DES Waste Management Division
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2013 ANNUAL SUMMARY REPORT
CROSS ROAD LANDFILL
EXETER, NEW HAMPSHIRE
NHDES SITE # 198401081
GROUNDWATER MANAGEMENT PERMIT #198401081-E-004
PROJECT NO. 978

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Date of Report: February 14, 2014

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February 14, 2014
File No. 04.0021270.24

Groundwater Management Permit Coordinator
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Re: Annual Summary Report Calendar Year 2013
Cross Road Landfill
Exeter, New Hampshire
Groundwater Management Permit No. GWP-198401081-E-004

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 (Landfill) in Exeter during calendar year 2013. This report has been submitted to fulfill the requirement of an Annual Summary Report for the Landfill for calendar year 2013, as required by Condition No. 7 of the Groundwater Management Permit (Permit; GWP-198401081-E-004; issued December 16, 2013).

This report includes GZA's conclusions and recommendations regarding the Landfill water quality monitoring conducted under the Permit, and focuses on the results from the December 2013 monitoring round. The results of the May 2013 sampling were previously discussed in GZA's report[1] dated August 30, 2013 documenting the supplemental, off-site hydrogeologic investigations. A brief summary of the findings and conclusions from that report are included herein. GZA's work and this report are subject to the attached ***Limitations***.

The following data summary documents are also attached:

- **Table 1** summarizing the results of water quality monitoring associated with the Landfill through 2013 including results of analytical laboratory and field screening analyses;
- **Table 2** summarizing recent surface water and groundwater level elevation data;
- **Table 3** summarizing the results of supplemental water quality monitoring performed during May 2013;
- **Plot 1A** through **Plot 5D** illustrating primary indicator water quality parameter concentration data;
- **Figure 1** showing Landfill and vicinity features including water quality monitoring locations;
- **Figure 2** summarizing recent Landfill water quality and elevation data; and
- **Figure 3** illustrating a hydrogeologic cross-section from the Landfill to the Exeter River.

[1] Report titled "Supplemental Investigation Report, May 2013 Water Quality Monitoring and Groundwater Management Zone Evaluation."

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

WORK PERFORMED

SUMMARY OF MAY 2013 SUPPLEMENTAL INVESTIGATIONS

May 2013 groundwater quality data were used, along with historic Landfill groundwater quality and hydrogeologic data, to evaluate shallow overburden groundwater quality east of the Landfill as summarized in GZA's report dated August 30, 2013. The objective was the delineation of an area of potential Landfill-related impacts, first identified at a groundwater seep located approximately 700 feet northeast of the Landfill, to support the development of recommendations regarding Groundwater Management Zone (GMZ) for the Landfill.

Based on the data collected, GZA concluded that the concentrations of potentially landfill-related groundwater contaminants detected in groundwater samples collected from monitoring wells GZ-202A, GZ-102, and GZ-104 indicated concentrations of potentially landfill-related contaminants exceeding New Hampshire Ambient Groundwater Quality Standard (NH AGQS) in groundwater immediately east of the Landfill and proximate to the seep. Based on the estimated direction of groundwater flow and distribution of potential landfill-related contaminants, the estimated area of potential landfill-related exceedances of NH AGQS included portions of the properties located to the east of the Landfill between the Landfill and the Exeter River. Based on the results of the May 2103 sampling and analysis, as well as historic data, the GMZ for the Landfill was expanded to include selected additional properties located east of the Landfill. Refer to **Table 3** for a summary of the May 2013 supplemental sampling results, and **Figure 1** for an illustration of the current configuration of the GMZ including properties located east of the Landfill.

The recently issued Permit for the Landfill also reflects the results of the May 2013 and historical water quality monitoring.

PERMIT-RELATED LANDFILL WATER QUALITY MONITORING

In accordance with Condition No. 7 of the Permit, water quality monitoring during the reporting period included the following sampling locations:

- Twelve groundwater monitoring wells (RFW-2, RFW-3, RFW-4, GZ-1U, GZ-1L, GZ-2L, GZ-3L, GZ-102, GZ-104, GZ-106, GZ-201, and GZ-202A);
- Two piezometers (GZ-P-2R [a.k.a, SW-P-2, P-2, and south spring] and GZ-P-9R [a.k.a., SW-P-9, P-9, and north spring]); and
- Three surface water sampling locations (SW-13, SW-16 and SW-17 [landfill seeps located proximate to the Exeter River).

GZA notes that due to limited recharge in well GZ-106 and the thickness of the ice cover at surface water sampling location SW-13, water quality samples were not collected from these Permit-required locations during December 2013.

Historically, water quality samples have been collected annually during April and November; however, the November 2013 sampling round was performed during December 2013, with the approval of the NHDES, to allow for issuance of the current Permit and the sampling to be

performed consistent with the Permit. Future monitoring events are anticipated to occur during April and November.

Available water quality data for historic Landfill sampling locations include the results of sampling from May 1992 through December 2013 and are summarized in **Table 1**. Water quality monitoring has historically 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, with modifications based on the results of monitoring.

As required by the Permit (GWP-198401081-E-004, issued December 16, 2013), current water quality monitoring includes sample collection and analyses for specific conductance, pH, chloride, nitrate, TKN, iron, manganese, and arsenic annually during November (December for year 2013 only) and April. Permit required monitoring during December 2013 also included collection and analysis of samples for VOCs[2] (including 1,4-dioxane by low-level analysis) and Drinking Water Metals including: barium, cadmium, chromium, lead, mercury, selenium, and silver. Additional sampling round specific analyses are required during April 2014 and November 2014, 2015, 2017.[3]

With the exception of wells GZ-1L, GZ-2L, and GZ-3L, each of the Permit-related Landfill groundwater quality monitoring wells and piezometers is screened within overburden. Consistent with the Permit and standard NHDES requirements, overburden groundwater and groundwater seep samples for analytical laboratory analysis of metals concentration are field filtered, and the data represent dissolved concentrations. Surface water samples for analytical laboratory analysis of metals concentration are not field filtered, and the data represent total concentrations. GZA notes that the groundwater quality samples collected and analyzed for metals from the three wells screened in bedrock were field filtered and analyzed for dissolved metals rather than total metals in accordance with the Permit requirements.

Except as noted, Civil & Environmental Consultants, Inc. (CEC) conducts sample collection and field screening on behalf of the Town. Water quality samples are submitted by CEC to Eastern Analytical, Inc. (EAI), of Concord, New Hampshire for analytical laboratory analyses. GZA understands that copies of CEC's reports and EAI's analytical laboratory reports are submitted to the NHDES by the Town. GZA provides environmental consulting support to the Town, and is 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 conceptual model provides a summary of our understanding of site hydrogeology and contaminant distribution and transport, and is described in the following subsections.

[2] NHDES Waste Management Division Full List of Analytes for Volatile Organics by EPA Method 8260B.

[3] GZA notes that the Permit indicates sampling in November and December 2017. One round during November 2017 is anticipated and will be confirmed with NHDES prior to November 2017.

HYDROGEOLOGY

Geology

Based on the results of subsurface explorations at and within the vicinity of the Landfill 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 toward the east of the Landfill is illustrated on **Figure 3**. Overburden geology includes up to 99 feet (RFW-3) of glacial outwash sand and gravel overlying a thin (about 4 feet) discontinuous layer of glacial till. The thickness of the sand and gravel deposit beneath the Landfill area varies, in part, due to historic sand and gravel mining. Up to 11 feet of silt and clay was encountered in certain borings drilled along the western portion of the side of the Landfill. The silt and clay unit may be associated with glaciolacustrian deposits identified to the west of the site underlying the Jones Swamp, or may be the result of a 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 toward the 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 was 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) toward 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 toward 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).

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 outwash sands is estimated to flow radially away from the Landfill. The estimated horizontal component of the direction of groundwater flow ranges from east-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 obtained during December 2013 by CEC (supplemented with water level data collected by CEC during May 2013), are shown on **Figure 2**. Historical depth-to-water and water surface elevation data collected by GZA and others are summarized in **Table 2**. Historic 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.

The calculated estimate of the average horizontal component of the hydraulic gradient beneath the site is approximately 0.010 and varies from approximately 0.045 (beneath the southwest portion of site) to 0.005 (beneath the northwest portion of site). The average hydraulic gradient from the eastern portion of the Landfill to the Exeter River located toward the east-northeast of the Landfill is 0.014.

Recharge from the sedimentation ponds within the center of the site may cause a local reversal in the direction of shallow overburden groundwater flow toward the 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 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.

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 0.010, and an assumed effective porosity of 0.30, the estimated average seepage velocity for the sand and gravel unit beneath the Landfill is approximately 0.5 feet per day. Based on an average estimated hydraulic conductivity of 5.5×10^{-3} cm/sec, an average hydraulic gradient from the eastern side of the Landfill to the Seep located east of the Landfill of about 0.014, and an assumed effective porosity of 0.30, the estimated average seepage velocity for the sand and gravel unit beneath the Landfill is approximately 0.7 feet per day.

Based on 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 toward 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

The following subsection describes the site conceptual model with respect to contaminant, distribution, and transport. The term contaminant as used herein refers to dissolved-phase VOCs, metals, and inorganic parameters with a Landfill source. Routine water quality monitoring has been on-going at the Landfill since May 1992, and Landfill post-closure water quality monitoring has been ongoing in accordance with a Permit since November 1996. Historical Landfill groundwater quality data are summarized in **Table 1**. Water quality monitoring locations are shown on **Figure 1.** Contaminant concentration trends are described in the *Water Quality Trend Evaluation* section of this report.

In general, the results of historic and recent Landfill groundwater quality and elevation data indicate contaminant transport in overburden toward the north with transport locally toward the northwest and northeast. Sampling locations RFW-3, RFW-4, and SW-P-9 are downgradient of the Landfill. Sampling locations RFW-2 and SW-P-2 are sidegradient to downgradient of the Landfill, and GZ-3L is assumed to be upgradient of the Landfill.

Supplemental hydrogeologic investigations east of the Landfill are on-going, and descriptions of the work performed and results associated with the off-site investigation are included in GZA's October 16, 2009 and January 18, 2013 reports.[4] The off-site investigation has been focused on evaluating the source of landfill-related groundwater contaminants discharged through a seep located proximate to the Exeter River.

The areas toward the north and east of the Landfill are zoned residentially, 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; 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.

Shallow overburden groundwater monitoring wells GZ-101 through GZ-107 were installed and sampled. The results of the shallow overburden well sampling, potential Landfill-related impacts to overburden groundwater quality were confirmed in the vicinity of the groundwater seep. 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.

[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.

December 2013 supplemental arsenic, iron, and manganese concentration data are summarized on **Figure 2** to illustrate the spatial distribution of these landfill-related contaminants. The arsenic, iron, and manganese data summarized on **Figure 2** are consistent with a groundwater flow pathway from the eastern side of the Landfill east-northeastward toward the Seep, and a Landfill source for the exceedances of arsenic in downgradient groundwater, and also suggest a background contribution. Significantly, 1,4-dioxane has been detected in groundwater quality samples collected from well GZ-104 at concentrations ranging from 0.83 µg/L to 1.7 µg/L. The presence of 1,4-dioxane in groundwater at this location and in groundwater samples collected from well GZ-202A (2.2 µg/L to 2.8 µg/L) is consistent with a Landfill source for the other landfill-related parameters. 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 notes that the supplemental investigation is ongoing and additional tasks may be completed as described in GZA's January 18, 2013 report and recommended herein. However, while background contributions for certain landfill-related parameters are likely and other sources may be possible, it is GZA's opinion that the likely source for the landfill-related parameters in the vicinity of the seep is the Landfill. This conclusion is supported by:

- the suite and relative concentrations of potentially landfill-related contaminants detected in groundwater samples within the vicinity of the seep (GZ-104) and eastern side of the Landfill (GZ-202A) including the presence of 1,4-dioxane in groundwater samples collected from GZ-104; and
- the general direction of groundwater flow between the Landfill and the seep.

GZA anticipates that the presence of the 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

Year 2013 groundwater quality data are consistent with historic Landfill water quality monitoring and indicate that groundwater quality improved or has remained relatively stable following closure of the Landfill during 1994. Recent monitoring indicates limited exceedances of NH AGQS and/or Secondary Maximum Concentration Limits (SMCLs),[5] primarily for certain parameters typical of landfill-related water quality (*i.e.*, arsenic, iron, and manganese).

Landfill-related groundwater contaminants routinely detected in groundwater sampled from monitoring wells located downgradient of the Landfill include arsenic, barium, chloride, iron, and manganese (and recently 1,4-dioxane). Recent detection of 1,4-dioxane is due to the use of recently commercially available analytical methods requested by the NHDES. The recent detections of this VOC do not indicate the presence of a recent or ongoing release at the Landfill.

Certain other metals and inorganic parameters, and VOCs have been intermittently detected in groundwater sampled from monitoring wells located downgradient of the Landfill, including cadmium, chromium, lead, mercury, selenium, and silver. Significantly, only arsenic, iron, and manganese are routinely detected in Landfill groundwater samples at concentrations exceeding

[5] 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]).

NH AGQS (arsenic and manganese) or 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 contaminants other than arsenic, manganese, iron, and VOCs, and has been revised through year 2013.

PARAMETER	LOCATION	CONCENTRATION (mg/L)	SAMPLING DATE	WATER QUALITY STANDARDS (mg/L)
Cadmium	SW-P-2/P-2R	0.007	4/99	AGQS – 0.005 WQCTS – 0.00095
		0.0078	4/01	
	SW-P-9/P-9R	0.012	4/99	
	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	AGQS – 0.10 WQCTS- NE
Lead	SW-P-2/P-2R	0.18	4/97	AGQS – 0.015 WQCTS- NE
	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 AGQS –NE
	GZ-6	460	7/01	
Nitrate	RFW-4	19	11/96	AGQS – 10
Selenium	RFW-3	0.06	11/03	AGQS – 0.05 WQCTS- 0.170
	GZ-1U	0.0711	8/01	
	GZ-1L	0.082	8/01	
	GZ-2L	0.05	11/03	
	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.[6]
2. mg/L indicates milligrams per liter.
3. NE indicates not established.

The detected concentrations of silver do not exceed NH AGQS, and silver has not been detected in water quality samples since May 2000. Thallium has not been detected in Landfill groundwater samples (data for thallium limited to results from one sampling round [April 1995]). There have been no exceedances of applicable water quality standards for landfill contaminants other than arsenic, manganese, and iron since November 2003, with the following exceptions:

- Certain metals (chromium, lead, barium, and selenium) detected in the April 2006 water quality sample collected from SW-1;

[6] 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.

- Cadmium detected in the November 2010 water quality sample from SW-13 and April 2012 water quality sample from SW-1; and
- Lead detected in the November 2010 water quality sample collected from SW-13.

VOCs, including methylene chloride, trichloroethene (TCE), acetone, chloroethane, methyl-*tertiary*-butyl ether, naphthalene, benzene, and chlorobenzene, have also been intermittently detected in groundwater samples from the Landfill at concentrations below NH AGQS. Only the historic concentrations of methylene chloride (9.5 micrograms per liter [µg/L], RFW-2, 11/16/98 and 16 µg/L, RFW-4, 11/16/98), and TCE (6.6 µg/L, RFW-4, 11/16/98) have exceeded NH AGQS. Methylene chloride and TCE were reported on three analytical laboratory reports provided to GZA by the Town for the November 1998 sampling round, but have not been detected in the remainder of the groundwater samples collected since closure of the Landfill.

Since 2009, VOCs other than 1,4-dioxane have only been detected in groundwater quality samples collected from well points GZ-P-2R and GZ-P-9R located toward the west of the Landfill, and monitoring well MW-202A located northeast of the Landfill. VOCs were detected in the December 2013 water quality samples collected from these locations, and were limited to p-isopropyltoluene (7 µg/L at GZ-P-2R, 11 µg/L at GZ-P-9R, and 2 µg/L at GZ-202A) and toluene (1 µg/L at GZ-P-2R. The detected concentrations of p-isopropyltoluene and toluene do not exceed the NH AGQS 260 µg/L and 1,000 µg/L, respectively.

1,4 dioxane has been detected in groundwater quality samples collected from RFW-2, RFW-3, RFW-4, GZ-P-2R, GZ-P-9R, GZ-P-5R, GZ-102, GZ-104, GZ-202A, and SW-16. 1,4-dioxane was not detected in samples collected during one or more sampling rounds from sampling locations GZ-1U, GZ-201, GZ-1L, GZ-2L, GZ-3L, SW-1 (Exeter River), SW-13, and SW-17. The concentrations of 1,4-dioxane detected in certain water quality samples collected from wells RFW-4 (4/2009, 11/2009, and 11/2010) and GZ-P-9R (4/2009 and 11/2010) exceed the New Hampshire AGQS for 1,4-dioxane (3 µg/L). However, the concentrations of 1,4-dioxane detected in water quality samples collected at these water quality monitoring locations were recently (4/2011 through 12/2013) below the NH AGQS. Additionally, the concentrations of 1,4-dioxane detected in water quality samples collected since 2010 and analyzed for 1,4-dioxane did not exceed NH AGQS, including samples collected from wells RFW-4 (5 samples) and GZ-P-9R (3 samples). Refer to **Table 1** for sampling locations and results.

The results of the year 2013 Permit-related groundwater quality monitoring indicate exceedances of NH AGQS for arsenic (RFW-2, RFW-3, RFW-4, GZ-P-2R, GZ-P-9R, GZ-104, GZ-202A, SW-16 and SW-17), and manganese (RFW-3, RFW-4, GZ-1U, GZ-2L, GZ-102, GZ-104, GZ-202A, GZ-P-2R, GZ-P-9R, SW-16 and SW-17) in water quality samples collected during one or more of the sampling rounds. The remaining target analytes were not detected in the water quality samples or were detected at concentrations below their associated water quality standards (excluding SMCLs which are not directly applicable to the samples collected).

WATER QUALITY TREND EVALUATION

Plots of arsenic, iron, manganese, and chloride concentrations over time were prepared using data from selected water quality monitoring locations to illustrate concentration trends for graphical evaluation. Copies of these plots are attached and generally described below. The water quality parameters were selected based on their occurrence in groundwater as a general Landfill water quality indicator, and detected concentration relative to NH AGQS. Locations were selected

based on the length of record and persistence of the detection of the referenced parameters, and include RFW-1, RFW-2, RFW-3, RFW-4, GZ-104, GZ-P-2R/SW-P-2 [P-2 (southern spring)], GZ-P-9R/SW-P-9 [P-9 (northern spring)], GZ-1U, GZ-2L, GZ-P-5R, SW-1, and SW-17. Please note that where concentrations are reported as less than the laboratory RL, one half of the RL is shown on the concentration trend plots.

ARSENIC – ***Plot 1A Through Plot 1D***

The plots of arsenic concentration data for groundwater sampling locations indicate, with exceptions noted below, overall stable arsenic concentration trends in groundwater during the past 5 years, with the majority of monitoring locations below the NH AGQS for arsenic (0.1 mg/L).

- The arsenic concentration trend for GZ-104 appears to be increasing since April 2011, with the May and December 2013 concentrations exceeding NH AGQS.
- The recent arsenic concentration trend for RFW-4 appears to be gradually decreasing, with the decreasing trend beginning around November 2002.
- Arsenic concentration data for bedrock monitoring well location GZ-2L suggests a downward concentration trend with an increase in concentrations noted during December 2013.

