/22

		Analytical Matrix	Units	Date of Analysis	Method	Analyst
Arsenic	**0.00082**	AqDis	mg/L	11/17/22	200.8	DS
Barium	**0.030**	AqDis	mg/L	11/17/22	200.8	DS
Cadmium	< 0.001	AqDis	mg/L	11/17/22	200.8	DS
Chromium	< 0.001	AqDis	mg/L	11/17/22	200.8	DS
Iron	**0.22**	AqDis	mg/L	11/17/22	200.8	DS
Lead	< 0.001	AqDis	mg/L	11/17/22	200.8	DS
Manganese	**0.010**	AqDis	mg/L	11/17/22	200.8	DS
Mercury	< 0.0001	AqDis	mg/L	11/17/22	200.8	DS
Selenium	< 0.001	AqDis	mg/L	11/17/22	200.8	DS
Silver	< 0.001	AqDis	mg/L	11/17/22	200.8	DS

QC REPORT

EAI ID#: **252406**

Client: **Exeter, Town of**

Client Designation: **Exeter Cross Road LF | Nov 2022**

Parameter Name	Blank	LCS	LCSD		Units	Date of Analysis	Limits	RPD	Method
Arsenic	< 0.0005	0.20 (102 %R)		NA	mg/L	11/17/22	85 - 115	20	200.8
Barium	< 0.001	0.21 (107 %R)		NA	mg/L	11/17/22	85 - 115	20	200.8
Cadmium	< 0.001	0.19 (97 %R)		NA	mg/L	11/17/22	85 - 115	20	200.8
Chromium	< 0.001	0.20 (102 %R)		NA	mg/L	11/17/22	85 - 115	20	200.8
Iron	< 0.05	10 (103 %R)		NA	mg/L	11/17/22	85 - 115	20	200.8
Lead	< 0.001	0.19 (95 %R)		NA	mg/L	11/17/22	85 - 115	20	200.8
Manganese	< 0.005	0.20 (101 %R)		NA	mg/L	11/17/22	85 - 115	20	200.8
Mercury	< 0.0001	0.00097 (97 %R)		NA	mg/L	11/17/22	85 - 115	20	200.8
Selenium	< 0.001	0.20 (101 %R)		NA	mg/L	11/17/22	85 - 115	20	200.8
Silver	< 0.001	0.011 (106 %R)		NA	mg/L	11/17/22	85 - 115	20	200.8

*/! Flagged analyte recoveries deviated from the QA/QC limits. Unless noted, flagged data does not impact the sample data.

Eastern Analytical, Inc. CHAIN-OF-CUSTODY RECORD

252406

EXENH

Sample IDs	Date/Time *Composites need start and stop dates/times*	Matrix	Parameters and Sample Notes	# of containers
GMW-11 RR	11-15-2022 13:15	aqueous Grab or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260 AqDis/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	7

☒ Sampler confirms ID and parameters are accurate

Circle preservative/s: ~~HCl~~ ~~HNO3~~ ~~H2SO4~~ NaOH MEOH $Na_2S_2O_3$ ICE

Dissolved Sample Field Filtered ☒

Please ensure this auto COC is accurate, adheres to permit or sampling requirements for this sampling event, and modify as necessary.

EAI Project ID 31

Project Name Cross Road Landfill | Nov 2022

State NH

Client (Pro Mgr) Jennifer Perry

Customer Exeter, Town of

Address Town Office, 13 Newfields Road

City Exeter NH 03833-2792

Phone 778-0591 Fax 772-4709

Email: jperry@exeternh.gov

Direct 773-6157

Results Needed by: Preferred date _____

Notes:

Attn sampler: Auto chain of custody provided for your convenience, please review for accuracy and write in any needed changes

QC deliverables

☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP

ReportingOptions

☐ HC
☒ EDD PDF
☒ EDD email
☒ PDF prelim, NO FAX
☐ e-mail Login Confirmation
☐ NO FAX
☐ Partial FAX
☒ PDF Invoice
☐ EQUIS

PO# 4335-309

Quote#: 1016750

Temp 4.1 °C

Ice Y ☐ N ☒

Samples Collected by: Uto Nunes

Relinquished by	Date/Time	Received by
	11-15-22 / 16:30	
Relinquished by	Date/Time	Received by

CEC Summary Letter Report

November 22, 2022

Ms. Jennifer Perry, P.E.
Public Works Director
Town of Exeter DPW
13 Newfields Road
Exeter, NH 03833

Subject: November 2022 Semi Annual Groundwater Monitoring
Cross Road Landfill – Exeter, NH
NHDES GWP-198401081-E-005
CEC Project Number 194-400

Dear Ms. Perry,

The following is a summary of field sampling procedures and chain of custody documents for the above referenced groundwater monitoring project that occurred on November 2 – 3 and 15, 2022.

