

May 10, 2010

Louissette Lanteigne
700 Starflower Avenue
Waterloo, ON N2V 2L2

Dear Ms. Lanteigne,

RE: *Freedom of Information Request: West Side Piezometers*
FILE NO: A17-019-2010

We acknowledge receipt of your request pursuant to the *Municipal Freedom of Information and Protection of Privacy Act* (the Act), on April 23, 2010 for:

"An Ontario Municipal Board hearing case PL071044 secured concessions by way of 2 Technical Expert Meetings. At the Technical Experts Meeting – Water, Item #3 mandated the installation of mini-piezometers in Clair Creek. Planner Joel Cotter stated to me by email that they were installed in September 2009. I request the permits/records of installation, the start date of testing, and a map of their current location.

Re. 30T-97024, 30T-05403, 30T-05402 Draft Plan of Subdivision for West Side Lands."

Attached is an Index of Records responsive to your request, together with copies of documents released in whole or in part as noted in the Index. The reasons for denying access to certain records or portions of records and the relevant sections of the Act are detailed in the Index.

Enclosed are records which indicate the current locations of the mini-piezometers (referred to as boreholes within the responsive records), the start date of testing, and any record of installation. Please be advised that as permits are not required for the installation of boreholes, we have no records responsive to your request for permits.

The Act contemplates a user-pay principle. Pursuant to Section 45 of the Act and Ontario Regulation 823, the costs of responding to a request for information are recoverable at the rate of \$30.00 per hour for staff time, plus photocopying costs at the rate of \$0.20 per page. Please note we have waived costs at this time, however, subsequent costs resulting from an appeal, a review or a new request may apply in the future.

You may request a review of this by writing to:

The Information and Privacy Commissioner/Ontario
2 Bloor Street East, Suite 1400
Toronto, Ontario
M4W 1A8.

Please note that you must request a review within 30 days of receipt of this response.

If you would like to appeal this decision, please provide the Commissioner's Office with the following:

- 1) the file number listed at the beginning of this letter;
- 2) a copy of this decision letter;
- 3) a copy of the original request for information which you sent to the City of Waterloo.

In addition, you must send an appeal fee to the Commissioner's office. If your request was for your personal information, the appeal fee is \$10.00. The appeal fee for all other requests for information is \$25.00. Please include the fee in your letter of appeal. Appeal fees should be in the form of either a cheque or money order made payable to the Minister of Finance.

Yours truly,



Lindsay Walden B.P.A.P.M., M.I.P.P.
Elections & FOI Coordinator
T 519.747.8704 | F 519.747.8510
lindsay.walden@waterloo.ca

Index of Records

Access Request, Municipal Freedom of
Information and Protection of Privacy Act

West Side Piezometers

City of Waterloo File No. A17-019-2010
May 10, 2010

"An Ontario Municipal Board hearing case PL071044 secured concessions by way of 2 Technical Expert Meetings. At the Technical Experts Meeting – Water, Item #3 mandated the installation of mini-piezometers in Clair Creek. Planner Joel Cotter stated to me by email that they were installed in September 2009. I request the permits/records of installation, the start date of testing, and a map of their current location.

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Doc. No.	General Description	Date	Release (yes/no)	Section Applied	Comments	No. of Pages
1	Email / P. Fitzgerald, J. Cotter	Mar 16, 2010	Yes			2
2	Email / J. Grubb, J. Cotter, L.B. Bulford, K. Eby	Nov 4, 2009	Yes			1
3	Report / Additional Groundwater Monitoring Well Installations	Oct 27, 2009	Yes			7

Joel Cotter

From: Fitzgerald, Peter [Peter.Fitzgerald@stantec.com]
Sent: Tuesday, March 16, 2010 5:40 PM
To: Joel Cotter
Cc: Jones, Martin
Subject: RE: West Side Subdivisions - Groundwater Monitoring
Attachments: Attachments.zip

Here's another copy of the LVM Naylor report, that was originally provided to the following on November 4, 2009. Term Mini-piezometers wasn't used but I'm sure this is what you are looking for.