Arsenic concentration data for surface water sampling location SW-17 (seep) indicates variable concentrations exceeding the WQCTS standards for the protection of human health (0.0000018 mg/L [fish and water ingestion]), but not the WQCTS fresh chronic (0.15 mg/L) standards for the protection of aquatic life. Arsenic has not been recently detected above RLs in samples collected from sampling location SW-1 (Exeter River).

IRON – ***Plot 2A Through Plot 2D***

The iron concentration data suggest currently relatively stable iron concentrations in groundwater at the locations represented by wells RFW-2, RFW-3, and RFW-4. Iron concentration data for GZ-104 and seep location GZ-P-9R suggests a potential gradually increasing concentration trend, while iron concentration data for well GZ-P-5R indicates a potentially decreasing concentration trend.

Recent iron concentration data for surface water sampling location SW-1 (Exeter River) suggests a stable iron concentration between approximately 0.2 mg/L to 0.4 mg/L. Iron concentration data for surface water sampling location SW-17 (seep) indicates variable concentrations generally exceeding the WQCTS[7] fresh chronic (1 mg/L) standards for the protection of aquatic life, and WQCTS standards for the protection of human health (0.3 mg/L [fish and water ingestion]).

MANGANESE – ***Plot 3A Through Plot 3D***

The manganese concentration data indicate relatively stable manganese concentrations in groundwater at overburden monitoring locations with limited (less than one order of magnitude) fluctuations in concentration. The magnitude of the fluctuations in manganese concentrations in groundwater samples collected from well RFW-3 is significantly greater than the fluctuations at the remainder of the groundwater sampling locations. The plot of the data for well RFW-3

[7] WQCTS have only been established for iron under the fresh chronic aquatic life and fish and water ingestion human health categories.

suggests an increasing trend of manganese concentration prior to July 1998 with significantly lower concentrations and a stable concentration trend following the July 1998 monitoring round, and a recent potential increasing concentration trend.

The manganese concentration data for overburden well GZ-P-5R and bedrock well GZ-2L suggest decreasing concentration trends; however, GZA notes that the results of the December 2013 sampling event are not consistent with the noted downward concentration trend for well GZ-2L, and suggest a potential increasing trend beginning between November 2008 and April 2010. The manganese concentration data for well GZ-1U, RFW-3, and well GZ-104 suggest increasing concentration trends.

Recent manganese concentration data for surface water sampling location SW-1 suggest a decreasing to stable concentration, with the majority of manganese concentrations below the WQCTS for the protection of human health water and fish ingestion (0.05 mg/L). The concentration trend for manganese at surface water sampling location SW-17 (seep) is similar to the concentration trend of iron at the same location with concentrations generally exceeding the WQCTS[8] standards for the protection of human health (0.050 mg/L [fish and water ingestion], and 0.100 mg/L [fish consumption only]).

CHLORIDE – ***Plot 4A Through Plot 4D***

The plots of chloride concentration data generally indicate recently (since 2005) stable chloride concentrations in overburden groundwater and surface water at the Landfill water quality monitoring locations following Landfill closure, with limited fluctuations in concentration within an approximate one order of magnitude range. The detected concentrations of chloride are well below the established SMCL and WQCTS. GZA notes the following potential chloride concentration trends which should continue to be monitored:

- The data for off-site overburden groundwater monitoring well GZ-104 suggest a potential increasing concentration trend for chloride in overburden groundwater near Seep-1. However, GZA notes that the available chloride concentration data for surface water sampling location SW-17 located downstream of Seep-1 suggest a decreasing chloride concentration trend.
- The data for bedrock groundwater monitoring well GZ-2L suggest a potential decreasing concentration trend for chloride in bedrock groundwater at this location.

NITRATE – ***Plot 5A Through Plot 5D***

The plots of nitrate concentration data shows that nitrate is only intermittently detected at sampling locations included on the plots. The detected concentrations of nitrate in the water quality samples are generally less than 1 mg/L, and are well below the NH AGQS (10 mg/L) and WQCTS[9] standard for the protection of human health (10 mg/L [fish and water ingestion]).

[8] WQCTS have only been established for manganese under the fresh chronic aquatic life and fish and water ingestion human health categories.

[9] WQCTS have only been established for nitrate under the fish and water ingestion human health category.

SUMMARY

In general, the concentration of the Landfill-related contaminants in groundwater and surface water are relatively stable. The concentrations of the contaminants fluctuate to varying degrees at each of the monitoring locations. Fluctuations in concentration are likely due to variations in groundwater flow due to seasonal variations in infiltration. Monitoring locations exhibiting potential current increasing or decreasing concentration trends for the primary Landfill-related groundwater contaminants include:

- Arsenic Decreasing Trends – Overburden well RFW-4 and bedrock well GZ-2L;
- Arsenic Increasing Trends – Overburden well GZ-104;
- Iron Decreasing Tends – Overburden well GZ-P-5R;
- Iron Increasing Trend – Overburden seep location GZ-P-9R and overburden well GZ-104;
- Manganese Decreasing Trends – Overburden well GZ-P-5R;
- Manganese Increasing Trend – Overburden wells RFW-3, GZ-1U and GZ-104;
- Chloride Decreasing Trend – Bedrock well GZ-2L; and
- Chloride Increasing Trend – Overburden well GZ-104.

Collectively these trends suggest decreasing concentrations of Landfill-related analytes at overburden monitoring locations RFW-4, and GZ-P-5R, and bedrock groundwater quality monitoring location GZ-2L. Increasing concentration trends were indicated for overburden wells GZ-1U, GZ-104, GZ-P-9R, and RFW-3. As noted in previous reports, the increasing manganese concentration trend for monitoring well GZ-1U suggests that this location may not be representative of background overburden groundwater quality for the Landfill, and should be further evaluated based on the results of future monitoring. The significance of the increasing iron concentration trend for GZ-P-9R should be further evaluated based on the results of future monitoring, as should the apparent increasing arsenic, iron, manganese, and chloride concentrations at overburden monitoring well GZ-104.

DISSOLVED-PHASE CONTAMINANT TRANSPORT

Results of historic water quality monitoring and recent Landfill-related water level measurements and elevation data indicate groundwater flows radially away from the Landfill toward the northwest, north, and northeast. Historic water quality data are consistent with contaminant transport in overburden toward the north with transport locally northwest and northeast. Groundwater surface elevation contours, developed based on water level measurements obtained during December 2013 by CEC (supplemented with water level data collected by CEC during May 2013), are shown on **Figure 2**. Depth-to-water and water surface elevation data collected by CEC and GZA are summarized in **Table 2**.

Calculated groundwater elevations for wells sampled during December 2013 range from about 61.2 feet bgs at GZ-104 to the east of the Landfill near the seep and the Exeter River to 82.6 feet bgs at GZ-3L located south and upgradient of the Landfill. The calculated groundwater elevations are consistent with 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.

Sampling locations RFW-2, GZ-P-2R and GZ-201 are located sidegradient to downgradient of the Landfill, and exhibit relatively limited impacts to groundwater quality. Sampling locations RFW-3, RFW-4, GZ-P-9R, GZ-102, GZ-104, GZ-202A, SW-16 and SW-17 are located downgradient of the Landfill, and generally exhibit relatively greater impacts to groundwater quality. Sampling locations GZ-2L and GZ-3L and well couplet GZ-1U/L were assumed to be located upgradient of the Landfill; however, the increasing manganese concentration trend for well GZ-1U suggests overburden at this location is sidegradient to downgradient of the Landfill.

The results of recent sampling at monitoring well locations GZ-202A, GZ-102, and GZ-104 suggest a continued Landfill source for the groundwater contaminants detected in groundwater and surface water samples collected in the Seep area. The data collected to date suggest the presence of a potential groundwater flow pathway from the eastern side of the Landfill east-northeastward toward the Seep. Refer to **Figure 3** for a hydrogeologic cross-section from the Landfill through the Seep area.

Year 2013 arsenic, iron, and manganese concentration data are summarized on **Figure 2** to illustrate the spatial distribution of these common landfill-related contaminants. The arsenic, iron, and manganese data summarized on **Figure 2** are consistent with a Landfill source for the exceedances of arsenic in downgradient groundwater, but also indicate a background contribution.

CONCLUSIONS/ DISCUSSION

The following summarize our primary findings regarding the Landfill water quality monitoring.

- Groundwater quality data for the current reporting period are generally consistent with the previously described concentration ranges and temporal trends for the water quality parameters monitored in accordance with the Permit for the Landfill;
- Water quality monitoring indicates generally stable to gradually improving water quality with concentrations of arsenic and manganese exceeding NH AGQS or WQCTS in certain areas downgradient of the Landfill to the north and northwest;
- Recent water quality monitoring to the northeast of the Landfill in the general area of the seep indicates possible increasing contaminant concentrations with concentrations of arsenic and manganese exceeding NH AGQS and WQCTS at SW-16 outside the boundary of the GMZ;
- Additional potential Landfill-related contaminants including: barium, chromium, chloride, iron, lead, mercury, nitrate, TKN, and VOCs including 1,4-dioxane were detected in one or more of the water quality samples collected during the reporting period. The concentrations of these parameters were below the NH AGQS or WQCTS during the reporting period.
- The increasing manganese concentration trend for monitoring well GZ-1U indicates that this location is not representative of background overburden groundwater quality for the Landfill.
- Calculated groundwater elevations for wells sampled during December 2013 are consistent with 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.

RECOMMENDATIONS

GZA recommends the following:

- Groundwater and surface water quality monitoring as outlined in the current Permit;
- Monitoring well G-1U should not be considered a background water quality monitoring location and should be replaced by monitoring wells GZ-3L screened in bedrock and former landfill gas monitoring well GMW-11. GMW-11 was abandoned as a landfill gas monitoring location due to the presence of groundwater above the screened portion of the well, and replaced by GMW-11R. Based on the past observations of groundwater in this well, the well should be suitable for use as an overburden groundwater monitoring well (see attached copy of the boring and well installation log for GMW-11).
- The increasing iron concentration trend for GZ-P-9R and overall contaminant increasing trend for GZ-104 should be further evaluated based on the results of future monitoring.
- Future water quality samples collected from bedrock monitoring wells for metals analyses should be analyzed for total metals and should not be filtered.
- The inclusion of all or a portion of Tax Map 98, Lot 7 within the GMZ should be reviewed based on the results of the analysis of samples collected from SW-16 during the April and November 2014 sampling rounds.
- Completion of the on-going supplemental hydrogeologic evaluation to 1) confirm the source of the elevated metals concentrations, and 2) if appropriate, select remedial alternatives. Recommended remaining evaluation tasks include:
  - Collection of historical land use data for the Seep area focused on evaluating the former function of the concrete structure located proximate to the Seep (noted in prior submittals to NHDES). GZA recommends the function and dimensions of the well-like structure located within the concrete structure be determined, a water quality sample be collected from the well-like structure, and the well-like structure decommissioned;
  - Installation of a deep overburden and bedrock groundwater monitoring well couplet proximate to GZ-101 to evaluate the hydraulic gradient and groundwater quality with depth along the approximate axis of the plume and proximate to the Exeter River;
  - Evaluation of the groundwater discharge rate of groundwater within the area downgradient of the Landfill to the Exeter River. The discharge rate and water quality data would be used to evaluate the mass loading rate to the Exeter River; and
  - Review of Landfill design documents to identify potential sources of Landfill-related groundwater contaminants and management strategies.
- Preparation of a report summarizing the results of the supplemental hydrogeologic evaluation activities including a remedial options evaluation. The report should provide confirmation of the source of the elevated metals concentrations. If a Landfill source is confirmed, the report should include recommendations for limiting the impacts of the discharge from the Seep to the Exeter River. This recommendation considers that the Exeter River is a drinking water supply for the Town.

On behalf of the Town, we greatly appreciate your review of this report and trust the information contained herein and attached meet the needs of the NHDES. Should you have any questions, please contact the undersigned at (603) 232-8753.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.

Donald N. Kirkland, P.E.
Project Manager

Jeffrey D. Rowell, P.E.
Associate Principal

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

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Attachments: Limitations
Tables
Figures
Boring Log GMW-11
Plots

cc: Ms. Jennifer R. Perry, Director; Department of Public Works; Town of Exeter

LIMITATIONS

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

Arsenic (mg/L)

NH AGQS = 0.01 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-104	GZ-201	GZ-202A	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-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
POST-CLOSURE	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	-	-

See last page for notes.

TABLE 1
HISTORIC 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 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-201	GZ-202A	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-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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POST-CLOSURE	4/21/1997	-	0.046	0.13	0.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.009	-	0.024	0.008	-	-	-	-	-	-	-	-	-
	7/22/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/11/1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	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	-	-

See last page for notes.

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

Cadmium (mg/L)

NH AGQS = 0.005 mg/L
WQCTS (Water and Fish Ingestion) = 0.00095 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-201	GZ-202A	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-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	-	-

See last page for notes.

TABLE 1
HISTORIC 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 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-201	GZ-202A	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-16	SW-17	Exeter River	MW-6
PRE-CLOSURE	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**
POST-CLOSURE	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	-		-		-	-	-	-	-	-	-	-	-	-
	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	-	-	-	-	-	-	-	-	-
	11/17/2003	-	<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	-	-	-	-	-	-	-	-	-
	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	**0.26**	-	-	-	-	-	-	-	-	-
	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	-	-	-	-	-	-	-	-	-
	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	**0.002**	<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	-
	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	-	**0.002**	<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	-	-

See last page for notes.

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

Chloride (mg/L)

NH AGQS = NE
SMCL = 250 mg/L
WQTS (fresh water Chronic) = 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-201	GZ-202A	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-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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POST-CLOSURE	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	-	-

See last page for notes.

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

1,4-Dioxane (mg/L)

NH AGQS = 3 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-104	GZ-201	GZ-202A	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-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	-	-

See last page for notes.

TABLE 1
HISTORIC 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-104	GZ-201	GZ-202A	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-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	-	-	-	-	0.64	-	-	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	-	-	-	-	1.7	-	-	0.7	-
	4/27/2009	-	0.44	0.07	32	<0.05	-	-	-	-	-	3.2	-	-	-	-	-	<0.05	-	-	3.4	0.39	4.2	2.7	-	-	-	-	0.31	-	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	-	-	-	-	-	0.61	-	26	0.39	-
	4/20/2010	-	1.0	0.31	36	<0.05	-	-	-	-	-	-	-	<0.05	-	-	-	<0.05	-	-	3.2	0.16	3	-	-	-	-	-	0.69	-	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	-	-	-	-	-	0.32	-	2.8	0.30	-
	4/22/2011	-	0.62	0.27	20	<0.05	-	-	-	-	-	-	-	0.07	-	-	-	<0.05	-	-	1.9	<0.05	7	-	-	-	-	-	2.6	-	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	-	-

See last page for notes.

TABLE 1
HISTORIC 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-201	GZ-202A	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-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**	-	-

See last page for notes.

TABLE 1
HISTORIC 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-201	GZ-202A	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-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	-	-

See last page for notes.

TABLE 1
HISTORIC 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-201	GZ-202A	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-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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POST-CLOSURE	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	-	-	<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	-	-

See last page for notes.

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

Manganese (mg/L)

NH AGQS = 0.840 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-201	GZ-202A	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-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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POST-CLOSURE	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		

See last page for notes.

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

pH (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-104	GZ-201	GZ-202A	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-16	SW-17	Exeter River	MW-6
5/27/1992	6.51	6.42	6.53	6.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.58	-	-	-	-	-	-	-	-	-	-	-	-
11/12/1992	7.00	6.50	6.30	6.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.70	-	-	-	-	-	-	-	-
4/6/1993	6.95	6.41	6.51	6.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.15	-	-	-	-	-	-	-	6.90
4/25/1996	6.34	7.15	6.42	6.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.72	-	-	-	-	-	-	-	6.84
7/25/1996	6.48	6.67	7.05	6.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.58	-	-	-	-	-	-	-	-
4/21/1997	-	6.70	6.70	6.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.10	7.10	-	6.60	-		-	-	-	-	-	-	-	-
7/22/1997	6.42	6.96	6.46	6.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.19	7.08	-	6.72	-		-	-	-	-	-	-	-	-
7/27/1999	6.68	6.52	6.37	6.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.92	7.04	-	7.36	-		-	-	-	-	-	-	-	-
4/25/2001	6.81	6.86	6.60	6.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.44	6.77	-	7.02	-		-	-	-	-	-	-	-	-
7/25/2001	6.40	6.61	6.51	6.43	5.90	-	-	5.80	5.90	5.50	-	-	-	-	-	7.10	7.40	7.10	-	7.08	7.03	-	6.63	-		-	-	-	-	-	-	-	-
8/9/2001	-	-	-	-	6.60	-	-	7.00	7.10	6.10	-	-	-	-	-	7.10	7.40	7.60	-	-	-	-	-	-		-	-	-	-	-	-	-	-
11/28/2001	6.22	6.41	6.40	6.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.69	6.96	-	6.90	-		-	-	-	-	-	-	-	-
4/24/2002	6.94	6.88	6.70	6.73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.10	-		-	-	-	-	-	-	-	-
11/20/2002	6.19	6.29	6.26	6.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.94	-		-	-	-	-	-	-	-	-
4/29/2003	6.37	6.19	6.51	6.57	6.16	-	-	-	-	-	-	-	-	-	-	9.20	6.95	6.78	-	6.37	6.38	-	6.77	-	-	-	-	-	-	-	-	-	-
11/17/2003	-	6.72	6.47	6.66	6.35	-	-	-	-	-	-	-	-	-	-	7.26	6.70	6.80	-	6.59	6.82	-	6.88	-	-	-	-	-	-	-	-	-	-
4/28/2004	-	6.43	6.46	6.90	6.53	-	-	-	-	-	6.80	-	-	-	-	7.46	8.23	7.62	7.69	-	6.76	6.58	6.81	-	-	-	-	-	-	-	-	-	-
11/15/2004	-	6.44	6.52	6.50	6.39	-	-	-	-	-	6.45	-	-	-	-	7.38	7.06	6.86	-	-	6.72	6.56	6.97	-	-	-	-	-	-	-	-	-	-
4/28/2005	-	6.39	6.33	6.81	6.48	-	-	-	-	-	6.77	-	-	-	-	7.44	8.04	7.51	-	-	6.70	6.49	6.74	-	-	-	-	-	-	-	-	-	-
11/8/2005	-	6.45	6.67	6.65	6.42	-	-	-	-	-	6.63	-	-	-	-	7.41	6.86	6.88	-	-	7.08	6.64	7.23	-	-	-	-	-	-	-	-	-	-
4/17/2006	-	6.29	6.60	6.46	6.24	-	-	-	-	-	6.43	-	-	-	-	6.98	7.36	6.77	-	-	6.64	6.41	7.06	7.12	-	-	-	-	-	-	-	-	-
11/20/2006	-	6.10	6.35	6.46	6.23	-	-	-	-	-	6.34	-	-	-	-	7.13	7.32	7.28	-	-	6.46	6.33	7.11	7.62	-	-	-	-	-	-	-	-	-
5/2/2007	-	6.40	6.35	6.54	6.41	-	-	-	-	-	6.50	-	-	-	-	-	6.90	-	-	-	6.76	6.56	6.91	6.95	-	-	-	-	-	-	-	7.09	-
11/14/2007	-	6.29	6.38	6.49	6.35	-	-	-	-	-	6.47	-	-	-	-	7.09	6.87	7.16	-	-	6.61	6.44	6.98	6.90	-	-	-	-	-	-	-	7.04	-
4/25/2008		6.01	5.91	6.05	6.33	-	-	-	-	-	6.64	-	-	-	-	6.65	-	-	-	-	6.37	6.39	6.77	6.65	-	-	-	-	6.83	-	-	6.71	-
11/18/2008	-	5.96	5.97	6.11	6.37	-	-	-	-	-	Dry	-	6.56	-	-	7.02	6.68	-	-	-	-	6.44	6.80	6.77	-	-	-	-	6.88	-	-	6.69	-
4/27/2009	-	6.00	5.89	6.08	6.26	-	-	-	-	-	6.70	-	-	-	-	-	6.61	-	-	-	6.38	6.41	6.73	6.81	-	-	-	-	6.88	-	6.69	6.76	-
11/4/2009	-	5.88	6.42	6.35	6.51	-	-	-	-	-	-	-	6.42	-	-	7.44	6.81	7.17	-	-	6.42	6.14	6.68	-	-	-	-	-	6.83	-	6.72	6.71	-
4/20/2010	-	5.84	6.45	6.31	6.57	-	-	-	-	-	-	-	6.49	-	-	-	6.87	-	-	-	6.40	6.12	6.73	-	-	-	-	-	6.86	-	6.70	6.70	-
11/11/2010	-	5.83	6.51	6.41	6.56	-	-	-	-	-	-	-	6.36	-	-	7.31	6.77	7.13	-	-	6.39	6.08	6.56	-	-	-	-	-	6.81	-	6.77	6.63	-
4/22/2011	-	5.93	6.55	6.39	6.61	-	-	-	-	-	-	-	6.44	-	-	-	6.83	-	-	-	6.38	6.06	6.67	-	-	-	-	-	6.8	-	6.72	6.63	-
11/14/2011	-	5.91	6.58	6.49	6.61	-	-	-	-	-	-	-	6.29	-	-	7.27	6.7	7.06	-	-	6.34	6.11	6.63	-	-	-	-	-	6.78	-	6.68	6.68	-
4/30/2012	-	5.96	6.38	6.41	6.38	-	-	-	-	-	-	-	6.44	-	-	-	6.84	-	-	-	6.49	6.4	6.83	-	-	-	-	-	6.59	-	6.77	6.68	-
11/5/2012	-	6.02	5.66	6.48	6.38	-	-	-	-	-	-	-	6.18	6.23	6.7	7.68	6.84	7.16	-	-	6.51	6.33	6.9	-	-	-	-	-	6.01	-	6.85	5.87	-
5/7/2013	-	-	-	-	-	-	-	-	-	-	-	6.40	6.53	6.29	6.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12/19/2013	-	6.34	6.6	6.81	6.81	-	-	-	-	-	-	6.68	6.97	6.55	6.79	7.91	7.16	7.21	-	-	6.98	-	7.18	-	-	-	-	-	-	7.45	7.48	-	-

See last page for notes.

