

APPENDIX A

**Important Information and
Limitations of This Report**



IMPORTANT INFORMATION AND LIMITATIONS OF THIS REPORT

Standard of Care: Golder Associates Ltd. (Golder) has prepared this report in a manner consistent with that level of care and skill ordinarily exercised by members of the engineering and science professions currently practising under similar conditions in the jurisdiction in which the services are provided, subject to the time limits and physical constraints applicable to this report. No other warranty, expressed or implied is made.

Basis and Use of the Report: This report has been prepared for the specific site, design objective, development and purpose described to Golder by the Client. The factual data, interpretations and recommendations pertain to a specific project as described in this report and are not applicable to any other project or site location. Any change of site conditions, purpose, development plans or if the project is not initiated within eighteen months of the date of the report may alter the validity of the report. Golder cannot be responsible for use of this report, or portions thereof, unless Golder is requested to review and, if necessary, revise the report.

The information, recommendations and opinions expressed in this report are for the sole benefit of the Client. No other party may use or rely on this report or any portion thereof without Golder's express written consent. If the report was prepared to be included for a specific permit application process, then upon the reasonable request of the client, Golder may authorize in writing the use of this report by the regulatory agency as an Approved User for the specific and identified purpose of the applicable permit review process. Any other use of this report by others is prohibited and is without responsibility to Golder. The report, all plans, data, drawings and other documents as well as all electronic media prepared by Golder are considered its professional work product and shall remain the copyright property of Golder, who authorizes only the Client and Approved Users to make copies of the report, but only in such quantities as are reasonably necessary for the use of the report by those parties. The Client and Approved Users may not give, lend, sell, or otherwise make available the report or any portion thereof to any other party without the express written permission of Golder. The Client acknowledges that electronic media is susceptible to unauthorized modification, deterioration and incompatibility and therefore the Client can not rely upon the electronic media versions of Golder's report or other work products.

The report is of a summary nature and is not intended to stand alone without reference to the instructions given to Golder by the Client, communications between Golder and the Client, and to any other reports prepared by Golder for the Client relative to the specific site described in the report. In order to properly understand the suggestions, recommendations and opinions expressed in this report, reference must be made to the whole of the report. Golder can not be responsible for use of portions of the report without reference to the entire report.

Unless otherwise stated, the suggestions, recommendations and opinions given in this report are intended only for the guidance of the Client in the design of the specific project. The extent and detail of investigations, including the number of test holes, necessary to determine all of the relevant conditions which may affect construction costs would normally be greater than has been carried out for design purposes. Contractors bidding on, or undertaking the work, should rely on their own investigations, as well as their own interpretations of the factual data presented in the report, as to how subsurface conditions may affect their work, including but not limited to proposed construction techniques, schedule, safety and equipment capabilities.

Soil, Rock and Ground Water Conditions: Classification and identification of soils, rocks, and geologic units have been based on commonly accepted methods employed in the practice of geotechnical engineering and related disciplines. Classification and identification of the type and condition of these materials or units involves judgment, and boundaries between different soil, rock or geologic types or units may be transitional rather than abrupt. Accordingly, Golder does not warrant or guarantee the exactness of the descriptions.

Special risks occur whenever engineering or related disciplines are applied to identify subsurface conditions and even a comprehensive investigation, sampling and testing program may fail to detect all or certain subsurface conditions. The environmental, geologic, geotechnical, geochemical and hydrogeologic conditions that Golder interprets to exist between and beyond sampling points may differ from those that actually exist. In addition to soil variability, fill of variable physical and chemical composition can be present over portions of the site or on adjacent properties. The professional services retained for this project include only the geotechnical aspects of the subsurface conditions at the site, unless otherwise specifically stated and identified in the report. The presence or implication(s) of possible surface and/or subsurface contamination resulting from previous activities or uses of the site and/or resulting from the introduction onto the site of materials from off-site sources are outside the terms of reference for this project and have not been investigated or addressed.

Soil and groundwater conditions shown in the factual data and described in the report are the observed conditions at the time of their determination or measurement. Unless otherwise noted, those conditions form the basis of the recommendations in the report. Groundwater conditions may vary between and beyond reported locations and can be affected by annual, seasonal and meteorological conditions. The condition of the soil, rock and groundwater may be significantly altered by construction activities (traffic, excavation, groundwater level lowering, pile driving, blasting, etc.) on the site or on adjacent sites. Excavation may expose the soils to changes due to wetting, drying or frost. Unless otherwise indicated the soil must be protected from these changes during construction.

Sample Disposal: Golder will dispose of all uncontaminated soil and/or rock samples 90 days following issue of this report or, upon written request of the Client, will store uncontaminated samples and materials at the Client's expense. In the event that actual contaminated soils, fills or groundwater are encountered or are inferred to be present, all contaminated samples shall remain the property and responsibility of the Client for proper disposal.

Follow-Up and Construction Services: All details of the design were not known at the time of submission of Golder's report. Golder should be retained to review the final design, project plans and documents prior to construction, to confirm that they are consistent with the intent of Golder's report.

During construction, Golder should be retained to perform sufficient and timely observations of encountered conditions to confirm and document that the subsurface conditions do not materially differ from those interpreted conditions considered in the preparation of Golder's report and to confirm and document that construction activities do not adversely affect the suggestions, recommendations and opinions contained in Golder's report. Adequate field review, observation and testing during construction are necessary for Golder to be able to provide letters of assurance, in accordance with the requirements of many regulatory authorities. In cases where this recommendation is not followed, Golder's responsibility is limited to interpreting accurately the information encountered at the borehole locations, at the time of their initial determination or measurement during the preparation of the Report.

Changed Conditions and Drainage: Where conditions encountered at the site differ significantly from those anticipated in this report, either due to natural variability of subsurface conditions or construction activities, it is a condition of this report that Golder be notified of any changes and be provided with an opportunity to review or revise the recommendations within this report. Recognition of changed soil and rock conditions requires experience and it is recommended that Golder be employed to visit the site with sufficient frequency to detect if conditions have changed significantly.

Drainage of subsurface water is commonly required either for temporary or permanent installations for the project. Improper design or construction of drainage or dewatering can have serious consequences. Golder takes no responsibility for the effects of drainage unless specifically involved in the detailed design and construction monitoring of the system.

APPENDIX B

**MECP Water Well and PTTW
Records**

Table B1 - Summary of Water Well Records - Kennedy Road from Major Mackenzie Drive East to Steeles Avenue East

WELL ID	CON #	LOT #	COMPLETED	EASTING	NORTHING	ELEVATION (masl)	WATER FOUND (m bgs)	WATER KIND	CASING DIAM.(cm)	SCRN TOP (mbgs)	STATIC LEVEL (mbgs)	METHOD	STATUS	USE	DEPTH (mbgs)
6903407	5	1	7-Jun-1958	635676.7	4853737.0	192.7	21.336	FRESH	2	21.3	11.6	Jetting	Water Supply	Commerical	23.8
6903409	5	1	4-May-1962	636555.8	4854198.0	201.9	47.8536	FRESH	5	45.4	31.7	Cable Tool	Water Supply	Domestic	47.9
6903410	5	1	8-Aug-1965	636563.8	4853913.0	198.3	7.62	FRESH	30		4.6	Boring	Water Supply	Domestic	9.1
6903412	5	2	12-Jun-1957	636508.8	4854422.0	200.9	10.668	FRESH	36		4.6	Boring	Water Supply	Commerical	14.3
6903413	5	2	8-Sep-1960	635720.7	4854138.0	197.4	7.3152	FRESH	34		6.1	Boring	Water Supply	Livestock	12.2
6903422	5	5	2-Nov-1956	636139.7	4855839.0	203.2	10.0584	FRESH	24		0	Boring	Water Supply	Domestic	10.4
6903423	5	5	5-Nov-1956	636119.7	4855820.9	203.5	12.4968	FRESH	36		4.6	Boring	Water Supply	Domestic	13.1
6903424	5	5	4-Jun-1962	636200.7	4855768.1	204.5			30		0	Boring	Abandoned-Supply		22.9
6903425	5	5	30-Jun-1962	636224.7	4855833.0	203.6	48.1584	FRESH	5	48.2	32.9	Cable Tool	Water Supply	Domestic	51.8
6903433	5	9	3-Nov-1964	635761.8	4857341.0	175.0	13.716	FRESH	30		2.4	Boring	Water Supply	Livestock	14
6903448	5	10	2-Aug-1966	635763.8	4857417.0	174.1	3.6576	FRESH	34		1.5	Boring	Water Supply	Commerical	6.4
6903511	5	14	28-Aug-1961	635497.8	4859362.0	180.6	9.144	FRESH	34		4.3	Boring	Water Supply	Domestic	10.7
6903516	5	14	18-Aug-1964	635535.8	4859189.0	178.9	10.3632	FRESH	34		4.9	Boring	Water Supply	Domestic	12.2
6903523	5	16	2-Feb-1955	635328.8	4860256.0	194.7	5.1816	FRESH	6		0	Cable Tool	Water Supply	Domestic	5.2
6903525	5	16	30-Oct-1954	635390.8	4859987.0	186.0	11.2776	FRESH	4		0	Cable Tool	Water Supply	Domestic	11.3
6903528	5	17	6-Sep-1961	635313.8	4860366.0	200.7	5.7912	FRESH	34		1.2	Boring	Water Supply	Domestic	6.4
6903541	5	19	22-Dec-1959	634817.7	4861336.0	202.3	4.2672	FRESH	30		3	Boring	Water Supply	Livestock	8.2
6903546	5	19	23-Dec-1963	635037.7	4861317.0	205.3	4.2672	FRESH	34		4.3	Boring	Water Supply	Domestic	11
6903637	6	4	3-Mar-1960	636547.8	4855279.1	202.1	14.6304	FRESH	30		14	Boring	Water Supply	Industrial	18.3
6903638	6	4	5-Sep-1960	636407.7	4855329.0	202.0	12.8016	FRESH	34		6.1	Boring	Water Supply	Domestic	15.8
6903639	6	4	18-Jan-1967	636453.8	4855339.0	202.4	48.768	FRESH	6	49.4	32	Cable Tool	Water Supply	Domestic	50.9
6903640	6	4	24-Jan-1967	636681.8	4855064.0	200.0	53.6448	FRESH	5	53.6	33.5	Cable Tool	Water Supply	Domestic	54.9
6903641	6	4	5-Jan-1967	636807.8	4855561.0	204.0	6.096	FRESH	30		6.1	Boring	Water Supply	Domestic	14.3
6903642	6	5	13-May-1956	636296.7	4855849.0	204.3	19.5072	FRESH	6		7.3	Cable Tool	Water Supply	Commerical	19.5
6903643	6	5	21-Oct-1956	636316.7	4855880.0	204.3	53.9496	FRESH	4	53.9	27.4	Cable Tool	Water Supply	Domestic	54.9
6903646	6	5	28-Sep-1959	636731.8	4855825.0	204.6	7.9248	FRESH	30		5.5	Boring	Water Supply	Domestic	9.1
6903647	6	5	12-Oct-1959	636694.8	4855763.0	204.8	13.716	FRESH	30		13.7	Boring	Water Supply	Domestic	15.5
6903648	6	5	24-Oct-1959	636294.7	4855848.0	204.3	18.288	FRESH	30		7.9	Boring	Water Supply	Domestic	20.1
6903649	6	5	24-Jun-1960	636323.7	4855734.0	204.9	40.5384	FRESH	6	39.3	31.7	Cable Tool	Water Supply	Commerical	40.5
6903650	6	5	8-Jul-1960	636702.8	4855730.0	204.3	7.62	FRESH	34		4.6	Boring	Water Supply	Domestic	11.3
6903651	6	5	15-Jul-1960	636685.8	4855787.0	204.8	9.7536	FRESH	34		9.8	Boring	Water Supply	Domestic	12.2
6903653	6	5	29-Jun-1961	636699.8	4856001.0	204.9	19.5072	FRESH	34		15.2	Boring	Water Supply	Domestic	21.3
6903657	6	5	12-Jun-1963	636372.8	4855909.0	204.8	11.5824	FRESH	34		5.5	Boring	Water Supply	Domestic	13.1
6903658	6	5	23-Jun-1963	636371.8	4855908.0	204.8	12.192	FRESH	34		2.4	Boring	Water Supply	Domestic	13.1
6903659	6	5	6-Jul-1963	636349.8	4855889.0	204.5	7.62	FRESH	34		3.7	Boring	Water Supply	Domestic	11.3
6903660	6	5	15-Aug-1963	636702.8	4855728.0	204.3	49.6824	FRESH	4	50.0	37.5	Cable Tool	Water Supply	Domestic	51.2
6903661	6	5	13-May-1964	636645.8	4855981.0	205.0	4.572	FRESH	34		4.6	Boring	Water Supply	Domestic	13.7
6903662	6	5	16-May-1964	6367119.8	4855956.0	204.1	10.668	FRESH	34		4.9	Boring	Water Supply	Domestic	12.8
6903663	6	5	11-Sep-1964	636756.8	4855807.0	204.6	10.668	FRESH	30		6.1	Boring	Water Supply	Domestic	12.2
6903664	6	5	21-May-1965	636600.8	4855979.0	205.7	12.192	FRESH	34		6.1	Boring	Water Supply	Domestic	14.3
6903665	6	5	27-Jun-1965	636711.8	4856021.0	205.2	14.3256	FRESH	34		0	Boring	Water Supply	Domestic	14.3
6903666	6	5	27-Jul-1965	636438.8	4855733.0	205.8	10.668	FRESH	34		4.6	Boring	Water Supply	Domestic	13.7
6903668	6	5	27-May-1966	636803.8	4855618.0	204.5	9.144	FRESH	30		3.7	Boring	Water Supply	Domestic	10.7
6903670	6	5	28-May-1966	636453.8	4855693.0	205.5	11.5824	FRESH	34		2.4	Boring	Water Supply	Domestic	13.7
6903675	6	5	5-Aug-1966	636765.8	4855887.0	203.9	10.668	FRESH	30		3.7	Boring	Water Supply	Domestic	13.7

