Assessments of Public Water Supply Sources - BEDFORD

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.*

	S			Da	Nun Vulne		-	Susceptibility Ranking Criteria													
	Source Number	Source Description	Source Type	Date Assessment Completed		Mediums		Detects	Well/Intake	KCSs	PCSs	Highways/RRs	Pesticides	Septics	Urban Land Cover	Ag Land Cover	Animals	Lagoons	Dry discharges	Sanitary radius	Tunnkin status
Syst	System Type C C=Community; P=Non-Transient, Non-Community; N=Transient																				
EP	AID	0191010 System Name:	GRE	EENFIELD FAI	RMS																
	501	PURCHSED WATER FROM MERRIMACK VILLAGE	Е	12/5/2001	0	0	0														
EP	AID	0192010 System Name: BE	DF	ORD WATER	COR	Р															
	003	BRW	G	10/30/2000	3	2	7	Н	L	L	L	L	L	Н	Н	Μ	L	L		Μ	
	004	GRW	G	10/30/2000	3	1	8	Н	L	L	L	L	L	Н	Н	Μ	L	L		L	
	005	GRW	G	10/30/2000	3	2	7	Η	L	L	L	L	L	Η	Н	Μ	L	L		Μ	
EP	AID	0192050 System Name:	F	POWDER HILI	-																
	501	MANCHESTER WATER WORKS /LAKE MASSABES	Е	12/3/2001	0	0	0														
EP	AID	0192060 System Name:	EN	IGLISH WOOI	DS																
	001	BRW	G	6/9/2000	2	3	7	L	L	L	L	М	Μ	Н	Н	Μ	L	L		L	
	002	BRW	G	2/20/2002	1	2	9	L	L	L	Μ	Μ	L	Н	L	L	L	L		L	
EP	AID	0192070 System Name:	CA	BOT PRESER	VE																
	001	BRW	G	6/9/2000	2	2	8	L	Н	L	L	L	L	Μ	Μ	Н	L	L		L	
	002	BRW	G	6/9/2000	2	2	8	L	Н	L	L	L	L	Μ	Μ	Н	L	L		L	
	003	BRW	G	6/9/2000	3	1	8	L	Н	L	L	L	L	Н	Μ	Н	L	L		L	
	004		G	1/8/2003	1	2	9	L	L	L	L	L	Μ	Μ	L	Н	L	L		L	
	502	MERRIMACK VILLAGE DISTRICT	Е	12/3/2001	0	0	0														

S				Da	Nun Vuln				5	Sus	cep	eptibility Ranking Criteria									
ource		Source Descri	ption Ser	te Ass Com		nkin			2			Hig	P		Ag			Dry	San	H	
Source Number			ption Source Type	Date Assessment Completed	Highs	Mediums	Lows	Detects	Well/Intake	KCSs	PCSs	Highways/RRs	Pesticides	Septics	Ag Land Cover	Animals	Lagoons	Dry discharges	Sanitary radius	whin status	
System 1	ype N	C=Community; P=Non-Transient, Non-Community; N=Transient																			
EPAID	0196220	System Name:	BEDFORD V	VEST CONVE	NIEN	CE	CTR														
001	BRW		G	5/25/2000	3	0	6	L	Η	L	Η	Η	L	L		L	L				
EPAID	0197010	System Name:		CAMP ALLEN	I																
001	BRW		G	8/22/2001	2	0	7	L	Η	L	Η	L	L	L		L	L				
003	BRW		G	8/22/2001	2	0	7	L	Н	L	H	L	L	L		L	L				
EPAID	0197020	System Name:		CAMP FOSTE																_	
001	BRW		G	8/22/2001	2	0	7	L	Н	L	H	L	L	L		L	L				
EPAID	0197030	System Name:	CAI	MP KETTLEF	ORD																
001	BRW		G	8/22/2001	1	0	8	L	L	L	Н	L	L	L		L	L				
EPAID	0198010	System Name:		OLDE ROAD																_	
001	BRW		G	8/22/2001	3	0	6	L	L	L	Н	Н	L	H		L	L				
EPAID	0198030	System Name:		SLAMMERS																	
001	BRW		G	9/19/2000	3	0	6	L	L	L	Н	Η	L	Н		L	L				
EPAID	0198060	System Name:	HIL	L BROOK MO	TEL																
001	BRW		G	8/22/2001	2	0	7	L	L	L	Н	Η	L	L		L	L				
EPAID	0198070	System Name:	SHORTYS	MEXICAN RO	ADHO	ous	EII														
001	ART		G	8/22/2001	2	0	7	L	L	L	Η	Н	L	L		L	L				
EPAID	0198100	System Name:	WEA	THERVANE R	EST	4															
001	BRW		G	8/22/2001	2	0	7	L	L	_	H	Н		L		L	L				
002	BRW		G	8/22/2001	2	0	7	L	L	L	Η	Н	L	L		L	L				
EPAID	0199050	System Name:		INS DENTAL (_								_								
001	BRW		G	8/22/2001	2	0	7	L	L	L	Н	Н	L	L		L	L				