From: Grubb, Joe

Sent: Wednesday, November 04, 2009 8:16 AM

To: Joel Cotter; Lisa Beth Bulford; Kevin Eby

Cc: Johnston, Craig (Kitchener); Robertson, Scott; 'Douglas Stewart'

Subject: Waterloo West Side Lands - OMB Case No. PL071044 Vista Hills - Additional Monitoring Wells Completed

Attached for your information and files is the report relating to the advancement of 3 additional boreholes as agreed to at the OMB mediation. The monitoring wells were completed on September 29th and were immediately included in the monitoring program carried out by Stantec Consulting on the West Side Lands.

Please let us know if you require anything further.

Regards

Peter Fitzgerald, P. Eng.
Project Manager
Stantec
49 Frederick Street
Kitchener ON N2H 6M7
Ph: (519) 585-7437
Fx: (519) 579-8664
Cell: (226) 808-3523
peter.fitzgerald@stantec.com
stantec.com

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From: Joel Cotter [mailto:Joel.Cotter@waterloo.ca]
Sent: Tuesday, March 16, 2010 4:59 PM
To: Jones, Martin

Cc: Fitzgerald, Peter

Subject: West Side Subdivisions - Groundwater Monitoring

Martin,

I hope all is well. I received an email from Ms. Louise Lanteigne asking whether-or-not the mini piezometers have been installed next to Clair Creek, and if so when. She would like to inform her hydrologist. If you recall, during the experts meeting for OMB PL071044 (West Side Subdivisions), the water experts agreed to the installation of additional mini piezometers (2 or 3) along the North Branch of Clair Creek to allow additional data collection during the on-going pre-development monitoring program. Craig Johnston (Stantec) represented the developers at the water experts meeting. It is my understanding that the mini piezometers were installed, but I do not have records to confirm when they were installed. Your assistance in this matter is appreciated.

Regards,

JOEL COTTER MCIP RPP

Development Services

City of Waterloo

tel: 519.747.8543

fax: 519.747.8523

e: joel.cotter@waterloo.ca

TTY 1.866.786.3941

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If you have received this communication in error, please notify the sender immediately and delete this email (including attachments) without reading, copying or forwarding it to anyone. Thank you for your cooperation.

Joel Cotter

From: Grubb, Joe [joe.grubb@stantec.com]
Sent: Wednesday, November 04, 2009 8:16 AM
To: Joel Cotter; Lisa Beth Bulford; Kevin Eby
Cc: Johnston, Craig (Kitchener); Robertson, Scott; Douglas Stewart
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<<4489H9.L02.pdf>>

Joe Grubb, C.E.T.

Senior Associate

Stantec

Ph: (519) 585-7279

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LVM-Naylor
Division of Naylor Engineering Associates Ltd.

353 Bridge Street East
Kitchener (Ontario) Canada N2K 2Y5
Telephone: 519.741.1313
Fax: 519.741.5422
www.lvmnaylor.com

EMAIL TRANSMISSION

October 27, 2009

Stantec Consulting Ltd.
49 Frederick Street
Kitchener, Ontario
N2H 6M7

Attention: Mr. Joe Grubb, C.E.T.

**Subject: Additional Groundwater Monitoring Well Installations
Vista Hills Subdivision
Wilmot Line
Waterloo, Ontario
4489H9.L02**

Dear Sir:

LVM-Naylor is pleased to submit this summary of the field work recently completed at the above referenced property.

The current field program involved the advancement of three boreholes to depths between 5.18 and 8.08 metres below ground surface to identify the subsurface soil and groundwater conditions. The boreholes were advanced on September 29, 2009, by Geo-Environmental Drilling Inc. under the full-time observation of a senior technician from LVM-Naylor using a CME-75 track-mounted drillrig equipped with continuous flight hollow stem augers at the locations shown on the appended Site Plan.

Soil samples were recovered from the boreholes at regular 0.75 and 1.50 m depth intervals using a 50 mm diameter split-spoon sampler in accordance with the Standard Penetration Test (SPT) procedure (ASTM D1586). All soil samples obtained from the boreholes were submitted for moisture content analysis.