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6903676	6	5	19-Aug-1966	636802.8	4855621.0	204.6	6.096	FRESH	34		3	Boring	Water Supply	Domestic	14.3
6903677	6	5	27-Sep-1966	636420.7	4855693.0	205.5	9.144	FRESH	34		4.3	Boring	Water Supply	Domestic	14
6903680	6	5	18-May-1967	636675.8	4855998.0	205.0	9.144	SULPHUR	34		3.7	Boring	Water Supply	Domestic	13.4
6903684	6	6	14-Jul-1960	636678.8	4856120.0	205.1	12.8016	FRESH	34		11	Boring	Water Supply	Domestic	15.2
6903687	6	6	20-Apr-1962	636613.8	4856083.0	205.2	6.4008	FRESH	30		3.7	Boring	Water Supply	Domestic	13.7
6903690	6	6	22-Aug-1964	636329.8	4855935.0	204.6			34		0	Boring	Abandoned-Supply		13.7
6903691	6	6	4-Sep-1964	636471.8	4855991.0	205.6	59.436	FRESH	5	59.7	35.7	Cable Tool	Water Supply	Domestic	61
6903699	6	8	6-Aug-1957	636344.8	4857098.0	176.4	17.0688	FRESH	2	16.8	8.5	Jetting	Water Supply	Domestic	18.3
6903700	6	8	12-Apr-1958	636315.8	4857020.0	176.9	29.5656	FRESH	2	29.3	19.5	Jetting	Water Supply	Domestic	30.8
6903701	6	8	15-Sep-1960	636088.8	4856892.0	176.8	6.096	FRESH	34		5.5	Boring	Water Supply	Industrial	7.3
6903703	6	8	4-Nov-1960	636545.8	4857150.1	176.9	7.9248	FRESH	34		3	Boring	Water Supply	Domestic	8.5
6903704	6	8	25-Feb-1961	636146.8	4856704.0	178.5	16.4592	FRESH	5		4.9	Cable Tool	Water Supply	Irrigation	16.5
6903706	6	8	24-Sep-1963	636280.8	4857084.9	176.5	4.2672	FRESH	34		4.3	Boring	Water Supply	Domestic	8.2
6903708	6	8	11-Jul-1964	636315.8	4857129.0	176.2	7.3152	FRESH	34		3.7	Boring	Water Supply	Domestic	7.6
6903709	6	8	17-Nov-1964	636315.8	4857129.0	176.2	4.8768	FRESH	30		4.9	Boring	Water Supply	Irrigation	9.1
6903710	6	9	1-May-1957	635977.8	4857376.0	175.2	10.0584	FRESH	2	9.8	4.3	Jetting	Water Supply	Domestic	11.3
6903711	6	9	23-Oct-1958	635981.8	4857345.0	175.5	13.1064	FRESH	2	13.1	2.1	Jetting	Water Supply	Domestic	14.6
6903718	6	10	6-Jun-1959	636344.8	4857892.9	178.9	10.668	FRESH	30		3.7	Boring	Water Supply	Domestic	10.7
6903722	6	10	7-Jul-1960	636703.8	4858086.0	174.3	6.4008	FRESH	30		4.3	Boring	Water Supply	Domestic	7
6903734	6	10	21-Aug-1963	636531.8	4858077.0	174.5			5		0	Cable Tool	Abandoned-Supply		28
6903735	6	10	28-Aug-1963	636530.8	4858076.0	174.5	6.096	FRESH	34		5.5	Boring	Water Supply	Domestic	9.1
6903737	6	10	19-Nov-1963	636526.8	4858076.0	174.6	7.3152	FRESH	34		2.4	Boring	Water Supply	Domestic	8.2
6903747	6	10	8-Oct-1966	636383.8	4858002.0	176.0	20.4216	FRESH	5	20.4	3.4	Cable Tool	Water Supply	Commerical	22.9
6903749	6	10	17-Aug-1967	636165.8	4857912.1	175.6	4.572	FRESH	30		1.5	Boring	Water Supply	Commerical	9.8
6903752	6	11	19-Feb-1965	636516.8	4858115.0	171.2	18.8976	FRESH	5		5.5	Cable Tool	Water Supply	Domestic	21.3
6903753	6	11	20-Apr-1957	635888.8	4858112.0	175.5	7.62	FRESH	36		2.1	Boring	Water Supply	Domestic	7.6
6903754	6	11	16-May-1961	636322.8	4858123.1	174.8	6.7056	FRESH	30		5.5	Boring	Water Supply	Domestic	8.5
6903755	6	11	6-Jun-1962	636293.8	4858058.0	175.5	12.8016	FRESH	2		0	Jetting	Water Supply	Domestic	21.3
6903756	6	11	18-Oct-1962	635873.8	4858186.0	175.8	12.192	FRESH	2	11.9	3	Jetting	Water Supply	Domestic	13.4
6903757	6	11	14-Nov-1962	635931.8	4858177.0	175.2			2		0	Jetting	Abandoned-Supply		21.3
6903758	6	11	4-May-1963	636289.8	4858173.0	174.3	17.3736	FRESH	2	17.4	5.5	Jetting	Water Supply	Domestic	18.9
6903759	6	11	5-Nov-1963	636345.8	4858130.0	175.0	24.0792	FRESH	2	23.8	8.2	Boring	Water Supply	Domestic	25.3
6903761	6	11	8-Apr-1964	636456.8	4858280.0	170.1	22.5552	FRESH	2	22.6	-0.6	Cable Tool	Test Hole	Not Used	35.1
6903762	6	11	16-Apr-1964	636408.8	4858301.0	170.9	22.2504	FRESH	2	22.3	-6.7	Cable Tool	Test Hole	Irrigation	35.1
6903763	6	11	1-May-1964	636376.8	4858326.9	170.5	12.192	FRESH	2	22.3	-6.7	Cable Tool	Test Hole	Not Used	33.2
6903764	6	11	12-May-1964	636323.8	4858123.0	174.9	9.144	FRESH	5	15.8	-0.6	Cable Tool	Test Hole	Not Used	27.4
6903765	6	11	18-May-1964	636384.8	4858119.0	174.0			7		0	Cable Tool	Test Hole		27.4
6903766	6	11	27-May-1964	636357.8	4858181.0	173.8	9.7536	FRESH	2	9.8	-1.8	Cable Tool	Test Hole		27.4
6903768	6	11	15-Feb-1967	636362.8	4858201.0	172.6	9.7536	FRESH	10	9.8	-0.6	Cable Tool	Water Supply	Municipal	16.2
6903769	6	11	7-Mar-1967	636373.8	4858177.0	173.1	13.1064	FRESH	5		4.3	Cable Tool	Water Supply	Domestic	13.1
6903770	6	12	3-Apr-1950	636567.8	4858896.0	179.3		FRESH	2		0	Jetting	Water Supply	Domestic	26.8
6903771	6	12	15-Jun-1953	635816.8	4858337.0	173.4	9.144	FRESH	4		1.2	Cable Tool	Water Supply	Domestic	12.8
6903772	6	12	3-Nov-1954	636011.8	4858480.0	172.6	12.192	FRESH	6		0	Cable Tool	Water Supply	Domestic	12.2
6903773	6	12	20-Sep-1955	636059.8	4858315.0	170.9			6		0	Rotary (Convent.)	Test Hole		22.9
6903774	6	12	26-Apr-1962	636158.8	4858414.0	172.1	22.5552	FRESH	2	20.1	0	Cable Tool	Test Hole	Not Used	34.1

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WELL ID	CON #	LOT #	COMPLETED	EASTING	NORTHING	ELEVATION (masl)	WATER FOUND (m bgs)	WATER KIND	CASING DIAM.(cm)	SCRN TOP (mbgs)	STATIC LEVEL (mbgs)	METHOD	STATUS	USE	DEPTH (mbgs)
6903775	6	12	1-May-1962	636312.8	4858457.0	176.4	24.9936	FRESH	2	25.0	0	Cable Tool	Water Supply	Irrigation	37.8
6903776	6	12	9-May-1962	636392.8	4858472.9	175.4	24.384	FRESH	3	23.2	4	Rotary (Convent.)	Test Hole	Not Used	30.5
6903777	6	12	15-May-1962	636634.8	4858536.0	174.5	28.0416	FRESH	2	28.7	-3.7	Rotary (Convent.)	Test Hole	Not Used	42.7
6903779	6	12	26-Sep-1963	635952.8	4858397.0	175.0	3.048	FRESH	34		4.9	Boring	Water Supply	Domestic	6.1
6903780	6	12	16-Dec-1962	635798.8	4858336.0	173.6	3.6576	FRESH	34		2.1	Boring	Water Supply	Domestic	4.3
6903781	6	12	28-Nov-1963	635874.8	4858185.0	175.8	14.9352	FRESH	2	14.6	2.1	Jetting	Water Supply	Domestic	16.2
6903782	6	12	20-Dec-1964	636366.8	4858598.0	176.7	23.4696	FRESH	10	22.6	0	Cable Tool	Water Supply	Municipal	30.5
6903783	6	12	22-Dec-1964	636383.8	4858863.0	181.7	15.5448	FRESH	34		3	Boring	Water Supply	Domestic	15.8
6903785	6	13	25-Apr-1961	635742.8	4858732.0	173.9	10.0584	FRESH	1	21.9	-1.2	Cable Tool	Test Hole	Not Used	26.5
6903786	6	13	25-Apr-1961	635717.8	4858771.0	174.1	10.0584	FRESH	1	10.1	-0.9	Rotary (Convent.)	Test Hole	Not Used	16.5
6903787	6	13	22-Jun-1962	635588.8	4859153.1	179.1	15.24	FRESH	2		0	Jetting	Water Supply	Domestic	15.8
6903788	6	13	18-Jul-1967	635701.8	4858834.0	175.0	8.5344	FRESH	30		0	Boring	Water Supply	Public	8.8
6903789	6	14	10-Jun-1960	636239.8	4859523.1	180.6	7.3152	FRESH	2	58.8	0	Rotary (Convent.)	Test Hole	Irrigation	67.1
6903790	6	14	25-Jun-1960	636159.8	4859483.0	182.2	0.9144	FRESH	5	15.8	-1.2	Cable Tool	Test Hole	Not Used	26.2
6903791	6	14	23-Jun-1960	635964.8	4859378.0	185.1	13.1064	FRESH	1	38.7	1.8	Rotary (Convent.)	Test Hole	Not Used	65.5
6903792	6	14	14-Jul-1960	635694.8	4859273.0	181.1	7.62	FRESH	6		0	Rotary (Convent.)	Test Hole	Not Used	61
6903793	6	14	22-Jul-1960	635994.8	4859423.0	185.0	14.3256	FRESH	4	33.8	1.8	Rotary (Convent.)	Test Hole	Not Used	62.5
6903796	6	14	23-Jul-1966	635581.8	4859182.0	179.5	6.4008	FRESH	30		0.6	Boring	Water Supply	Domestic	7.9
6903798	6	16	16-Aug-1963	635444.7	4860478.0	199.9	17.6784	FRESH	5	17.7	4.9	Cable Tool	Water Supply	Livestock and Domestic	18.9
6903810	6	18	21-Apr-1964	635689.7	4861041.1	204.2	12.4968	FRESH	6		0	Cable Tool	Water Supply	Domestic	12.8
6903811	6	18	26-Jun-1964	635457.7	4860962.0	196.9	13.716	FRESH	6	13.7	0	Cable Tool	Water Supply	Domestic	14.9
6903812	6	18	30-Jul-1965	635437.7	4860992.0	197.0	6.096	FRESH	34		0	Boring	Water Supply	Domestic	7.3
6903814	5	18	31-Aug-1965	635120.7	4860921.0	196.1			6		0	Rotary (Convent.)	Test Hole		46.3
6903815	6	20	6-Sep-1962	635384.7	4861780.0	211.2	6.096	FRESH	34		5.5	Boring	Water Supply	Livestock and Domestic	8.8
6903817	6	21	17-Nov-1961	635230.7	4862020.0	212.3	3.6576	FRESH	34		0.9	Boring	Water Supply	Domestic	4.9
6903818	6	21	18-Nov-1961	635307.7	4862039.1	215.4	6.096	FRESH	34		3	Boring	Water Supply	Domestic	6.4
6903819	6	21	16-Jun-1962	635115.7	4862128.0	209.9	3.048	FRESH	34		3	Boring	Water Supply	Livestock and Domestic	7.9
6903820	6	21	19-Jun-1963	635101.7	4861955.0	206.8	6.7056	FRESH	34		4.9	Boring	Water Supply	Domestic	10.1
6905426	5	27	12-Oct-1960	636585.8	4853783.0	196.8	47.8536	FRESH	5	45.4	26.5	Cable Tool	Water Supply	Industrial	47.9
6908650	5	28	22-Apr-1967	636354.7	4853602.9	194.3	7.62	FRESH	34		1.5	Boring	Water Supply	Industrial	11.3
6908788	6	5	10-Sep-1968	636604.8	4855933.0	205.1	45.1104	FRESH	5	46.3	35.1	Cable Tool	Water Supply	Domestic	48.8
6908792	5	16	30-Aug-1968	635104.8	4859863.0	177.9			6		0	Cable Tool	Abandoned-Supply		41.1
6908809	5	1	18-Oct-1968	636454.8	4853833.0	197.4	3.3528	FRESH	34		2.4	Boring	Water Supply	Domestic	11.3
6909161	6	11	24-May-1969	636564.8	4858173.0	168.9	17.6784	FRESH	6	16.8	5.5	Cable Tool	Water Supply	Commerical	17.7
6909444	5	17	7-Jun-1969	634894.8	4860253.1	183.7	15.8496	FRESH	7	17.1	3.7	Cable Tool	Test Hole	Not Used	22.3
6909455	6	10	28-Jul-1969	636474.8	4857902.9	178.6	18.288	FRESH	6	18.3	6.1	Cable Tool	Water Supply	Domestic	22.3
6909709	6	13	14-Jul-1969	635714.8	4858993.0	178.9	7.62	FRESH	34		0	Boring	Water Supply	Domestic	8.2
6909716	6	13	20-Feb-1969	635654.8	4858943.0	176.3	7.0104	FRESH	34		2.4	Boring	Water Supply	Domestic	7.6
6909719	6	5	20-Apr-1969	636474.8	4855683.0	205.3	4.572	FRESH	34		7.6	Boring	Water Supply	Domestic	13.7
6909949	6	11	17-Jun-1970	636394.8	4858133.0	173.1	13.4112	FRESH	5	13.4	9.1	Cable Tool	Water Supply	Domestic	14.6
6909954	6	11	15-Jun-1970	636344.8	4859193.0	182.2	15.24	FRESH	5	15.5	8.5	Cable Tool	Water Supply	Domestic	16.8
6909957	6	4	28-May-1970	636374.7	4855422.9	202.9	8.5344	FRESH	30		2.4	Boring	Water Supply	Domestic	10.7
6910161	5	4	23-Jul-1970	636354.7	4855273.0	201.7	47.244	FRESH	5	48.2	30.8	Cable Tool	Water Supply	Domestic	49.4
6910164	6	11	23-Nov-1970	636264.8	4858223.0	173.8	15.24	FRESH	6	15.2	1.2	Cable Tool	Water Supply	Domestic	17.7
6910166	6	11	10-Jul-1970	636194.8	4858023.0	175.5	23.4696	Not stated	5	23.5	5.2	Cable Tool	Water Supply	Domestic	25.9