Civil & Environmental Consultants, Inc. (CEC) was contracted to collect samples from thirteen groundwater monitoring wells identified as RFW-2, RFW-3, RFW-4, GZ-1L, GZ-2L, GZ-3L, GZ-104, GZ-105, GZ-106, GZ-107, GZ-201, GZ-202A, GMW-11 RR, two piezometers identified as P-2R and P-9R, and eight surface water monitoring points identified as SW-10, SW-11, SW-13, SW-14, SW-15, SW-16, SW-17, and Upstream of Seep. GMW-11RR is a replacement well for GMW-11 in the permit.

FIELD SAMPLING ACTIVITY SUMMARY

The foot-valves at GZ-105 and RFW-4 were replaced. Dedicated waterra tubing and a foot-valve was installed in P-2R. The existing condition of the monitoring points identified as GZ-105, GZ-202A, P-2R, GMW-11, and GMW-11RR are noted in an attachment to this summary. Monitoring point RFW-3 was sampled on November 2. The remaining monitoring locations were sampled on November 3 except for GMW-11RR which was sampled on November 15. All wells that could be covered were covered and those that had locks were secured prior to leaving the site, except for RFW-4 which could not be locked.

Three monitoring wells, GZ-1L, GZ-2L, and GZ-106 were purged to dryness. The water levels were allowed to recharge overnight, reaching an acceptable recovery prior to sample collection for field parameters and off-site lab analysis. The samples for off-site analysis were collected into bottles (pre-preserved if required) provided by the contract laboratory, Eastern Analytical Inc. (EAI) of Concord, NH, then logged on to the chain of custody and placed on ice for delivery.

A YSI Pro DSS was calibrated by US Environmental Rental Corporation and functioning properly during all field parameter analysis. There were no onsite conditions (weather, construction, etc.) that would have an adverse impact on the sample data quality or integrity.

Groundwater monitoring location GZ-2L continued to have field results for pH consistent with historical trends of recent sampling events, with a value of 12.19 s.u. at the time of sampling. It should also be noted that groundwater monitoring location GMW-11RR had a field reading of 4.51 s.u., which was lower than historical trends. CEC undertook steps to confirm the results and took multiple field readings both before and after purging.

Groundwater samples noted as 'dissolved metals' were field filtered using a 0.45-micron filter apparatus prior to preservation. Field filter QA/QC data is provided as an attachment to this summary.

The laboratory data report will be sent directly to you from EAI within 10 - 14 business days.

The next required round of permit monitoring is scheduled to take place in April 2023.

Thank you for your continued utilization of our groundwater permit management services. Please do not hesitate to contact either of us with any questions or comments regarding the work performed.

Sincerely,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

Vito Nunes
Staff Scientist

Thomas E. Walker
Senior Project Manager

Attachments: November 2022 Field Summary Table
Well Condition Letter with photos
Eastern Analytical Chain of Custody Documents
Waterra 0.45-micron field filter QA/QC data
US Environmental Rental YSI Pro DSS Calibration Reports

cc: Jeffrey Rowell – GZA
Erik Dyrness – GZA

November 2022 Groundwater Monitoring Well Conditions

The following is a summary of monitoring well conditions observed during the groundwater monitoring project that occurred on November 2, 3 and 15, 2022.

During the November 2022 groundwater monitoring event, Civil & Environmental Consultants, Inc. (CEC) noted three groundwater monitoring wells, one piezometer, and one soil gas monitoring well that were damaged or may potentially become damaged. At monitoring well GZ-202A the two-inch PVC pipe extends beyond the well casing, preventing the cover to the well from being secured. P-2R was observed to be in good condition, however, a tree has fallen directly over the piezometer and is currently being supported by neighboring trees. If the fallen tree were to reach the ground, the piezometer may be damaged or destroyed. GMW-11 was observed to be at an angle with the concrete base uplifted, potentially having been hit and damaged in the past.

