



**Historic Landfill Site Reviews**  
**Grey County**

Prepared for:  
County of Grey

Prepared by:  
Azimuth Environmental  
Consulting, Inc.

March 2015

AEC 13-209



Environmental Assessments & Approvals

March 25, 2014

AEC 13-209

Corporation of the County of Grey  
595 9th Ave East  
Owen Sound, ON  
N4K 3E3

Attention: Mr. Scott Taylor,  
Senior Planner

Re: **Historic Landfill Site Reviews**

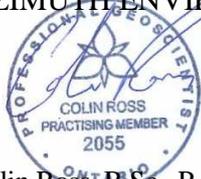
Dear Scott:

Azimuth Environmental Consulting, Inc. is pleased to provide the following report which presents the results of our review of a number of properties that had been previously designated as potential landfill / dump sites by the Ministry of Environment and Climate Change (Ministry). The bulk of this assessment continued previous efforts by the County to obtain all available information on these sites from the Townships and local Ministry offices. The following report outlines both the findings of our assessment as well as the process undertaken to establish the potential risk level associated with each of the Sites.

We trust this information is suitable for your current needs. Please feel free to contact the undersigned at any time with any questions or concerns.

Yours truly,

AZIMUTH ENVIRONMENTAL CONSULTING, INC.



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Senior Hydrogeologist

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Senior Environmental Engineer

Attach:

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## 1.0 INTRODUCTION

Azimuth Environmental Consulting, Inc. (Azimuth) was retained by the County of Grey (County) to conduct an assessment of a number of properties located in the County that had previously been identified as historic landfill / dump sites by the Ministry of Environment and Climate Change (Ministry). Given development restrictions exist for these properties as well as those located within 500 m of any active or closed landfill site according to Ministry of Environment Guideline D-4 (*Land Use On or Near Landfills and Dumps [1994]*), the County wanted to update their database regarding these sites with respect to their associated risk.

The Ministry compiled the original waste disposal site inventory in 1980 and has since updated this list on several occasions. The original list was developed in part to locate waste disposal sites that had been used and closed prior to 1971 prior to the commencement of the Ministry's waste disposal site certification process. It was noted that "... [h]earsay and memory, with all their uncertainties, necessarily had to play a large role in collecting data. Municipal records were often too skimpy to provide reliable leads which would have been welcomed, and half-forgotten memories served in their stead ...", (MOE, 1980). It was also noted that "... [d]uring the study, some additional sites were included resulting from information received directly from the public and reported to the Ministry rather than the survey teams. This often occurred (sic) as a result of publicity and fact sheets in which we sought help from the community ...", (MOE, 1980).

In 1980, the Ministry identified 42 waste disposal sites in the County of which one location had a Certificate of Approval, two others had former Certificates of Approval, 34 locations had been documented in Ministry files and five new locations were identified as part of the study. Subsequent waste disposal site inventories were published in 1986, 1988 and 1991 and more recently the Ministry has published the waste disposal site inventory on-line<sup>1</sup>. By 1988, the Ministry had increased the number of waste disposal sites in the County to 76 of which 15 were active and 19 were closed and former certified sites and 42 were closed prior to 1971 and revised to 75 sites in 1991<sup>2</sup>. The 2014 waste disposal site inventory has been reduced to the 34 certified sites present in the Ministry's database and excludes all pre-1971 facilities.

From this compendium of information a number of sites were noted by the County and local municipal staff to be incorrectly located. As such, part of the current assessment is to refine the locations where sufficient information allows. This additional information will be used to refine potential development restrictions established in the County's

<sup>1</sup> <http://www.ontario.ca/environment-and-energy/small-landfill-sites-list>

<sup>2</sup> Site No.: x2092 [was](#) determined to no longer be a site in the 1990 inventory



official plan such that they are based on site specific risk and site locations that have been confirmed through sufficient evidence.

The following report outlines the process undertaken to evaluate each of the sites as well as the findings relative to the screening criteria established by Azimuth to complete these assessments.

## **2.0 BACKGROUND**

The County's official plan, which was approved in 1998 included landfill designation for a number of properties across the County as per records produced by the Ministry. These records included both active and closed sites which were known and/or registered with the Ministry through the issuance of Provisional Certificates of Approval's (CoA) that permitted these properties to be used as both private and public waste facilities. Additional sites were also included in the Ministry inventory based on previous site surveys completed by the Ministry in the 1980s and early 1990s. Much of this information was published by the Ministry in their document *Waste Disposal Inventory* (MOE, 1991), which included tabulated information for all active and inactive sites across Ontario. Information provided in these tables included such items as UTM's, Site ID / CoA #, lot / concession, Township, waste type, closure date, class, waste type and closure date. Supplement data from the other available waste disposal site inventory reports was added to this tabular summary.