Ś				Dat ,				Number of Vulnerability			Sus	ce	ptibi	otibility Ranking Criteria									
ource		Source Desc	ription	Sourc	te Assessm Completed		nkin			M			High	P	~	Urbai	Ag L	4	_	Dry	Sani	Trophic	
Source Number			2	Source Type	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	ohic status	
EPAID 01	0199060 System Name: ANIMAL RESCUE LEAGUE OF NH																						
001 BF	RW	-		G	10/10/2000	3	0	6	L	L	Н	Η	Η	L	L			L	L				
System Typ	Type P C=Community; P=Non-Transient, Non-Community; N=Transient																						
EPAID 01	195010	System Name:	MONTES	SOI	RI SCHOOL C	F BE	DF	ORD															
002 BF	RW			G	12/3/2001	3	2	7	L	L	L	L	Μ	L	Н	Η	Η	L	L		Μ		
EPAID 01	195020	System Name:	KELLOO	G	ELEMENTAR	Y SC	HO	CL															
001 DU	UG	•		G	6/29/2001	2	1	9	L	L	L	L	L	L	н	Η	L	L	L		Μ		
EPAID 01	195050	System Name:	PETE	R V	WOODBURY S	SCHO	DOL																
001 BF	RW	•		G	4/4/2001	3	3	6	L	L	L	Μ	L	Μ	н	Η	Μ	L	L		Н		
EPAID 01	195070	System Name:	1	MC	KELVIE SCHO	OOL																	
	RW			G	4/4/2001	3	1	8	L	L	L	L	L	L	Μ	Н	Н	L	L		н		
002 BF	RW			G	4/4/2001	3	1	8	L	L	L	L	L	L	Μ	Н	Η	L	L		Н		
EPAID 01	195080	System Name:	REACHING	G F	OR THE STAR	RS C	HLD	CRE															
001 BF	RW			G	11/5/2001	1	3	8	L	L	L	L	L	Н	Μ	L	Μ	L	L		Μ		
EPAID 01	195090	System Name:	BETHA	AN Y	COVENANT	СН	IRCI	ł															
001 BF	RW			G	6/21/2000	2	2	8	L	L	L	L	Η	L	Μ	L	Н	L	L		Μ		
EPAID 01	195100	System Name:	BEDFORD	VIL	LAGE MORN	ING	SCF	1001	_														
001 BF	RW			G	10/10/2002	2	4	6	L	L	Μ	L	Μ	L	н	Η	Μ	Μ	L		L		
EPAID 01	196020	System Name:			101 PLAZA																		
	RW			G	10/28/2002	3	3	6	L	L	L	Μ	Н	L	н	H	Μ	L	L		Μ		
EPAID 01	196090	System Name:	35	5 C (ONSTITUTION	I LLC	;																
	RW			G	10/30/2000	4	3	5	Н	L	L	Μ	Μ	L	н	Н	Μ	L	L		н		
EPAID 01	196100	System Name:	32	2 C	ONSTITUTIO		· · · · ·																