The groundwater monitoring well identified as GZ-105 had a significant amount of sand/sediment during purging. Before purging the waterra tubing was flush to the top of the PVC pipe. However, after purging the tubing would not go back into the well, leaving about a foot of tubing above the well. This excess tubing was removed to properly lock the well casing, but measures were taken to make sure the tubing was still accessible in the event it lowered over time. The sand/sediment would not clear up during purging and it appeared that more had entered the well during the purging process. This sand/sediment was also noticeably dense at the bottom of the purge water bucket. It is possible that the screen on the PVC pipe has been damaged and allowing the sand/sediment to pass through.

The groundwater monitoring well identified as GMW-11RR also had a significant amount of sand/sediment during purging. Before purging the waterra tubing was flush to the top of the PVC pipe. The tubing was able to be pushed back down to properly secure the well at the end of sampling. However, the water level indicator was not able to push through the sand/sediment at the bottom of the well, resulting in a false measurement for the depth to bottom. The waterra tubing was completely pulled out and measured to give an approximate depth to bottom of 18 feet, compared to the 13.64 feet the water level indicator recorded. The 18 feet for the depth to bottom has also been noted in previous field notes and was therefore used to calculate the amount of water to be purged during this sampling event. Roots were also seen in the purge water. It is possible that the screen on the PVC pipe has been damaged and allowing the sand/sediment and roots to pass through.

The condition of these monitoring points can be referenced on the attached Photo Log Sheet. The groundwater well conditions mentioned on the previous summary report from November 19, 2021, remain the same as well.

The following groundwater monitoring wells were missing a PVC plug or cap: GZ-2L, GZ-202A, RFW-2, RFW-3, RFW-4, and P-2R. CEC installed PVC plugs/caps to these monitoring wells when they returned on site on November 15, 2022. No lock was present on P-2R, P-9R, and GMW-11RR. The lock on RFW-4 would also not relock. All other wells in the network appeared to be in good condition.

It should be noted that the well keys CEC has at the moment are severely damaged and should not be used for the next sampling period. It is recommended that the locks are either replaced during the next sampling period or a new set of keys are provided.

Please do not hesitate to contact either of us with any questions or comments regarding the work performed.

Sincerely,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

Vito Nunes
Staff Scientist

Thomas E. Walker
Senior Project Manager

Table 1
Cross Road Landfill
Exeter, NH
Summary of Groundwater and Surface Water

Well ID	Depth To Water	Depth To Bottom	Purge Volume	pH	Specific Conductivity	Oxidation Reduction Potential	Dissolved Oxygen	Temperature
	ft	*ft*	*gal*	*s.u.*	*µS/cm*	*mV*	*mg/L*	*°C*
RFW-2	44.18	71.97	14	6.22	483.8	56.9	3.03	10.6
RFW-3	74.03	97.90	12	6.38	717	170.0	5.36	14.0
RFW-4	46.91	65.37	9.25	6.42	789	-6.9	1.93	12.4
GMW-11	DRY	11.00	--	--	--	--	--	--
GMW-11RR	12.89	~18	2.75	4.51	302	233.6	5.65	11.0
GZ-1L	21.85	76.88	**TD (5.5)**	7.81	643	254.4	4.49	9.9
GZ-2L	36.41	56.75	**TD (2)**	12.19	2485	-134.7	16.05	8.0
GZ-3L	13.86	38.98	12.75	7.00	301.6	-30.4	4.24	13.3
GZ-104	13.57	16.87	1.75	6.46	790	104.5	5.35	12.3
GZ-105	11.84	24.69	6.50	6.08	564	153.9	8.38	12.6
GZ-106	12.92	16.12	**TD (0.5)**	6.56	575	166.7	9.41	12.9
GZ-107	38.44	46.89	4.25	6.19	677	202.9	7.31	12.0
GZ-201	51.30	57.59	3.25	6.20	894	211.4	5.07	15.1
GZ-202A	51.57	66.50	7.50	6.58	567	-14.0	2.92	14.1
P-2R	4.14	7.74	0.50	6.72	293.4	-22.8	0.38	10.3
P-9R	2.88	7.50	0.55	7.22	761	-111.7	0.30	11.5
SW-10	--	--	--	6.45	290	72.1	4.38	14.6
SW-11	--	--	--	6.86	292.9	90.3	9.98	10.5
SW-13	--	--	--	6.48	282.3	-28.7	3.32	8.0
SW-14	--	--	--	7.10	375.6	93.2	8.36	11.3
SW-15	--	--	--	7.17	309.7	26.2	10.75	10.9
SW-16	--	--	--	6.87	633	183.7	8.93	12.9
SW-17	--	--	--	6.97	515	136.3	9.03	12.3
Upstream of Seep	--	--	--	7.03	294.1	109.3	10.63	10.7

