Assessments of Public Water Supply Sources - BOW

This report is a summary of NH Department of Environmental Services' assessments of the vulnerability of each source used by the public water system(s) located in this municipality. The sources listed here are grouped first by the type of public water system and then by the system itself. Each source was ranked according to a number of criteria; a vulnerability ranking is given for each criterion that applies to the source. *An explanation of each column in the report can be found on the last page.*

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ource		Source Description	Source	te Ass Com		nkin			\leq			Hig	P		Urba	Ag		_	Dry	San	Tro
Source Number			се Туре	Date Assessment Completed	Highs	Mediums	Lows	Detects	Well/Intake	KCSs	PCSs	Highways/RRs	Pesticides	Septics	Urban Land Cover	Ag Land Cover	Animals	Lagoons	Dry discharges	Sanitary radius	Trophic status
System Type C C=Community; P=Non-Transient, Non-Community; N=Transient																					
EPAID	D 0262010 System Name: EVERGREEN DRIVE WATER CO																				
001	BRW		G	8/9/2000	1	4	7	L	L	L	M	Н	L	M	L	М	L	L		M	
002	BRW		G	8/9/2000	1	4	7	L	L	L	M	Н	L	M	L	M	L	L		M	
003	GPW		G	3/11/2005	0	5	7	L	L	L	M	M	L	M	L	M	L	L		M	
EPAID	0262020	0262020 System Name: WHITE ROCK WATER CO																			
001	BRW		G	3/7/2002	3	0	9	L	L	L	L	L	L	Н	L	Н	L	L		Н	
002	BRW		G	3/7/2002	3	0	9	L	L	L	L	L	L	Н	L	Н	L	L		Н	
003	BRW		G	3/7/2002	3	0	9	L	L	L	L	L	L	Н	L	Н	L	L		Н	
EPAID	0262030	System Name:	BEL	A BROOK W	ATER																
001	BRW		G	8/10/2001	2	2	8	Н	L	L	L	Н	L	M	L	М	L	L		L	
EPAID	0262040	System Name:	COTTAGES	S AT THE WI	ND C	НІМ	ES														
001	BRW		G	3/11/2005	1	3	8	Н	L	L	L	М	L	M	L	L	L	L		M	
EPAID	0262050	System Name:	PEU /WHIT	E ROCK SEN	IIOR	LIVII	NG														
001	BRW		G	3/11/2005	0	3	9	L	L	L	M	L	L	M	L	М	L	L		L	
002	BRW		G	3/11/2005	0	3	9	L	L	L	M	L	L	M	L	M	L	L		L	
System Type N C=Community; P=Non-Transient, Non-Community; N=Transient																					
EPAID 0266180 System Name: GRANITE ST GYMNASTICS CENTER																					
EPAID 0266180 System Name: GRANITE ST GYMNASTICS CENTER														ļ							

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Source		Source Desc	cription	te Ass Comp		nkin		Detects	×			High	Pe		Ilrhai	2		Dry	Sani	Trop
Number			е Туре	Date Assessment Completed	Highs	Mediums	Lows		Well/Intake	KCSs	PCSs	Highways/RRs	Pesticides	Septics	Ilrhan I and Cover	Animals	Lagoons	Dry discharges	Sanitary radius	Trophic status
er e				nt	hs	smu	SN		ê			RRS	Š		Over		6	rges	dius	atus
001	BRW		G	9/26/2000	2	0	7	L	L	L	Н	Н	L	L		L	L			
EPAID	0266230	System Name:	RIVER R	OAD BUSINE	ESS E	BAY														
001	BRW		G	12/9/2002	1	4	7	L	L	L	M	M	L	Н	J	L	L		M	
EPAID	0268020	System Name:	MARYS F	AMILY REST	AUR	ANT														
003	BRW		G	11/1/2000	4	0	5	Н	L	Н	Н	Н	L	L		L	L			
EPAID	0268030	System Name:	CHEN YA	ANG LI REST	AURA	ANT														
	BRW		G	9/26/2000	1	0	8	L	L	L	Н	L	L	L		L	L			
002	BRW		G	9/26/2000	1	0	8	L	L	L	Н	L	L	L		L	L			
EPAID	0268040	System Name:		BOW IRVING	i															
001	BRW		G	9/26/2000	3	0	6	L	L	Н	Н	Н	L	L		L	L			
EPAID	0268120	System Name:	Н	IAMPTON IN	N															
001	BRW		G	9/26/2000	3	0	6	L	L	Н	Н	Н	L	L		L	L			
EPAID	0268130	System Name:		BOW MOBIL																
001	BRW		G	9/5/2001	1	0	8	L	L	L	Н	L	L	L		L	L			
EPAID	0269020	System Name:	BOW CC	MMUNITY B	UILDI	ING														
001	BRW		G	9/26/2000	2	0	7	L	L	Н	Н	L	L	L		L	L			
EPAID	0269030	System Name:	BOW MILLS U	JNITED MET	HODI	ST (CHR													
001	BRW		G	9/26/2000	2	0	7	L	L	Н	Н	L	L	L		L	L			
System 1	уре Р	C=Commu	unity; P=Non-Transient, N	Non-Comm	ınity	; N=	Tra	nsi	ent											
EPAID	0265010	System Name:	BOW N	MEMORIAL SO	CHOC	DL														
001	BRW		G	8/15/2000	2	2	8	L	L	L	M	L	L	M	_	l L	L		Н	
EPAID	0265020	System Name:	BOW EL	EMENTARY	SCHO	OOL														
002	BRW		G	8/15/2000	3	1	8	L	L	L	M	L	L	Н	_	l L	L		Н	