TABLE 1
HISTORIC 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) = 0.05 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-201	GZ-202A	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-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
POST-CLOSURE	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	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		

See last page for notes.

TABLE 1
HISTORIC 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-201	GZ-202A	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-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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	**0.019**	<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	-	-

See last page for notes.

TABLE 1
HISTORIC 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-104	GZ-201	GZ-202A	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-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	-	-

See last page for notes.

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

VOCs (µg/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-201	GZ-202A	GZ-1L	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/ South Spring)	GZ-P-5R	SW-P-9 (P-9/ North Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	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	-	-	-	-	-	-	-	-	-
POST-CLOSURE	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	-	-

See last page for notes.

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

TKN (µg/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-201	GZ-202A	GZ-1L	GZ-2L	GZ-3L	Giancola Residence	SW-P-2 (P-2/ South Spring)	GZ-P-5R	SW-P-9 (P-9/ North Spring)	SW-1	SW-5	SW-10	SW-11	SW-12	SW-13	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
POST-CLOSURE	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	<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	-	-

See last page for notes.

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

Thallium (µg/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**
POST-CLOSURE	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/20/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/11/2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/22/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/14/2011	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	4/30/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11/5/2012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5/7/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	12/19/2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See last page for notes.

TABLE 1
HISTORIC 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 measurement 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.
6. Shading indicates that the measured level exceeds its NH AGQS, Secondary Maximum Contaminant Level (SMCL), or Water Quality Criteria for Toxic Substances (WQCTS) as defined by the New Hampshire Code of Administrative Rules Env-Wm 1703.21. 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 historic 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.

P:\JOBS\21000s\21270\21270.24\Report\Annual Summary Report 2013\Tables\Table 1 Notes.doc

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	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation
				04/25/01		07/23/01		07/25/01		08/09/01		11/28/01		04/24/02	
GZ-1U	97.1	-	99.68	-	-	22.6	77.1	-	-	22.8	76.9	-	-	-	-
GZ-1L	97.1	45.1	99.44	-	-	20.4	79.1	-	-	20.5	78.9	-	-	-	-
GMW-10	114.2	-	-	-	-	Dry	-	-	-	-	-	-	-	-	-
GZ-2U	113.8	-	116.29	-	-	Dry	<116.3	-	-	Dry	<116.3	-	-	-	-
GZ-2L	114.6	81.6	117.12	-	-	33.9	83.3	-	-	34.2	82.9	-	-	-	-
GMW-11	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	-	-	-	-
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	-	-	-	-
P-3	67.9	-	68.41	-	-	-	-	-	-	2.0	66.4	-	-	-	-
P-4	70.5	-	71.15	-	-	-	-	-	-	2.0	69.2	-	-	-	-
GW-P-5R/P-5	82.3	-	84.52	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-
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
RFW-2	118	-	119.72	41.34	78.38	-	-	43.02	76.7	-	-	44.9	74.8	45.2	74.5
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
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
WS-1	102	-	102.26	-	-	-	-	-	-	12.2	90.0	-	-	-	-
WS-2	93	-	93.57	-	-	-	-	-	-	4.3	89.3	-	-	-	-
SW-17/Seep	915.91	-	61.65	-	-	-	-	-	-	-	-	-	-	-	-
SW-14	-	-	40.47	-	-	-	-	-	-	-	-	-	-	-	-
Bridge	917.07	-	60.55	-	-	-	-	-	-	-	-	-	-	-	-

See last page for notes.

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	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation
				11/20/02		04/29/03		06/17/03		11/17/03		04/28/04		11/15/04	
GZ-1U	97.1	-	99.68	-	-	23.5	76.2	23.2	76.5	23.5	76.2	22.6	77.1	22.3	77.4
GZ-1L	97.1	45.1	99.44	-	-	23.2	76.3	20.8	78.6	21.1	78.3	23.2	76.3	20.9	78.6
GMW-10	114.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-2U	113.8	-	116.29	-	-	dry	<116.3	dry	<116.3	dry	<116.3	-	-	-	-
GZ-2L	114.6	81.6	117.12	-	-	33.6	83.5	33.7	83.4	36.6	80.5	32.8	84.3	34.7	82.4
GMW-11	93.8	-	96.32	-	-	-	-	-	-	-	-	-	-	-	-
GZ-3L	94.8	68.8	97.32	-	-	13.9	83.4	12.2	85.2	13.0	84.4	10.8	86.5	12.4	84.9
GZ-4	142.9	<85.9	142.29	-	-	-	-	-	-	-	-	-	-	-	-
GZ-5	141.1	<84.1	140.73	-	-	-	-	-	-	-	-	-	-	-	-
GZ-6	141.4	<84.4	141.16	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	3.2	68.3	-	-	3.7	68.3	3.6	65.6	3.6	65.6
P-3	67.9	-	68.41	-	-	-	-	-	-	-	-	-	-	-	-
P-4	70.5	-	71.15	-	-	-	-	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
P-6	74.8	-	76.01	-	-	-	-	-	-	-	-	-	-	-	-
P-7	-	-	84.52	-	-	-	-	-	-	-	-	-	-	-	-
P-8	69.7	-	70.25	-	-	-	-	-	-	-	-	-	-	-	-
P-9 / P-9R	68	-	68.35	-	-	2.7	68.0	-	-	3.2	68.0	3.0	65.4	3.0	65.3
RFW-1	85.6	34.6	88.11	8.0	80.2	5.7	82.4	5.8	82.3	destroyed	-	-	-	-	-
RFW-2	118	-	119.72	45.7	74.0	43.5	76.2	43.6	76.1	43.8	75.9	42.3	77.4	43.5	76.2
RFW-3	140.6	-	143.48	76.2	67.3	74.3	69.2	-	-	74.6	68.9	73.6	69.9	73.9	69.6
RFW-4	116.9	46.9	118.71	48.5	70.3	46.4	72.3	-	-	47.0	71.8	45.8	73.0	46.5	72.2
WS-1	102	-	102.26	-	-	-	-	12.4	89.8	-	-	-	-	-	-
WS-2	93	-	93.57	-	-	-	-	destroyed	-	-	-	-	-	-	-
SW-17/Seep	915.91	-	61.65	-	-	-	-	-	-	-	-	-	-	-	-
SW-14	-	-	40.47	-	-	-	-	-	-	-	-	-	-	-	-
Bridge	917.07	-	60.55	-	-	-	-	-	-	-	-	-	-	-	-

See last page for notes.

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	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation
				04/28/05		11/08/05		04/17/06		11/20/06		05/20/07		11/12/07	
GZ-1U	97.1	-	99.68	21.3	78.4	21.9	77.8	21.4	78.3	19.9	79.8	19.7	80.0	22.7	77.0
GZ-1L	97.1	45.1	99.44	18.5	81.0	18.0	81.4	18.6	80.9	16.8	82.6	16.4	83.0	27.0	72.5
GMW-10	114.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-2U	113.8	-	116.29	-	-	-	-	30.9	85.4	28.6	87.7	28.1	88.2	-	-
GZ-2L	114.6	81.6	117.12	32.0	85.1	31.7	85.4	32.5	84.7	31.5	85.6	30.7	86.5	35.2	81.9
GMW-11	93.8	-	96.32	-	-	-	-	-	-	-	-	-	-	-	-
GZ-3L	94.8	68.8	97.32	8.8	88.5	8.7	88.6	9.2	88.1	7.5	89.9	7.3	90.1	12.1	85.2
GZ-4	142.9	<85.9	142.29	-	-	-	-	-	-	-	-	-	-	-	-
GZ-5	141.1	<84.1	140.73	-	-	-	-	-	-	-	-	-	-	-	-
GZ-6	141.4	<84.4	141.16	-	-	-	-	-	-	-	-	-	-	-	-
GZ-101	69.4	-	72.11	-	-	-	-	-	-	-	-	-	-	11.0	61.1
GZ-102	77.0	-	80	-	-	-	-	-	-	-	-	-	-	16.5	63.5
GZ-103	78.3	-	81.39	-	-	-	-	-	-	-	-	-	-	17.8	63.6
GZ-104	72.4	-	75.02	-	-	-	-	-	-	-	-	-	-	12.7	62.3
GZ-105	65.4	-	67.89	-	-	-	-	-	-	-	-	-	-	11.1	56.8
GZ-106	73.5	-	76.13	-	-	-	-	-	-	-	-	-	-	12.3	63.9
GZ-107	108.7	-	103.66	-	-	-	-	-	-	-	-	-	-	37.1	66.6
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	3.4	65.8	3.6	65.6	3.8	65.4	3.5	65.7	3.6	65.5	4.0	65.2
P-3	67.9	-	68.41	-	-	-	-	-	-	-	-	-	-	-	-
P-4	70.5	-	71.15	-	-	-	-	-	-	-	-	-	-	-	-
GW-P-5R/P-5	82.3	-	84.52	6.7	77.8	5.1	79.4	7.1	77.5	5.3	79.2	5.4	79.2	9.3	75.2
P-6	74.8	-	76.01	-	-	-	-	-	-	-	-	-	-	-	-
P-7	-	-	84.52	-	-	-	-	-	-	-	-	-	-	-	-
P-8	69.7	-	70.25	-	-	-	-	-	-	-	-	-	-	-	-
P-9 / P-9R	68	-	68.35	2.9	65.4	3.2	65.2	3.0	65.3	3.3	65.1	3.3	65.1	3.4	64.9
RFW-1	85.6	34.6	88.11	-	-	-	-	-	-	-	-	-	-	-	-
RFW-2	118	-	119.72	41.2	78.5	40.2	79.5	41.5	78.2	39.3	80.4	39.4	80.3	43.3	76.4
RFW-3	140.6	-	143.48	72.0	71.5	72.0	71.5	71.6	71.9	70.8	72.7	70.5	73.0	73.9	69.6
RFW-4	116.9	46.9	118.71	44.5	74.2	44.5	74.2	44.7	74.0	43.9	74.9	43.4	75.3	46.8	71.9
WS-1	102	-	102.26	-	-	-	-	-	-	-	-	-	-	-	-
WS-2	93	-	93.57	-	-	-	-	-	-	-	-	-	-	-	-
SW-17/Seep	915.91	-	61.65	-	-	-	-	-	-	-	-	-	-	3.8	57.9
SW-14	-	-	40.47	-	-	-	-	-	-	-	-	-	-	2.9	37.6
Bridge	917.07	-	60.55	-	-	-	-	-	-	-	-	-	-	13.14	47.4

See last page for notes.

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	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation
				04/25/08		11/18/08		04/27/09		11/04/09		04/20/10		11/11/10	
GZ-1U	97.1	-	99.68	21.2	78.5	21.9	77.8	20.80	78.9	22.15	77.5	17.42	82.3	22.18	77.5
GZ-1L	97.1	45.1	99.44	-	-	19.3	80.2	-	-	19.55	79.9	-	-	19.78	79.7
GMW-10	114.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-2U	113.8	-	116.29	-	-	-	-	-	-	-	-	-	-	-	-
GZ-2L	114.6	81.6	117.12	32.2	84.9	33.2	83.9	31.76	85.4	33.68	83.4	29.2	87.9	34.31	82.8
GMW-11	93.8	-	96.32	-	-	-	-	-	-	-	-	-	-	-	-
GZ-3L	94.8	68.8	97.32	-	-	-	-	-	-	10.71	86.6	-	-	11.2	86.1
GZ-4	142.9	<85.9	142.29	-	-	-	-	-	-	-	-	-	-	-	-
GZ-5	141.1	<84.1	140.73	-	-	-	-	-	-	-	-	-	-	-	-
GZ-6	141.4	<84.4	141.16	-	-	-	-	-	-	-	-	-	-	-	-
GZ-101	69.4	-	72.11	-	-	-	-	-	-	-	-	-	-	-	-
GZ-102	77.0	-	80	-	-	-	-	-	-	-	-	-	-	-	-
GZ-103	78.3	-	81.39	-	-	-	-	-	-	-	-	-	-	-	-
GZ-104	72.4	-	75.02	-	-	12.3	62.7	-	-	12.40	62.6	8.94	66.1	12.40	62.6
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	3.5	65.6	3.5	65.7	3.51	65.7	3.46	65.7	3.61	65.6	3.41	65.8
P-3	67.9	-	68.41	-	-	-	-	-	-	-	-	-	-	-	-
P-4	70.5	-	71.15	-	-	-	-	-	-	-	-	-	-	-	-
GW-P-5R/P-5	82.3	-	84.52	7.0	77.5	7.7	76.9	6.47	78.1	7.93	76.6	4.08	80.4	8.22	76.3
P-6	74.8	-	76.01	-	-	-	-	-	-	-	-	-	-	-	-
P-7	-	-	84.52	-	-	-	-	-	-	-	-	-	-	-	-
P-8	69.7	-	70.25	-	-	-	-	-	-	-	-	-	-	-	-
P-9 / P-9R	68	-	68.35	2.8	65.6	2.9	65.5	2.90	65.5	2.81	65.5	2.76	65.6	2.86	65.5
RFW-1	85.6	34.6	88.11	-	-	-	-	-	-	-	-	-	-	-	-
RFW-2	118	-	119.72	41.4	78.3	41.9	77.8	40.67	79.1	42.16	77.6	37.81	81.9	42.37	77.4
RFW-3	140.6	-	143.48	71.8	71.7	71.7	71.8	71.87	71.6	72.75	70.7	71.68	71.8	73.66	69.8
RFW-4	116.9	46.9	118.71	44.5	74.2	45.4	73.3	44.19	74.5	45.68	73.0	42.04	76.7	45.74	73.0
WS-1	102	-	102.26	-	-	-	-	-	-	-	-	-	-	-	-
WS-2	93	-	93.57	-	-	-	-	-	-	-	-	-	-	-	-
SW-17/Seep	915.91	-	61.65	-	-	-	-	-	-	-	-	-	-	-	-
SW-14	-	-	40.47	-	-	-	-	-	-	-	-	-	-	-	-
Bridge	917.07	-	60.55	-	-	-	-	-	-	-	-	-	-	-	-

See last page for notes.

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	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation	Depth-to-Water	Groundwater Surface Elevation
				04/22/11		11/14/11		04/30/12		11/05/12		05/07/13		12/19/13	
GZ-1U	97.1	-	99.68	21.97	77.7	22.17	77.5	22.87	76.8	24.20	75.5	-	-	24.66	75.0
GZ-1L	97.1	45.1	99.44	-	-	19.63	79.8	-	-	26.40	73.0	-	-	22.44	77.0
GMW-10	114.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GZ-2U	113.8	-	116.29	-	-	-	-	-	-	-	-	-	-	-	-
GZ-2L	114.6	81.6	117.12	32.54	84.6	33.40	83.7	33.92	83.2	36.85	80.3	-	-	37.32	79.8
GMW-11	93.8	-	96.32	-	-	-	-	-	-	-	-	-	-	-	-
GZ-3L	94.8	68.8	97.32	-	-	10.72	86.6	-	-	13.96	83.4	-	-	14.74	82.6
GZ-4	142.9	<85.9	142.29	-	-	-	-	-	-	-	-	-	-	-	-
GZ-5	141.1	<84.1	140.73	-	-	-	-	-	-	-	-	-	-	-	-
GZ-6	141.4	<84.4	141.16	-	-	-	-	-	-	-	-	-	-	-	-
GZ-101	69.4	-	72.11	-	-	-	-	-	-	-	-	11.50	60.6	-	-
GZ-102	77.0	-	80	-	-	-	-	-	-	-	-	17.05	63.0	17.85	62.2
GZ-103	78.3	-	81.39	-	-	-	-	-	-	-	-	18.20	63.2	-	-
GZ-104	72.4	-	75.02	8.94	66.1	12.72	62.3	12.44	62.6	13.77	61.3	13.50	61.5	13.87	61.2
GZ-105	65.4	-	67.89	-	-	-	-	-	-	-	-	11.48	56.4	-	-
GZ-106	73.5	-	76.13	-	-	-	-	-	-	-	-	14.15	62.0	-	-
GZ-107	108.7	-	103.66	-	-	-	-	-	-	-	-	38.21	65.5	-	-
GZ-201	123.3		122.85	-	-	-	-	-	-	51.68	71.2	51.12	71.7	51.94	70.9
GZ-202A	121.1		123.99	-	-	-	-	-	-	52.48	71.5	51.58	72.4	52.38	71.6
P-1	64.5	-	67.17	-	-	-	-	-	-	-	-	-	-	-	-
P-2 / P-2R	68.3	-	69.18	3.55	65.6	3.48	65.7	3.50	65.7	3.47	65.7	-	-	3.55	65.6
P-3	67.9	-	68.41	-	-	-	-	-	-	-	-	-	-	-	-
P-4	70.5	-	71.15	-	-	-	-	-	-	-	-	-	-	-	-
GW-P-5R/P-5	82.3	-	84.52	7.46	77.1	7.96	76.6	8.68	75.8	9.98	74.5	-	-	-	-
P-6	74.8	-	76.01	-	-	-	-	-	-	-	-	-	-	-	-
P-7	-	-	84.52	-	-	-	-	-	-	-	-	-	-	-	-
P-8	69.7	-	70.25	-	-	-	-	-	-	-	-	-	-	-	-
P-9 / P-9R	68	-	68.35	2.77	65.6	2.74	65.6	2.78	65.6	2.92	65.4	-	-	2.8	65.6
RFW-1	85.6	34.6	88.11	-	-	-	-	-	-	-	-	-	-	-	-
RFW-2	118	-	119.72	41.82	77.9	42.06	77.7	43.10	76.6	44.48	75.2	-	-	45.11	74.6
RFW-3	140.6	-	143.48	73.09	70.4	73.97	69.5	73.31	70.2	74.9	68.6	-	-	75.90	67.6
RFW-4	116.9	46.9	118.71	45.35	73.4	45.68	73.0	46.03	72.7	47.4	71.3	-	-	47.71	71.0
WS-1	102	-	102.26	-	-	-	-	-	-	-	-	-	-	-	-
WS-2	93	-	93.57	-	-	-	-	-	-	-	-	-	-	-	-
SW-17/Seep	915.91	-	61.65	-	-	-	-	-	-	-	-	-	-	-	-
SW-14	-	-	40.47	-	-	-	-	-	-	-	-	-	-	-	-
Bridge	917.07	-	60.55	-	-	-	-	-	-	-	-	-	-	-	-

See last page for notes.