Table 1
Cross Road Landfill
Exeter, NH
Summary of Groundwater and Surface Water

Field Personnel: Vito Nunes & Cam Indeck
Date: 11/02/22 - 11/03/22 and 11/15/22
Weather: 51º to 67º F and 42º F on 11/15/22

NOTES:
•**TD** = Well purged until dry
•Dissolved metals samples were field filtered using 0.45 micron filter prior to preservation with HNO_3.
•Samples were stored and transported on ice after collection
•Field measurements for static elevation taken using a Solinst Tape, readings for pH, Specific Conductivity, ORP, DO, and Temperature taken using a YSI Pro DSS.
•Field data sheets available upon request.

Photo 1: GZ-202A – Taken on: November 2, 2022

Photo 2: GMW-11– Taken on: November 2, 2022

Photo 3: P-2R– Taken on: November 2, 2022

Photo 4: P-2R Capped – Taken on: November 15, 2022

Civil & Environmental Consultants, Inc.
Raynham, MA
Phone: 774-501-2176 Toll Free: 866-312-2024

Cross Road Landfill
9 Cross Road, Exeter, NH 03833
CEC Project: 194-400

Photographs Taken On: November 2 and 15, 2022

Photo 5: GMW-11RR Visual Sample – Taken on: November 15, 2022

Photo 6: GMW-11RR Visual Sample After Settling – Taken on: November 15, 2022

Photo 7: GZ-105 Visual Sample – Taken on: November 15, 2022

Photo 8: GZ-105 Visual Sample After Settling – Taken on: November 15, 2022

Civil & Environmental Consultants, Inc.
Raynham, MA
Phone: 774-501-2176 Toll Free: 866-312-2024

Photo 9: GZ-105 Visual Sample After Pouring Out – Taken on: November 15, 2022

CHAIN-OF-CUSTODY RECORD

1 of 6

251840

EXENH

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
GMW-11		aqueous Grab or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260 AqDis/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
GZ-104	11/3/22 13:40	aqueous Grab or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260 AqDis/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	7
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☑
GZ-201	11/3/22 16:40	aqueous Grab or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260 AqDis/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	7
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☑
GZ-202A	08:40 11/3/22	aqueous Grab or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260/PFCsSubVAL AqDis/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	CI 9
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE Trizma T6	Dissolved Sample Field Filtered ☑

CDI 11/3/22

Please ensure this auto COC is accurate, adheres to permit or sampling requirements for this sampling event, and modify as necessary.

EAI Project ID 31
Project Name Cross Road Landfill | Nov 2022
State NH
Client (Pro Mgr) Jennifer Perry
Customer Exeter, Town of
Address Town Office, 13 Newfields Road
City Exeter NH 03833-2792
Phone 778-0591 **Fax** 772-4709
Email: jperry@exeternh.gov
Direct 773-6157

Results Needed by: Preferred date _____
Notes:

Attn sampler: Auto chain of custody provided for your convenience, please review for accuracy and write in any needed changes

QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP

ReportingOptions
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☒ EDD PDF
☒ EDD email
☒ PDF prelim, NO FAX
☐ e-mail Login Confirmation
☐ NO FAX
☐ Partial FAX
☒ PDF Invoice
☐ EQUIS

PO# 4335-309
Quote#: 1016750
Temp 1.5°C
Ice Y☒ N☐

Samples Collected by: Cameron Irdeh, Vito Munes

Relinquished by	Date/Time	Received by
Jim Nor	11/3/22 18:45	
	11/3/22 19:30	foyer
foyer	11/4/22 0800	

