

PHELPS ENGINEERING, INC.
TOWN OF WAITSFIELD
Waitsfield, Vermont

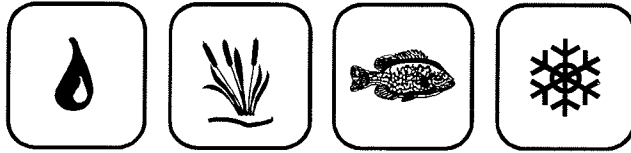
SOURCE EVALUATION REPORT: WELL R-1

March 22, 2007



PIONEER ENVIRONMENTAL ASSOCIATES, LLC.
CONSULTING SCIENTISTS

PIONEER ENVIRONMENTAL ASSOCIATES, LLC.



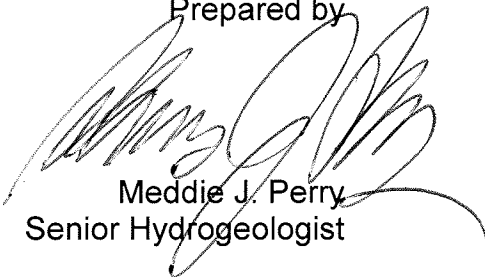
48 Green Street Suite 2, P.O. Box 354
Vergennes, Vermont 05491
Phone: 802-877-1380
Fax: 802-877-1385
email: info@pioneere.com
Website: www.pioneere.com

CONSULTING SCIENTISTS

PHELPS ENGINEERING, INC.
TOWN OF WAITSFIELD
Waitsfield, Vermont

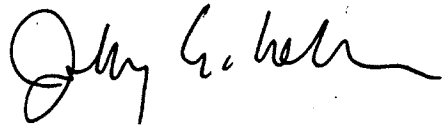
SOURCE EVALUATION REPORT: WELL R-1

Prepared by



Meddie J. Perry
Senior Hydrogeologist

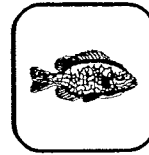
Reviewed by



Jeffrey A. Nelson
Principal/Hydrogeologist

March 22, 2007

PIONEER ENVIRONMENTAL ASSOCIATES, LLC.



48 Green Street Suite 2 P.O. Box 354
Vergennes, Vermont 05491
Phone: 802-877-1380
Fax: 802-877-1385
email: info@pioneere.com
Website: www.pioneere.com

CONSULTING SCIENTISTS

PHELPS ENGINEERING, INC. TOWN OF WAITSFIELD Waitsfield, Vermont

SOURCE EVALUATION REPORT: WELL R-1

TABLE OF CONTENTS

1.0	INTRODUCTION	1
2.0	HYDROGEOLOGIC SETTING	2
2.1	Well Details	3
3.0	SOURCE TESTING	4
3.1	Step Test.....	5
3.2	Background Monitoring	6
3.3	Constant Discharge Test	6
3.4	Recovery Monitoring	7
3.5	Yield Calculations.....	7
3.5.1	Hydraulic Base	8
3.5.2	Static Level and Total Available Head	8
3.5.3	Yield Calculation #1 – Cooper-Jacob method, drawdown data	8
3.5.4	Yield Calculation #2 – Cooper-Jacob method, Recovery Data	9
3.5.5	Yield Calculation #3 – B-Plot method	9
3.5.6	Yield Calculation #4 – Sen method.....	9
3.6	Stand – Alone Yield.....	10
3.7	Interference – Limited Yield	11
4.0	INTERFERENCE	11
4.1	Monitored Wells	12
4.2	Non-Monitored Wells	20
4.3	Static Level Trends	21
5.0	WATER QUALITY ANALYSIS.....	22
5.1	Groundwater Under the Direct Influence of Surface Water	23
6.0	GROUNDWATER AGE ANALYSIS	23
7.0	SOURCE PROTECTION.....	24
7.1	Wellhead Protection Area	25
7.2	Source Isolation Zone Reduction	27
7.3	Public Notice	28
8.0	CONCLUSIONS.....	29
	REFERENCES.....	30

TABLE OF APPENDICES

- Appendix 1: Location Map, Well Completion Reports, Well ID Sheets, MPA Exemption Form
- Appendix 2: Production Well Data, Yield Calculations, Age Determination, WHPA Delineation
- Appendix 3: Observation Well Data, Maps, Interference Calculations
- Appendix 4: Water Quality Results