As noted above, a central issue with this database is the lack of supporting information for the older closed sites (i.e., pre-1971 facilities) as a number of these non-registered sites have limited information on the type, size or even specific location of facility. Through previous investigations of similar sites in Simcoe County, Azimuth has found that some of the more historic sites that were included in the inventory utilized circumstantial evidence provided (ex. local residents recollections, or small waste or brush piles visible). As such a number of sites included in the inventory may be misrepresented or constitute an insignificant waste volume (i.e. old stump or farm dump) or wastes which have since been removed from that location. It has also been found from previous investigations completed by Azimuth as well as through correspondence with the County that many of the UTM locations are inaccurate based on known site locations and in some cases are more than 500 m to >1 km from the actual site location.

The cause of location errors is attributed to several potential errors which may include transcription errors, NAD 83 / 27 differences, lot and concession recording mistakes or some combination of these factors. As such, it has proven to be difficult to rely on site location information without other supporting information.



### **3.0 LANDFILL RISKS TO ADJACENT LANDUSERS**

For the purposes of establishing risk to surrounding properties, which is ultimately the goal of this investigation, there are two specific areas which were the focus of the risk evaluation. Landfill gas (i.e., methane) and leachate are the two main concerns with respect to landfill impacts to surrounding property users. Landfill gas migration in the subsurface can create an explosive hazard within neighbouring structures if allowed to collect within a confined space through the subsurface (i.e., basement). Landfill gas is generated from the microbial breakdown of organic materials within a waste source under anaerobic conditions. The rate of production is affected by waste composition and landfill geometry, which in turn influence the microbial populations within it, chemical make-up of waste, thermal range of physical conditions.

As for landfill gas migration potential, this is dependent on source concentration / volume as well as the geological medium. For instance methane migration would typically be prevalent within unsaturated sands due to the presence of highly interconnected pore space, while saturated conditions or finer grained material (i.e., clay) would limit the migration potential. As a rule of thumb, migration distance is approximately 10 m laterally for every meter the waste is emplaced below ground. It is also noted landfill gas migration would tend to migrate the longest distance towards upslope areas, while limited in down slope areas due to active venting to surface.

Leachate quality is typically shown to be controlled by the availability of soluble contaminants in the waste pile, the age of the waste, the residence time of infiltrating water in the waste, and the physical conditions (i.e., temperature, redox potential, and pH) of the solution. Compared to natural waters, leachate that is produced from landfilled waste typically possesses elevated concentrations of calcium, magnesium, sodium, potassium, iron, zinc, chloride, sulphate, alkalinity, ammonia, total kjeldahl nitrogen (TKN), conductivity, total dissolved solids, dissolved organic carbon, and/or phenols (Jones, 2001). Leachate impacts typically impair the water quality such that some or many parameter concentrations exceed drinking water standards and may impart discolouration or a foul smell to the water.

Similar to landfill gas migration, movement of leachate impacted ground water is dependent on the environmental setting. As leachate would typically migrate vertically to the closest underlying aquifer, its horizontal movement is dependent on the hydraulic properties of the local geology. Migration potential is much greater in materials such as fractured bedrock or sand than it would be in finer grained materials such as silt, clay, glacial till, or competent bedrock. However, the waste pile itself is not overly permeable and thus the flux from the waste pile can be limited by this permeability especially if discharged into a much more conductive environment.



## 4.0 STUDY APPROACH

The County had provided a list of all landfill properties identified in their official plan mapping. In total there were 62 sites that were designated as closed landfill sites. Given these sites varied significantly with respect to size, age, location (urban vs. rural) and available information, a strategic approach was developed to assess these sites with respect to risk level (human health and environmental). The approach taken is summarized in the following sections.

### 4.1 Initial Screening - Documentation Review

Prior to Azimuth becoming involved in this project, the County had collected all available information from the nine municipalities located within the County. This information included:

- revised site locations based on local knowledge of the areas;
- previous site investigations including monitoring reports, Ministry D-4 Guideline reports or Environmental Site Assessments (ESA) for the landfill site or an adjacent property; and
- general information regarding the history of the sites (i.e. waste type, historic ownership details, age of site, closure date)

Through review of this information, the list of 62 was segregated into two categories

- **Risk Level Well Understood:** Previous site investigations have been completed such that the County has sufficient reference material (i.e., D-4 Guideline assessment or monitoring report). *No further investigation was undertaken*
- **Further Investigation Required:** Either no or minimal site information is available such that a determination of site risk cannot be established. *Further investigation required*

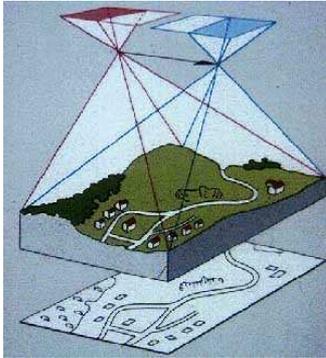
Additionally, this initial screening also included the revision of site locations based on any information provided by the municipalities indicating that the initial site locations were inaccurate.