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

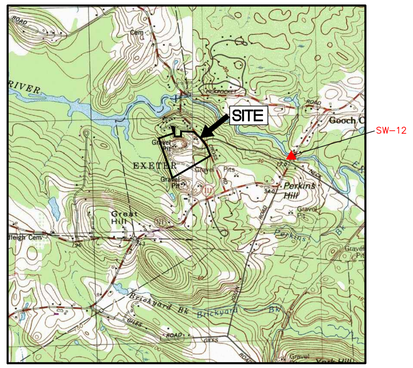
NOTES:
1. Groundwater elevation data were collected by GZA GeoEnvironmental, Inc. (GZA) on 7/23/01 and 8/9/01, and provided by the Town of Exeter for 4/25/01, 7/25/01, and 11/28/01 through the present.
2. Reference elevation is the top of PVC riser or top of well point casing.
3. Elevations are reported in feet above the National Geodetic Vertical Datum.
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.

TABLE 3
SUPPLEMENTAL WATER QUALITY DATA SUMMARY
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081

Monitoring Wells	NH AGQS	GZ-201		GZ-202A		GZ-101		GZ-102		GZ-103		GZ-104												GZ-105		GZ-107	
Sampling Date		11/5/12	5/7/13	11/5/12	5/7/13	11/14/07	5/7/13	11/14/07	5/7/13	11/14/07	5/7/13	11/14/07	4/25/2008	11/18/2008	4/27/2009	11/4/2009	4/20/2010	11/11/2010	4/22/2011	11/14/2011	4/30/2012	11/5/2012	5/7/13	11/14/07	5/7/13	11/14/07	5/7/13
Total VOCs (µg/L)	NE	BDL	BDL	BDL	**5**	-	BDL	-	BDL	-	BDL	-	-	**2.5**	-	BDL	-	BDL	-	BDL	BDL	BDL	BDL	-	BDL	-	BDL
1,4-Dioxane (µg/L)	3	<0.25	<0.25	2.8	**2.4**	-	**1.1**	-	**0.70**	-	<0.25	-	-	-	-	<1	-	**1**	**0.95**	**1.6**	**0.83**	**1.7**	**1.2**	-	<0.25	-	<0.25
Metals (mg/L)																											
Arsenic	0.01	<0.001	**0.001**	**0.41**	**0.49**	**0.006**	**0.002**	**0.002**	**0.001**	<0.001	<0.001	**0.087**	-	**0.008**	-	**0.009**	<0.001	**0.003**	**0.002**	**0.012**	**0.075**	**0.020**	**0.14**	< 0.001	<0.001	<0.001	<0.001
Barium	2	**0.075**	**0.043**	**0.080**	**0.093**	**0.091**	**0.039**	**0.031**	**0.030**	**0.049**	**0.008**	**0.052**	-	**0.014**	-	**0.019**	-	**0.025**	-	**0.021**	**0.035**	**0.034**	**0.039**	**0.017**	**0.026**	**0.021**	**0.035**
Cadmium	0.005	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	-	<0.005	-	<0.001	-	<0.001	-	<0.001	<0.001	<0.001	< 0.001	-	< 0.001	-	< 0.001
Chromium	0.10	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-	**0.008**	-	< 0.001	-	-	<0.002	-	<0.001	-	<0.001	-	<0.001	<0.001	<0.001	< 0.001	-	< 0.001	-	< 0.001
Iron	0.30 *	<0.05	**0.09**	**46**	**58**	**0.14**	< 0.05	< 0.05	**0.55**	< 0.05	< 0.05	**1.7**	-	**0.84**	-	**0.68**	<0.05	<0.05	**0.07**	**2.6**	**5.9**	**6.3**	**14**	< 0.05	< 0.05	< 0.05	< 0.05
Lead	0.015	<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	< 0.001	-	< 0.001	-	< 0.001
Manganese	0.84	**1.2**	**0.13**	**2.8**	**3.5**	**2.7**	**0.30**	**2.6**	**5.9**	**0.21**	**0.015**	**4.0**	-	**0.27**	-	**0.94**	**0.037**	**0.31**	**0.10**	**1.1**	**1.2**	**3.5**	**3.6**	**0.10**	< 0.005	**0.043**	**0.041**
Mercury	0.002	< 0.0001	< 0.0001	< 0.0001	< 0.0001	-	< 0.0001	-	< 0.0001	-	< 0.0001	-	-	<0.01	-	<0.001	-	<0.0001	-	<0.0001	<0.0001	<0.0001	< 0.0001	-	< 0.0001	-	< 0.0001
Selenium	0.05	< 0.001	< 0.001	< 0.001	< 0.001	-	< 0.001	-	< 0.001	-	< 0.001	-	-	<0.002	-	<0.001	-	<0.001	-	<0.001	<0.0001	<0.001	< 0.001	-	< 0.001	-	< 0.001
Silver	0.10	< 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
Chloride (mg/L)	250 *	**90**	**79**	**48**	**40**	-	**68**	-	**60**	-	**22**	-	-	**46**	-	**41**	**6**	**43**	**19**	**42**	**33**	**53**	**46**	-	**150**	-	**180**
Nitrate-N (mg/L)	10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**10**	**0.9**	<0.5	-	**0.27**	-	**0.7**	<0.5	**0.7**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.1**	**1.2**	**0.8**	**1.7**
Total Kjeldahl Nitrogen (mg/L)	NE	<0.5	<0.5	**3.7**	**1.8**	**0.9**	<0.5	<0.5	**0.8**	<0.5	<0.5	**0.6**	-	**0.91**	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.2**	**0.8**	<0.5	<0.5	<0.5	<0.5
pH		6.23	6.29	6.7	6.65	-	6.48	-	6.4	-	6.74	-	-	6.56	-	6.42	6.49	6.36	6.44	6.29	6.44	6.18	6.53	-	6.14	-	6.39
Specific Conductance		421	449	649	691	-	550	-	559	-	93	-	-	417	-	607	618	592	641	568	509	546	579	-	447	-	573

Notes:
1. NH AGQS indicates New Hampshire Ambient Groundwater Quality Standards as included in Env-Or 603.3.
2. NE indicates no standard established.
3. "*" indicates the parameter does not have an established NH AGQS; therefore, the secondary maximum contaminant level (SMCL) is used.
4. BDL indicates below detection limit.
5. Bold indicates the parameter was detected above the laboratory reporting limit; shading indicates the detected concentration exceeds the NH AGQS or SMCL.
6. "<" indicates the parameter was not detected above the associated laboratory reporting limit.

FIGURES



LOCUS MAP

SCALE: 1" = 2000'±

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 TOWN OF EXETER, 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.
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.

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

NO.	ISSUE/DESCRIPTION	BY	DATE

2013 ANNUAL SUMMARY REPORT
CROSS ROAD LANDFILL
GWP-198401081-E-004
EXETER, NEW HAMPSHIRE

SITE/SITE VICINTY PLAN

PREPARED BY:

GZA GeoEnvironmental, Inc.
Engineers and Scientists
380 HARVEY ROAD
MANCHESTER, NEW HAMPSHIRE 03103
(603) 623-3600

PREPARED FOR:

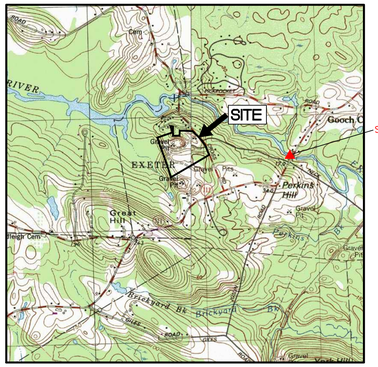
PROJ MGR: JMW	REVIEWED BY: SRL	CHECKED BY: JMW	FIGURE
DESIGNED BY: JMW	DRAWN BY: MR	SCALE: AS SHOWN	1
DATE: FEBRUARY 2014	PROJECT NO. 04.0021270.23	REVISION NO.	SHEET NO. 1 OF 3

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.

©2011– GZA GeoEnvironmental, Inc. GZA–P:\JOBS\21000s\21270\21270.23\Figures–CAD\2013 Report\Figure 1.dwg [Figure 1] February 13, 2014 – 2:54pm marvin.revere

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 TOWN OF EXETER, 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 DECEMBER 19, 20 AND 23, 2013 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.
8. WATER QUALITY DATA SHOWN HEREON SUMMARIZE THE RESULTS OF WATER QUALITY MONITORING FOR ARSENIC, IRON, AND MANGANESE CONDUCTED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC. DURING MAY AND DECEMBER 2013.



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)
	BOLD PRINT INDICATES EXCEEDANCE OF NH AGQS OR SMCL
(82.6)	INDICATES ESTIMATED GROUNDWATER SURFACE ELEVATION IN FEET BASED ON DEPTH TO GROUNDWATER MEASUREMENTS DURING DECEMBER 2013 (SEE NOTE 4).
75	ESTIMATED GROUNDWATER SURFACE ELEVATION CONTOUR IN FEET BASED ON DEPTH TO GROUNDWATER MEASUREMENTS DURING DECEMBER 2013 (SEE NOTE 4).
	INFERRED DIRECTION OF GROUNDWATER FLOW
	CURRENT GROUNDWATER MANAGEMENT PERMIT REQUIRED SAMPLING LOCATION

N

0 100' 200' 400' 600'

SCALE IN FEET

NO.	ISSUE/DESCRIPTION	BY	DATE

2013 ANNUAL SUMMARY REPORT
CROSS ROAD LANDFILL
GWP-198401081-E-004
EXETER, NEW HAMPSHIRE

WATER QUALITY AND ELEVATION DATA SUMMARY

PREPARED BY:

GZA GeoEnvironmental, Inc.
Engineers and Scientists
380 HARVEY ROAD
MANCHESTER, NEW HAMPSHIRE 03103
(603) 623-3600

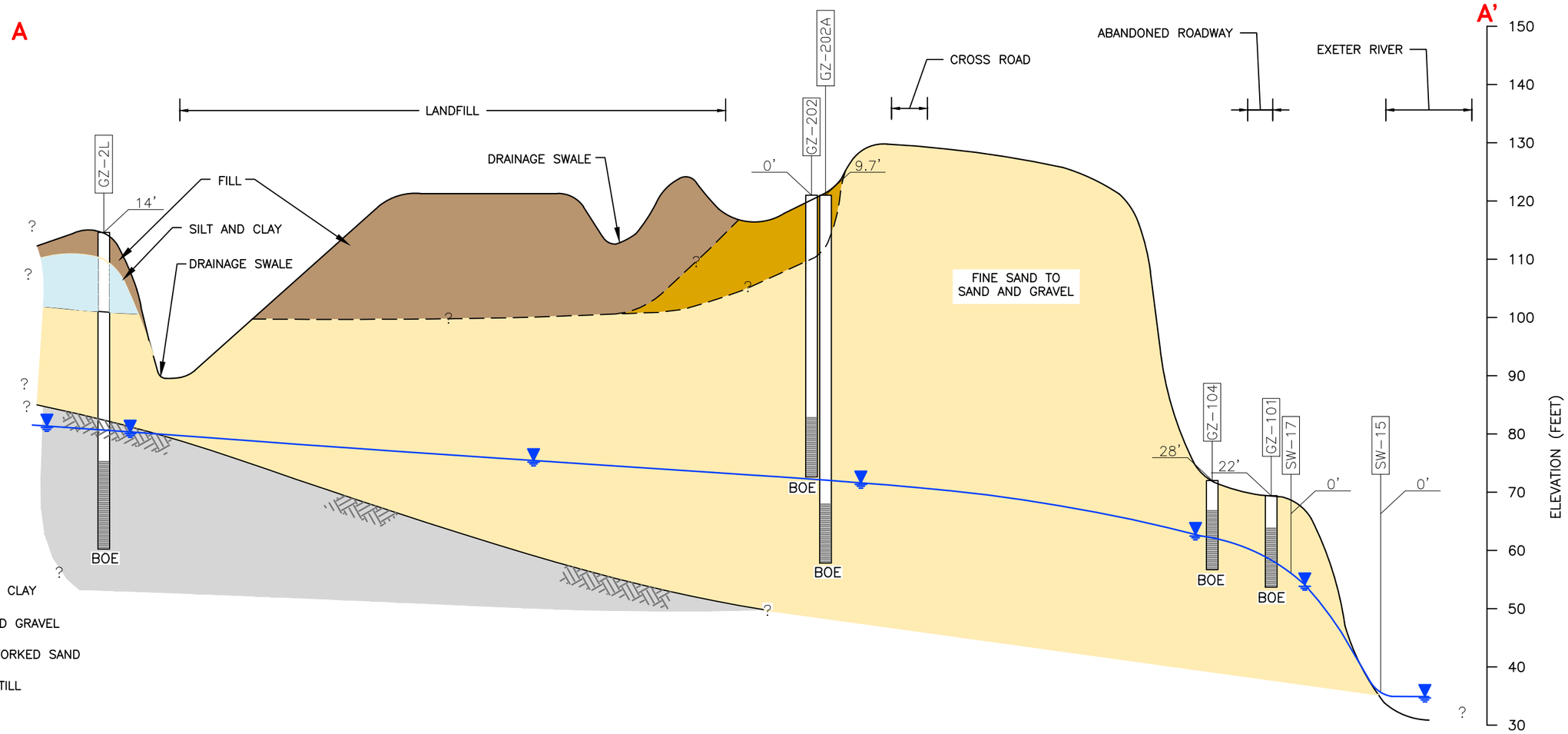
PREPARED FOR:

PROJ MGR: JMW	REVIEWED BY: SRL	CHECKED BY: JMW	FIGURE 2
DESIGNED BY: JMW	DRAWN BY: MR	SCALE: AS SHOWN	
DATE: FEBRUARY 2014	PROJECT NO. 04.0021270.23	REVISION NO.	SHEET NO. 2 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.

©2010- GZA GeoEnvironmental, Inc. GZA-P:\JOBS\21000s\21270\21270.23\Figures-CAD\2013 Report\Figure 2.dwg [Figure 2] February 10, 2014 - 9:27am marvin.revere

CROSS-SECTION A-A'



VERTICAL SCALE: 1" = 20'

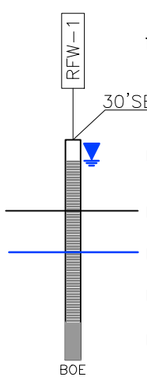
0 10' 20' 40'

0 100' 200' 400'

HORIZONTAL SCALE: 1" = 200'

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
- 30'SE 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.

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NO.	ISSUE/DESCRIPTION	BY	DATE

2013 ANNUAL SUMMARY REPORT
CROSS ROAD LANDFILL
GWP-198401081-E-004
EXETER, NEW HAMPSHIRE

HYDROGEOLOGIC CROSS SECTION

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
380 HARVEY ROAD
MANCHESTER, NEW HAMPSHIRE 03103
(603) 623-3600

PREPARED FOR:

PROJ MGR: JMW	REVIEWED BY: SRL	CHECKED BY: JMW	FIGURE 3
DESIGNED BY: JMW	DRAWN BY: MR	SCALE:	
DATE FEBRUARY 2014	PROJECT NO. 04.0021270.23	REVISION NO.	SHEET NO. 3 OF 3

© 2013 - GZA GeoEnvironmental, Inc. GZA-P:\JOBS\21000s\21270\21270.23\Figures-CAD\2013 Report\Figure 3.dwg [Figure 3] February 10, 2014 - 9:26am manlu.revere

BORING LOG GMW-11

GZA GeoEnvironmental, Inc.
Engineers and Scientists

Cross Road Landfill
Exeter, New Hampshire

Boring No.: GMW-11
Page: 1 of 1
File No.: 21270.2
Check: JMW

Contractor: Capital Environmental Drilling
Foreman: James Hurlbut/Mike
Logged by: Don Kirkland
Date Start/Finish: 7-6-01 / 7-6-01
Boring Location: See Exploration Location Plan
GS Elev.: 93.8 Datum: NGVD

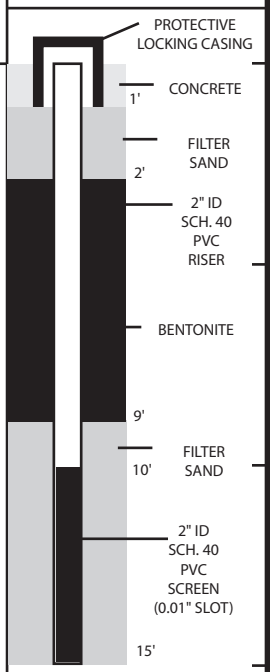
	Auger/ Casing	Sampler
Type:	Casing	SS
I.D.:	4"	2"
Hammer Wt.:	340#	140#
Hammer Fall:	30"	30"
Other:		

GROUNDWATER READINGS

Date	Time	Depth	Casing	Stab

Depth	Casing Blows	Sample No.	Pen/ Rec. (In.)	Depth (Ft.)	Blows (/6")	Field Test Data (ppm)	Sample Description & Classification	Stratum Desc.	Rmks.
							No samples collected. Refer to boring log GZ-3L.		1
5'									
10'									
15'							Bottom of boring at 15 feet.	15'	
20'									
25'									