S			Da		Number of Vulnerability			5	Sus	cep	tibili	ty F	Rank	king	Cri	iteri	a		
ource	Source Des	cription	te Assessm Completed		nkin	gs		×			High	, ,	Urbar	AgL	A	_	Dry	Sanitary	T
Source Number		cription Source Type	Date Assessment Completed	Highs	Mediums	Lows	Detects	Well/Intake	KCSs	PCSs	Highways/RRs	Septics	Urban Land Cover	Ag Land Cover	Animals	Lagoons	Dry discharges	Sanitary radius	hin atatus
EPAID	0265030 System Name:	ВО	W HIGH SCH	OOL															
001	BRW	G	11/27/2000	1	2	9	L	L	M	L	L L	L	L	Н	L	L		M	
EPAID	0266010 System Name:	PSNH /N	MERRIMACK S	STAT	ION														
	GPW	G	6/22/2000	1	4	7	L	L	L	M	L L	N		M	L	L		Н	
002	GPW	G	6/22/2000	2	4	6	L	L	M	M	LL	N	Н	M	L	L		Н	
EPAID	0266020 System Name:	BOVIE SCR	EEN PROCES	S PR	INT	ING													
001	BRW	G	6/9/2000	5	2	4	Н	L	Н	M	H L	N	Н	L		L		Н	
EPAID	0266050 System Name:	GRAPP	ONE FORD C	OMPI	EX														
001	BRW	G	9/15/2006	4	3	5	L	L	M	M	H	Н	Н	L	L	L		Н	
002	BRW	G	4/17/2000	5	3	4	Н	L	M	M	H	Н	Н	L	L	L		Н	
EPAID	0266070 System Name:	KELL	ER PRODUCT	SIN	0														Ī
	GPW	G	4/18/2000	2	3	7	L	L	Н	M	L L	L	Н	M	L	L		M	
	GPW	G	4/18/2000	2	3	7	L	L			L L	L	Н	M	L	L		M	
	GPW GPW	G	4/18/2000 4/18/2000	3	2	7	<u>-</u>	L		M M	LLL		H	H	_	L		M M	
					_	•	_	_							_			•	
	0266090 System Name:	G	6/8/2000	6	1	5	Н	1	Н	M	H L	Н	Н	_	1	1		Н	
							П	L	П	IVI	HL		П	L	L	L		П	
	0266120 System Name:		NE COLLISION																_
001	BRW	G	4/18/2000	4	3	5	Н	L	L	M	H L	N	Н	M	L	L		Н	
	0266130 System Name:		LES III OFFICI	_]							,		_
001	BRW	G	8/16/2001	4	2	6	L	L	L	Н	H L	IV	Н	Н	L	L		M	
EPAID	0266140 System Name:	NH AUTO I	DEALERS AS	SOCI	ATIC	ON													
001	BRW	G	9/1/2006	2	2	8	L	L	L	M	H L	L	Н	L	L	L		M	
EPAID	0266150 System Name:	CONCORD GROUP INFORMATION SVS																	