### 4.2 Air Photo Interpretation

For the sites identified in the initial screening as requiring additional investigation, the subsequent phase of the assessment was to review available aerial photographic resources to locate and potentially delineate waste mounds or fill areas associated with the historic waste disposal sites. Digital aerial imagery mapping for the entire County was reviewed for the years 2006 & 2010, while 1978 aerial photos provided by the County were also



utilized in the review. As sequential flight line photos were provided, stereoscopy interpretation was completed for the 1978 aerial photography collection.



Stereoscopy is a technique for creating or enhancing the illusion of depth in an image by means of stereopsis for binocular vision. Most stereoscopic methods present two offset images separately to the left and right eye of the viewer. These two-dimensional images are then combined in the brain to give the perception of 3D depth. This technique is distinguished from 3D displays that display an image in three full dimensions, allowing the observer to increase information about the 3-dimensional objects being displayed by head and eye movements. The adjacent graphic depicts the technique.

Thus, a more thorough review of the existing aerial photography using stereoscopic techniques was possible to be more effective than the review of single contact sheets. Although this technique was utilized for some sites, the County had a limited aerial photographic database such that stereopairs were not available for many sites.

Additionally, historic aerial photographs from 1954 were also reviewed, however, the scale (1:63,360) of these images was insufficient for any meaningful interpretation for the majority of the sites given their limited size. As well, this imagery predates many of the landfill operations in question. The focus of the review of these historic aerial photographs was for the Owen Sound sites as some were noted to be in operation during the 1950s.

Although limited through much of the County, Google Street view was also utilized to view some of the subject properties from a horizontal perspective. This method was of most useful for the urban locations (i.e., Hanover, Meaford & Owen Sound) where the landfill areas were designated to be closer to roads and there was limited vegetation to obstruct views of the properties.

One final approach that was taken where the aerial photographic interpretation was limited due to poor image quality or insufficient scale to delineate the property, additional aerial photographs were collected using an Azimuth staff member who is a licensed pilot and maintains a plane locally. The plane uses a GPS system which was able to target site locations and provide images at a more detailed scale such that any potentially site anomalies could be observed.

Through the abovementioned review, the list of sites was further refined into the following categories:



- site visits definitely recommended;
- insufficient information is present to gain much from a site visit, as such it was recommended that additional information be gathered from property owner;
- sufficient information present that landfill does not pose risk and no further work was required;
- sufficient information that landfill was present that MOE Guideline D4 assessment would likely be recommendation; or
- site located in urban location, no site visit required.

### **4.3 Field Investigations**

Once the initial screenings had taken place, a number of sites were targeted for potential field investigations. Prior to these site visits, the County submitted requests to the property owners for these subject properties inquiring about site access and any additional information they may have including site history or a more refined location of where the possible waste area is on the property. A similar request for information was also submitted to surrounding property owners in order to gain some additional “local knowledge” for these sites.

The site visits were completed in November 2014 and included a cursory inspection of the property to denote any anomalies in the topography of the site, ground surface disturbances, irregular vegetation or exposed wastes, which may help to refine and / or delineate a potential waste area. In areas where a waste area was able to be delineated either through field observation or information from the property owner, a few shallow (~0.5 to 1 m) hand dug boreholes were completed to assess the presence and waste type (if possible).

### **4.4 Additional Site Risk Characterization**

Once the initial screenings have been completed, as documented above, it was important to evaluate these sites with respect to their associated risks based on the variables established in these initial screening tasks. There are many variables which factor into whether a site poses a risk, but for the purposes of this evaluation, the following were considered.

- Age of Site (since closure);
- Landfill Size;
- Waste Type;
- Environmental Setting (potential for leachate or gas migration);
- Location (area of existing or future development);



- Presence of municipal servicing in area;

It is noted that typical landfill evaluations may consider additional variables; however, given the scope of the project and the type of site considered for this evaluation (historic, small, non-engineered facilities), the abovementioned criteria are thought to be the most appropriate means of assessing potential risk.