Equipment Installed



REMARKS

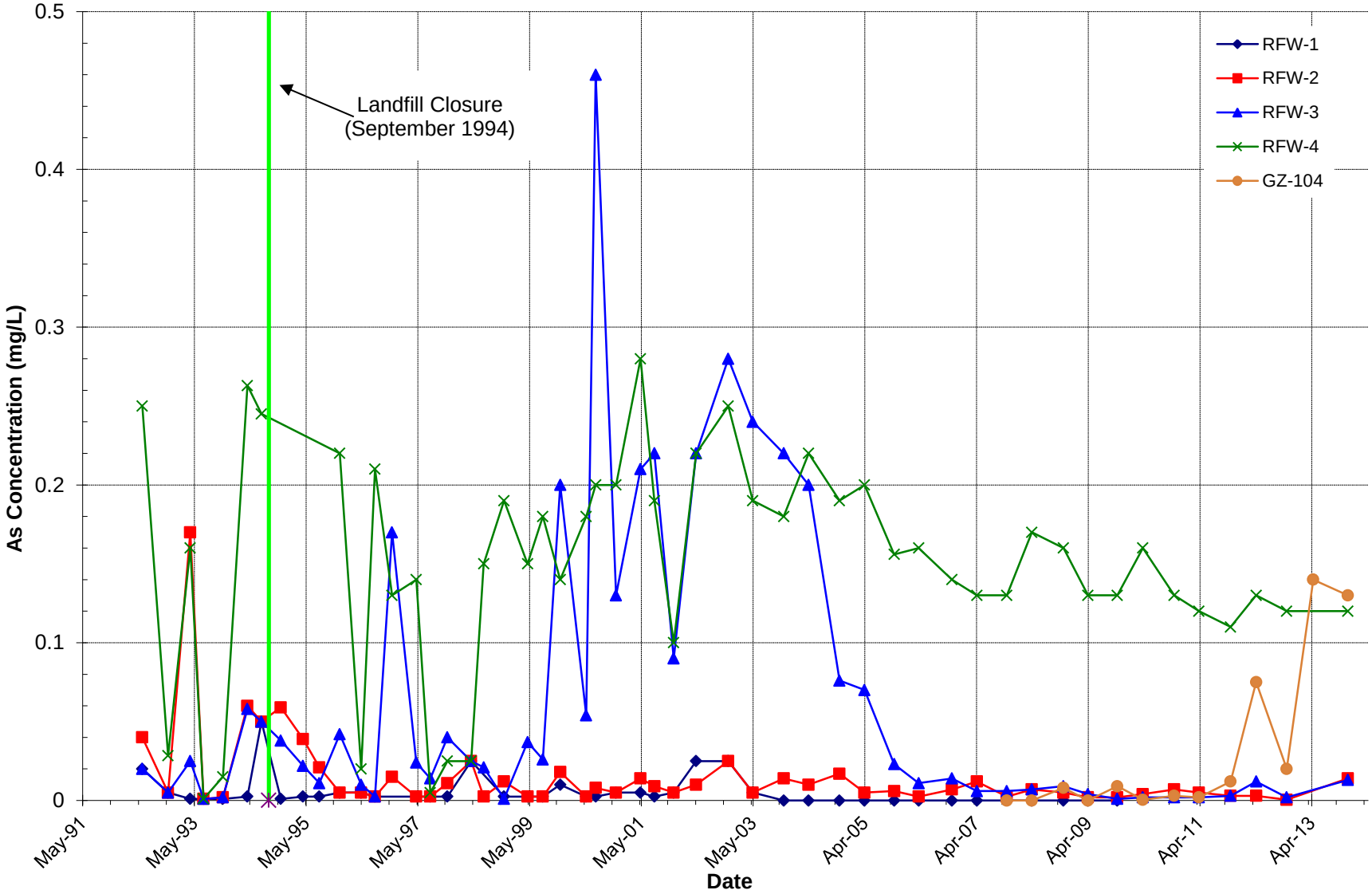
1. Soil samples were screened for total volatile organic compounds (VOCs) using a TEI Model 580B Organic Vapor Meter (OVM) referenced to an isobutylene-in-air standard. Total VOCs detected are reported in parts per million (ppm) in the "Field Test Data" column. "ND" indicates no VOCs detected.

Stratification lines represent approximate boundaries between soil types, transitions may be gradual. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

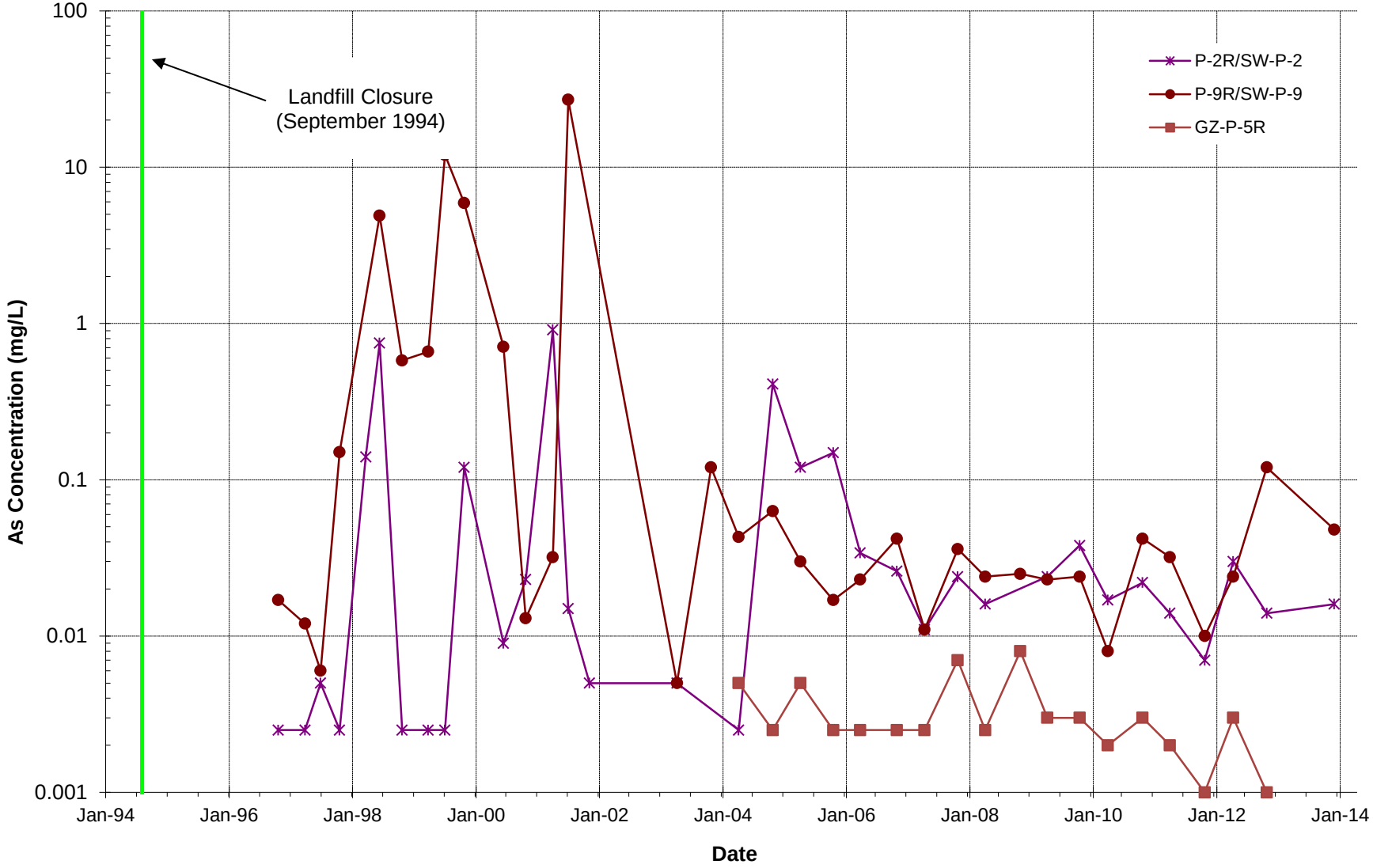
Boring No.: GMW-11

PLOTS

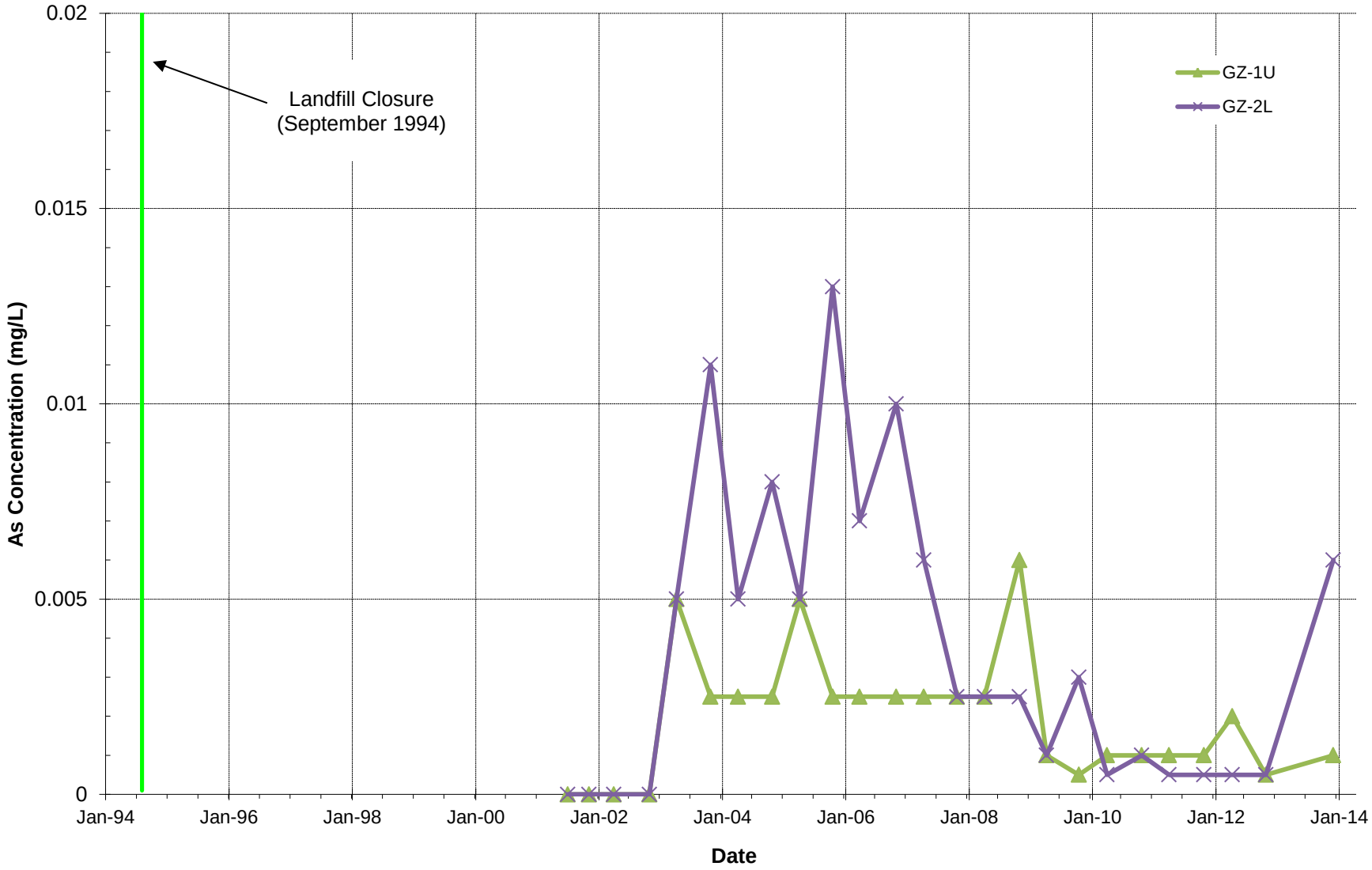
PLOT 1A
SUMMARY OF ARSENIC CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



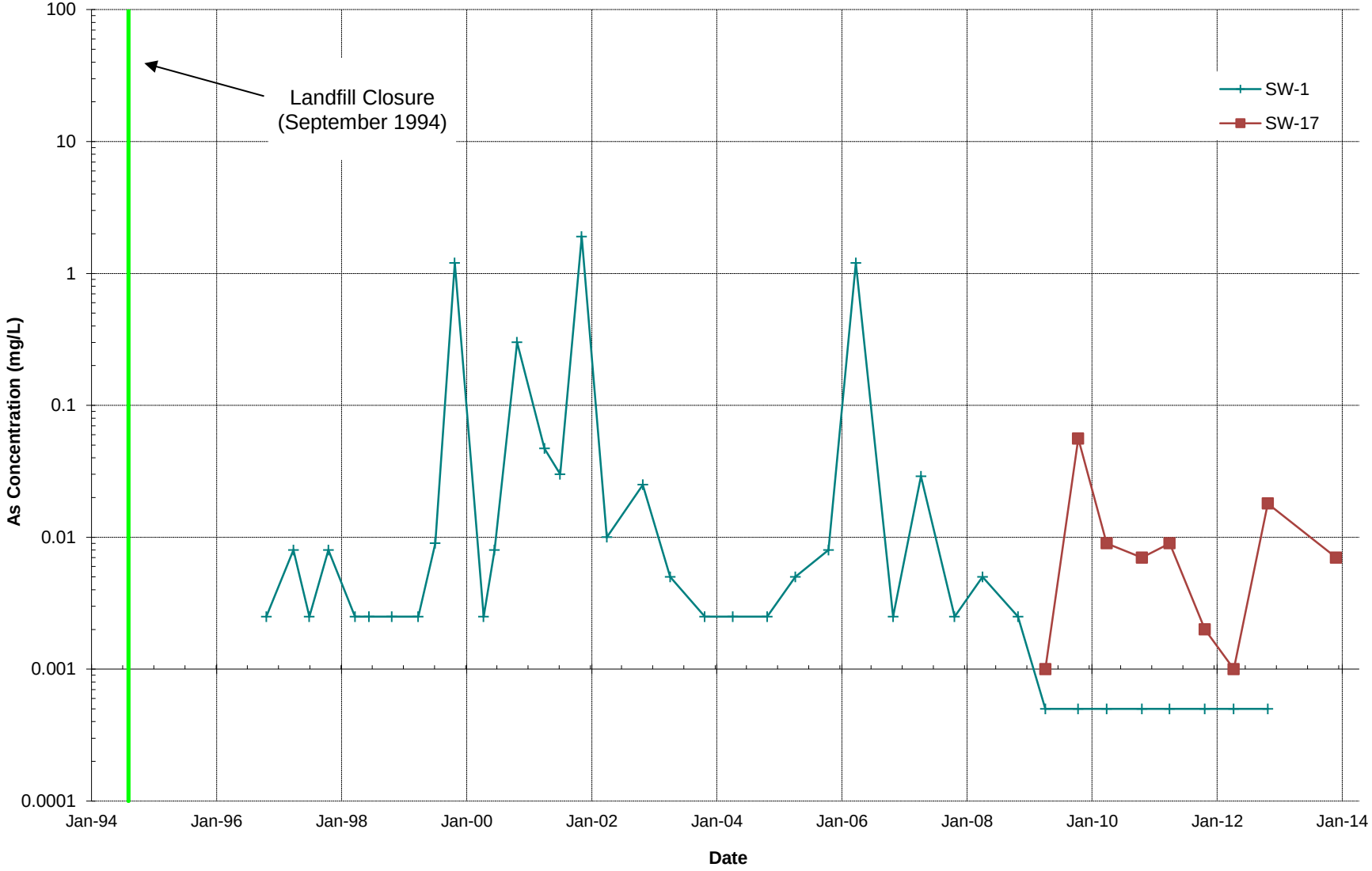
PLOT 1B
SUMMARY OF ARSENIC CONCENTRATION DATA
Surface Water Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



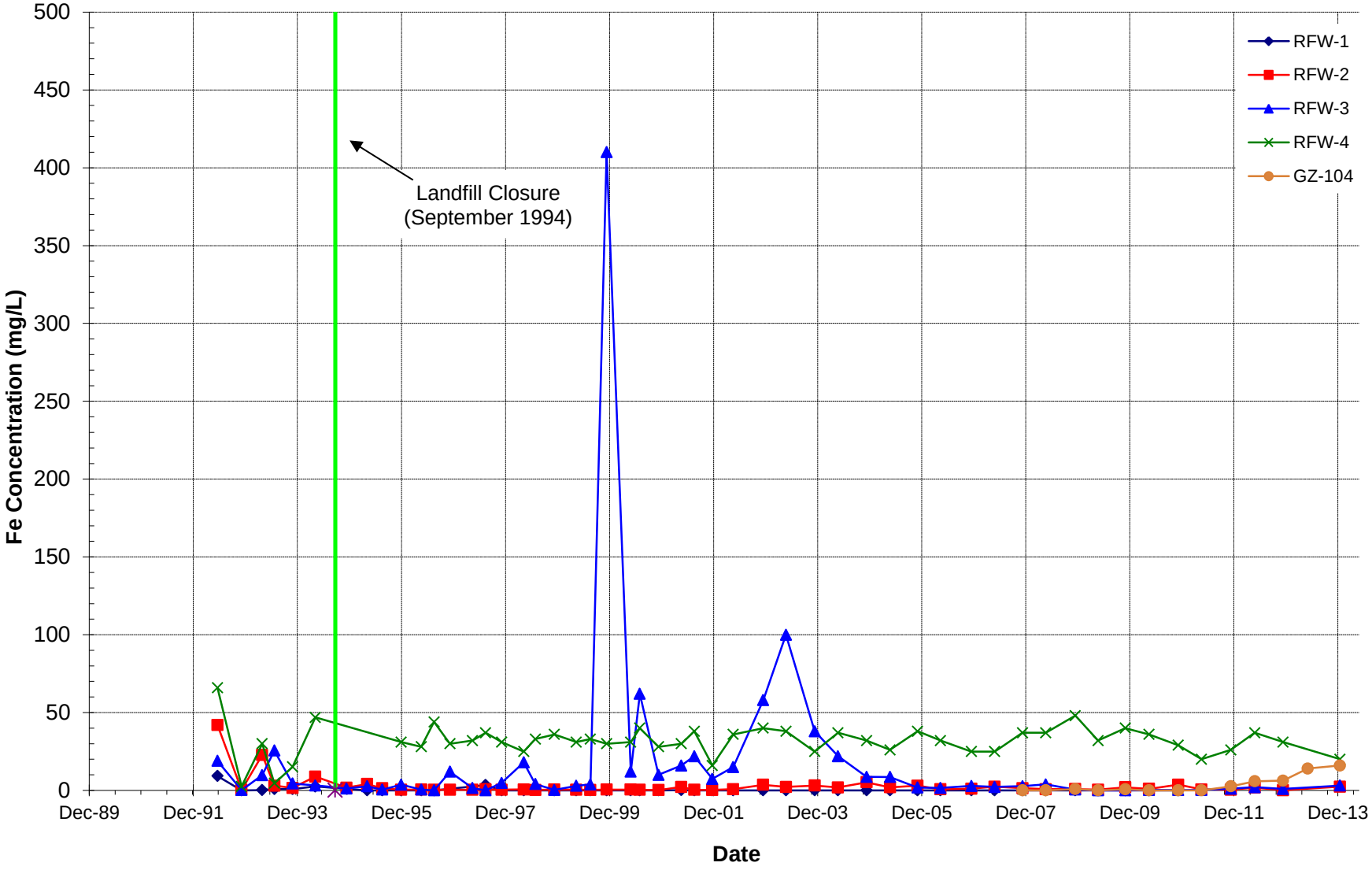
PLOT 1C
SUMMARY OF ARSENIC CONCENTRATION DATA
Surface Water Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