The laboratory results for moisture content are presented on the appended borehole logs. As shown on the appended logs, the subsurface stratigraphy varied considerably between the boreholes. In Borehole (BH) 1001, a thin layer of sandy silt topsoil was found overtop of sand deposits, beneath which silt deposits were found. In BH 1002, a layer of clayey silt was found between deposits of peat and marl. In BH 1003, silty topsoil was found overtop of a layer of silt, and deposits of silt and sand.

The borehole locations were surveyed by Stantec Consulting Ltd. and supplied to LVM-Naylor in CAD format. It is understood that the elevations are related to a geodetic datum.

As part of the borehole drilling program, monitoring wells were installed for ongoing measurement of groundwater levels. The 50 mm diameter monitoring wells were constructed by inserting slotted, Schedule 40 PVC well screen and riser pipe into each open auger hole. Sand was then added in order to place a filter pack around the well screen, until the level of the sand was approximately 300 mm above the top of the screen. In Borehole (BH) 1002, upper (-U) and lower (-L) monitoring wells were installed in separate stratigraphic units, with the shallower monitoring well (BH 1002-U) constructed using 19 mm PVC tubing with a fabricated 0.61 m screen and vented riser pipe to allow accurate water level measurement

A bentonite seal was then placed above the sand pack to prevent the infiltration of surface water. The top of the well riser pipes were vented to allow accurate measurement of stabilized groundwater levels, and protective steel casings with lockable covers were concreted in place to house each monitoring well.

All of the monitoring wells were constructed in accordance with Ontario Regulation 372/07 (formerly O. Reg. 903) as administered by the Ontario Ministry of the Environment (MOE). Well records were submitted to the MOE based on the cluster system whereby one well record can be submitted on behalf of an entire property. Provincial Site Cluster Tag Identification Number A085292 was placed on the monitoring well at BH 1003.

Water level measurements were taken on October 5 and 15, 2009, with measurements summarized in the appended Table 1.

Subsequent water level measurements at BH 1002 will shed light on the groundwater conditions in the peat deposits. Based on the measurements collected on October 5 and 15, it appears that the groundwater level at BH 1002 varies considerably in response to precipitation events; which is likely due to its location in a topographically low area.

Please note that ongoing monitoring of BH 1001 through 1003 will be required. It is presumed that Stantec Consulting Ltd. (the consultants who are managing the current monitoring program at the site) will add these three wells to their monitoring program.

I trust this summary is suitable for your present requirements. If you have any questions or comments, please feel free to contact our office.

Respectfully submitted,



Chris Helmer, B.Sc.
Groundwater Scientist
jmp

Encl. Table 1 – Groundwater Level Measurements
Encl. Borehole Logs – Boreholes 1001 to 1003
Encl. Drawing 1 – Site Plan