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Source	Source Description	Source		Rankings			×.		High	Pe	(0	Urbar	Ag L	A	_	Dry o	Sanit	Troc		
Number		e Type		Highs	Mediums	Lows	Detects	Well/Intake	KCSs	PCSs PCSs	Pesticides	Septics	Urban Land Cover	Ag Land Cover	Animals	Lagoons	Dry discharges	Sanitary radius	Trophic status	
001	BRW	G	3/15/2001	2	6	4	L	L	M	M N	M	Н	Н	M	L	L		M		
EPAID	0266170 System Name: COMMUNITY BRIDGES BLDG																			
001	BRW	G	3/15/2001	3	0	9	L	L	L	LH	L	Н	L	Н	L	L		L		
EPAID	0266200 System Name:	GRA	PPONE TOY	ОТА																
001	BRW	G	4/18/2000	5	4	3	Н	L	M	ИН	M	Н	Н	M	L	L		Н		
EPAID	0266210 System Name: CONC	CORD	GROUP /NH	CLAII	MS I	DIV														
001	BRW	G	8/17/2000	4	2	6	Н	L	ΗΙ	ИН	L	L	Н	L	L	L		М		
EPAID	0266220 System Name:	501	SOUTH STR	EET																
001	BRW	G	10/10/2002	3	2	7	L	L	LI	M M	L	Н	Н	L	L	L		Н		
EPAID	0266240 System Name:	GRA	APPONE HO	NDA																
001	BRW	G	8/25/2006	5	0	7	L	L	Н	Н	L	L	Н	L	L	L		Н		
EPAID	0269010 System Name: B	SOW M	UNICIPAL BU	JILDII	NG															
001	BRW	G	9/26/2000	1	0	8	L	L	L	H L	L	L			L	L				
EPAID	0269050 System Name: SA	ARA LE	EE COFFEE A	AND 1	ГЕА															
001	BRW	G	4/18/2000	5	3	4	Н	L	Н	M H	L	Н	M	Н	L	L		М		

Explanatory Notes

Abbreviations used in the following notes:

HAC = hydrologic area of concern for a surface water source. For small or undeveloped watersheds, the HAC includes the entire watershed. For all other surface sources, the HAC includes only a portion of the watershed close to the water system intake.

WHPA = wellhead protection area for a groundwater source. For community and non-transient systems, the WHPA is the area from which water is expected to flow to the well under extremely dry conditions. For transient systems, the WHPA is the area within 500 ft of the well.

EPAID: Each public water system is identified by a 7-digit federal ID number.

Source number: Each source is further identified by a 3-digit number.

Source description: An abbreviated description of the source from NHDES's database. (Some common abbreviations: BRW=bedrock well; GPW=gravel-pack well; GRW=gravel well; DUG=dug well; PTW=point well; SPR=spring; ART=artesian well; INF=infiltration well.)

Source type: G=groundwater (well or spring); S=surface water (lakes, reservoirs, ponds, rivers); E = water purchased from another system (*Purchased sources are not assessed per se, but the original sources used by the seller are assessed*).

Date Assessment Completed: The date NHDES completed the process of reviewing available data, collecting new data, and entered the assessment information into its database.

Number of Vulnerability Rankings: The number of High, Medium, and Low rankings for that source listed in the columns to the right. Each criterion is explained below. Some criteria do not apply to all types of sources or systems.

Detects: Confirmed detections of certain contaminants (after treatment) of suspected human origin, not including disinfection byproducts. L = none detected at or above trigger levels in the most recent round of sampling. There is no M ranking for this criterion. H = contaminants were detected at or above trigger levels.

Well/Intake: The integrity of the well (if a groundwater source) or the intake (if a surface water source). L = no unresolved deficiencies with the well or intake identified in the most recent sanitary survey. There is no M ranking for this criterion. H = there are unresolved deficiencies.

KCSs: Known contamination sources in the vicinity of the source. This includes any site known to DES where contaminants are known or very likely to have been released to the ground, and where remediation is not complete. L = none present in the WHPA (for groundwater sources) or in the HAC (for surface water sources). M (for community and non-transient systems) = one or more KCSs in the WHPA or HAC but not within 1,000 ft of the well or intake. *There is no M ranking for transient systems*. H = one or more KCSs within the WHPA or HAC within 1,000 ft of the well or intake.

PCSs: Potential contamination sources in the vicinity of the source. This includes any site known to DES where contaminants are known or very likely to be used in significant quantities, but where there are no known releases to the ground. L (for community and non-transient systems) = no PCSs within 1,000 ft of the well in the WHPA (for groundwater sources) or none present in the HAC (for surface water sources). L (for transient systems) = none present in the WHPA. M (for groundwater sources serving community and non-transient systems) = 10 or fewer PCSs within 1,000 ft of the well in the WHPA. M (for surface water sources) = one or more PCSs in the HAC but not within

1,000 ft of the intake. *There is no M ranking for transient systems*. H (for groundwater sources serving community and non-transient systems) = more than 10 PCSs within 1,000 ft of the well in the WHPA. H (for transient sources) = one or more PCSs in the WHPA. H (for surface water sources) = one or more within 1,000 ft of the intake in the HAC.