2 of 6

CHAIN-OF-CUSTODY RECORD

251840
EXENH

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
P-9R	10:35 11/3/22	aqueous (Grab) or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260 AqDis/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	7
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* (HCL) (HNO3) (H2SO4) NaOH MEOH Na2S2O3 (ICE)	Dissolved Sample Field Filtered ☑
RFW-2	09:20 11/3/22	aqueous (Grab) or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260 AqDis/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	7
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* (HCL) (HNO3) (H2SO4) NaOH MEOH Na2S2O3 (ICE)	Dissolved Sample Field Filtered ☑
RFW-3	17:30 11/2/22	aqueous (Grab) or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260/PFCsSubVAL AqDis/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	9
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* (HCL) (HNO3) (H2SO4) NaOH MEOH Na2S2O3 (ICE) (Trizma T6)	Dissolved Sample Field Filtered ☑
RFW-4	11:20 11/3/22	aqueous (Grab) or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260/PFCsSubVAL AqDis/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	9
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* (HCL) (HNO3) (H2SO4) NaOH MEOH Na2S2O3 (ICE)	Dissolved Sample Field Filtered ☑

Please ensure this auto COC is accurate, adheres to permit or sampling requirements for this sampling event, and modify as necessary.

EAI Project ID 31
Project Name Cross Road Landfill | Nov 2022

State NH
Client (Pro Mgr) Jennifer Perry
Customer Exeter, Town of
Address Town Office, 13 Newfields Road
City Exeter NH 03833-2792
Phone 778-0591 **Fax** 772-4709
Email: jperry@exeternh.gov
Direct 773-6157

Results Needed by: Preferred date _____
Notes:

Attn sampler: Auto chain of custody provided for your convenience, please review for accuracy and write in any needed changes

QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP

ReportingOptions
☐ HC ☒ EDD PDF ☒ EDD email ☒ PDF prelim, NO FAX ☐ e-mail Login Confirmation
☐ NO FAX ☐ Partial FAX ☒ PDF Invoice ☐ EQUIS

PO# 4335-309
Quote#: 1016750
Temp 1.5 °C
Ice Y ☒ N ☐

Samples Collected by: Cameron Indeck, Vito Nunes

Relinquished by	Date/Time	Received by
[signature]	11/3/22 18:45	[signature]
[signature]	11/3/22 19:30	[signature]
[signature]	11/4/22 0800	[signature]

3 of 6

CHAIN-OF-CUSTODY RECORD

251840
EXENH

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
GZ-1L	08:15 11/3/22	aqueous Grab or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	7
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
GZ-2L	09:05 11/3/22	aqueous Grab or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	7
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
GZ-3L	11:50 11/3/22	aqueous Grab or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	7
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SW-17	11/3/22 14:55	aqueous Grab or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	7
☐ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

Please ensure this auto COC is accurate, adheres to permit or sampling requirements for this sampling event, and modify as necessary.

EAI Project ID 31
Project Name Cross Road Landfill | Nov 2022

State NH
Client (Pro Mgr) Jennifer Perry
Customer Exeter, Town of
Address Town Office, 13 Newfields Road
City Exeter NH 03833-2792
Phone 778-0591 **Fax** 772-4709
Email: jperry@exeternh.gov
Direct 773-6157

Results Needed by: Preferred date _____
Notes:

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QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP

ReportingOptions
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☐ NO FAX ☐ Partial FAX ☒ PDF Invoice ☐ EQUIS

PO# 4335-309
Quote#: 1016750
Temp 1.5 °C
Ice Y ☒ N ☐

Samples Collected by: VN + CI

Relinquished by	Date/Time	Received by
[signature]	11/3/22 18:45	[signature]
[signature]	11/3/22 19:30	Soyer
Soyer	11/4/22 0800	[signature]

4 of 6

CHAIN-OF-CUSTODY RECORD

25/840

EXENH

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
Upstream of Seep	11/3/22 14:35	aqueous Grab or Comp	AqTot/ICPMets.As.Fe.Mn AqDis/ICPMets.As.Fe.Mn	2
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL (HNO3) H2SO4 NaOH MEOH Na2S2O3 (ICE)	Dissolved Sample Field Filtered ☑
SW-14	11/3/22 14:25	aqueous Grab or Comp	AqTot/ICPMets.As.Fe.Mn AqDis/ICPMets.As.Fe.Mn	2
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL (HNO3) H2SO4 NaOH MEOH Na2S2O3 (ICE)	Dissolved Sample Field Filtered ☑
SW-15	11/3/22 14:05	aqueous Grab or Comp	AqTot/Cl/NO3/TKN/V8260/DIOX/ICPMets.As.Ba.Cd.Cr.Pb.Se.Ag.Hg.Fe.Mn.As AqDis/ICPMets.As.Ba.Cd.Cr.Pb.Se.Ag.Hg.Fe.Mn.As	8
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* (HCL) (HNO3) (H2SO4) NaOH MEOH Na2S2O3 (ICE)	Dissolved Sample Field Filtered ☑
SW-11	11/3/22 12:45	aqueous Grab or Comp	AqTot/ICPMets.As.Fe.Mn AqDis/ICPMets.As.Fe.Mn	2
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL (HNO3) H2SO4 NaOH MEOH Na2S2O3 (ICE)	Dissolved Sample Field Filtered ☑