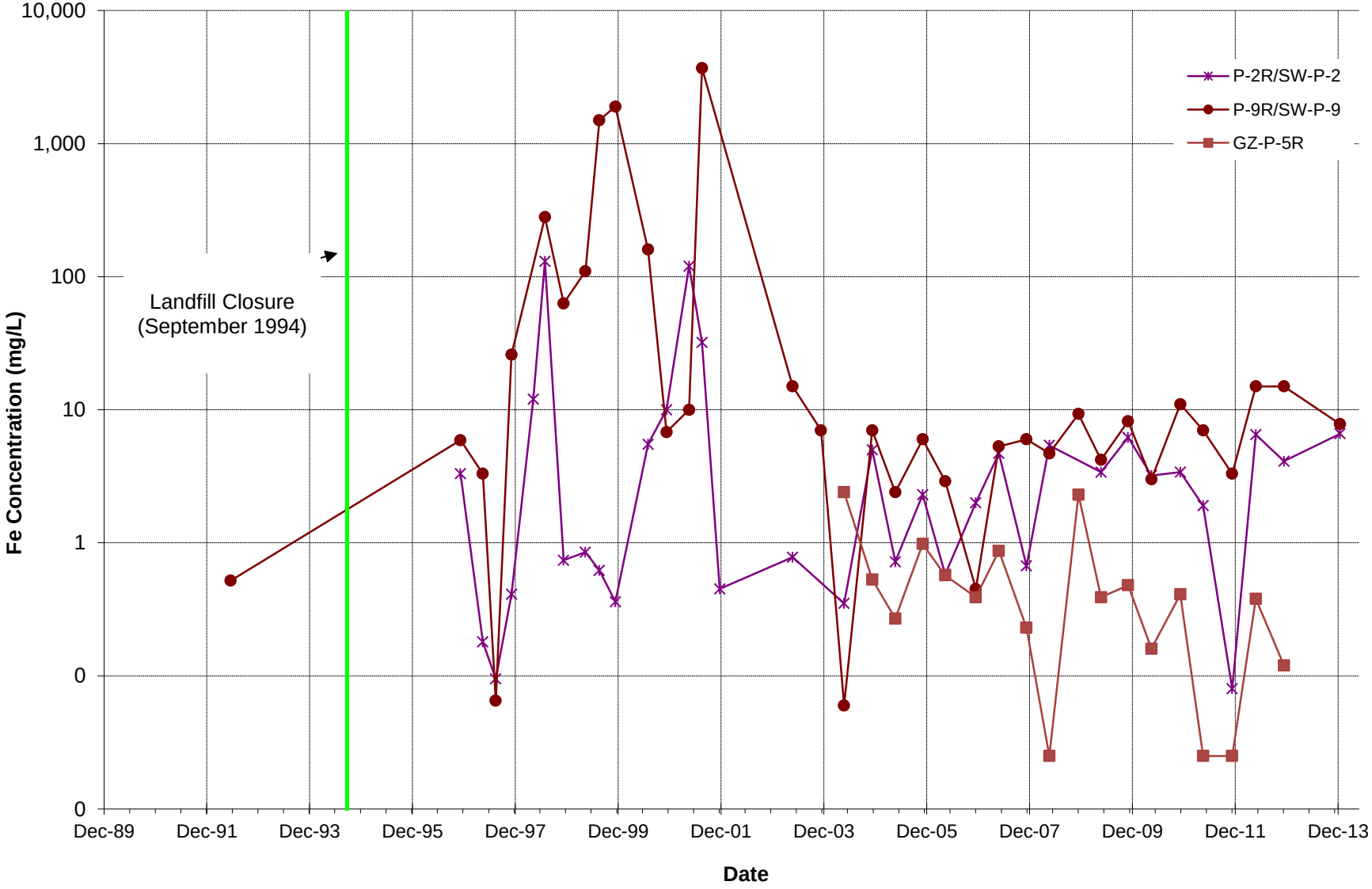
PLOT 1D
SUMMARY OF ARSENIC CONCENTRATION DATA
Surface Water Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



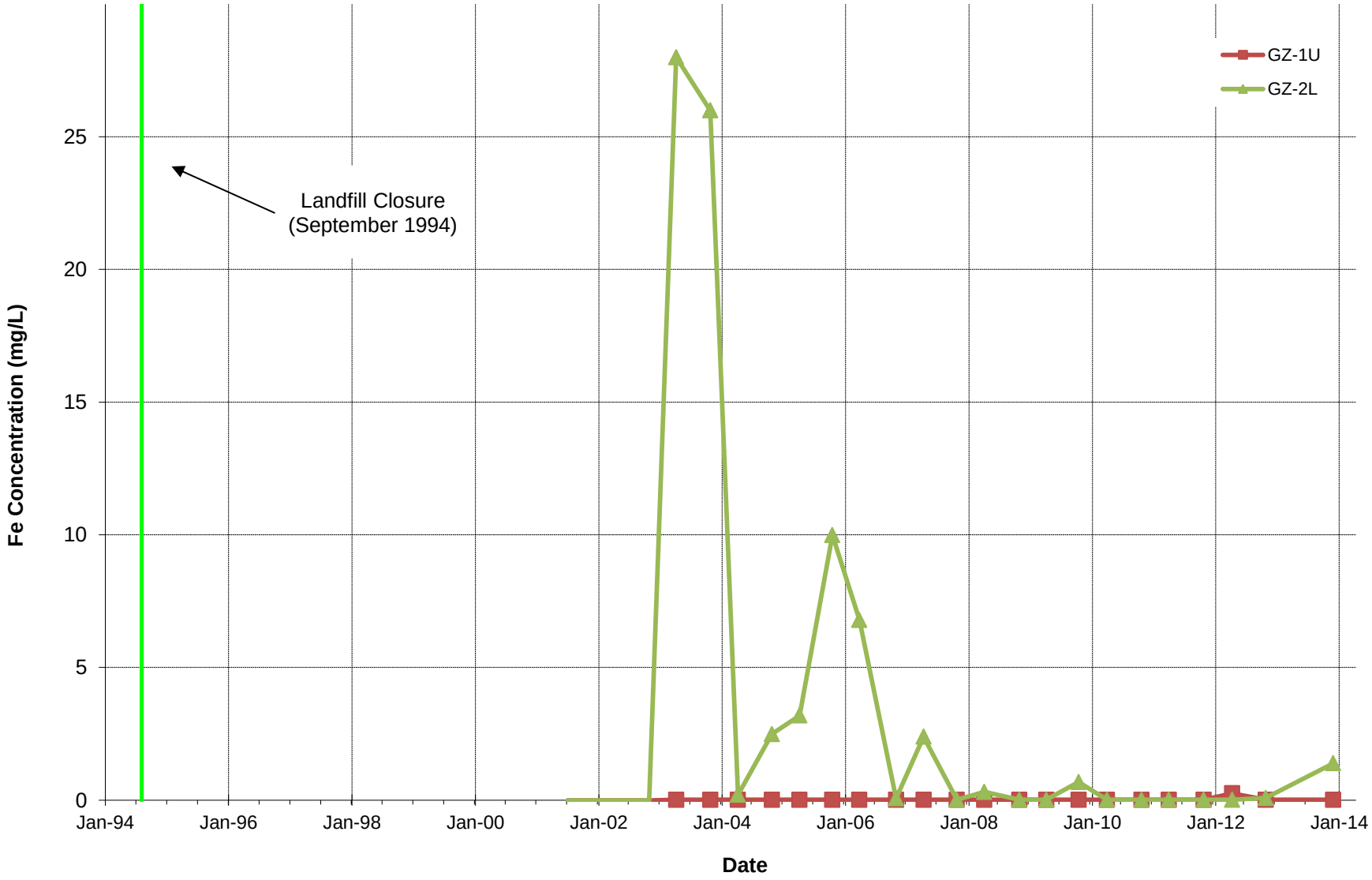
PLOT 2A
SUMMARY OF IRON CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



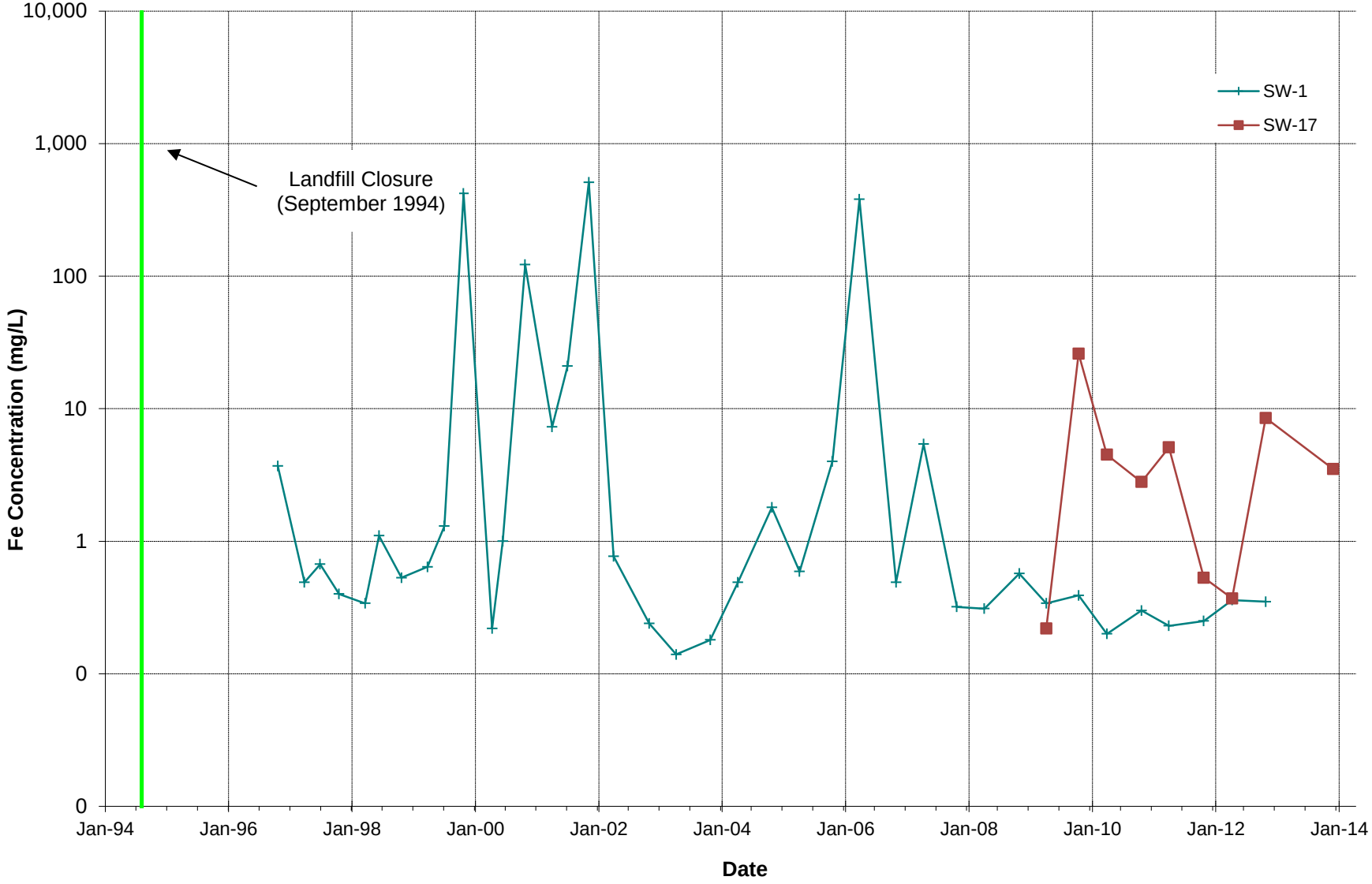
PLOT 2B
SUMMARY OF IRON CONCENTRATION DATA
Surface Water Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



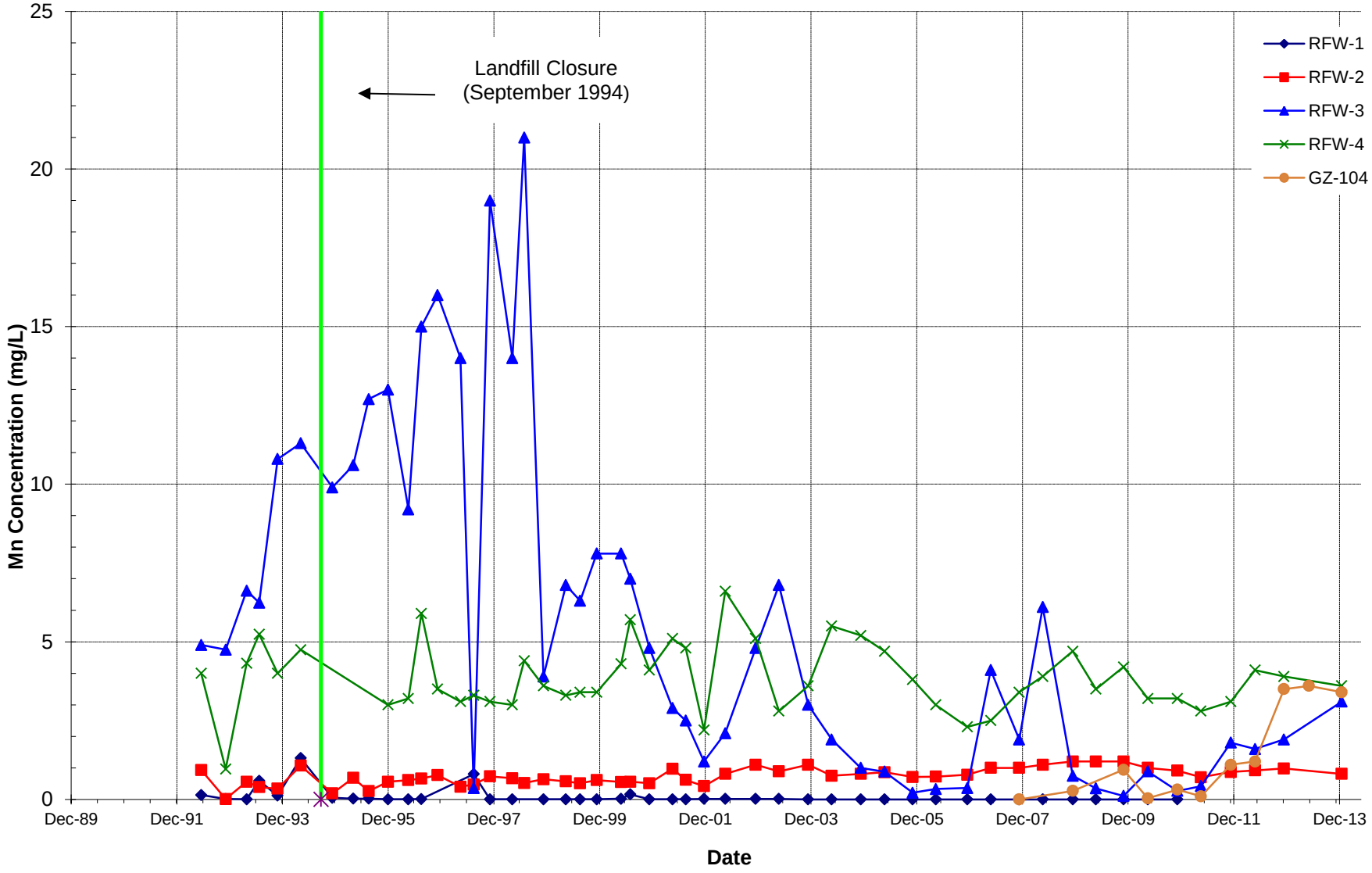
PLOT 2C
SUMMARY OF IRON CONCENTRATION DATA
Surface Water Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



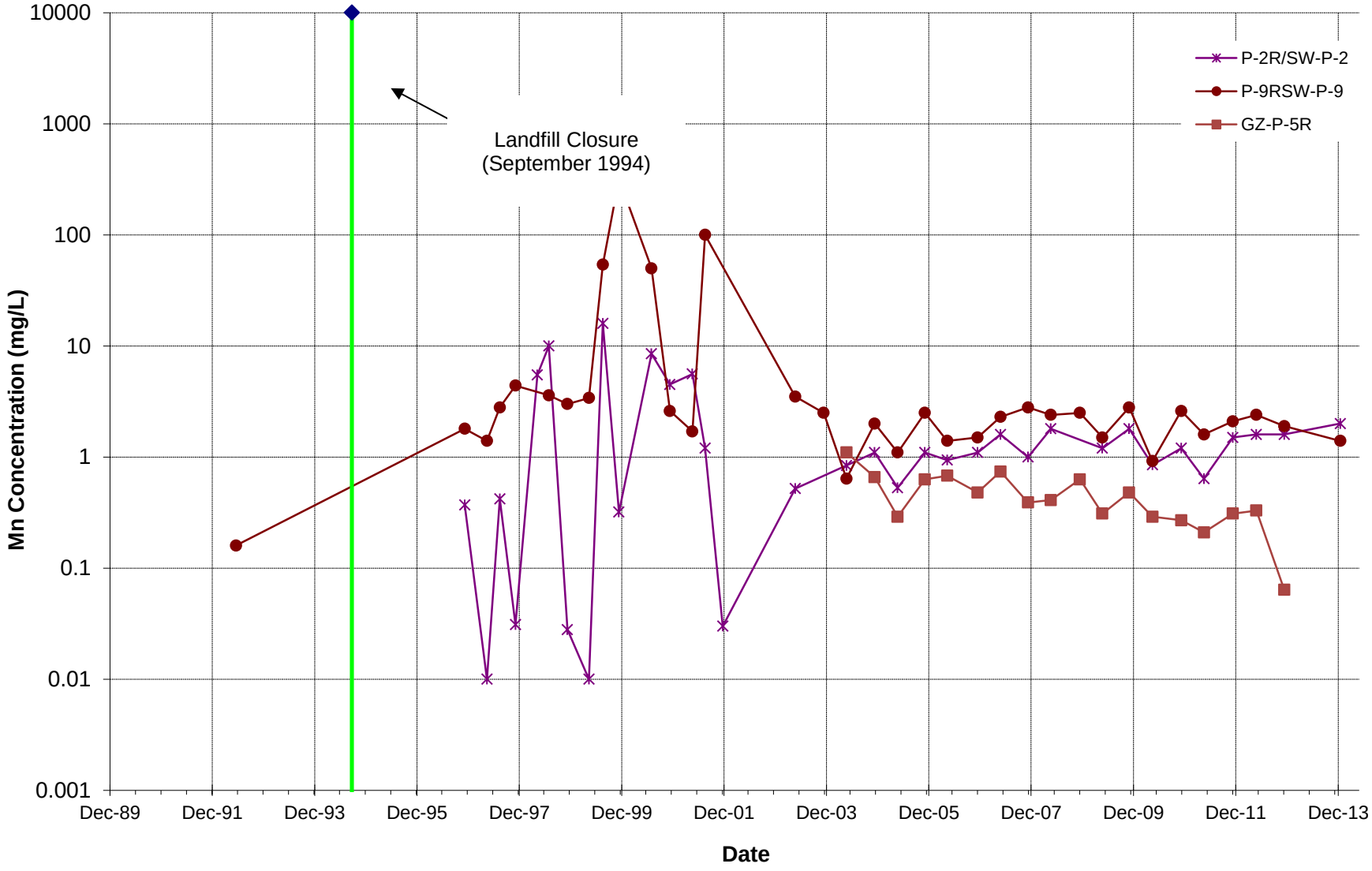
PLOT 2D
SUMMARY OF IRON CONCENTRATION DATA
Surface Water Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