## 5.0 RESULTS

Based on the approach outlined previously, the list of designated landfill sites has been segregated into the following categories. For reference, a list of all sites has been provided in Appendix A, while all supporting documentation currently held by the County and obtained as part of this investigation has been included in Appendix B. This list provides a summary of some of the information obtained and compiled during the site reviews. The list also segregates the sites based on the findings of the assessments into the following categories:

### 5.1 Risk Assessment Previously Completed

This category refers to properties where previous investigations have taken place on the adjacent landfill sites which provide information the risk associated with those landfill sites. These reports included Ministry D-4 Guideline assessments, hydrogeological evaluations, landfill performance monitoring reporting or Environmental Site Assessments (ESA). As discussed with the County at the outset of this project, the sites which fall into this category were not reviewed in any detail other than to document that an assessment had previously been completed. It has been assumed the County can refer to these documents in determining potential requirements for development of the subject property or surrounding lands. The following sites have been included in this category.

**Table 1: Closed Landfills with Previous Site Assessments Completed**

MOE Landfill ID Number	Municipality	Previous Investigation
Chat - Unk -2	Chatsworth	Abandoned Landfill Assessment (REI - April ,2012)
A261203	Grey Highlands	Closed Landfill Study - Eugenia Site (Gartner Lee Ltd - April 2008)
A260801	Grey Highlands	D4 Study For the Closed Flesherton Landfill Site (Gamsby & Mannerow - April 2008)
A261205	Grey Highlands	Closed Landfill Study - Markdale Site (Gartner Lee Ltd - April 2008)
A261603	Southgate	Phase II ESA - Former Waste Transfer Station (REI - May, 2005)
X2090	Blue Mountains	Environmental Impacts Study - Thornbury Closed Landfill Site (Burnside - July, 2010)
A261402	Blue Mountains	Environmental Impacts Study - Clarksburg Closed Landfill Site (Burnside - July, 2010)
X5147	West Grey	Environmental Evaluation to Address MOE Guideline D4 (Genivar - August, 2011)
X5148	West Grey	Environmental Evaluation to Address MOE Guideline D4 (Genivar - May, 2012)
A261001	West Grey	D4 Study For the Closed Neudstadt Landfill Site (Gamsby & Mannerow - June 2008)
A260202	West Grey	D4 Study For Land Use on or Near Landfills and Dumps - Former Town of Durham Landfill Site (Gamsby & Mannerow - August 2013)
A261803	West Grey	Annual Monitoring Reports - Gleneig Landfill Site (Geinvar, 2010 & 2011)



## 5.2 Sites Cleared Through Local Municipal Information

There were a number of sites which upon additional information gathered from local township officials were identified as incorrectly designated properties. A list of these sites is provided below.

**Table 2: Sites Cleared Using Additional Information from Municipalities**

MOE Landfill ID Number	Municipality	Other info
Chat - Unk - 1	Chatsworth	County file indicates there is a letter from Ministry of Environment clearing site
A261801	West Grey	Municipality provided County mapping revisions which included comment that this site does not exist
GH - Unk	Grey Highlands	Municipality provided County mapping revisions which included comment that this site does not exist
A260201	West Grey	Township of West Grey Provided Statement Letter from Bev Wiggins stating there was no landfill located on the property identified by the Ministry of Environment (Sep, 2011)
X5146	West Grey	Township of West Grey Provided Statement Letter from Pauline Nixon stating there was no landfill located on the property identified by the Ministry of Environment (Sep, 2011)

## 5.3 Sufficient Information Available to Determine Insufficient Risk Exists (Urban Locations)

There were a number of sites where there is sufficient information and evidence to indicate that the sites do not pose an inherent risk to human health or the surrounding environment. These sites are located in more urban areas and are some of the more historic sites in the County. As noted in the following table, most of the sites are located within the communities of Owen Sound, Hanover, and Meaford and are greater than 34 years old, with some greater than 50 years old. Given the age of these sites, there is limited potential for both methane and leachate generation as the waste source would have been depleted long ago. These locations were also noted to be relatively small with most sites being smaller than 1 ha, with no observable waste mound and in most cases are currently developed. This would likely indicate that there was no historic landfill, the wastes were removed historically prior to property development, or that the amount of waste was insignificant such that it did not inhibit the ability to develop the property.

Another aspect of the risk assessment is the fact that the three communities in which these landfill sites are located are municipally serviced for drinking water, such that there are no private water supplies which could be impacted by the former landfill sites.

A final note is that these sites are mostly located in historical neighbourhoods and all County information requests have not yielded any information that would indicate there have been issues (i.e. landfill gas, ground water contamination) with the potential presence of these historical landfill sites.