Table B1 - Summary of Water Well Records - Kennedy Road from Major Mackenzie Drive East to Steeles Avenue East

WELL ID	CON #	LOT #	COMPLETED	EASTING	NORTHING	ELEVATION (masl)	WATER FOUND (m bgs)	WATER KIND	CASING DIAM.(cm)	SCRN TOP (mbgs)	STATIC LEVEL (mbgs)	METHOD	STATUS	USE	DEPTH (mbgs)
6910172	5	16	22-Jun-1970	635324.8	4860223.0	192.1	5.4864	FRESH	34		0	Boring	Water Supply	Domestic	6.7
6910176	6	10	25-May-1970	636394.8	4857883.0	179.2	9.144	FRESH	34		3.7	Boring	Water Supply	Domestic	10.7
6910180	6	13	10-Sep-1970	635814.8	4858853.0	177.7	6.096	FRESH	34		0	Boring	Water Supply	Domestic	7.3
6910182	6	8	28-Oct-1970	636214.8	4856973.0	177.1	8.2296	FRESH	34		3.7	Boring	Water Supply	Domestic	10.4
6910186	5	1	19-Nov-1970	636454.8	4854043.0	200.8	1.524	FRESH	34		4.9	Boring	Water Supply	Domestic	13.7
6910291	6	12	16-Jul-1971	636114.8	4858513.0	173.7	18.288	FRESH	5	15.8	0	Cable Tool	Water Supply	Domestic	18.3
6910455	6	6	28-Jul-1971	636394.8	4855948.0	204.5	49.3776	FRESH	5	50.0	35.1	Cable Tool	Water Supply	Domestic	51.2
6910652	6	6	14-Apr-1971	636352.8	4855933.0	204.4	46.9392	FRESH	5	47.5	36.6	Cable Tool	Water Supply	Domestic	48.8
6910809	6	13	21-Dec-1971	636504.8	4857083.0	177.5	7.0104	FRESH	30		3.7	Boring	Water Supply	Domestic	9.1
6911176	6	12	5-Sep-1972	636174.8	4858543.0	176.1	27.432	FRESH	5	28.3	6.1	Cable Tool	Water Supply	Domestic	29.6
6911355	5	2	25-May-1972	636094.7	4854348.0	200.8	64.008	FRESH	5	64.0	15.8	Cable Tool	Water Supply	Domestic	64.9
6911393	6	4	5-May-1973	636409.7	4855268.0	201.4	53.34	FRESH	5	54.3	29	Cable Tool	Water Supply	Domestic	56.7
6911426	5	9	26-Mar-1973	635964.8	4857218.0	176.7	24.384	FRESH	6	25.6	3.7	Cable Tool	Water Supply	Domestic	26.8
6911430	6	6	19-Feb-1973	636434.8	4855963.0	205.3	51.2064	FRESH	6	53.9	33.5	Rotary (Convent.)	Water Supply	Domestic	53.9
6911439	5	16	10-May-1973	635414.8	4859933.0	185.3			30		3	Boring	Water Supply	Domestic	6.1
6911554	6	8	3-Jul-1973	636564.8	4857123.0	177.0	6.7056	FRESH	30		3	Boring	Water Supply	Domestic	7.9
6911861	5	16	15-Sep-1973	635374.8	4859983.0	185.9	21.336	FRESH	6	21.9	0	Cable Tool	Water Supply	Domestic	22.9
6911865	6	21	15-Aug-1973	635214.7	4861963.0	210.5	5.4864	FRESH	30		4.3	Boring	Water Supply	Domestic	7.9
6911866	6	6	12-Sep-1973	636414.8	4855963.0	205.1	5.4864	FRESH	30		2.4	Boring	Water Supply	Domestic	11
6912300	5	6	27-Jun-1974	636048.7	4855859.1	203.8	44.196	FRESH	6	45.1	32.9	Rotary (Convent.)	Water Supply	Domestic	46.3
6912367	6	5	28-Jan-1974	636516.8	4855888.0	205.1	45.4152	FRESH	6	45.7	9.1	Cable Tool	Water Supply	Domestic	46.6
6912445	6	5	10-Nov-1974	636386.7	4855614.0	204.4	46.3296	FRESH	6	47.9	32	Cable Tool	Water Supply	Commerical	48.8
6912452	5	16	23-Aug-1974	635315.8	4860217.0	191.4	21.0312	FRESH	6	21.6	3.7	Cable Tool	Water Supply	Domestic	22.9
6912497	5	15	20-Dec-1974	635418.8	4859701.0	183.4			6		0	Cable Tool	Abandoned-Supply		100.6
6912887	5	17	15-Aug-1975	635202.7	4860588.0	197.9	21.336	FRESH	6	21.3	8.5	Rotary (Convent.)	Water Supply	Domestic	24.4
6912949	6	21	27-Oct-1975	635068.7	4862056.0	208.2	4.2672	Not stated	6	7.9	4.3	Rotary (Convent.)	Water Supply	Domestic	9.1
6912958	6	21	8-Oct-1975	635359.7	4862164.0	215.5					0	Cable Tool	Abandoned-Supply		61
6913435	6	11	4-Jun-1976	636214.8	4858223.0	174.5	17.6784	FRESH	6	18.3	8.2	Cable Tool	Water Supply	Domestic	19.2
6914160	5	20	21-Jul-1977	634994.7	4861743.0	202.2	4.8768	FRESH	30		3.7	Boring	Water Supply	Domestic	11
6914887	6	10	10-Nov-1978	636094.8	4857743.0	172.4			5	17.4	0	Rotary (Convent.)	Abandoned-Quality		27.7
6914892	5	8	29-Nov-1978	635974.8	4856863.0	177.9	31.3944	FRESH	6	31.1	7	Rotary (Convent.)	Water Supply	Domestic	32
6915257	6	19	9-Nov-1979	635274.7	4861183.0	200.2	8.2296	FRESH	30		3.7	Boring	Water Supply	Domestic	9.1
6915314	5	20	1-Nov-1979	634934.7	4861823.0	199.9	19.812	FRESH	6		1.5	Cable Tool	Water Supply	Domestic	24.4
6915359	6	7	10-Apr-1979	636174.8	4856483.0	183.5	35.3568	FRESH	6		13.7	Cable Tool	Water Supply	Domestic	35.4
6915377	6	20	14-Dec-1979	635554.7	4861663.0	211.2	32.9184	Not stated	6	34.4	11.6	Rotary (Convent.)	Water Supply	Domestic	36.3
6915926	6	18	11-Jun-1981	635314.7	4861022.9	198.4	3.3528	FRESH	30		2.1	Boring	Water Supply	Domestic	8.2
6915952	6	6	16-Nov-1981	636454.8	4856143.0	198.7	48.1584	FRESH	6	50.0	32	Cable Tool	Water Supply	Domestic	50.9
6916014	5	16	13-Aug-1981	635374.8	4860043.0	187.1	11.5824	FRESH	6	13.4	0.3	Cable Tool	Water Supply	Domestic	14.3
6916404	5	16	3-Aug-1982	635354.8	4860023.0	186.4	15.24	FRESH	6	15.5	0.9	Cable Tool	Water Supply	Domestic	16.5
6918617	5	17	26-Jun-1986	635278.0	4860313.0	195.9	35.9664	FRESH	6	36.0	6.1	Rotary (Convent.)	Water Supply	Domestic	38.1
6919191	5	16	6-Aug-1987	635324.0	4860451.0	200.8	20.4216	FRESH	6	20.7	-1.2	Cable Tool	Water Supply	Domestic	21.6
6920043	5	2	3-Dec-1987	635589.7	4854151.0	195.6	46.6344	FRESH	5	46.3	32	Rotary (Convent.)	Water Supply	Domestic	51.8
6920991	6	16	23-Apr-1990	635808.0	4860277.0	204.6	22.86	FRESH	6	28.7	6.7	Rotary (Convent.)	Water Supply	Domestic	29.6
6921321	5	16	23-Nov-1990	635385.0	4859920.0	184.9	35.9664	FRESH	6	35.1	0	Rotary (Air)	Water Supply	Domestic	36.3
6922233	5	21	31-Mar-1993	634820.0	4861858.0	197.4	22.86	FRESH	8	23.5	0	Cable Tool	Test Hole	Irrigation	32

Table B1 - Summary of Water Well Records - Kennedy Road from Major Mackenzie Drive East to Steeles Avenue East