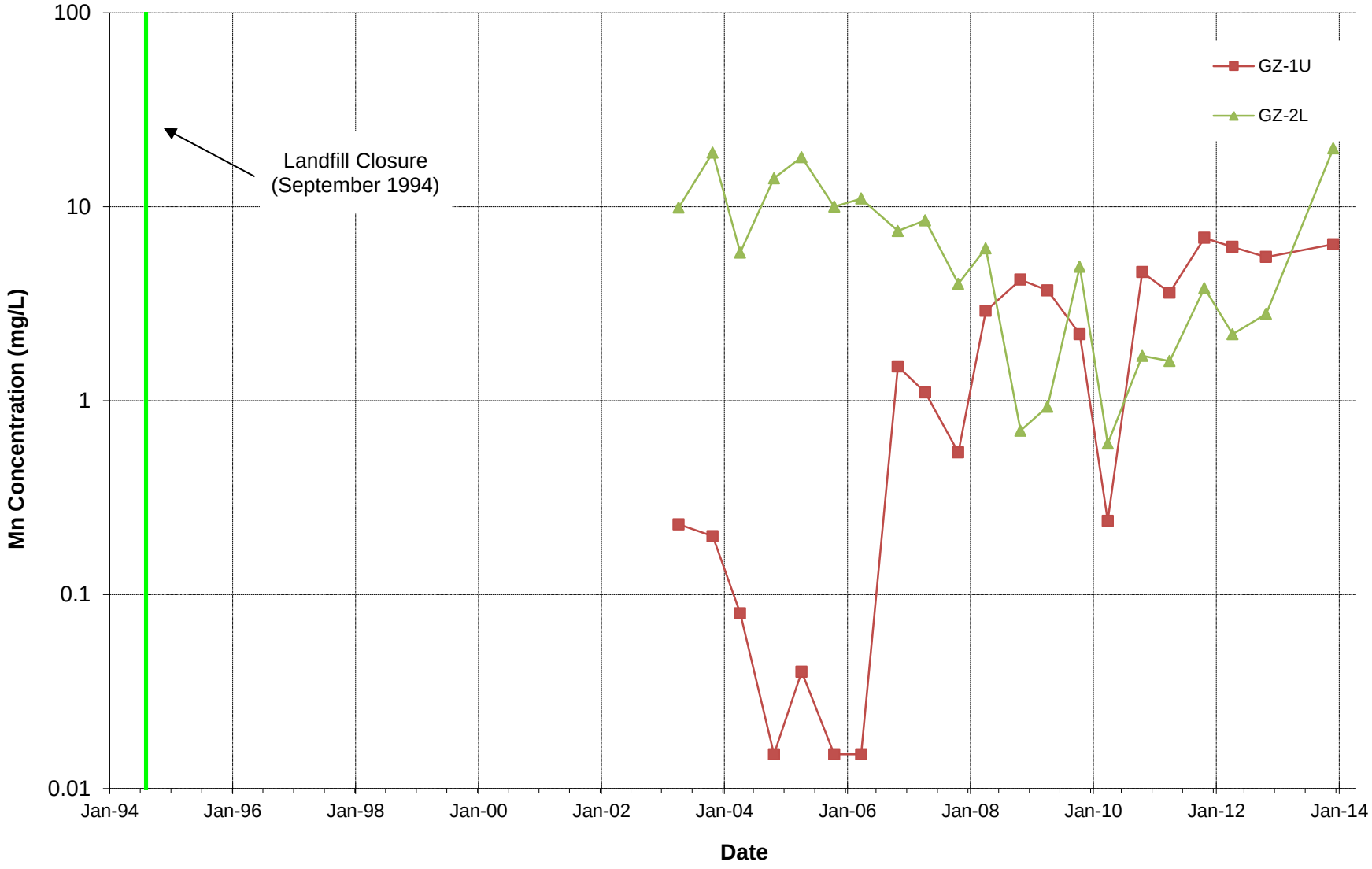
PLOT 3A
SUMMARY OF MANGANESE CONCENTRATION DATA
Groundwater Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



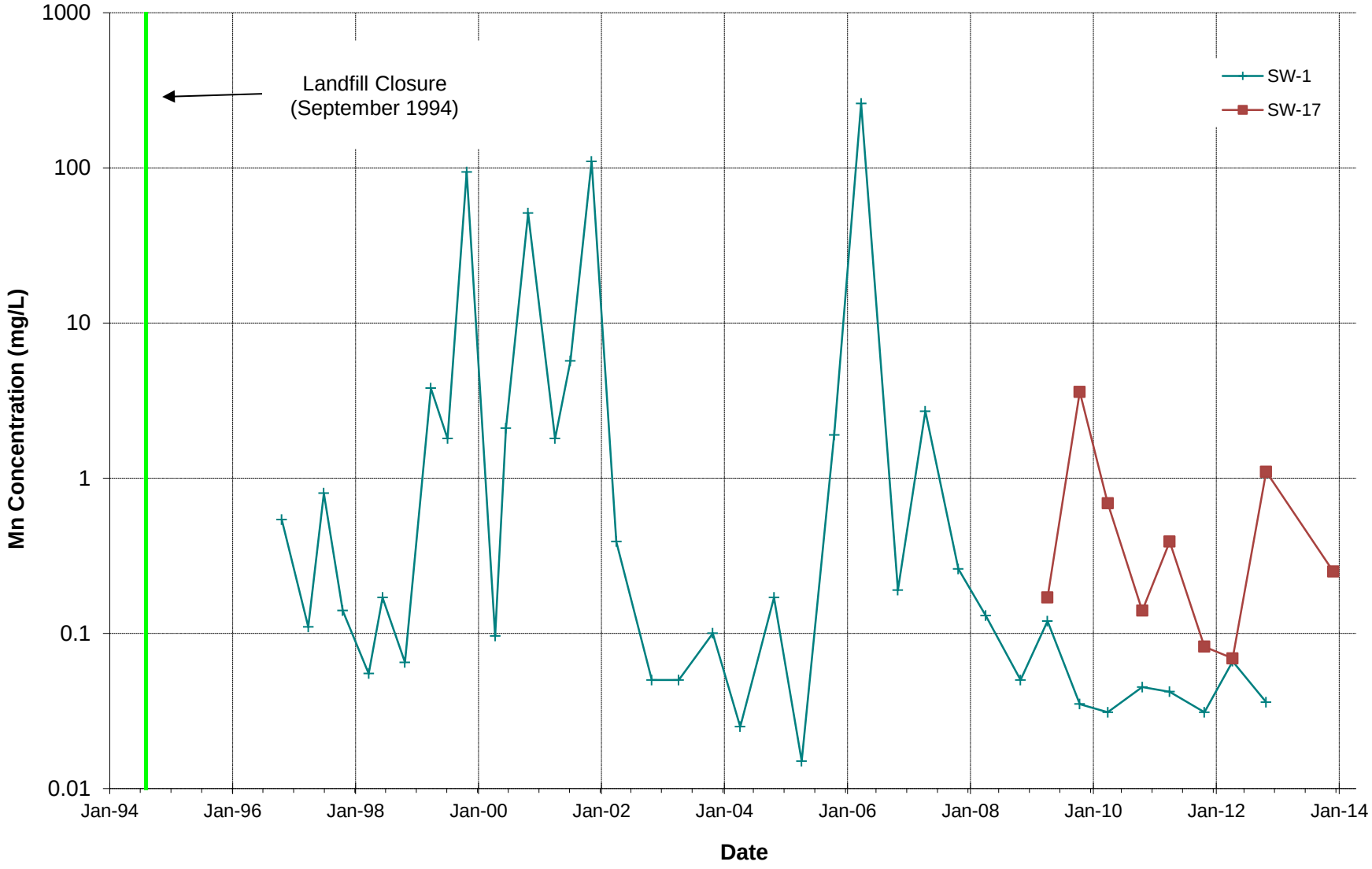
PLOT 3B
SUMMARY OF MANGANESE CONCENTRATION DATA
Surface Water Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



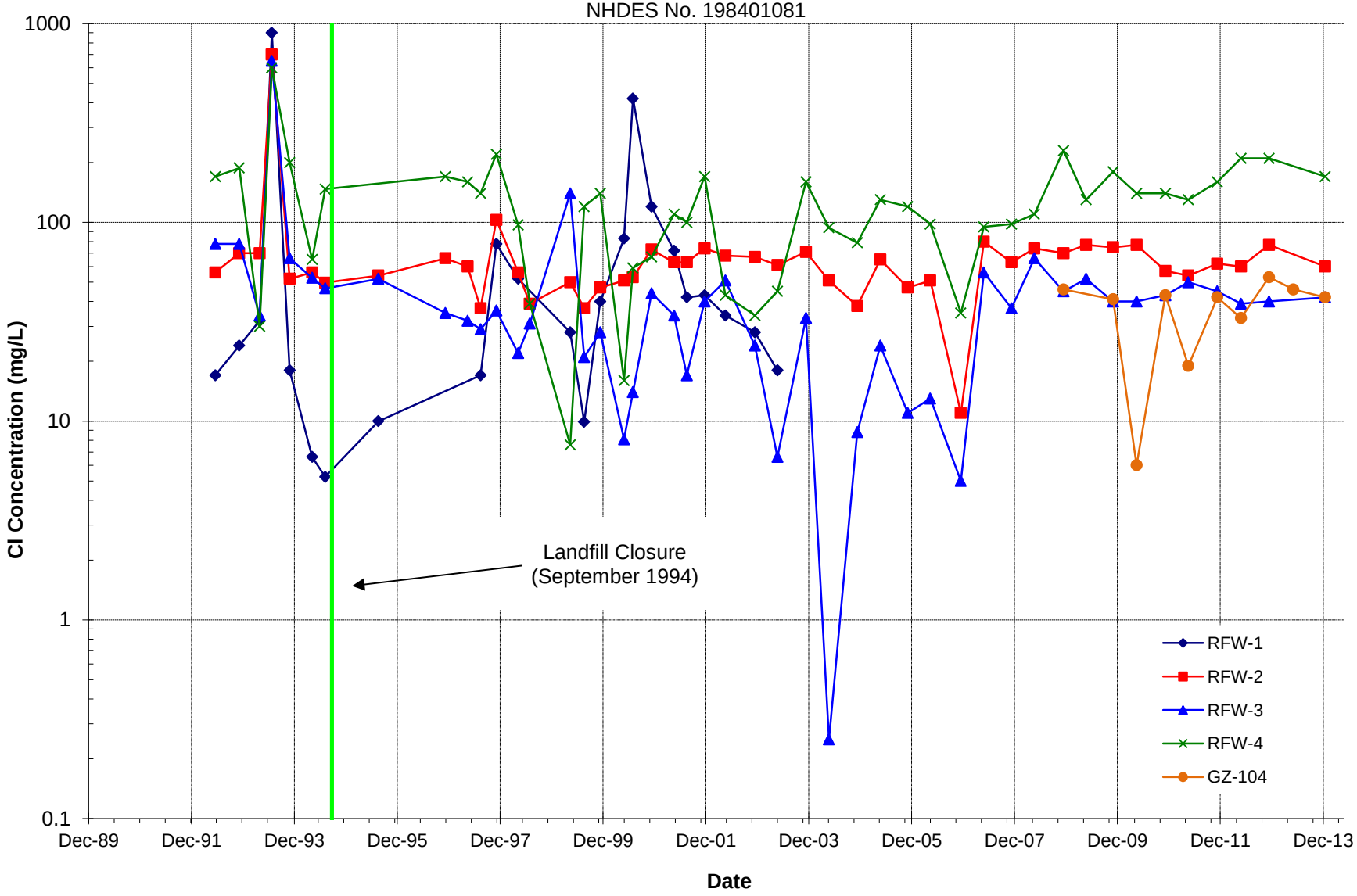
PLOT 3C
SUMMARY OF MANGANESE CONCENTRATION DATA
Surface Water Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



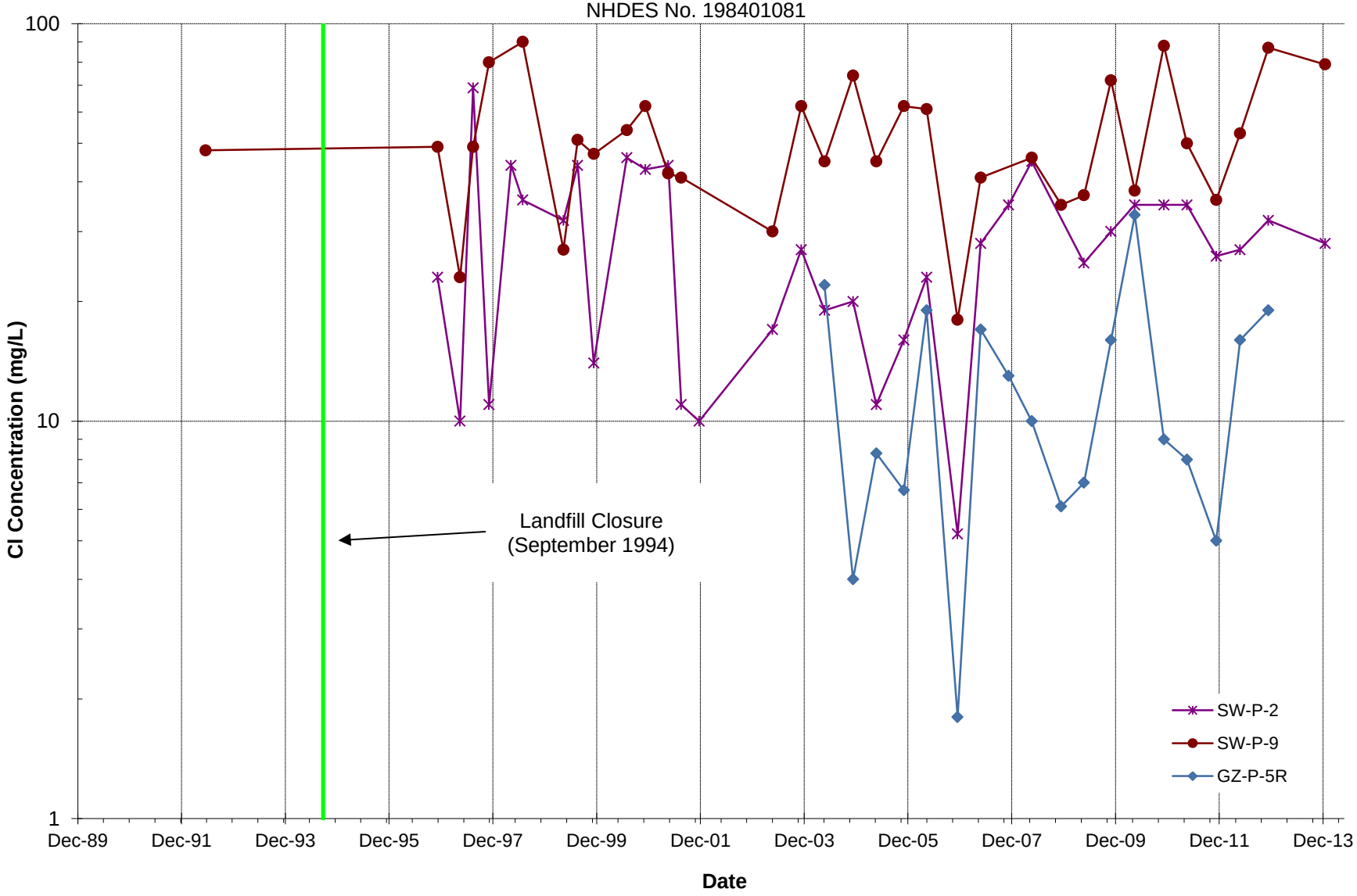
PLOT 3D
SUMMARY OF MANGANESE CONCENTRATION DATA
Surface Water Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



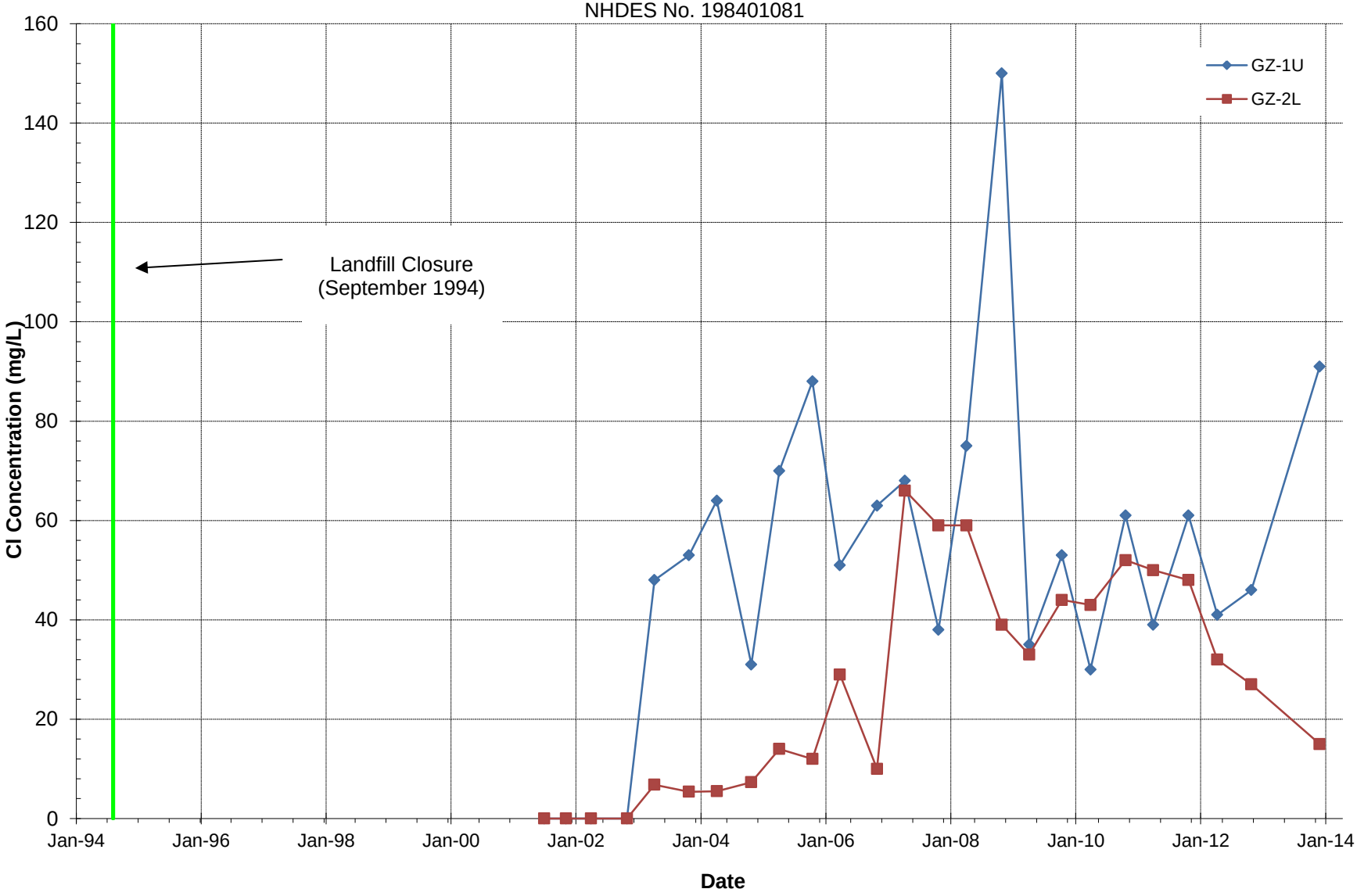
PLOT 4A
SUMMARY OF CHLORIDE CONCENTRATION DATA
Water Quality Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