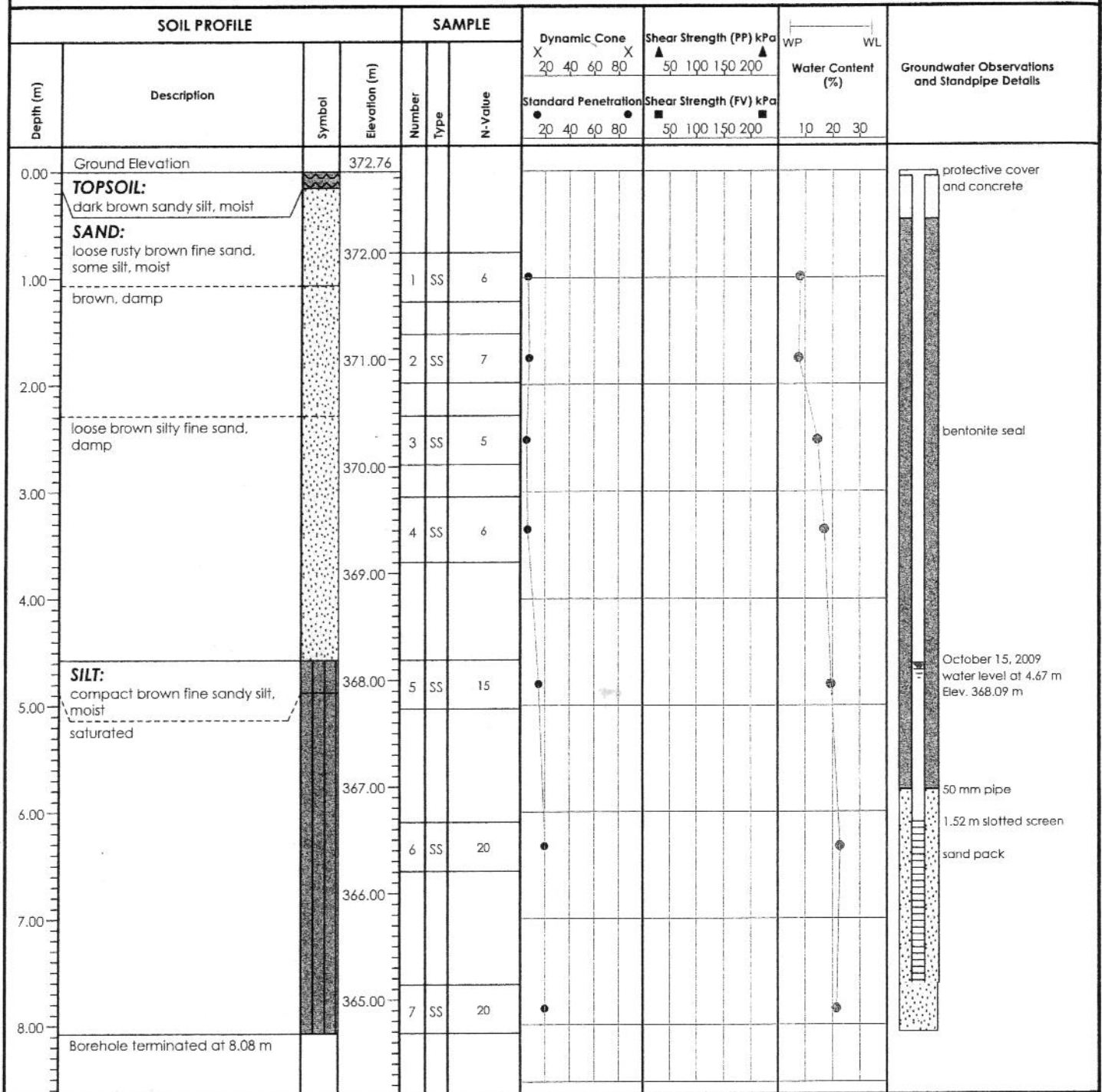
1ec William J. Gies Construction Ltd., Mr. Bill Gies
1ec Townline Estates, Mr. Paul Puopolo
1ec Activa Group, Mr. Peter Armbruster
1ec IBI Group, Mr. Douglas Stewart

TABLE 1**MEASURED GROUNDWATER ELEVATIONS****Vista Hills Subdivision
Wilmot Line
Waterloo, Ontario**

Well Name	Ground Surface Elevation (mASL)	Stickup (m)	Oct. 5/09 Depth to WL (mBTOP)	Oct. 5/09 WL Elevation (mASL)	Oct. 15/09 Depth to WL (mBTOP)	Oct. 15/09 WL Elevation (mASL)
BH 1001	372.76	0.61	5.77	367.60	5.28	368.09
BH 1002-U	371.74	0.86	dry	dry	1.35	371.25
BH 1002-L	371.74	0.80	4.16	368.38	1.26	371.28
BH 1003	372.30	0.70	5.01	367.99	4.20	368.80

Notes:

1. mBTOP - metres below top of pipe
2. mASL - metres above sea level
3. WL - water level



Reviewed by: CH
Drill Method: Hollow Stem Auger
Notes:

Field Tech.: RM
Sheet: 1 of 1
Drafted by: SM

Project: Additional Groundwater Monitoring Wells - Vista Hills Subdivision

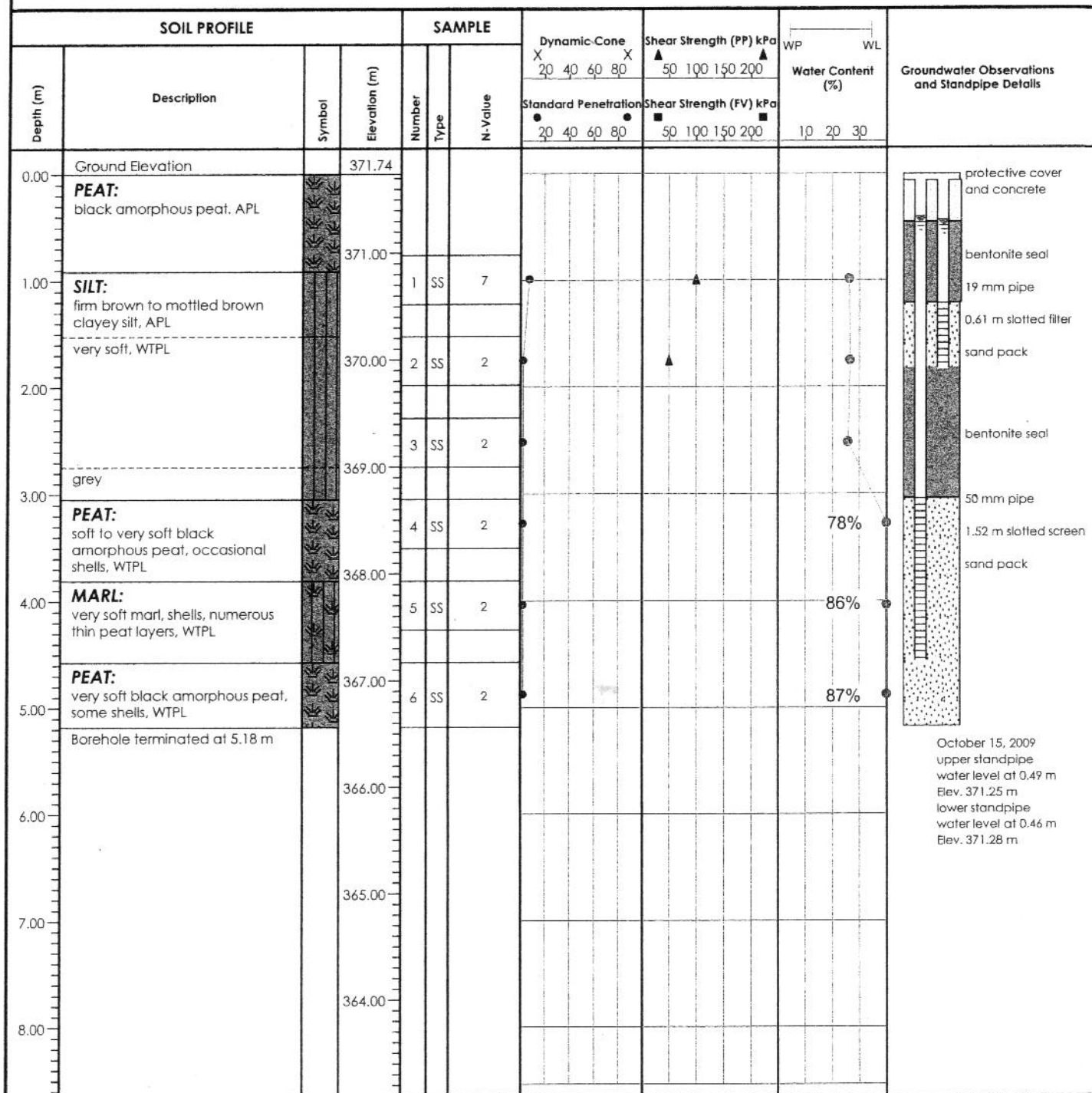
Location: Wilmot Line, Waterloo, Ontario