WELL ID	CON #	LOT #	COMPLETED	EASTING	NORTHING	ELEVATION (masl)	WATER FOUND (m bgs)	WATER KIND	CASING DIAM.(cm)	SCRN TOP (mbgs)	STATIC LEVEL (mbgs)	METHOD	STATUS	USE	DEPTH (mbgs)
6922691	6	21	15-Jun-1994	634746.0	4862214.0	209.2	30.48	FRESH	8	32.0	1.8	Rotary (Convent.)	Water Supply	Public	38.7
6922816	5	21	11-Aug-1994	634929.0	4861986.0	203.2	24.0792	FRESH	6	24.1	1.8	Rotary (Convent.)	Water Supply	Domestic	71.6
6923248	6	15	11-May-1995	635482.0	4859797.0	185.6			4		1.2	Not Known	Water Supply	Domestic	10.4
6923480	5	21	7-Dec-1995	634901.0	4862010.0	202.9			24		0	Not Known	Abandoned-Other	Not Used	
6923625	5	21	20-Jun-1996	634870.0	4862249.0	210.1	33.528	FRESH	6	35.4	9.4	Rotary (Convent.)	Water Supply	Irrigation	40.2
6923713	5	19	26-Sep-1996	635015.0	4861470.0	206.8					0	Not Known	Abandoned-Other		
6923714	5	19	26-Sep-1996	635038.0	4861179.0	202.4					0	Not Known	Abandoned-Other		3
6923715	5	19	26-Sep-1996	634979.0	4861462.0	206.4					0	Not Known	Abandoned-Other		
6923811	6	12	13-Nov-1996	635833.0	4858663.0	175.8			30		0	Other Method	Abandoned-Other	Not Used	6.1
6924236	6	18	11-Nov-1997	635267.0	4861523.0	206.0					0	Not Known	Abandoned-Other		
6924243	6	18	11-Nov-1997	635267.0	4861523.0	206.0					0	Not Known	Abandoned-Other		
6924244	6	18	11-Nov-1997	635268.0	4861523.0	206.0					0	Not Known	Abandoned-Other		
6924245	6	18	11-Nov-1997	635268.0	4861523.0	206.0					0	Not Known	Abandoned-Other		
6924816	5	20	15-Feb-1999	634965.0	4861823.0	201.1	44.5008	FRESH	6		3.7	Cable Tool	Water Supply	Domestic	53.3
6925247	6	21	15-Dec-1999	635262.0	4861993.0	213.3					0	Other Method	Abandoned-Other	Not Used	
6925330	5	20	23-Nov-1999	635069.0	4861879.0	205.1					0	Not Known	Abandoned-Other		
6925331	5	20	23-Nov-1999	635069.0	4861879.0	205.1					0	Not Known	Abandoned-Other		
6925395	6	8	16-May-2000	636317.0	4856016.0	204.2					0	Not Known	Abandoned-Other		
6927782	6	16	2-Mar-2004	634978.3	4860184.0	183.2					0	Rotary (Air)	Abandoned-Supply	Not Used	
6927837	7		27-May-2004	636607.0	4857221.0	177.2					0	Digging	Abandoned-Other	Not Used	
6927838	7		27-May-2004	636665.0	4857138.9	177.1					0	Digging	Abandoned-Other	Not Used	
6928277	6	11	17-Sep-2004	636596.0	4857119.0	173.6			5	0.9	0	Boring	Test Hole	Not Used	6.1
6928356	6	16	7-Sep-2004	636680.0	4857132.0	192.1	60	FRESH	15.87		22	Rotary (Air)	Water Supply	Domestic and Livestock	60.4
6928357	6	16	8-Sep-2004	636387.0	4858104.0	192.8	60	FRESH	15.87		26	Rotary (Air)	Water Supply	Domestic and Livestock	60.4
6928386	5	7	14-Sep-2004	635485.0	4860229.0	179.8	5.5		15.24		5		Abandoned-Other		14.2
6928565			16-Jun-2004	635773.0	4860064.0	193.6			2	4.6	0	Other Method	Observation Wells		7.6
6928148	6	8	13-Aug-2004	635769.0	4856589.0	177.2			36		4	Digging	Abandoned-Other	Not Used	
6928150	6	8	13-Aug-2004	636457.0	4853437.0	177.1			32		2	Digging	Abandoned-Other	Not Used	
6928827			19-Feb-2005	636548.0	4854144.0	200.8			5	1.0	0	Boring	Test Hole	Not Used	4.7
6928956	6	9	28-Feb-2005	636566.0	4857167.0	177.0					3.9		Abandoned-Other		
6929259			29-Jul-2005	636301.0	4853673.0	194.5	2		5	1.4	0	Boring	Abandoned-Other	Not Used	
6929482			29-Aug-2005	635867.0	4857838.0	175.3					0	Boring	Abandoned-Other		
6929526		132	24-Aug-2005	636380.0	4857123.0	176.8			30		4.6	Digging	Abandoned-Other	Not Used	9.1
6929527		123	24-Aug-2005	636391.0	4857050.0	177.0			30		0	Digging	Abandoned-Other	Not Used	2.4
6929846	6	8	9-Jan-2006	636447.0	4857081.0	177.2			30		1.8	Digging	Abandoned-Supply		7.8
6929847	6	8	9-Jan-2006	636487.0	4857091.0	177.3			30		1.5	Digging	Abandoned-Other	Not Used	8.8
6929945			2-Mar-2006	635883.0	4857834.0	174.8	5.2	FRESH	5.1	1.2	0	Boring	Observation Wells		6.8
6930243			12-May-2006	636443.0	4853487.0	193.9			2	4.6	0	Other Method	Observation Wells		
6930443			10-May-2006	636581.0	4854152.0	200.9			36		0	Digging	Abandoned-Other	Not Used	6.4
6930501			18-May-2006	636371.0	4853729.9	195.7			1.25	3.0	0	Other Method	Observation Wells		
6930839			19-May-2006	635064.0	4861902.0	205.1			5	0.9	0	Boring	Observation Wells	Not Used	6.1
7034852			18-Aug-2006	636595.0	4854302.0	201.8			3.17	1.1	0	Other Method	Abandoned-Other		6.7
7034885			18-Aug-2006	636591.0	4854326.0	201.8			5.08	0.7	0	Other Method	Abandoned-Other		5.5
7038496			5-Oct-2006	636282.0	4855769.1	176.5			5.08	0.9	0	Other Method	Abandoned-Other		4.9
7038497			4-Oct-2006	635953.0	4857270.0	176.6			5.08	0.7	0	Other Method	Abandoned-Other		5.5

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WELL ID	CON #	LOT #	COMPLETED	EASTING	NORTHING	ELEVATION (masl)	WATER FOUND (m bgs)	WATER KIND	CASING DIAM.(cm)	SCRN TOP (mbgs)	STATIC LEVEL (mbgs)	METHOD	STATUS	USE	DEPTH (mbgs)
7038468			24-Nov-2006	635948.0	4857252.0	204.7			3.8	0.5	0	Other Method	Test Hole		4.6
7044487			21-May-2007	636314.0	4857966.0	174.6	1.5	FRESH	4.31	1.1	0	Jetting	Dewatering		7
7044421			2-Apr-2007	635750.0	4857396.0	176.7			5.1	0.5	0	Boring	Observation Wells		4.5
7045299			3-Aug-2006	636239.0	4853398.0	191.7			4.06		0	Other Method	Abandoned-Other		3.7
7048167			31-Jul-2007	635954.0	4857499.0	172.7	2	FRESH	4.31		0	Driving	Observation Wells	Not Used	3
7051124			5-Sep-2007	635750.0	4857396.0	174.6					0				
7100452			15-Nov-2007	636536.0	4854337.0	202.0	3.8	FRESH			0				
7100522			15-Nov-2007	636478.0	4854316.0	202.0					0				
7100538			10-Dec-2007	636486.0	4854301.0	203.1			3.5		0	Rotary (Convent.)	Observation Wells	Monitoring	6.2
7100930	6	9	31-Oct-2007	636540.0	4854319.0	177.1			76.2		5		Abandoned-Other	Not Used	
7103270			14-Jan-2008	636217.0	4856004.9	203.1					0		Abandoned-Other		
7103271			13-Feb-2008	636561.0	4857111.0	204.9					0		Abandoned-Other		
7106045			22-Apr-2008	635020.0	4861722.0	177.5					0				
7112253	5	15	21-Aug-2008	634799.0	4861625.0	179.5					0	Rotary (Air)	Abandoned-Other	Not Used	
7112254	5	15	25-Aug-2008	636302.0	4857930.0	182.7					0	Rotary (Air)	Abandoned-Other	Not Used	
7112255	5	15	13-Aug-2008	636315.0	4857927.0	176.5			6		0	Rotary (Air)	Abandoned-Other	Monitoring	14.3
7112540			19-Aug-2008	636302.0	4857934.0	175.0	2.5	FRESH	5.9	0.3	3	Boring	Test Hole	Other	7.5
7114520	5	9	10-Oct-2008	635166.0	4859795.0	177.7					0		Abandoned-Other		29
7116876			5-Dec-2008	635304.0	4859837.0	193.0	0.6858	Other	5.2	0.9	0	Boring		Monitoring	1.8
7124142		6	12-May-2009	635091.0	4859773.0	193.6	3.28	Other	5.2	2.2	0	Boring		Monitoring	10.6
7126706	6	8	29-Jun-2009	635906.0	4857815.0	176.5					0	Other Method	Abandoned-Other	Not Used	
7100452			15-Nov-2007	635872.0	4857822.0	202.1	3.8	FRESH			0				
7100452			15-Nov-2007	635911.0	4857821.1	202.1	3.8	FRESH			0				
7112540			18-Aug-2008	635877.0	4857841.0	173.2	2.5	FRESH	5.9	0.3	0.9		Test Hole	Other	
7112540			18-Aug-2008	635904.0	4857794.0	173.6	2.5	FRESH	5.9	0.3	0.9		Test Hole	Other	
7112540			18-Aug-2008	635877.0	4857841.0	173.5	2.5	FRESH	5.9	0.3	1.1		Test Hole	Other	
7112540			19-Aug-2008	635885.0	4857827.0	174.9	2.5	FRESH	5.9	0.3	3		Test Hole	Other	
7112540			19-Aug-2008	635647.0	4856806.0	175.0	2.5	FRESH	5.9	0.3	4		Test Hole	Other	
7112540			19-Aug-2008	636184.0	4853611.0	175.3	2.5	FRESH	5.9	0.3	2.8		Test Hole	Other	
7106045			22-Apr-2008	636440.0	4853411.0	177.4					0				
7106045			22-Apr-2008	635983.0	4857691.0	177.7					0				
7129168	5	1	21-Aug-2009	635983.0	4857693.0	197.4	0.5	Other	5.2	0.9	0			Monitoring	7.5
7130127			25-Aug-2009	635982.0	4857688.9	193.9					0				
7130128			25-Aug-2009	635963.0	4857687.0	193.6			4.03	0.4	0	Direct Push	Monitoring and Test Hole	Monitoring and Test Hole	5.8
7130129			25-Aug-2009	635982.0	4857699.9	193.6			4.03	0.5	0	Direct Push	Monitoring and Test Hole	Monitoring and Test Hole	7.6
7134274	6	10	9-Nov-2009	635968.0	4857688.0				5.6	2.3	0	Auger	Abandoned-Other	Dewatering	9
7135758	5	16	26-Oct-2009	635970.0	4857686.0	187.0			15.24		1.5		Abandoned-Other	Not Used	
7135759	5	16	26-Oct-2009	635976.0	4857690.0	187.0			15.24		1.5		Abandoned-Other	Not Used	
7136093	6	9	16-Nov-2009	635980.0	4857688.0	175.9	7.3152	Not stated			0		Abandoned-Other		
7136094	6	9	16-Nov-2009	635981.0	4857692.0	175.3	7.3152	FRESH			0		Abandoned-Other		
7136851	6	18	30-Nov-2009	636294.0	4857071.0	195.0			2		0		Abandoned-Other		
7136856	6	20	28-Nov-2009	636538.0	4853833.0	205.1			2		0		Abandoned-Other		
7136857	7	20	28-Nov-2009	636253.0	4853664.0	195.0			2		0		Abandoned-Other		
7139476	6	9	11-Sep-2009	636219.0	4853679.1		3		5.1		3	Boring	Test Hole	Monitoring	4.5
7139580			15-Jan-2010	636220.0	4853659.0	200.5					0	Boring	Observation Wells	Monitoring	12.2

Table B1 - Summary of Water Well Records - Kennedy Road from Major Mackenzie Drive East to Steeles Avenue East