**Table 3: Sites Cleared Due to Insufficient Risk**

MOE Landfill ID Number	Municipality	Closure Data	Information From Review
X5151	Hanover	1950	Surrounding area built up, apartment building located on site. Street view does not indicate waste mound.
Han-Unk	Hanover	1940	Town indicated landfill on wrong property, actually next to racetrack property. Property now has stip mall and no visible waste mound.
X5152	Hanover	1945	MOE documentation notes is being in Hanover Park, which does not correlate with original location. Given age and lack of information regarding site, there is little potential for methane or ground water risks
A261601	Southgate	1976	No visible mound from airphotos or road side, property currently developed with residence. Phase II ESA for property located across road (<30m) indicated no leachate impacts to soil or ground water in the monitoring wells installed on that property
X2087	Meaford	1946	Berry Street, located in historical residential area. Street view shows no evidence of waste mound
X2088	Meaford	1946	Coleman Street, located in historic residential area, street view shows nothing, closed at latest 1946
X2089	Meaford	1946	Fuller Street, no infor, in historic residential area, street view shows nothing. closed at latest 1946
A262401	Meaford	1974	Methane collection system installed in 1970's and houses approved to be built immediately surrounding site in 1977. Given age and lack of risk in 1977, it is assumed there are not currently any risk associate with surrounding development
Grey Highlands	A261202	1978	No information provided from local survey. Historical airphotos appear to show house constructed in 1978 and no other surficial disturbances noted which would indicate a landfill is located in area.
X2082	Owen Sound	1955	City of Owen sound-Abandoned Landfill Sites (Map CL-1), located in residential area, no street view, operated 2 months
X2083	Owen Sound	1956	City of Owen sound-Abandoned Landfill Sites (Map CL-1), school yard, flat at top of escarpment, operated 6 months
X2081	Owen Sound	1955	City of Owen sound-Abandoned Landfill Sites (Map CL-1), located behind houses at bottom of hill along river, can not see much from street view, operated 4 months
X2077	Owen Sound	1946	City of Owen sound-Abandoned Landfill Sites (Map CL-1), waterfront area, treed and cleared areas, no visible mound, operated 8 years
X2086	Owen Sound	1950	City of Owen sound-Abandoned Landfill Sites (Map CL-1), vacant lot, manicured grass, no buildings, no mound, operated 6 months
X2078	Owen Sound	1953	City of Owen sound-Abandoned Landfill Sites (Map CL-1), current baseball diamonds, likely limited waste volume as no mound present, operated 7 years
X2080	Owen Sound	1958	City of Owen sound-Abandoned Landfill Sites (Map CL-1), current baseball diamonds, likely limited waste volume as no mound present, operated 4 years
X2084	Owen Sound	1959	City of Owen sound-Abandoned Landfill Sites (Map CL-1), scrub brush and small trees, no development, no mound, likely limited waste volume. Operated 3 months
X2085	Owen Sound	1970	City of Owen sound-Abandoned Landfill Sites (Map CL-1), old pond area that was infilled, operated 12 years, currently monitored for methane under closure plan
X2079	Owen Sound	1952	City of Owen sound-Abandoned Landfill Sites (Map CL-1), forested land, no development, no visible mound, operated 6 months
X2100	Chatsworth	1960's	Township indicated landfill is where house currently is located on a 0.5ha lot. it was likely that waste was entirely burned or removed from site prior to the construction of the house.

#### 5.4 Insufficient Information – Further Work Required

This category refers to sites which have a confirmed location and have sufficient information to indicate waste disposal may have occurred on that property, or insufficient information to refute the possibility that no waste disposal occurred on that property.



Although the recommendations may differ between properties in this category, it is recommended that additional site specific assessment be completed at these sites such that there is a better understanding of the waste volume size, location as well as the local geology / hydrogeology. This work would need to follow the criteria established in Ministry Guideline D-4 and would likely require some form of subsurface investigation (i.e., test pitting or drilling program) in order to establish the potential risk of the property with respect to its surrounding properties. For clearance of the subject property itself for development, a more formal investigation would be required which would follow the Ministry's Environmental Site Assessment (ESA) guidelines requiring a formal Record of Site Condition (RSC) submission to the Ministry. The following table summarizes sites where initial confirmation of a landfill site were made either from information the County had on file from local municipalities and the Ministry as well as from an initial aerial photography screening which positively identified site locations where an obvious disturbance or mound was observed which would warrant a significant risk level.