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State NH
Client (Pro Mgr) Jennifer Perry
Customer Exeter, Town of
Address Town Office, 13 Newfields Road
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Email: jperry@exeternh.gov
Direct 773-6157

Results Needed by: Preferred date _____
Notes:

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QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP

ReportingOptions
☐ HC ☒ EDD PDF ☒ EDD email ☒ PDF prelim, NO FAX ☐ e-mail Login Confirmation
☐ NO FAX ☐ Partial FAX ☒ PDF Invoice ☐ EQUIS

PO# 4335-309
Quote#: 1016750
Temp 1.5 °C
Ice Y ☒ N ☐

Samples Collected by: CJ+VN

Relinquished by	Date/Time	Received by
[signature]	11/3/22 18:45	[signature]
[signature]	11/3/22 19:30	[signature]
[signature]	11/4/22 0800	[signature]

5 of 6

CHAIN-OF-CUSTODY RECORD

251 840

EXENH

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
SW-10	11/3/22 12:40	aqueous Grab or Comp	AqTot/ICPMets.As.Fe.Mn AqDis/ICPMets.As.Fe.Mn	2
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL (HNO3) H2SO4 NaOH MEOH Na2S2O3 (ICE)	Dissolved Sample Field Filtered ☑
GZ-105	11/3/22 13:20	aqueous Grab or Comp	AqTot/DIOX AqDis/ICPMets.As.Fe.Mn	3
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL (HNO3) H2SO4 NaOH MEOH Na2S2O3 (ICE)	Dissolved Sample Field Filtered ☑
GZ-106	11/3/22 15:35	aqueous Grab or Comp	AqTot/DIOX AqDis/ICPMets.As.Fe.Mn	3
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL (HNO3) H2SO4 NaOH MEOH Na2S2O3 (ICE)	Dissolved Sample Field Filtered ☑
GZ-107	11/3/22 16:30	aqueous Grab or Comp	AqTot/DIOX AqDis/ICPMets.As.Fe.Mn	3
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL (HNO3) H2SO4 NaOH MEOH Na2S2O3 (ICE)	Dissolved Sample Field Filtered ☑

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Notes:

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PO# 4335-309
Quote#: 1016750
Temp 1.5 °C
Ice Y ☒ N ☐

Samples Collected by: CJ+VN
11/3/22 18:45

Relinquished by	Date/Time	Received by
	11/3/22 19:30	
Relinquished by	Date/Time	Received by
	11/4/22 0800	

6 of 6

CHAIN-OF-CUSTODY RECORD

251840

EXENH

Sample IDs	Date/Time (Composites need start and stop dates/times)	Matrix	Parameters and Sample Notes	# of containers
P-2R	~~11/3~~ WN 10:10 11/3/22	aqueous Grab or Comp	AqTot/Cl/NO3/TKN/V8260/DIOX/ICPMets.As.Ba.Cd.Cr.Pb.Se.Ag.Hg.Fe.Mn.As	7
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SW-13	11/3/22 10:55	aqueous Grab or Comp	AqTot/Cl/NO3/TKN/V8260/DIOX/ICPMets.As.Ba.Cd.Cr.Pb.Se.Ag.Hg.Fe.Mn.As	7
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
SW-16	15:55 11/3/22	aqueous Grab or Comp	AqTot/Cl/NO3/TKN/V8260/DIOX/ICPMets.As.Ba.Cd.Cr.Pb.Se.Ag.Hg.Fe.Mn.As	7
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐
Trip Blank	10/21/22 07:30	aqueous Grab or Comp	AqTot/V8260/DIOX	2
☑ Sampler confirms ID and parameters are accurate			*Circle preservative/s:* HCL HNO_3 H_2SO_4 NaOH MEOH $Na_2S_2O_3$ ICE	Dissolved Sample Field Filtered ☐