WELL ID	CON #	LOT #	COMPLETED	EASTING	NORTHING	ELEVATION (masl)	WATER FOUND (m bgs)	WATER KIND	CASING DIAM.(cm)	SCRN TOP (mbgs)	STATIC LEVEL (mbgs)	METHOD	STATUS	USE	DEPTH (mbgs)
7139584			8-Jan-2010	635978.0	4857705.0	203.8	7		2.5		0	Boring	Monitoring and Test Hole	Monitoring and Test Hole	33.1
7140188			4-Aug-2009	635950.0	4857694.0	175.7		FRESH	5.6		0	Auger	Dewatering	Dewatering	9
7140352			2-Dec-2009	635965.0	4857699.0	175.7					0				
7141955	Jan-00	21	24-Feb-2010	635979.0	4857703.0	204.9			2	11.3	0	Rotary (Convent.)	Observation Wells	Monitoring	12.8
7141956	5	8	19-Feb-2010	635968.0	4857701.0	176.6		Untested	2	14.6	0	Rotary (Convent.)	Observation Wells	Monitoring	17.4
7141957	6	12	24-Feb-2010	635953.0	4857694.0			Untested	5	18.9	3.7	Rotary (Convent.)	Monitoring and Test Hole	Monitoring and Test Hole	23.8
7141958	6	12	23-Feb-2010	635958.0	4857696.0	176.8		Untested	2	17.4	0	Rotary (Convent.)	Observation Wells	Monitoring	23.8
7141959	6	8	17-Feb-2010	635968.0	4857685.0	176.8		Untested	2	14.3	0	Rotary (Convent.)		Monitoring	16.5
7141960	5	8	18-Feb-2010	635978.0	4857702.0	176.6		Untested	2	13.1	0	Rotary (Convent.)	Observation Wells	Monitoring	17.1
7142235			16-Feb-2010	635976.0	4857704.0	184.1			2	3.4	0	Direct Push	Monitoring and Test Hole	Monitoring and Test Hole	5.8
7142236			16-Feb-2010	635962.0	4857698.0	185.9			2	4.9	0	Direct Push	Monitoring and Test Hole	Monitoring and Test Hole	6.4
7144057	6	18	19-Mar-2010	635358.0	4860045.0				5.2	2.0	0	Rotary (Convent.)	Monitoring and Test Hole	Monitoring and Test Hole	7.9
7144058			19-Mar-2010	635364.0	4860040.0	198.9			5.2	1.6	0	Rotary (Convent.)	Monitoring and Test Hole		6.7
7126599			24-Jun-2009	636024.0	4857107.0	172.4			5.6	2.3	0		Dewatering	Dewatering	
7126599			24-Jun-2009	636045.0	4857124.0	172.2			5.6	2.3	0		Dewatering	Dewatering	
7126599			24-Jun-2009	635269.0	4860684.0	172.2			5.6	2.3	0		Dewatering	Dewatering	
7126599			24-Jun-2009	635079.0	4861866.1	171.9			5.6	2.3	0		Dewatering	Dewatering	
7126599			24-Jun-2009	635271.0	4860671.0	171.8			5.6	2.3	0		Dewatering	Dewatering	
7126599			24-Jun-2009	636262.0	4857289.0	171.8			5.6	2.3	0		Dewatering	Dewatering	
7126599			24-Jun-2009	635312.0	4860476.0	171.8			5.6	2.3	0		Dewatering	Dewatering	
7126599			24-Jun-2009	636226.0	4855866.0	171.7			5.6	2.3	0		Dewatering	Dewatering	
7126599			24-Jun-2009	635855.0	4857822.0	171.7			5.6	2.3	0		Dewatering	Dewatering	
7126599			24-Jun-2009	635855.0	4857822.0	171.6			5.6	2.3	0		Dewatering	Dewatering	
7134274	6	10	7-Nov-2009	634992.0	4861883.0	171.6			5.6	2.3	0		Abandoned-Other	Dewatering	
7134274	6	10	7-Nov-2009	635967.0	4856983.0	171.6			5.6	2.3	0		Abandoned-Other	Dewatering	
7134274	6	10	7-Nov-2009	636286.0	4858529.0	171.7			5.6	2.3	0		Abandoned-Other	Dewatering	
7134274	6	10	7-Nov-2009	636286.0	4858513.0	171.7			5.6	2.3	0		Abandoned-Other	Dewatering	
7134274	6	10	7-Nov-2009	636065.0	4856990.0	172.0			5.6	2.3	0		Abandoned-Other	Dewatering	
7134274	6	10	7-Nov-2009	635952.0	4856966.0	172.1			5.6	2.3	0		Abandoned-Other	Dewatering	
7134274	6	10	7-Nov-2009	636169.0	4858883.0	172.2			5.6	2.3	0		Abandoned-Other	Dewatering	
7134274	6	10	7-Nov-2009	636067.0	4859249.9	172.4			5.6	2.3	0		Abandoned-Other	Dewatering	
7134274	6	10	7-Nov-2009	635201.0	4861012.0	172.6			5.6	2.3	0		Abandoned-Other	Dewatering	
7134274	6	10	7-Nov-2009	635224.0	4861012.0	172.7			5.6	2.3	0		Abandoned-Other	Dewatering	
7149975	5	16	28-Jul-2010	635135.0	4859790.0	178.3					0		Abandoned-Quality		4.9
7151763	5	6	5-Sep-2010	636226.0	4855918.0	205.0		Untested	2	26.5	0	Rotary (Convent.)	Observation Wells	Monitoring	30.5
7151764	5	6	4-Aug-2010	636244.0	4855913.1	204.6		Untested	2	17.7	0	Rotary (Convent.)	Observation Wells	Monitoring	20.7
7152936			20-Sep-2010	636512.0	4854338.0	202.1					0				
7153148			23-Jul-2010	635142.0	4859804.0	179.2					0				
7157521	5	9	6-Jan-2010	635760.0	4857043.0						0				
7158698			11-Jan-2011	635935.0	4857204.0				2	4.0	0	Rotary (Convent.)	Test Hole	Test Hole	4
7159642			29-Dec-2010	635867.0	4860175.0						0	Driving	Test Hole	Not Used	1.9
7161897			24-Feb-2011	635596.0	4860469.0				2	3.0	0	Rotary (Convent.)	Test Hole	Test Hole	6.1
7162878	6	16	9-Feb-2010	635458.0	4859892.0		7.62	Untested	2	7.6	0	Boring	Observation Wells	Monitoring	9.1
7166795			30-Jun-2011	636580.0	4853823.0				1.75	3.7	0	Direct Push	Test Hole	Monitoring and Test Hole	6.7
7168492			29-Aug-2011	636290.0	4855875.0				2	3.0	0	Rotary (Convent.)	Observation Wells	Test Hole	6.1

Table B1 - Summary of Water Well Records - Kennedy Road from Major Mackenzie Drive East to Steeles Avenue East

WELL ID	CON #	LOT #	COMPLETED	EASTING	NORTHING	ELEVATION (masl)	WATER FOUND (m bgs)	WATER KIND	CASING DIAM.(cm)	SCRN TOP (mbgs)	STATIC LEVEL (mbgs)	METHOD	STATUS	USE	DEPTH (mbgs)
7170244			2-Sep-2011	635233.0	4859502.0					0					
7171226			8-Sep-2011	635856.0	4857212.0					0					
7171354	Jan-00	16	6-Sep-2011	635144.0	4859800.0				2	6.1	0		Abandoned-Other	Monitoring	
7171356	5	16	6-Sep-2011	635074.0	4859776.0				2	7.6	0		Abandoned-Other	Monitoring	
7171357	5	16	6-Sep-2011	635002.0	4859749.0				2	9.1	0		Abandoned-Other	Monitoring	
7172338			19-Sep-2011	635078.0	4859765.0				2	9.1	0	Auger	Observation Wells	Monitoring and Test Hole	12.2
7172356			7-Oct-2011	635076.0	4859782.9				2	5.8	0	Auger	Observation Wells	Monitoring and Test Hole	8.8
7172489	6	10	3-Nov-2011	635894.0	4857758.0					0			Abandoned-Other		6.1
7172573			21-Oct-2011	636297.0	4855862.0					0			Abandoned-Other		
7172684	5	8	28-Jun-2011	635975.0	4857069.0					0		Boring	Observation Wells	Monitoring	6.6
7175422	6	5	18-Nov-2011	636359.0	4855558.0					0			Abandoned-Other		
7182482			30-Apr-2012	635733.0	4857233.0		6.096		2	11.9	0	Rotary (Convent.)	Test Hole	Test Hole	13.4
7186060			9-May-2012	635963.0	4857159.0					0			Abandoned-Other	Not Used	
7186067			7-Feb-2012	635852.0	4857026.1					0			Abandoned-Other	Not Used	
7185927			6-Jul-2012	635855.0	4857079.0		6		5.2	2.8	0	Boring	Observation Wells	Monitoring	10.7
7185936			6-Jul-2012	635909.0	4857003.0		6		5.2	2.8	0	Boring	Observation Wells	Monitoring	10.7
7188482	5	9	17-Sep-2012	635890.0	4857218.1					0					
7190309	5	16	9-Aug-2012	636365.0	4855891.0					0			Abandoned-Other	Not Used	
7190310	5	16	17-Aug-2012	636304.0	4855851.9					0			Abandoned-Other	Not Used	
7190498			24-Apr-2012	634990.0	4859743.0					0					
7190514			15-Dec-2011	635152.0	4859797.1				6		8.2		Abandoned-Other	Not Used	
7190526			24-Apr-2012	635817.0	4860215.0				36		0				
7188948			6-Jun-2012	635476.0	4860446.0					0					
7188981			12-Jul-2012	635851.0	4860231.0					0					
7196212	5	9	10-Jan-2013	635902.0	4857176.0				5		0		Abandoned-Other		
7200787			25-Mar-2013	635889.0	4857820.0				2	4.6	0	Rotary (Convent.)	Test Hole	Test Hole	
7200789			25-Mar-2013	635889.0	4857820.0					0			Abandoned-Other	Test Hole	
7204160				636013.0	4856832.0					0					
7204438			7-Jun-2013	636405.0	4857624.0				0.25		0	Other Method	Abandoned-Other	Monitoring and Test Hole	
7204439			7-Jun-2013	636296.0	4858119.9				1		0	Other Method	Abandoned-Other	Monitoring and Test Hole	
7204440			7-Jun-2013	636280.0	4858296.0				1		0	Other Method	Abandoned-Other	Monitoring and Test Hole	
7204501			7-Jun-2013	636155.0	4856254.0				1		0		Abandoned-Other		
7204502			7-Jun-2013	636375.0	4857533.0				1		0	Other Method	Abandoned-Other	Monitoring and Test Hole	
7204503			7-Jun-2013	636091.0	4856707.0				1		0	Other Method	Abandoned-Other	Monitoring and Test Hole	
7204504			7-Jun-2013	636043.0	4856746.0				1		0	Other Method	Abandoned-Other	Monitoring and Test Hole	
7204505			7-Jun-2013	636210.0	4856155.0				1		0	Other Method	Abandoned-Other	Monitoring and Test Hole	
7204506			7-Jun-2013	636380.0	4857503.0				1		0	Other Method	Abandoned-Other	Monitoring and Test Hole	
7206232	6	15	15-Jul-2013	635694.0	4859953.0					0			Abandoned-Other	Not Used	
7206235	6	20	16-Jul-2013	635080.0	4861866.0					0			Abandoned-Other	Not Used	
7206240	6	15	15-Jul-2013	635591.0	4859907.0					0			Abandoned-Other	Not Used	
7206242			12-Jul-2013	635672.0	4860098.0					0			Abandoned-Other	Not Used	
7206245	6	15	22-Jul-2013	635672.0	4860098.0					0			Abandoned-Other	Not Used	
7207259			14-Aug-2013	635686.0	4856661.0		7.62	Untested	2	4.6	0	Boring	Observation Wells	Monitoring	7.6
7207260			14-Aug-2013	635827.0	4856676.0		4.572	Untested	2	4.6	0	Boring	Observation Wells	Monitoring	7.6
7207952			25-Jun-2013	636288.0	4858296.0					0			Abandoned-Other	Not Used	

Table B1 - Summary of Water Well Records - Kennedy Road from Major Mackenzie Drive East to Steeles Avenue East

WELL ID	CON #	LOT #	COMPLETED	EASTING	NORTHING	ELEVATION (masl)	WATER FOUND (m bgs)	WATER KIND	CASING DIAM.(cm)	SCRN TOP (mbgs)	STATIC LEVEL (mbgs)	METHOD	STATUS	USE	DEPTH (mbgs)
7208233			29-Aug-2013	636188.0	4858782.0					0			Abandoned-Other	Not Used	
7209127			4-Feb-2013	635152.0	4861107.0		3.6576	Untested	2	3.0	0	Rotary (Convent.)	Monitoring and Test Hole	Monitoring and Test Hole	6.1
7210183	5	7	14-Aug-2013	635579.0	4856507.0				2	4.6	0	Boring	Observation Wells	Monitoring	7.6
7210716			1-Nov-2013	635579.0	4856507.0					0		Boring		Monitoring	
7211073			1-Nov-2013	635686.0	4856661.0					0		Boring		Monitoring	
7211076			1-Nov-2013	635827.0	4856676.0					0		Boring	Observation Wells	Monitoring	
7218632			5-Nov-2013	635099.0	4862019.0					0					
7225639			13-Mar-2014	636277.0	4858579.0					0				Not Used	
7229487	5	6	23-Jun-2014	636205.0	4855890.0				2	4.6	0	Rotary (Convent.)	Monitoring and Test Hole	Monitoring and Test Hole	7.6
7237164				636356.0	4854131.0					0					
7241057			29-Mar-2015	636420.0	4853443.9				2	6.1	0	Rotary (Convent.)	Monitoring and Test Hole	Test Hole and Monitoring	9.1
7248483			26-May-2015	636544.0	4853996.9				2	3.0	0	Boring	Observation Wells	Monitoring	6.1
7255004	6	19	3-Dec-2015	635255.0	4861182.0		4.3	FRESH	76		0		Abandoned-Other		
7255162			5-Oct-2015	635710.0	4857103.0				2	16.8	0	Rotary (Convent.)	Observation Wells	Monitoring	18.3
7255163			5-Oct-2015	635710.0	4857103.0				2	3.0	0	Boring	Observation Wells	Monitoring	6.1
7255164			5-Oct-2015	635770.0	4857188.0				2	3.0	0	Boring	Observation Wells	Monitoring	6.1
7255165			5-Oct-2015	635765.0	4857095.1				2	3.0	0	Boring	Observation Wells	Monitoring	6.1
7255166			15-Oct-2015	635803.0	4857068.1				2	3.0	0	Boring	Observation Wells	Monitoring	6.1
7255167			5-Oct-2015	635728.0	4857032.0				2	3.0	0	Boring	Observation Wells	Monitoring	6.1
7255188			5-Oct-2015	635744.0	4857000.0				2	3.0	0	Boring	Observation Wells	Monitoring	
7255189			5-Oct-2015	635744.0	4856999.0				2	22.9	0	Rotary (Convent.)	Observation Wells	Monitoring	24.4
7255190			5-Oct-2015	635770.0	4857187.0				2	22.9	0	Rotary (Convent.)	Observation Wells	Monitoring	24.4
7257742			15-Dec-2015	635650.0	4857051.0					0					
7258345			7-Oct-2015	636289.0	4853606.0					0					
7258375			8-Feb-2016	636488.0	4854234.0				2	30.5	0	Rotary (Convent.)	Observation Wells	Monitoring	33.5
7258376			9-Feb-2016	636586.0	4854262.0				2	30.5	0	Rotary (Convent.)	Observation Wells	Monitoring	33.5
7258377			10-Feb-2016	636560.0	4854211.9				2	30.5	0	Rotary (Convent.)	Observation Wells	Monitoring	33.5
7258378			12-Feb-2016	636432.0	4854180.0				2	30.5	0	Rotary (Convent.)	Observation Wells	Monitoring	33.5
7258379			17-Dec-2015	636515.0	4854202.0				2	1.2	0	Boring	Observation Wells	Monitoring	4.3
7258380			14-Dec-2015	636480.0	4854227.0				2	13.7	0	Boring	Observation Wells	Monitoring	16.8
7258381			14-Dec-2015	636589.0	4854239.0				2	15.2	0	Boring	Observation Wells	Monitoring	18.3
7258382			15-Dec-2015	636588.0	4854238.0				2	1.2	0	Boring	Observation Wells	Monitoring	4.3
7258383			15-Dec-2015	636561.0	4854217.0				2.2	15.2	0	Boring	Observation Wells	Monitoring	18.3
7258514			3-Feb-2016	636412.0	4853347.0				1.5	2.1	0	Direct Push		Monitoring	3.7
7258607			12-Feb-2016	636432.0	4854180.0				2	3.0	0	Boring	Observation Wells	Monitoring	4.6
7258698			3-Feb-2016	636511.0	4853432.0				1.5	0.6	0	Direct Push	Monitoring and Test Hole	Test Hole and Monitoring	2.1
7258700			3-Feb-2016	636379.0	4853354.0				2	2.4	0	Direct Push	Monitoring and Test Hole	Test Hole and Monitoring	5.5
7259448			23-Apr-2015	635802.0	4857243.0		2.1336	Untested	2	16.8	0	Rotary (Convent.)	Monitoring and Test Hole	Test Hole and Monitoring	19.8
7260140			15-May-2015	636211.0	4853626.0					0					
7260610			23-Jul-2015	636569.0	4853672.0					0					
7261032			28-May-2015	635278.0	4862040.0				2	3.0	0	Boring	Test Hole	Test Hole	
7262539			12-Apr-2016	636570.0	4853663.0					0					
7266025	5	21	14-Jun-2016	634697.0	4861832.0				8		0	Cable Tool	Water Supply	Irrigation	
7269535			8-Dec-2014	635175.0	4860650.0					0					
7269576			8-Jul-2016	636441.0	4854410.0				2	4.0	0	Boring	Observation Wells	Monitoring	7