**Table 4: Sites Requiring Additional Work**

Municipality	MOE Landfill ID Number	Closure Data	Summary
Blue Mountains	A261403	1977	MOE inspection in 2005 does not indicate any issues, but also does not confirm location. No disturbance in area indicating a potential waste mound. Known to be public landfill site during 1970's
Hanover	X5150	1960	Evidence to support former landfill operation and visible waste mound present.
Chatsworth	A262601	1970's	Evidence indicating Site was a historic township landfill
Chatsworth	A261902	1970	Former township landfill, no specific information or monitoring info for site, clearing noted on 1978 Airphotos
Georgian Bluffs	A261501	1983	Historic landfill owned by Owen Sound, closed in 1983, sizeable mound noted in air photos
Meaford	Mea - Unk	1992	Information provided indicating that methane was detected on property to east, although houses still built (Gates of Kent). Appears to be waste mound visible on Google Earth
Georgian Bluffs	GB-Unk	NA	Former public landfill in 1970's. No specific area or information has been identified from township other than it existed.
West Grey	X5149	1971	There is record of it being a landfill from 1960-1970. Historic reports or problems with rats, smoke and odour
Grey Highlands	A261201	1973	There is record of it being an old municipal landfill in the 1970's. Historic reports of rats and fires being problems. Most of the waste was noted to be burned
Southgate	South - Unk	NA	Current waste transfer site that is also a historic landfill site. Currently monitored by township

In addition to these sites, there were additional sites which were determined to fall into this category based on additional information collected as part of this investigation. This additional information included subsequent correspondence from the municipalities, feedback from a survey of local residents, as well as site visits or road side inspections. A brief assessment is provided for each site which includes a brief description of environmental setting, age, survey information and site observations. This information was utilized to formulate a risk level and subsequent recommendation for the sites.



### **Site A262001 – Georgian Bluffs**

**Closure Date** – 1973

**Landfill Size** – <1 ha

**Environmental Setting (potential for leachate or gas migration)** – The area is noted to be along an escarpment face with the road extending along the top and waste being thrown off the edge in areas where road is closest. Bedrock was noted at surface along road way, while a creek was noted to be flowing along the bottom of the escarpment.

Numerous local sources provided information that the site is located at the intersection of Kemble Rock Road and Georgian Range Road. It was noted to be an old cottage dump, but had been utilized by the township as well. It was noted that soil had been added to cover the waste and vegetation was planted to block access to edge of escarpment. Site access was not permitted, and obstructions were present in the area of the actual landfill such that the size or presence of a waste mound could be established. However, inspections from the roadside were completed further east where the escarpment face was closest to the road and it was noted that there were several small illegal dumping sites noted extending approximately 1 km east of the actual landfill site.

Although the age and size of this landfill site would provide a limited risk for both leachate and methane generation, further investigation is recommended to characterize the size of the waste area as this was not able to be confirmed by aerial photographs or a site visit. Despite this recommendation there are several mitigating factors to this type of waste disposal site. The landfill is located over the brow of the escarpment which would typically allow for a "cascade" of materials and also limit the thickness of the waste (barring any localized depression). The site is also relatively small (i.e., <1 ha) and therefore may not have the physical size to generate a methanogenic environment. The lands are zoned under the NEC as Escarpment Protected Lands and therefore there is little opportunity for future development in proximity to this location. The cascade of materials over the escarpment face on top of the talis would be expected to limit the ability to propagate any methane generated from the site since the talis would readily facilitate venting to the atmosphere up the escarpment face. The talis also creates an unsaturated zone which then does not readily permit frost penetration. Similarly, any leachate generation would percolate into the talis and be discharged as baseflow from the escarpment face. The regional geologic setting suggests there is little overburden cover. Leachate penetration will likely be limited by the presence of bedrock; whereas local ground water supplies would be associated with deeper / isolated lateral bedding plane conductive fracture beds in the bedrock profile. All of these factors contribute to the mitigating factors associated with this particular site deposition location and hence a reduced risk threshold.



### **Site GB-Unk – Georgian Bluffs**

*Closure Date* – NA

*Landfill Size* – ~1.64 ha

*Environmental Setting (potential for leachate or gas migration)* – The area is noted to be along the top of an escarpment face. Soils in area were noted to be a mixture of sand and gravel as well as clay.

Based on information provided by the Township, the location was confirmed as a historic public landfill site. Given the confirmation of a former landfill site and the size of the site, it is recommended that this site be further investigate the potential risks associated with this site. Despite this recommendation the same general mitigating factors identified above would be equally applicable to this waste disposal site.