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Direct 773-6157

Results Needed by: Preferred date _____
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QC deliverables
☐ A ☐ A+ ☒ B ☐ B+ ☐ C ☐ MA MCP

ReportingOptions
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☐ NO FAX ☐ Partial FAX ☒ PDF Invoice ☐ EQUIS

PO# 4335-309
Quote#: 1016750
Temp 1.5 °C
Ice Y ☒ N ☐

Samples Collected by: Cameron Indeck, Vito Nunes

Relinquished by	Date/Time	Received by
	11/3/22 18:45	
	11/3/22 19:30	Sayer
Sayer	11/4/22 0800	

Eastern Analytical, Inc. CHAIN-OF-CUSTODY RECORD

252406

EXENH

Sample IDs	Date/Time *Composites need start and stop dates/times*	Matrix	Parameters and Sample Notes	# of containers
GMW-11 RR	11-15-2022 13:15	aqueous Grab or Comp	AqTot/Cl/NO3/TKN/DIOX/V8260 AqDis/ICPMets.As.Fe.Mn.Ba.Cd.Cr.Pb.Se.Ag.Hg	7

☒ Sampler confirms ID and parameters are accurate

Circle preservative/s: HCL ~~HNO$_3$~~ ~~H$_2$SO$_4$~~ NaOH MEOH $Na_2S_2O_3$ ICE

Dissolved Sample Field Filtered ☒

Please ensure this auto COC is accurate, adheres to permit or sampling requirements for this sampling event, and modify as necessary.

EAI Project ID 31

Project Name Cross Road Landfill | Nov 2022

State NH

Client (Pro Mgr) Jennifer Perry

Customer Exeter, Town of

Address Town Office, 13 Newfields Road

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Phone 778-0591 Fax 772-4709

Email: jperry@exeternh.gov

Direct 773-6157

Results Needed by: Preferred date _____

Notes:

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QC deliverables

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☐ EQUIS

PO# 4335-309

Quote#: 1016750

Temp 14.1 °C

Ice Y ☐ N ☒

Samples Collected by: Ute Nunes

Relinquished by	Date/Time	Received by
	11-15-22 / 16:30	

Relinquished by	Date/Time	Received by

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

PARAMETER	RDL
Aluminum (Al)	5.00 ug/L
Antimony (Sb)	0.50 ug/L
Arsenic (As)	0.10 ug/L
Barium (Ba)	0.50 ug/L
Beryllium (Be)	0.05 ug/L
Bismuth (Bi)	0.05 ug/L
Boron (B)	5.00 ug/L
Cadmium (Cd)	0.01 ug/L
Calcium (Ca)	50.00 ug/L
Chromium (Cr)	0.50 ug/L
Cobalt (Co)	0.05 ug/L
Copper (Cu)	0.50 ug/L
Iron (Fe)	10.00 ug/L
Lead (Pb)	0.05 ug/L
Magnesium (Mg)	50.00 ug/L
Manganese (Mn)	1.00 ug/L
Mercury (Hg)	0.05 ug/L
Molybdenum (Mo)	0.10 ug/L
Nickel (Ni)	0.50 ug/L
Phosphorus (P)	50.00 ug/L
Potassium (K)	50.00 ug/L
Selenium (Se)	0.50 ug/L
Silver (Ag)	0.02 ug/L
Sodium (Na)	50.00 ug/L
Strontium (Sr)	0.10 ug/L
Thallium (Tl)	0.02 ug/L
Tin (Sn)	0.05 ug/L
Titanium (Ti)	1.00 ug/L
Tungsten (W)	0.10 ug/L
Uranium (U)	0.01 ug/L
Vanadium (V)	0.50 ug/L
Zinc (Zn)	2.00 ug/L
Zirconium (Zr)	0.50 ug/L

All elements are non-detected within the listed reportable detection limits (RDL).