Table B1 - Summary of Water Well Records - Kennedy Road from Major Mackenzie Drive East to Steeles Avenue East

WELL ID	CON #	LOT #	COMPLETED	EASTING	NORTHING	ELEVATION (masl)	WATER FOUND (m bgs)	WATER KIND	CASING DIAM.(cm)	SCRN TOP (mbgs)	STATIC LEVEL (mbgs)	METHOD	STATUS	USE	DEPTH (mbgs)
7269577			8-Jul-2016	636486.0	4854387.0				2	3.0	0	Boring	Observation Wells	Monitoring	6.1
7269578			8-Jul-2016	636528.0	4854400.0				2	3.0	0	Boring	Observation Wells	Monitoring	
7269579			8-Jul-2016	636568.0	4854359.0				2	7.6	0	Boring	Observation Wells	Monitoring	10.7
7269580			8-Jul-2016	636556.0	4854407.0				2	10.7	0	Boring	Observation Wells	Monitoring	13.7
7272278	5	16	18-Sep-2016	635319.0	4860216.0						0				
7272279	5	16	18-Sep-2016	635329.0	4860183.0						0				
7272280	5	16	18-Sep-2016	635327.0	4860184.0						0				

Table B2 - Summary of Permits to Take Water - Kennedy Road from Major Mackenzie Drive East to Steeles Avenue East

Permit Number	Permit Holder	Expiry	Issue	Easting	Northing	Max (L/day)
7576-9L6LVJ	The Regional Municipality of York	31-Dec-2018	26-Jun-2014	636010	4856980	200000
7576-9L6LVJ	The Regional Municipality of York	31-Dec-2018	26-Jun-2014	636283	4858295	135000
7576-9L6LVJ	The Regional Municipality of York	31-Dec-2018	26-Jun-2014	636283	4858310	200000
7576-9L6LVJ	The Regional Municipality of York	31-Dec-2018	26-Jun-2014	636288	4858355	135000
7576-9L6LVJ	The Regional Municipality of York	31-Dec-2018	26-Jun-2014	636290	4858420	200000
7576-9L6LVJ	The Regional Municipality of York	31-Dec-2018	26-Jun-2014	636283	4858580	170000
7186-93SMHH	Angus Glen Golf Club Ltd.	31-Dec-2022	15-Jan-2013	634748	4861850	392775

APPENDIX C

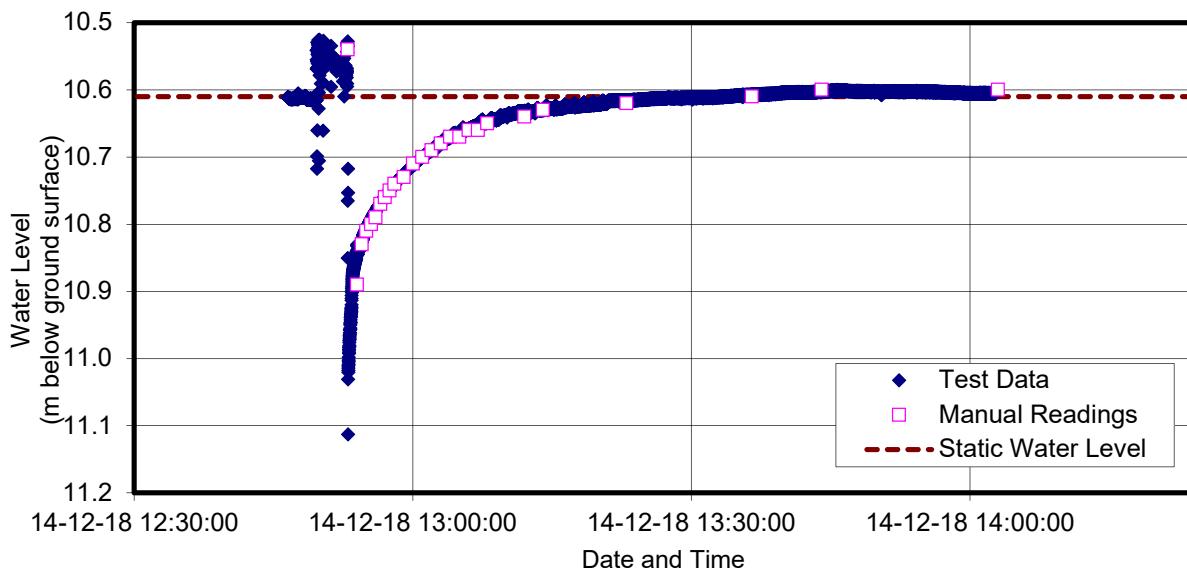
Hydraulic Testing

In-Situ Hydraulic Conductivity Test Report

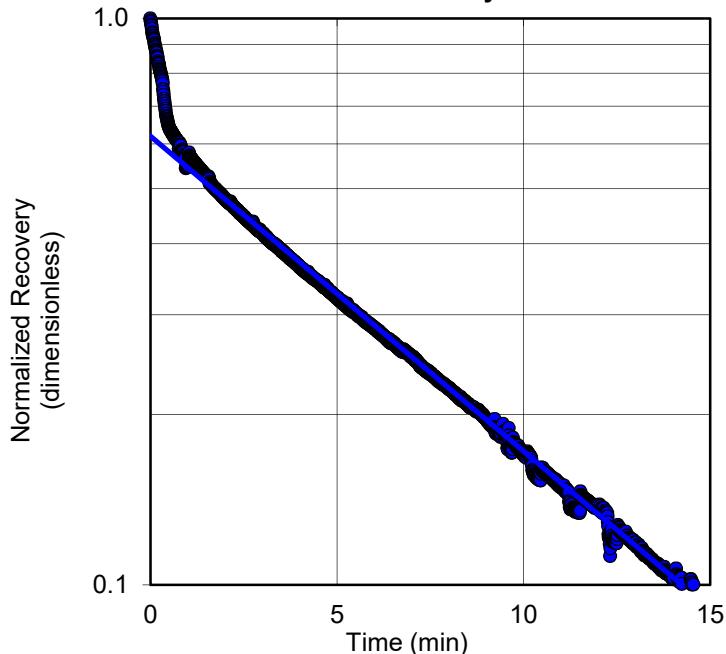
Borehole CNR-102

**FIGURE
C1**

Groundwater Level vs. Time



Normalized Recovery vs. Time



Test Interval (below ground surface)

13.6 m to 15.1 m

Static Water Level (below ground surface)

10.61 m

Test Interval (L) = 1.53 m

Well Radius (r) = 0.0254 m

Hole Radius (R) = 0.076 m

Points Used for Match Line

$h_1/H_0 = 0.46$

$t_1 = 2.34$ min

$h_2/H_0 = 0.20$

$t_2 = 8.75$ min

Hvorslev Analysis

$$\text{Hydraulic Conductivity (K)} = \frac{- (r^2) \cdot \ln(\frac{L}{R}) \cdot \frac{\ln(h_2/H_0) - \ln(h_1/H_0)}{t_2 - t_1}}{2 \cdot L} = 1E-6 \text{ m/s}$$

DATE: January 2, 2019



DESIGN: CS

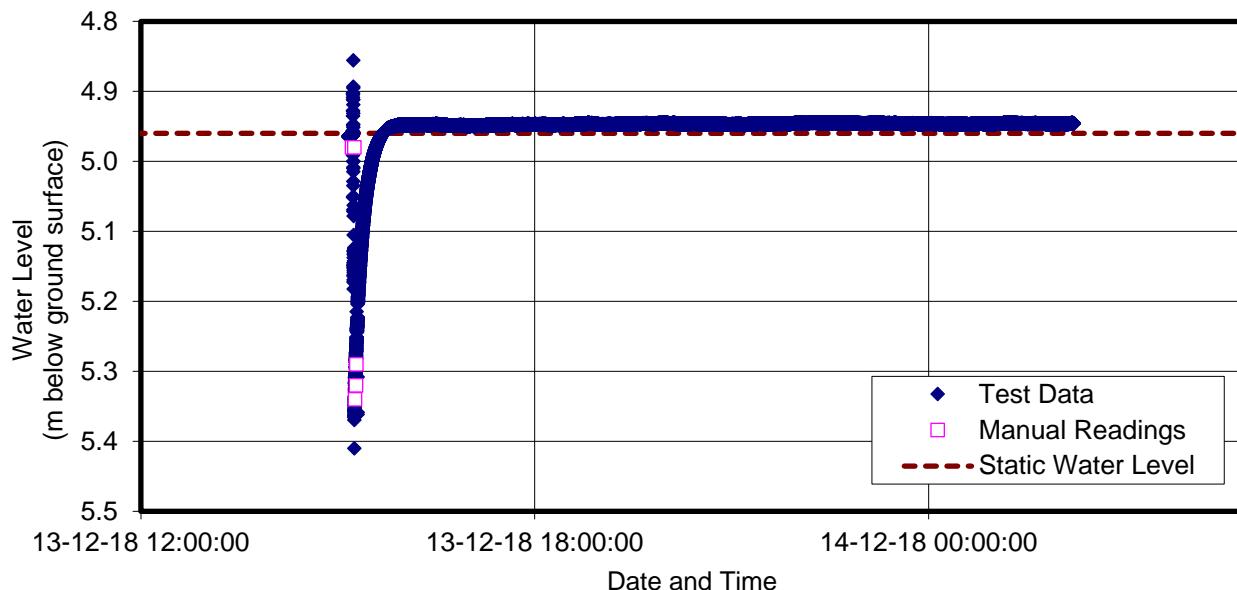
PROJECT: 1664178

CHECK: AM

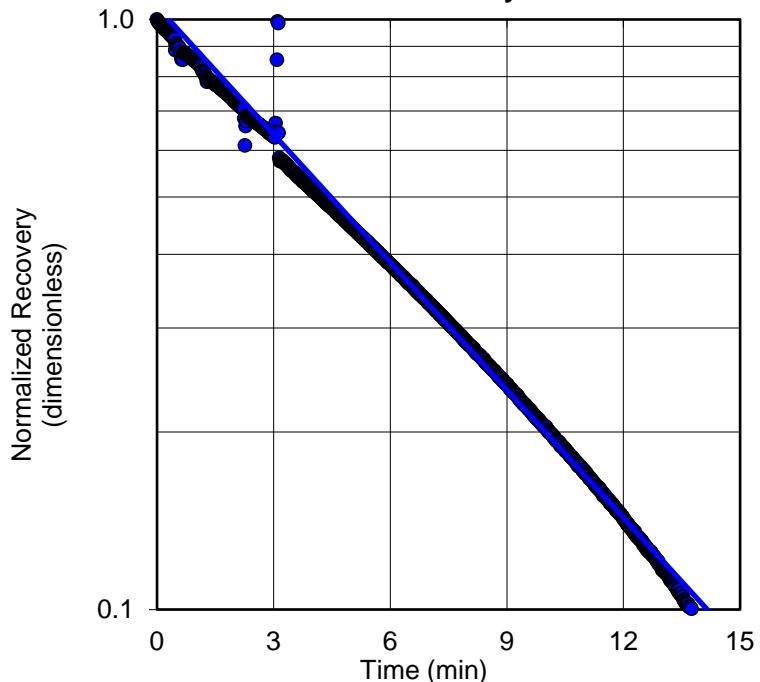
In-Situ Hydraulic Conductivity Test Report
Borehole CNR-202B