### **Site X2108 & X2093 – Meaford**

*Closure Date* – 1940

*Landfill Size* – ~NA

These two sites have been combined as one given the only positive source of information indicating the presence of a historic landfill site came from Ontario Heritage Trust it was not clear as to which of the landfill ID's was where the landfill was located. Both locations are identified in the 1980 landfill inventory as Lot 15, Concession 9 of Sydenham Twp. It is suggested that the identification of these two locations were from Ministry files (MOE, 1980). It is noted that two former sand and gravel pits are situated on the east side of Concession 10 to the west which might be associated with these two reported locations; especially since historically such aggregate operation have been used for waste disposal following the closure of the operations.

*Environmental Setting (potential for leachate or gas migration)* – If present on Lot 15 Concession 9, these sites are located adjacent to an expanding quarry site, with the area being relatively flat sloping to the west where a small wetland feature is noted at the base of the slope. The geological mapping indicates a thin layer of glacial till atop the bedrock surface.

Based on information provided by Ontario Heritage Trust, there is a small mixed refuse dump site which was confirmed as a historic public landfill site. Given the confirmation of a former landfill site, lack of clarification on which property it is located and no –site visit being completed, it is recommended that this site be further investigated as the potential risks associated with this site before a more definitive determination of risk can be completed. This would include defining the specific landfill area and conducting a



site visit to assess any potential waste mound. Since it was indicated by Ontario Heritage Trust that they have a document (*Rocksprings property stewardship plan, 2000*) potentially containing information regarding the landfill site, it would be advisable to review that document to gather further information on the landfill (location, size and age). This information could be used to further refine the risk level of the site and potential for removal of the landfill designation.

Furthermore, notification to the aggregate operation might be appropriate since conceivably they will eventually cut into the former site as operations are expanded southward in Lot 15 Concession 9. If present then these two locations are likely to be mitigated by the continuing aggregate operations and cease to exist.

#### **Site X5149 – West Grey**

**Closure Date** – 1975

**Landfill Size** – 0.5 ha

**Environmental Setting (potential for leachate or gas migration)** – The area is noted to be situated in a flat area adjacent to the Saugeen River, which is located approximately 200 m to the north. The surficial geology of the local area is sand and gravel, which is supported by the fact the adjacent property is a historic aggregate pit.

A few local sources provided information that the site was a former landfill site, which was operated from the 1960s until approximately 1975. The site historically had issues with odour, rats and smoke from waste burning. It was also noted that the historic wastes were covered over following closure of the site.

Given the confirmation of a formal landfill operation and its environmental setting, it is recommended that a more detailed D-4 Guideline assessment be complete on this property before clearing risks for surrounding properties.

### **5.5 Insufficient Site Location Information**

This category refers to sites with insufficient information present to locate the actual landfill property. This refers to sites where the UTM data is known to be incorrect or there is some discrepancy as to what property the landfill is actually located on.

In this instance there is minimal information regarding any aspect of the landfill and therefore it would be difficult to develop a work plan to further delineate the waste area and associated risks. As such, it would be recommended that any requirements for investigation of landfill risk be removed from the County's official plan until such a time when new information is presented which allows for a more defined landfill location.



**Table 5: Insufficient Information to Investigate Further**

Municipality	MOE Landfill ID Number	Closure Data	Summary
Meaford	X2104	1960's	Property owner of designated landfill site has no knowledge of landfill on their property dating back to 1954. Airphotos do not indicated any evidence there was a landfill in the area.
Meaford	X2105	1965	Site located in the middle of a very large forest, with limited access in, very difficult to figure out where site is. Airphotos do not indicate any evidence there was a landfill in the area.
Meaford	X2106	1950	Previous property owner indicated no knowledge of any landfill on the property dating back 100 years. Airphotos do not indicate any evidence there was a landfill in the area.

### 5.6 Sufficient Information – No Additional Assessment Required for Neighbouring Properties

This category refers to sites where the available information for the site would indicate there is a low risk for potential off-site impacts resulting from the former landfill operations on the subject property. The criteria established for this evaluation are outlined in Section 3.4. As these sites involved a more site-specific evaluation to establish risk, each individual site has been summarized below. As these locations are all rurally located, it has been assumed that private wells service the surrounding properties and that wastes comprise of domestic and agricultural wastes.

#### Site X2096 - Chatsworth

**Closure Date** – 1940s

**Landfill Size** - <0.5 ha (estimate) – no visible mound

**Environmental Setting (potential for leachate or gas migration)** – The area is noted to be low lying, flat topography with standing water across some of the property with the exception of the residential development area. The surficial geology of the area is noted to be glacial till with depths ranging from 12 to 24 m to bedrock.