US Environmental Rental Corporation

(888) 550-8100 www.usenvironmental.com

166 Riverview Ave, Waltham, MA 02453 (781) 899-1560
91 Prestige Park Circle, Suite 5, East Hartford, CT 06108 (860) 289-8700
5C South Gold Dr, Hamilton, NJ 08691 (609) 570-8555
1202 Tech Blvd., Suite 108, Tampa, FL 33619 (813) 628-4200
781 Industrial Dr, Elmhurst, IL 60126 (630) 501-1847

Order No.: 0
Date: 10/26/2022
Technician: MA

YSI

Company: 0
Contact: 0
Phone #: #N/A

Packing List

Item	Serial Number	Tech	QC
0	3520-1176	✓	
Handheld Display	3530-1452	✓	

Item	Tech	QC	Item	Tech	QC
Cable 12 '			*AC Adaptor*		
Flow Cell			*Stand*		
Barb Kit			*D.O Kit*		
Storage / Cal Cup			*Calibration Kit*		
Sensor Guard					
Manual					
Sonde Cap					
Software					
Extra Batteries					
Display Comm. Cable					
Sonde Comm. Cable					

Calibration Report

0			3520-1176	
Parameter	***Accuracy***	***Before***	***After***	***Lot #***
Conductivy 1000 µs/cm	*(+/-.5%)*	1001	1000	2GD075
pH 7 Buffer	*(+/- .2)*	7.27	7.02	1GH743
pH mV for 7 Buffer	*(0 +/- 50)*		**-15.9**	
pH 4 Buffer	*(+/- .2)*	4.36	4.00	1GH1124
pH mV for 4 Buffer	*(180 +/- 50)*		**153.2**	
pH 10 Buffer	*(+/- .2)*	10.23	10.06	2GD857
pH mV for 10 Buffer	*(-180 +/- 50)*		**-187.8**	
ORP mV, 237.5	*(+/- 20 mV)*	218.0	238.00	9GC160
DO 100% Sat	*(+/- 2%)*	101.0%	98.7%	
0% DO Check	*(+/- 2%)*		2.00	
Turbidity 0 NTU	*(+/- 5%)*	0.6	0.0	
Turbidity 126 NTU	*(+/- 5%)*	114.0	124.0	

This document certifies that US Environmental Rental Corporation has provided this rental equipment and all accessories in good working order. It is the renter's responsibility to: a) review all included items upon receipt, b) verify that all items are in acceptable condition and function properly, and c) contact a US Environmental associate immediately if any item is missing, damaged, and/or not functioning properly. Any delay in notifying US Environmental will be considered as the Renter taking responsibility for such missing, damaged, and/or malfunctioning item.

Missing, damaged, and/or malfunctioning equipment and accessories will result in additional fees.

US Environmental Rental Corporation

(888) 550-8100 www.usenvironmental.com

166 Riverview Ave, Waltham, MA 02453 (781) 899-1560
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781 Industrial Dr, Elmhurst, IL 60126 (630) 501-1847

Order No.: 0
Date: 11/14/2022
Technician: MA

YSI

Company: 0
Contact: 0
Phone #: #N/A

Packing List

Item	Serial Number	Tech	QC
556	0	✓	
Handheld Display	3510-1059	✓	

Item	Tech	QC	Item	Tech	QC
Cable 12 '	✓		AC Adaptor		
Flow Cell	✓		Stand		
Barb Kit	✓		D.O Kit	✓	
Storage / Cal Cup	✓		Calibration Kit	✓	
Sensor Guard	✓				
Manual					
Sonde Cap					
Software					
Extra Batteries	✓				
Display Comm. Cable					
Sonde Comm. Cable					

Calibration Report

556			0	
Parameter	***Accuracy***	***Before***	***After***	***Lot #***
Conductivy 1000 µs/cm	*(+/-.5%)*	998	1000	2GD075
pH 7 Buffer	*(+/- .2)*	6.78	7.00	1GH743
pH mV for 7 Buffer	*(0 +/- 50)*		**12.5**	
pH 4 Buffer	*(+/- .2)*	4.19	4.00	1GH1124
pH mV for 4 Buffer	*(180 +/- 50)*		**174.9**	
pH 10 Buffer	*(+/- .2)*	10.04	10.01	2GD857
pH mV for 10 Buffer	*(-180 +/- 50)*		**152.2**	
ORP mV, 237.5	*(+/- 20 mV)*	228.6	249.00	9GC160
DO 100% Sat	*(+/- 2%)*	114.2%	100.7%	
0% DO Check	*(+/- 2%)*		2.00	
Turbidity 0 NTU	*(+/- 5%)*			
Turbidity 126 NTU	*(+/- 5%)*			

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