**FIGURE
C2**

Groundwater Level vs. Time



Normalized Recovery vs. Time



Test Interval (below ground surface)

6.1 m to 7.6 m

Static Water Level (below ground surface)

4.96 m

Test Interval (L) = 1.52 m

Well Radius (r) = 0.0254 m

Hole Radius (R) = 0.103 m

Points Used for Match Line

$h_1/H_0 = 0.36$ $t_1 = 6.53 \text{ min}$

$h_2/H_0 = 0.14$ $t_2 = 12 \text{ min}$

Hvorslev Analysis

$$\text{Hydraulic Conductivity (K)} = \frac{-(r^2) \cdot \ln(L/R)}{2 \cdot L} \cdot \frac{\ln(h_2/H_0) - \ln(h_1/H_0)}{t_2 - t_1} = 2E-6 \text{ m/s}$$

DATE: January 2, 2019



DESIGN: CS

PROJECT: 1664178

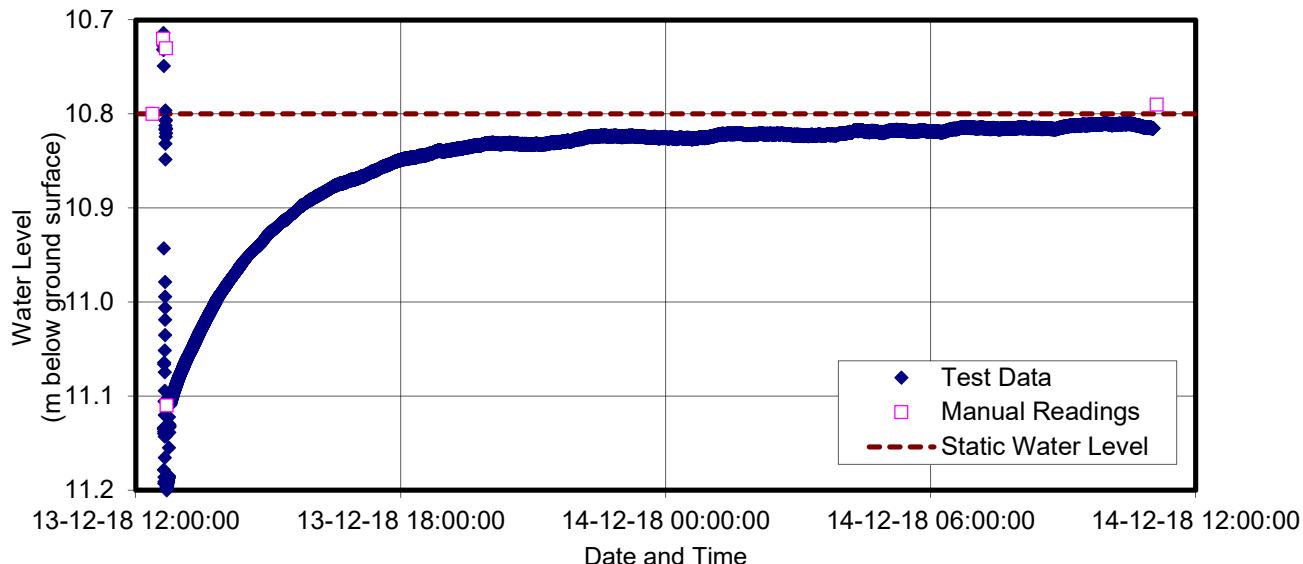
CHECK: AM

In-Situ Hydraulic Conductivity Test Report

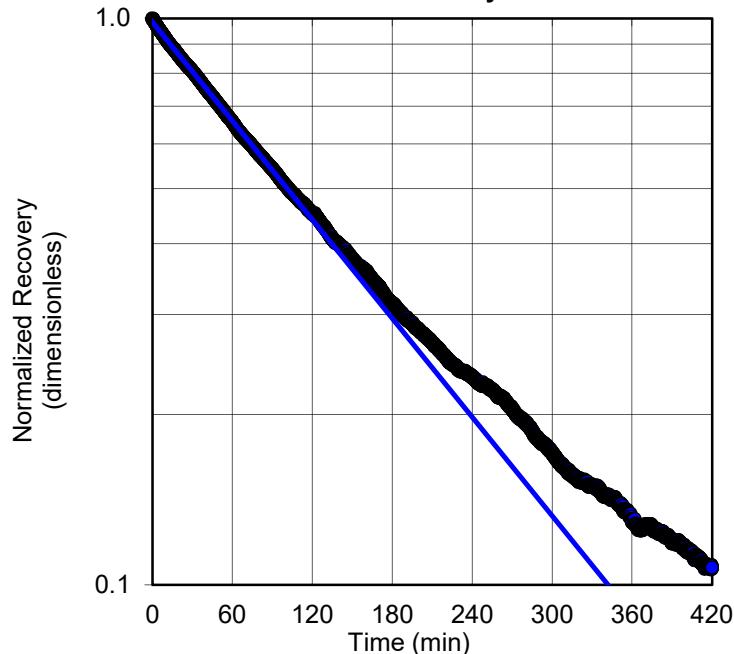
Borehole ETR-2

**FIGURE
C3**

Groundwater Level vs. Time



Normalized Recovery vs. Time



Test Interval (below ground surface)

12.2 m to 15.2 m

Static Water Level (below ground surface)

10.8 m

Test Interval (L) = 3.05 m

Well Radius (r) = 0.0254 m

Hole Radius (R) = 0.076 m

Points Used for Match Line

$h_1/H_0 = 0.82$ $t_1 = 27.67 \text{ min}$

$h_2/H_0 = 0.24$ $t_2 = 211.5 \text{ min}$

Hvorslev Analysis

$$\text{Hydraulic Conductivity (K)} = \frac{- (r^2) \cdot \ln(\frac{L}{R}) \cdot \frac{\ln(h_2/H_0) - \ln(h_1/H_0)}{t_2 - t_1}}{2 \cdot L} = 4E-8 \text{ m/s}$$

DATE: January 2, 2019



DESIGN: CS

PROJECT: 1664178

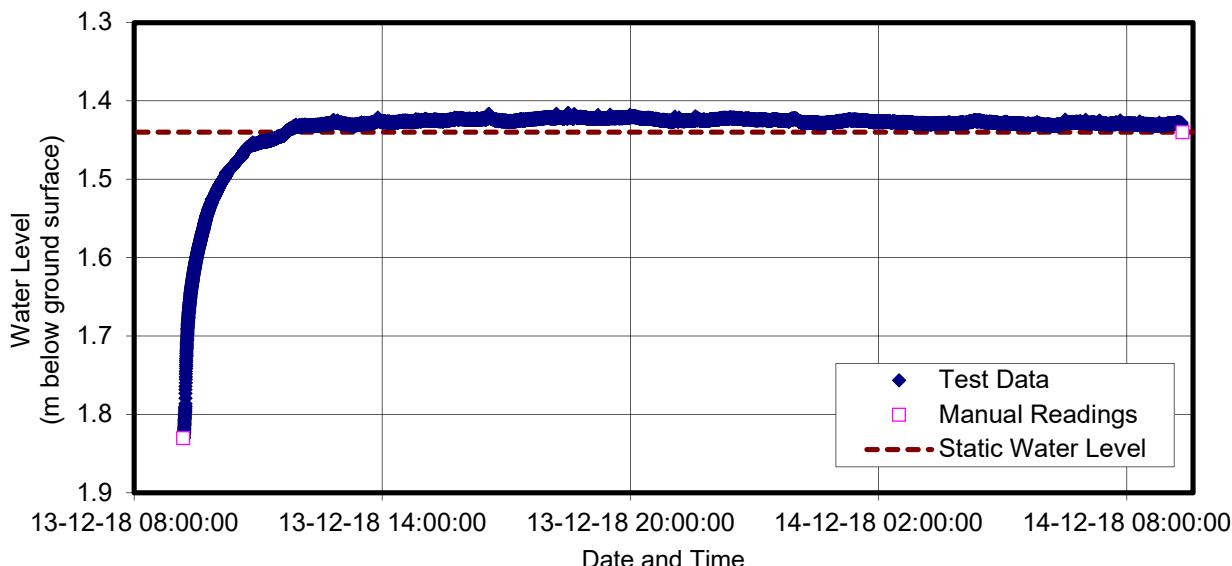
CHECK: AM

In-Situ Hydraulic Conductivity Test Report

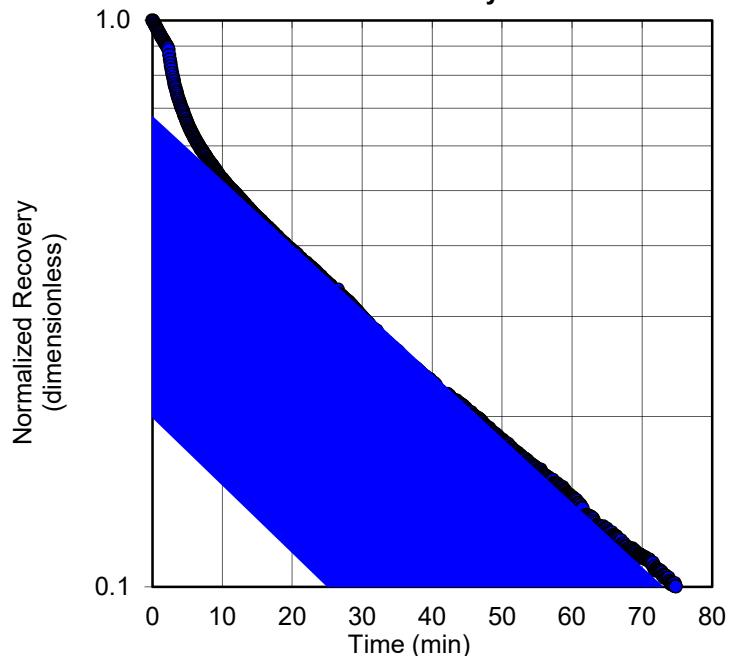
Borehole GO-2

**FIGURE
C4**

Groundwater Level vs. Time



Normalized Recovery vs. Time



Test Interval (below ground surface)

11.3 m to 12.8 m

Static Water Level (below ground surface)

1.44 m

Test Interval (L) = 1.52 m

Well Radius (r) = 0.0254 m

Hole Radius (R) = 0.103 m

Points Used for Match Line

$h_1/H_0 = 0.47$ $t_1 = 13.83$ min

$h_2/H_0 = 0.18$ $t_2 = 49.92$ min

Hvorslev Analysis

$$\text{Hydraulic Conductivity (K)} = \frac{-(r^2) \cdot \ln(\frac{L}{R}) \cdot \frac{\ln(h_2/H_0) - \ln(h_1/H_0)}{t_2 - t_1}}{2 \cdot L} = 2E-7 \text{ m/s}$$