<u>v</u>				Da	Nur Vuln	nber erab			S	usc	eptik	oilit	y Ra	ank	ing	Cri	teri	a		
ource		Source Desc	cription	te Ass Comp		nkin			W		High	Pe	~	Urbar	Ag L			Dry	Sani	Tronhic
Source Number			cription Source Type	Date Assessment Completed	Highs	Mediums	Lows	Detects	Well/Intake	KCSs	Highways/RRs	Pesticides	Septics	Urban Land Cover	Ag Land Cover	Animals	Lagoons	Dry discharges	Sanitary radius	nhic status
001	BRW		G	7/5/2000	5	3	4	L	н	HN	/ M	L	Н	Н	Μ	L	L		н	
EPAID	0196170 System Name: PINE TREE PLACE CONDOMINIUMS																			
001	BRW		G	8/16/2001	2	4	6	L	L	LN		L	Μ	Н	Μ	L	L		Μ	
002	BRW		G	8/16/2001	2	4	6	L	L	LN	И Н	L	Μ	Н	Μ	L	L		М	
EPAID	0196180	BEDFORD VILLAGE SHOPS																		
001			G		5	3	4	Н		HN		L	Μ	Н	Μ	L	L		H	
002	BRW		G	9/5/2001	5	3	4	Η	L	HN	1 H	L	Μ	Η	Μ	L	L		Н	
EPAID	0196190	System Name:		AINBRIDGE P									1							
001	BRW		G	7/5/2000	5	2	5	L	L	HN	/ H	L	Н	Н	Μ	L	L		H	
EPAID	0196210	System Name:		HORNE 101 L	LC]									
001	BRW		G	8/10/2001	4	2	6	L	H	LN	И Н	L	Μ	L	Η	L	L		H	
EPAID	0196240	System Name:		FOXWOOD																
001	BRW		G	1/24/2002	5	2	5	Η	H	LN	/ M	L	Н	Н	L	L	L		H	
EPAID	0196250	System Name:	EAST	POINT PROP	ERTI	ES														
001	BRW		G	7/5/2000	5	2	5	L	L	H	И Н	L	Н	Μ	Η	L	L		Н	
EPAID	0196260	System Name:	E	NVIRO TOTE	INC															
001	BRW		G	10/5/1999	4	2	6	L	L	LN	И Н	L	Н	Н	Η	L	L		Μ	
EPAID	0196270	System Name:	BEDFORD A	REA WORK C	ENTE	ER /F	PSNF	1												
001	BRW		G	2/6/2002	4	2	6	L	L	LN	1 Н	L	Н	Н	Н	L	L		Μ	
EPAID	0196280 System Name: MORTGAGE PARTNERS										7									
001	BRW		G	9/1/2006	3	2	6	L	L	LN	И Н	L	Μ	L	Η	L			H	
EPAID	0196290	System Name:	EXPE	RT SERVER	GROL	JP					7									
001	BRW		G	11/4/2005	3	3	6	L	L	M	И Н	L	Н	Μ	L	L	L		H	

S			Date C	Number of Vulnerability			(Sus	сер	eptibility Ranking Criteria										
Source	Source Description	Source	te Assessm Completed		nkin		_	W			High	2	0	Urbar			Dry o	Sanit	Trophic	
Number		е Туре	Assessment	Highs	Mediums	Lows	Detects	Well/Intake	KCSs	PCSs	Highways/RRs	setinidae	Septics	Urban Land Cover	Animals	Lagoons	Dry discharges	Sanitary radius	ohic status	
EPAID 0196310	96310 System Name: FRENCH ATWOOD MARKETPLACE																			
001 BRW		G	9/1/2006	2	2	8	L	L	L	Μ	ΗI	-	LI	H	/ L	L		L		
EPAID 0197040	040 System Name: RILEY FIELD COMPLEX																			
001 BRW		G	8/1/2000	2	1	9	L	L	L	L	LI	_	ΗI	H	. L	L		Μ		
EPAID 0197050	System Name: BE	DFORD Y		ORM	ING	CO														
001 BRW		G	10/12/2006	1	3	8	L	L	L	Μ	ΗI	-	LI	M I	. L	L		Μ		
EPAID 0198110	System Name:	THE BED		AGE	INN															
001 BRW	<u>_</u>	G	6/7/2000	4	3	5	L	Н	L	Μ	ΗI	-	ΗI	H	/ L	L		Μ		
002 BRW		G	6/7/2000	4	3	5	L	Н	L	Μ	ΗI	-	ΗI	H	/ L	L		Μ		
EPAID 0199030	99030 System Name: BEDFORD PRESBYTERIAN CHURCH																			
001 BRW		G	10/1/2001	5	2	5	L	Н	L	Μ	M	-	ΗI	H	I L	L		Η		

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. 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 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 500 ft of surface water. L (for transient sources) = no septic systems or sewer lines within 500 ft of well, and fewer than 30 septic systems or sewer lines 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 sever 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