Borehole Number: 1002

Ground Elevation: 371.74 m

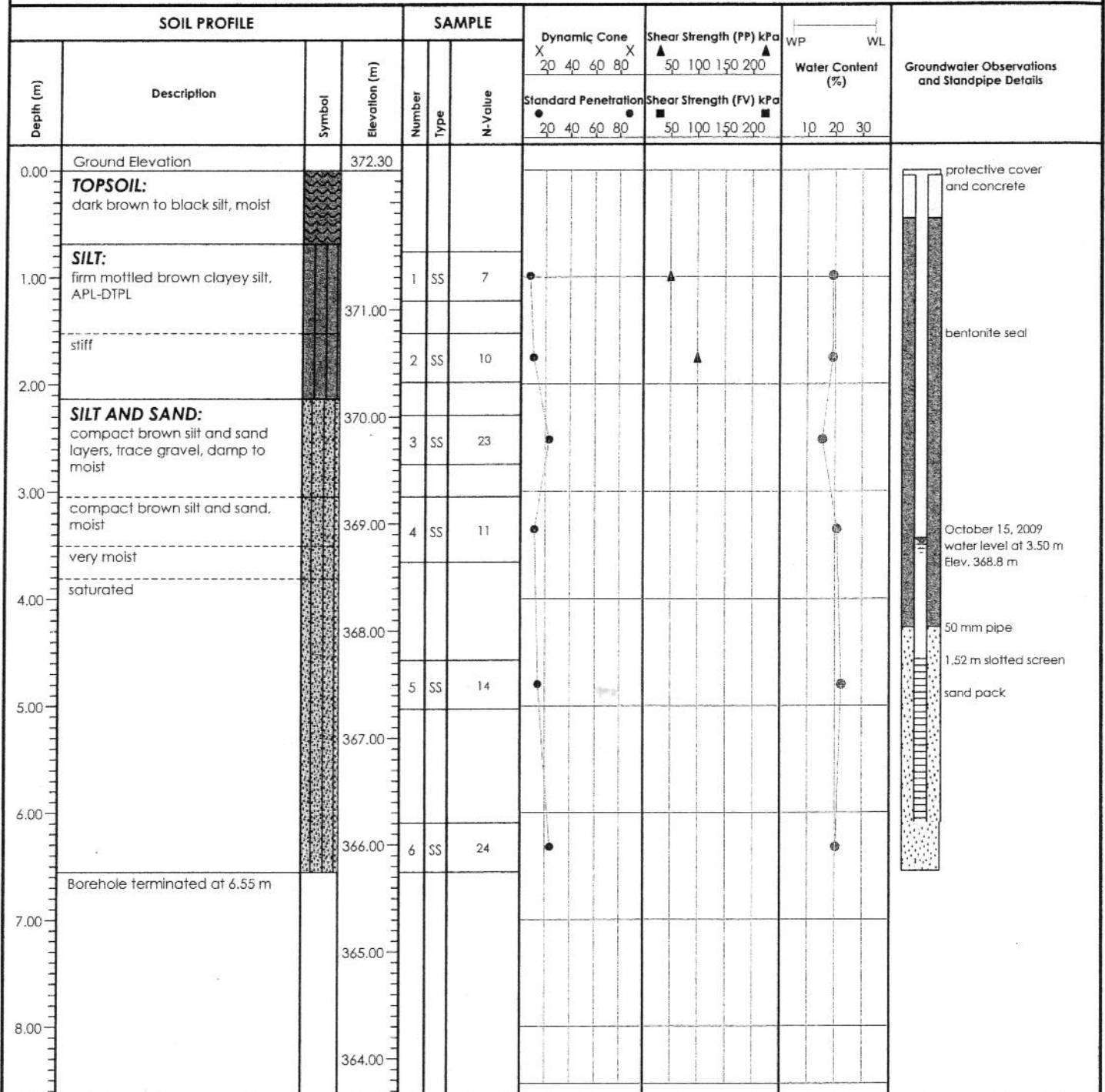
Job No.: 4489H9

Drill Date: September 29, 2009



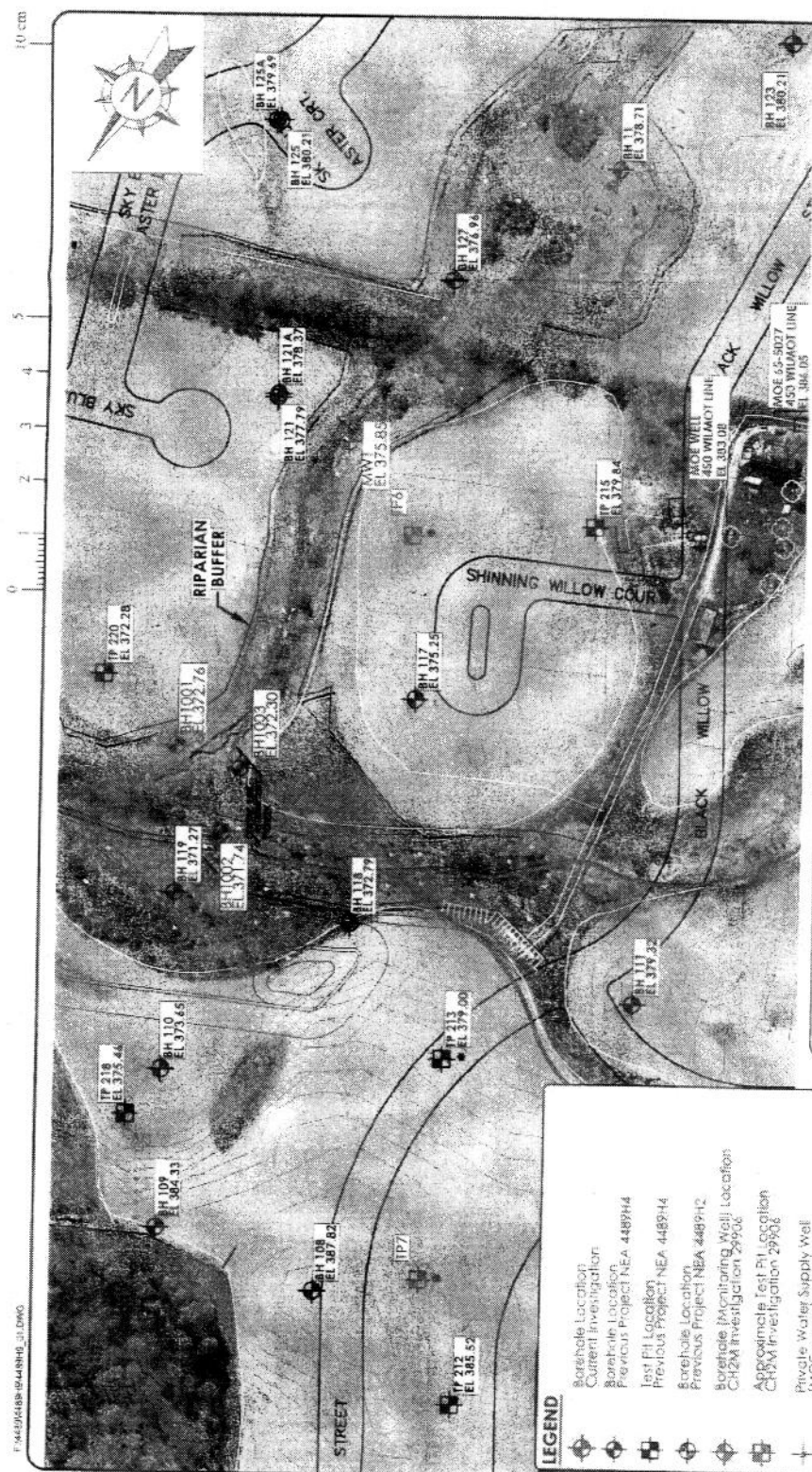
Reviewed by: CH
Drill Method: Hollow Stem Auger
Notes:

Field Tech.: RM
Sheet: 1 of 1
Drafted by: SM



Reviewed by: CH
Drill Method: Hollow Stem Auger
Notes: MOE Well Tag No. A085292

Field Tech.: RM
Sheet: 1 of 1
Drafted by: SM



LEGEND

**Additional Groundwater
Monitoring Wells
Vista Hills Subdivision**

10

SITE PLAN

1-REFERENCES : Siantec Consulting Ltd, FILE : dwg.
Grand River Conservation Authority, 2006 Aerial
Photography (2009)

LVM
NAYLOR

Project manager	Chelmer					
Scale	1 : 2500					
Date	2009-10-26					
Project name	4489H9					
Work package	Sub-w.p.					
DWG.						
Printed	Yes					
Drawn on	A					
Rev.						