DATE: January 2, 2019



DESIGN: CS

PROJECT: 1664178

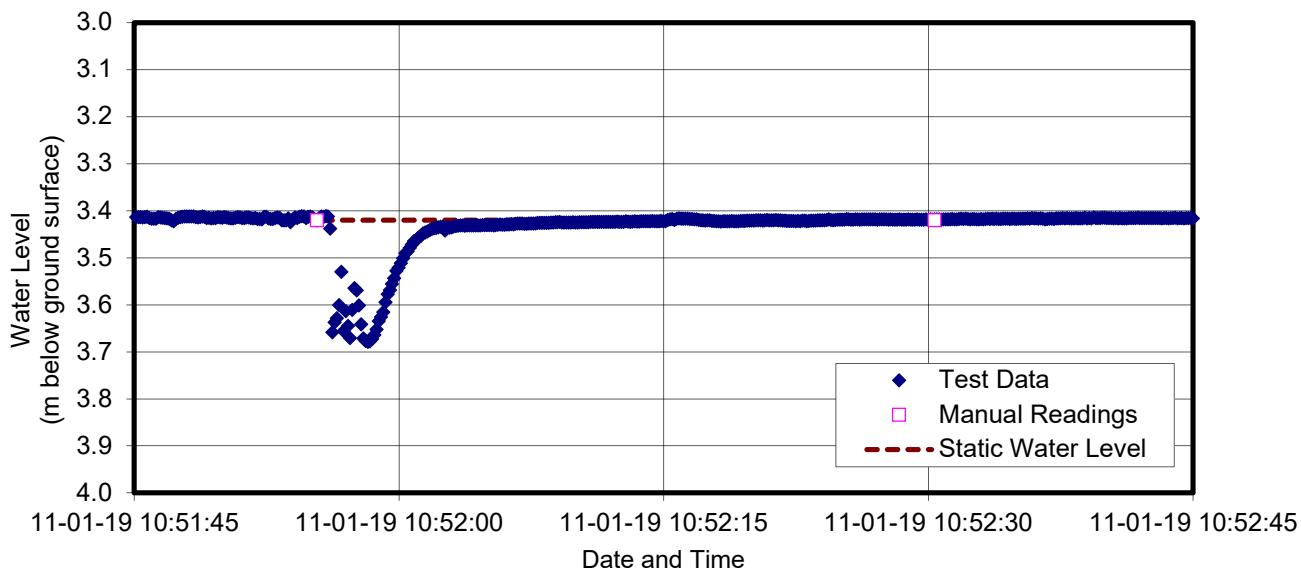
CHECK: AM

In-Situ Hydraulic Conductivity Test Report

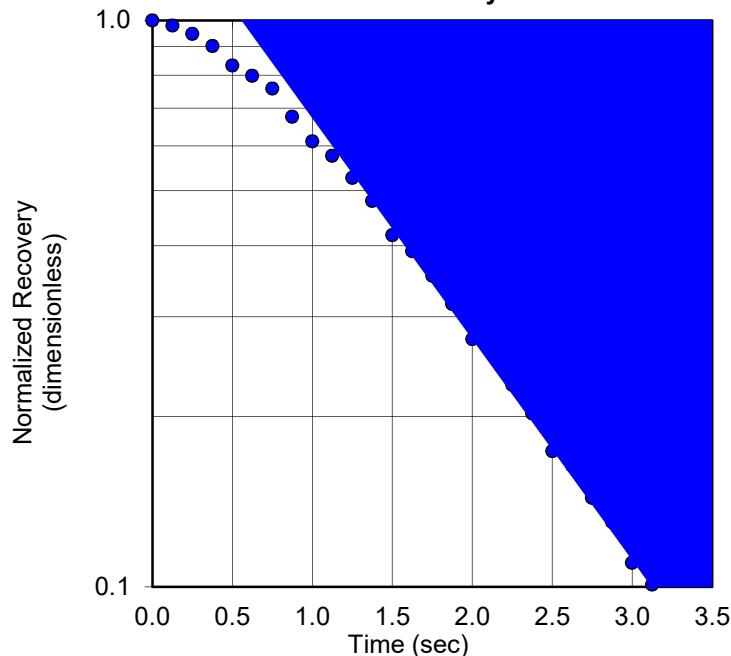
Borehole RR-1

**FIGURE
C5**

Groundwater Level vs. Time



Normalized Recovery vs. Time



Test Interval (below ground surface)

11.3 m to 12.8 m

Static Water Level (below ground surface)

3.42 m

Test Interval (L) = 1.52 m

Well Radius (r) = 0.0254 m

Hole Radius (R) = 0.076 m

Points Used for Match Line

$h_1/H_0 = 0.39$ $t_1 = 1.62 \text{ sec}$

$h_2/H_0 = 0.10$ $t_2 = 3.13 \text{ sec}$

Hvorslev Analysis

$$\text{Hydraulic Conductivity (K)} = \frac{- (r^2) \cdot \ln(\frac{L}{R}) \cdot \frac{\ln(h_2/H_0) - \ln(h_1/H_0)}{t_2 - t_1}}{2 \cdot L} = 6E-4 \text{ m/s}$$

DATE: January 22, 2019



DESIGN: CS

PROJECT: 1664178

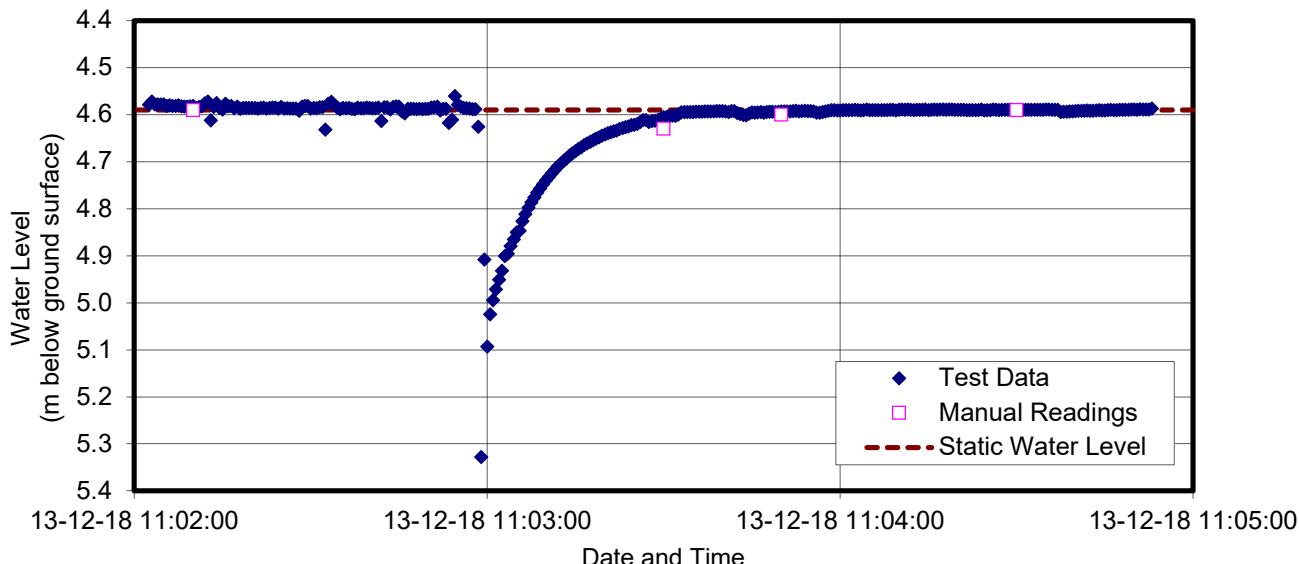
CHECK: AM

In-Situ Hydraulic Conductivity Test Report

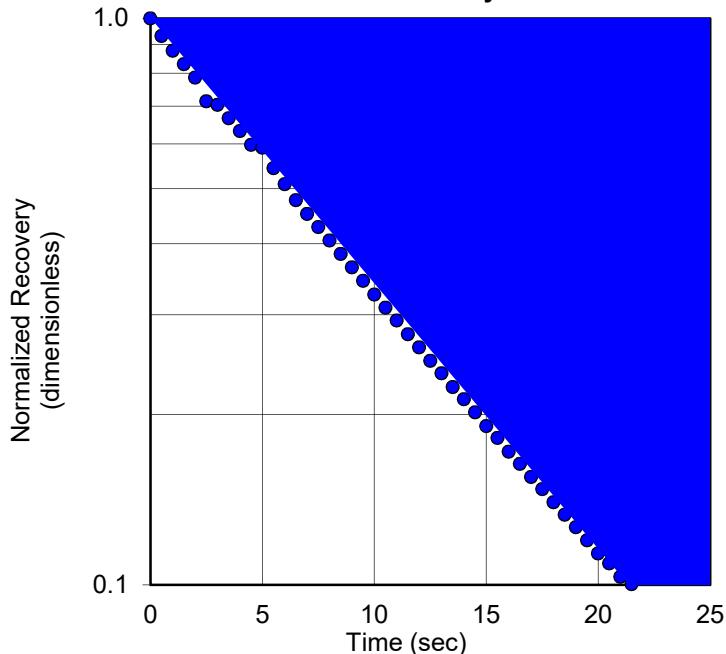
Borehole RR-2

**FIGURE
C6**

Groundwater Level vs. Time



Normalized Recovery vs. Time



Test Interval (below ground surface)

5.5 m to 7.0 m

Static Water Level (below ground surface)

4.59 m

Test Interval (L) = 1.52 m

Well Radius (r) = 0.0254 m

Hole Radius (R) = 0.076 m

Points Used for Match Line

$h_1/H_0 = 0.89$ $t_1 = 1 \text{ sec}$

$h_2/H_0 = 0.11$ $t_2 = 20 \text{ sec}$

Hvorslev Analysis

$$\text{Hydraulic Conductivity (K)} = \frac{-(r^2) \cdot \ln(\frac{L}{R}) \cdot \frac{\ln(h_2/H_0) - \ln(h_1/H_0)}{t_2 - t_1}}{2 \cdot L} = 7E-5 \text{ m/s}$$

DATE: January 2, 2019



DESIGN: CS

PROJECT: 1664178

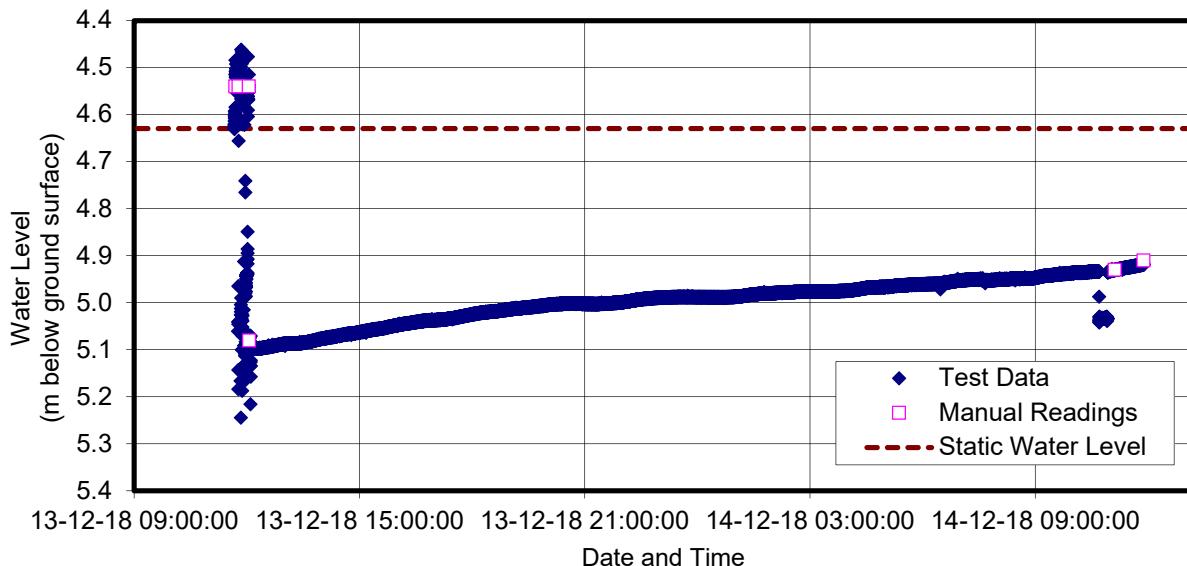
CHECK: AM

In-Situ Hydraulic Conductivity Test Report

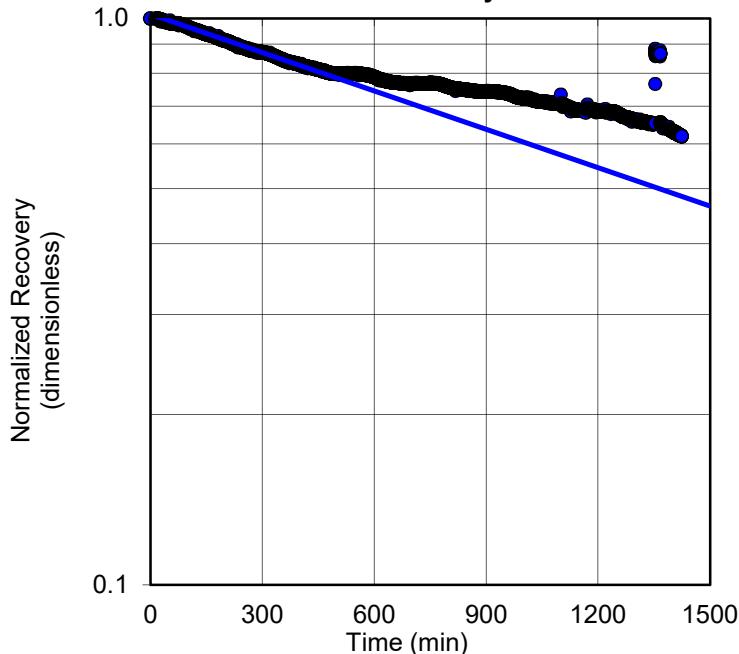
Borehole TC-2

**FIGURE
C7**

Groundwater Level vs. Time



Normalized Recovery vs. Time



Test Interval (below ground surface)

6.1 m to 7.6 m

Static Water Level (below ground surface)

4.63 m

Test Interval (L) = 1.52 m

Well Radius (r) = 0.0254 m

Hole Radius (R) = 0.103 m

Points Used for Match Line

$h_1/H_0 = 0.94$ $t_1 = 154 \text{ min}$

$h_2/H_0 = 0.82$ $t_2 = 421.58 \text{ min}$

Hvorslev Analysis

$$\text{Hydraulic Conductivity (K)} = \frac{-(r^2) \cdot \ln(\frac{L}{R}) \cdot \frac{\ln(h_2/H_0) - \ln(h_1/H_0)}{t_2 - t_1}}{2 \cdot L} = 5E-9 \text{ m/s}$$

DATE: January 2, 2019



DESIGN: CS

PROJECT: 1664178

CHECK: AM



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