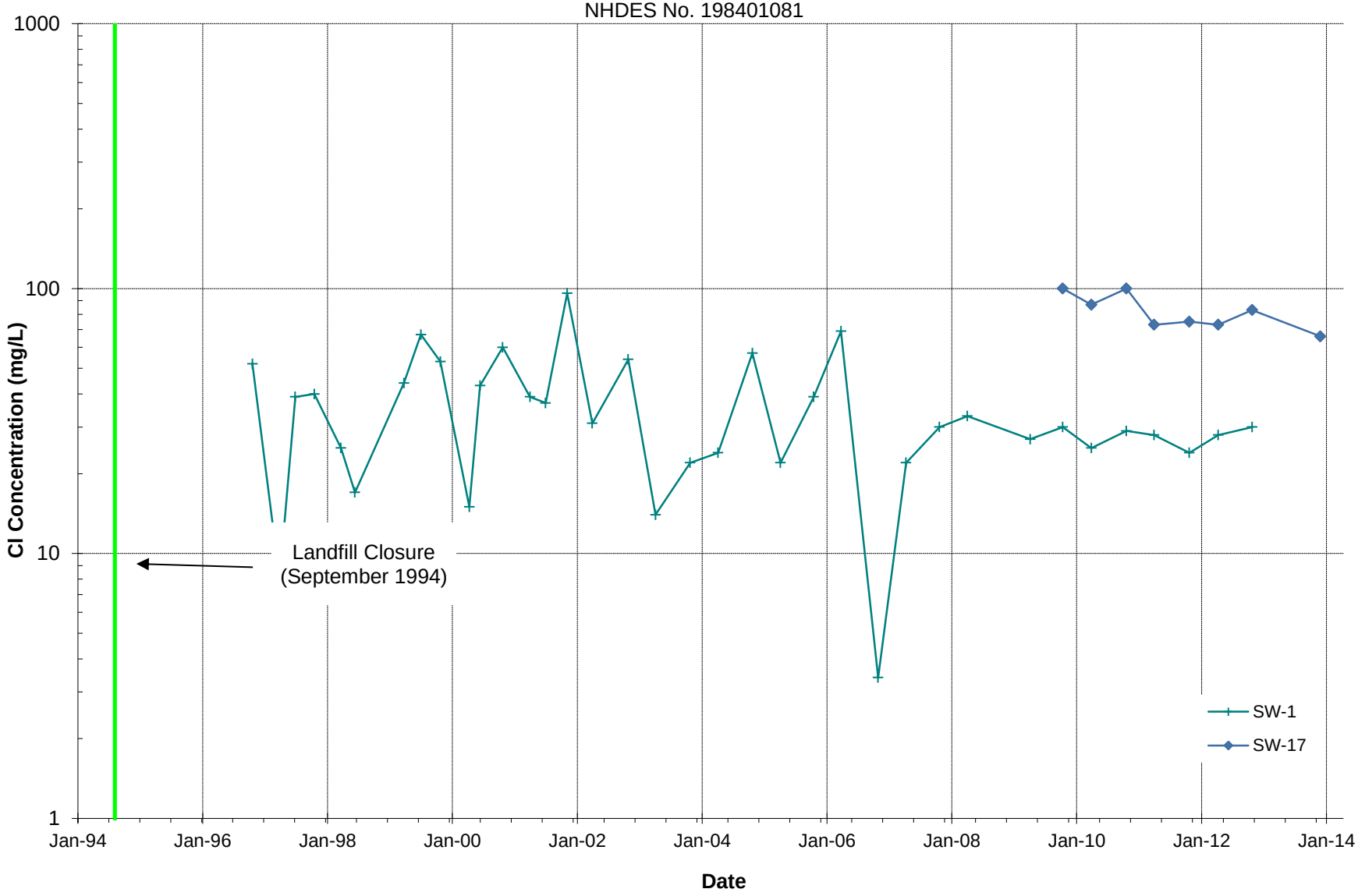
PLOT 4B
SUMMARY OF CHLORIDE CONCENTRATION DATA
Water Quality Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



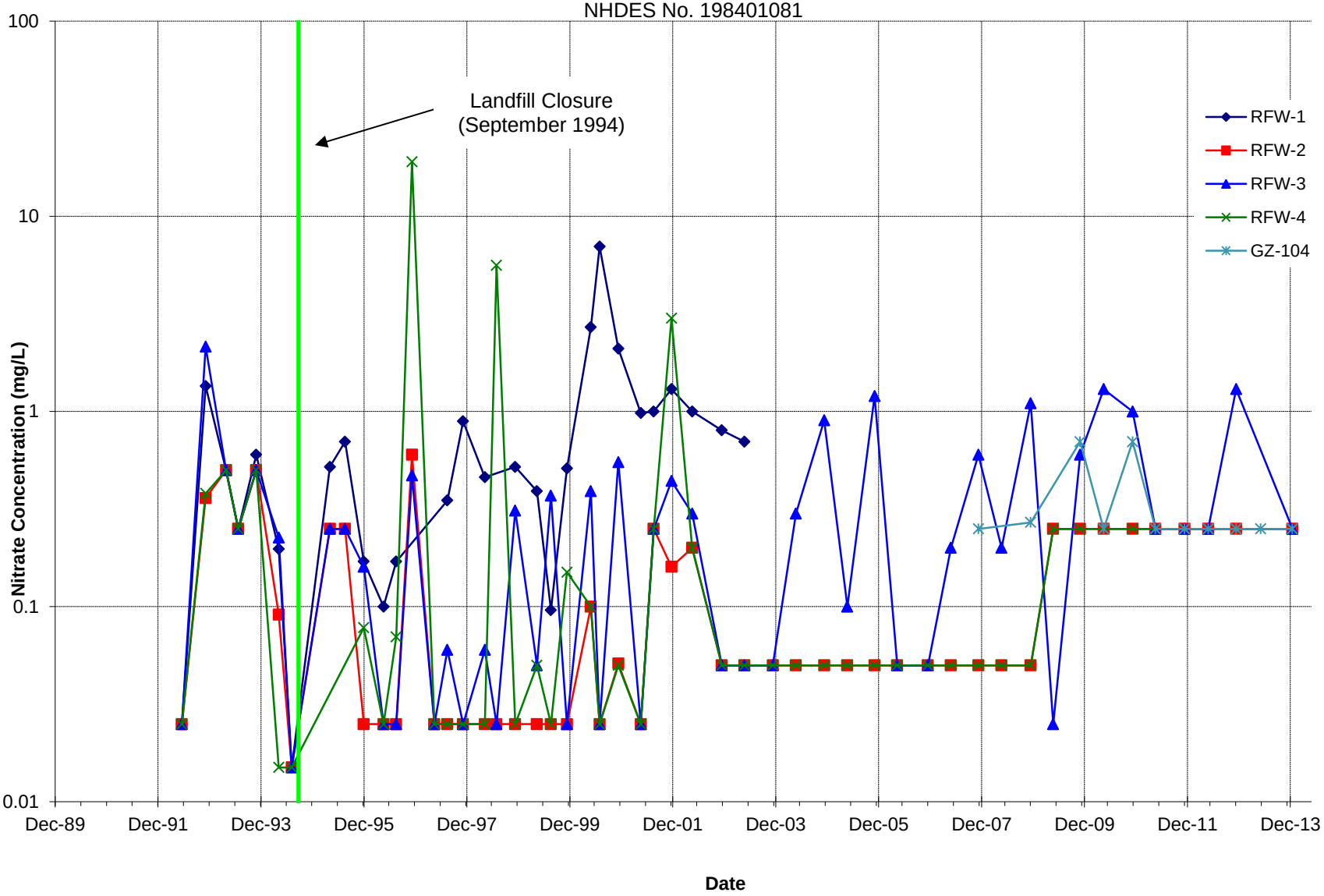
PLOT 4C
SUMMARY OF CHLORIDE CONCENTRATION DATA
Water Quality Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



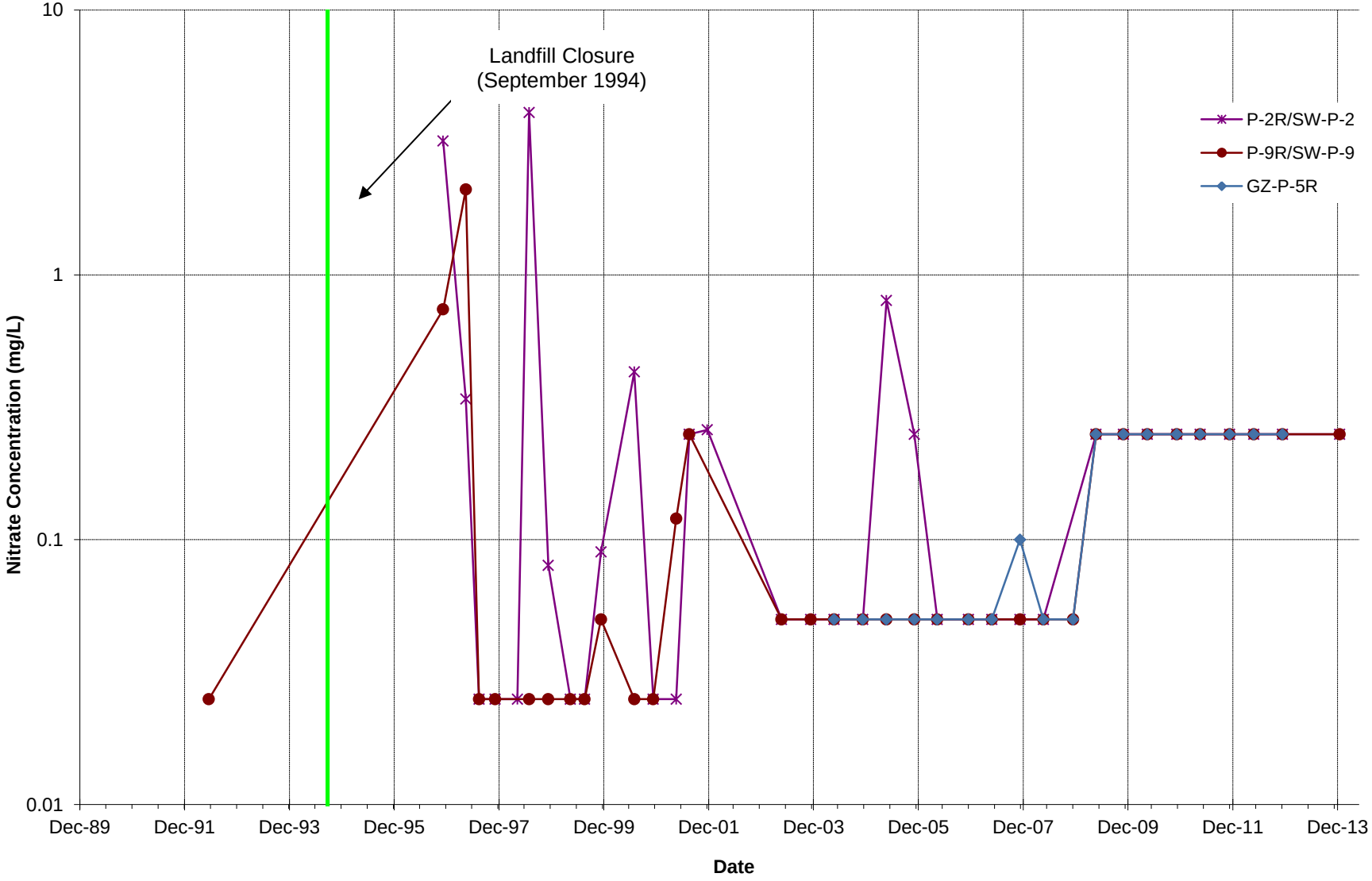
PLOT 4D
SUMMARY OF CHLORIDE CONCENTRATION DATA
Water Quality Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



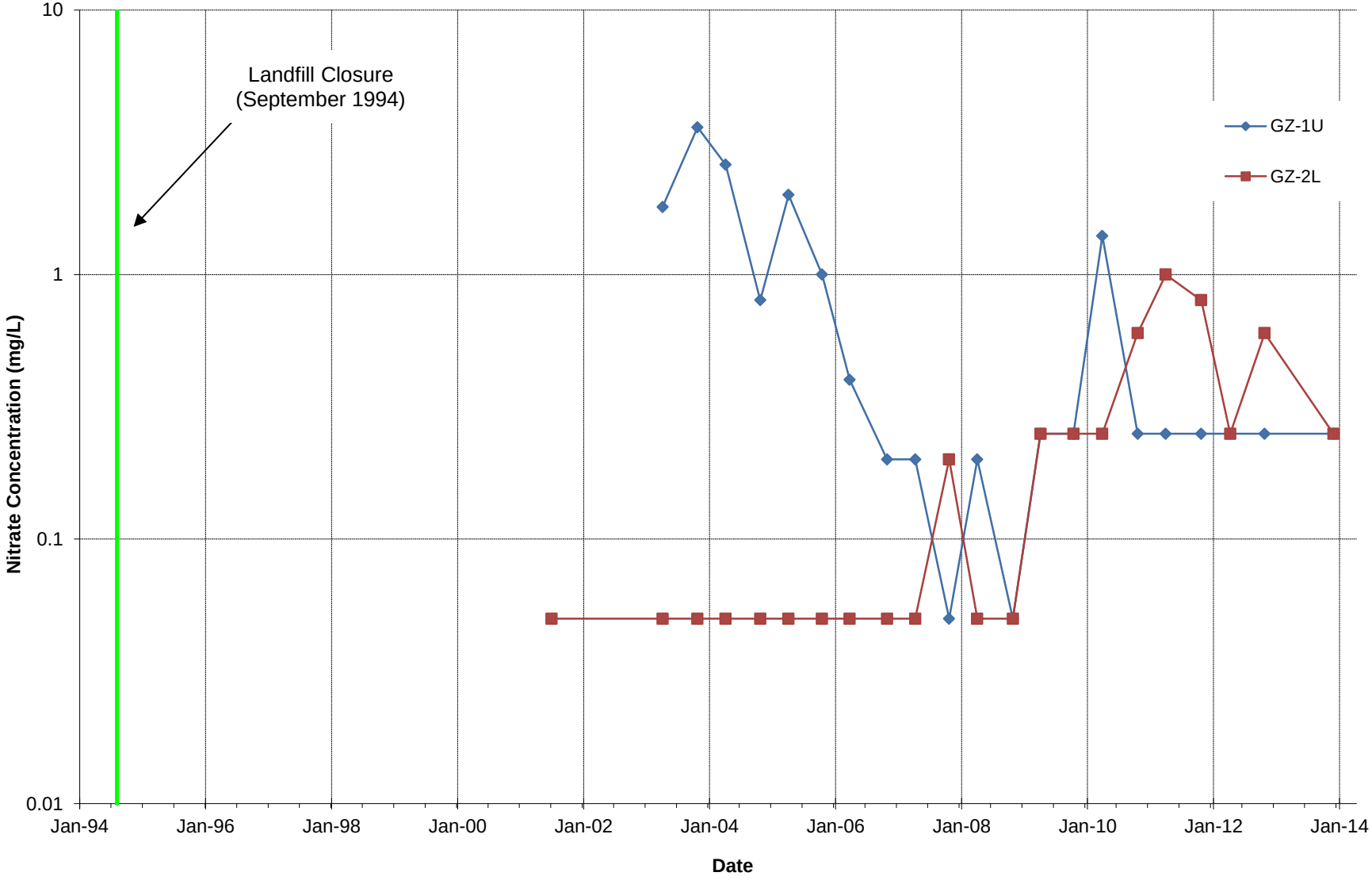
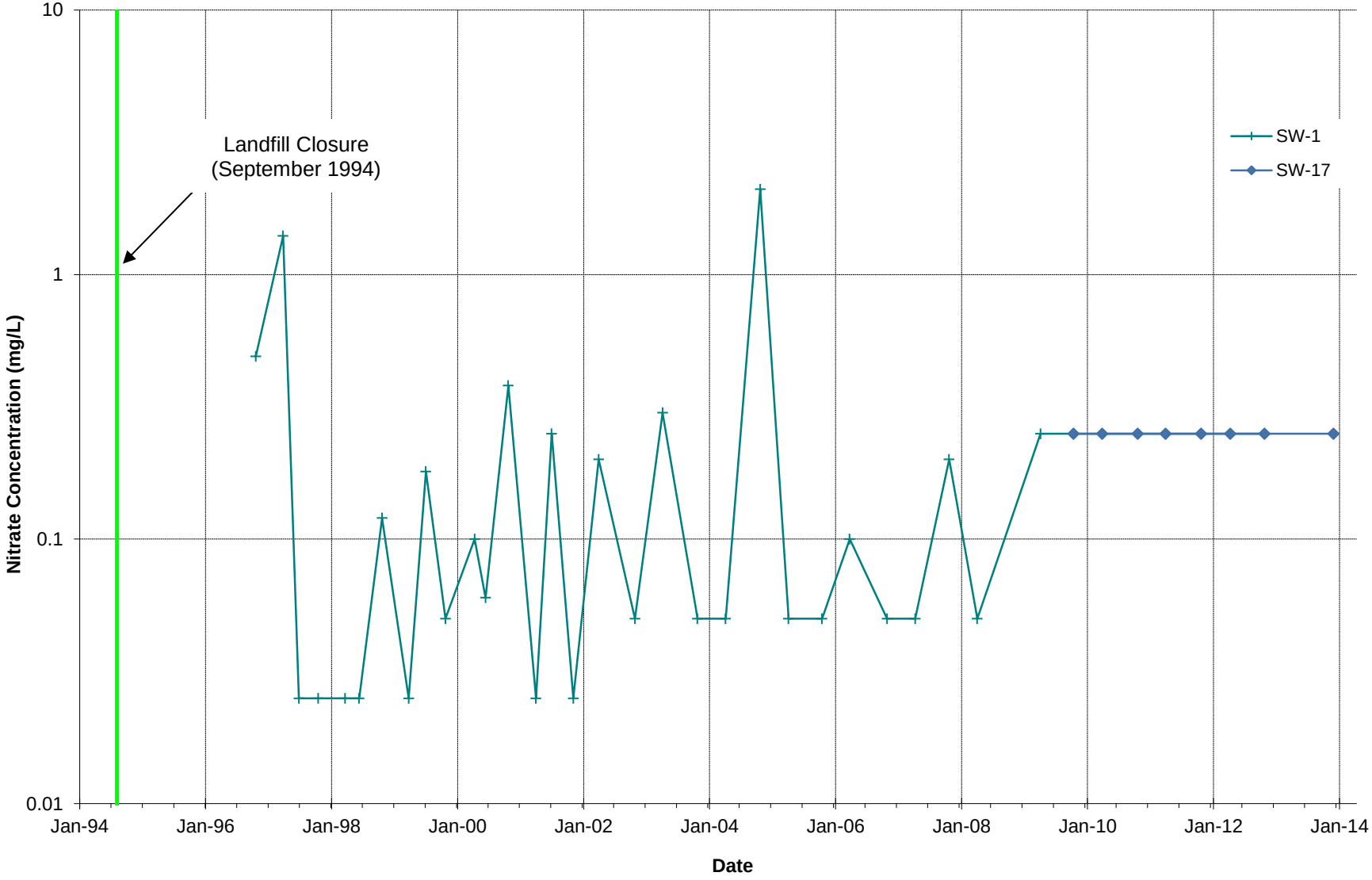
PLOT 5A
SUMMARY OF NITRATE CONCENTRATION DATA
Water Quality Sampling Locations
Cross Road Landfill - Exeter, New Hampshire
NHDES No. 198401081



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



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



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