Highways/RRs: The presence of numbered state highways or active railroads in the vicinity of the source. L = none present in the WHPA or HAC. M (for community and non-transient groundwater sources) = one or more in the WHPA but not within 1,000 ft of the well. M (for surface sources) = one or more in the HAC but not within 300 ft of the source water. *There is no M ranking for transient systems*. H (for transient sources) = one or more in the WHPA. H (for community and non-transient groundwater sources) = one or more in the WHPA within 1,000 ft of the well. H (for surface sources) = one or more in the HAC within 300 ft of the source water.

Pesticides: Whether or not pesticides have been routinely applied in the vicinity of the source. This is based on the presence of land parcels owned by registered pesticide applicators. L = no application areas in WHPA or HAC. M (for community and non-transient sources) = application site(s) in WHPA or HAC but not within 500 ft of the well or within 300 ft of the intake. *There is no M ranking for transient systems*. H = application site(s) within 500 ft of the well or within 300 ft of the intake.

Septics: The presence or density of septic systems and sewer lines in the vicinity of the source. L (for community and non-transient groundwater sources) = no septic systems or sewer lines located within 500 ft of the well, and fewer than 30 septic systems in the remainder of the WHPA. L (for surface sources) = no septic systems within 500 ft of surface water. L (for transient sources) = no septic systems or sewer lines within 75 ft of the well. M (for community and non-transient groundwater sources) = fewer than 10 septic systems and no sewer line located within 500 ft of well, and fewer than 30 septic systems in remainder of the WHPA. M (for surface sources) = low density of septic systems (lots averaging 2 acres or more) within 500 ft of surface water in the HAC. There is no M ranking for transient systems. H (for community and non-transient groundwater sources) = 10 or more septic systems or any sewer line within 500 ft of the well and/or high density of septic systems (more than 30) in the WHPA. H (for surface sources) = densely developed shoreline (lots averaging less than 2 acres) within 500 ft of surface water in the HAC. H (for transient sources) = one or more septic systems or sewer lines within 75 ft of the well.

Urban Land Cover: The percentage of urban land cover in the vicinity of the source, based primarily on satellite images. *This criterion does not apply to sources serving transient systems*. L = less than 10% of the WHPA or HAC is urban, and less than 10% of the WHPA within 1,000 ft of the well is urban. M (for community and non-transient groundwater sources) = less than 10% of WHPA is urban but 10% or more of the WHPA within 1,000 ft of the well is urban. M (for surface sources) = between 10% and 20% of HAC is urban. H (for community and non-transient groundwater sources) = 10% or more of WHPA is urban. H (for surface sources) = 20% or more of HAC is urban.

Ag Land Cover: The percentage of agricultural land cover in the vicinity of the source (in the WHPA or within 300 ft of surface water in the HAC), based primarily on satellite images. This criterion does not apply to sources serving transient systems. L = no ag land. M = less than 10% ag land. H = 10% or more ag land.

Animals: The presence of concentrations of 10 or more animal units in the vicinity of the source. L = none in the WHPA or (for a surface source) within 300 ft of surface water in the watershed. M (for community and non-transient groundwater sources) = one or more such farms in the WHPA but not within 1,000 ft of the well. M (for a surface source) = none within 300 ft of surface water in the HAC, but one or more within 300 ft of surface water in the watershed. *There is no M ranking for transient systems*. H = one or more in the WHPA within 1,000 ft of the well or (for a surface source) within 300 ft of surface water in the HAC.

Lagoons: The presence of wastewater treatment lagoons or spray irrigation sites in the vicinity of the source. L = none in the WHPA or (for a surface source) in the entire watershed. M (for community and non-transient groundwater sources) = one or more in the WHPA but not within 1,000 ft of the well. M (for a surface source) = none within 300 ft of surface water in the HAC, but one or more in the watershed. There is no M ranking for transient systems. H = one or more in the WHPA within 1,000 ft of the well or (for a surface source) within 300 ft of surface water in the HAC.

Dry Discharge: The presence of dry-weather stormwater discharge sites in the vicinity of the source. *Only a handful of surface sources were evaluated for such discharges; no discharges were found.*

Sanitary Radius: The presence of development not associated with the well within the sanitary radius (within 75 to 400 ft of the well). *Applies only to groundwater sources serving community and non-transient systems*. Of particular concern are sewer lines, septic systems, or storage of regulated substances in this area. L = no inappropriate land uses or practices. No medium ranking. H = inappropriate land uses or practices were discovered during the most recent sanitary survey, and have not been corrected.

Trophic status: The projected trophic (nutrient) status of the source as predicted by a computer model using a future land development scenario for the watershed. *This criterion applies only to 24 lakes, ponds, and reservoirs included in the phosphorus loading study*. L = oligotrophic (relatively good clarity and water quality with low algae population). M = mesotrophic (intermediate clarity, quality, and algae population). H = eutrophic