Based on the lack of visible waste mound from air photos and road side inspection, it is unlikely there is a significant amount of waste present that could generate either leachate or methane. Similarly, the age and underlying geology would not support the potential for any environmental risk to the surrounding properties (i.e. ground water contamination or soil methane migration).



### **Site X2098 - Chatsworth**

**Closure Date** – 1950s / 60s

**Landfill Size** - <0.5 ha (estimate) – no visible mound

**Environmental Setting (potential for leachate or gas migration)** – The area is noted to have undulating terrain with no surface water features present on site. The surficial geology of the area is noted to be a thin sand and gravel layer underlain by glacial till. Bedrock is found to be approximately 10 m bgs.

Information provided by the property owner indicated that the site was operated in the 1950s and 1960s, but the site was cleaned up with some or all of the waste being removed years ago. Other residents who responded indicated they had no knowledge of any waste being present at this site.

A site visit completed at this location indicated some surficial debris noted across the site and some small glass bits in a few shallow hand dug test holes (0.5 m deep).

Given the age of the site and the fact the township may have cleaned up the site in the past, it is mostly likely the site does not represent a risk to the surrounding properties. It would be advisable to keep a landfill designation on this property in the event that the site itself is developed; however, there is no need for a development buffer to be included for the surrounding properties.

### **Site X2101 – Georgian Bluffs**

**Closure Date** – 1970s

**Landfill Size** – <0.5 ha

**Environmental Setting (potential for leachate or gas migration)** – The area is noted to be along the top of an escarpment face with bedrock noted at surface over much of the area indicating a minimal overburden thickness is present. Some small karst features were noted during the site visit.

Based on the revised location provided by local residents, the location is immediately east of a closed section of Kemble Rock Road (dead end). Some illegal dumping of more recent yard waste was noted during the site visit; however, no waste or waste mound was present in the landfill area. As well, given the presence of bedrock at surface over much of this area, it is unlikely that any waste is still present at this site. It is assumed that if waste was deposited here historically, it was not likely a significant amount and likely represented an informal dump area with the waste since being removed.

Given the lack of waste present at the site, no further investigation is recommended for this site and it is suggested the landfill designation could be removed from the property.



### **Site X2102 – Georgian Bluffs**

**Closure Date** – NA

**Landfill Size** – <0.5 ha

**Environmental Setting (potential for leachate or gas migration)** – The area is noted to be along the top of an escarpment face with bedrock noted at surface over much of the area indicating a minimal overburden thickness is present. Some small karst features were noted during the site visit.

Based on information provided by the local residents, it was noted that the original landfill location was incorrect and that although there is no formal landfill site, there are several small areas further north along Georgian Range Road that have been subject to illegal dumping along the escarpment edge. These locations are areas where the roadway is closest to the escarpment face, allowing for easy access. Observations made by the road side indicated that small piles of debris were noted including bulky items, yard wastes and some loose garbage bags. Several of these areas were noted along Georgian Bay Road, but none represented significant waste amounts and none of the areas appeared to have been covered (i.e. no waste mound).

Although dumping activities are evident in this area, there is no information or evidence collected from the site visit to indicate a formal landfill operation was present in that area. It is most likely this area has historically and currently been utilized as an informal dump area. Although the township and property owners should address the on-going illegal dumping activities and promote clean up of this area, the landfill designation for this area should be removed as there is no leachate or methane hazard present.

### **Site X262101 – West Grey (refers to multiple landfill “dots” southwest of Ayton)**

**Closure Date** – 1975

**Landfill Size** – ~NA

**Environmental Setting (potential for leachate or gas migration)** – The site is located in a low lying area at the east end of the community of Ayton. A small tributary extends along the east end of the property to the northeast. Overburden materials noted in the area comprise of sand and gravel. Several historic aggregate pits are located at the west end of the town.

Based on information provided by the local survey, several respondents indicated they were not aware of any historic landfill sites, however, one respondent indicated the locations may be wrong as there was an old landfill at the end of Albert Street in Ayton, which was closed approximately 30 years ago.



Given no permission was granted to inspect any of the properties in question, a road side inspection was completed at the Albert Street site as it is the only location where there is confirmation of a potential landfill site. The area identified is a low lying area adjacent to the current public works yard. There is no evidence of a waste mound and if the location was utilized as a waste site, it was likely to fill in topographic depression, which given the surrounding lands was a wetland area. Given the topography, it is unlikely there is any significant waste volume present in that location, which may be the result of historic burning of wastes, which was common for small rural sites.

The lack of significant records for the site, limited waste volume potential would indicate there is not likely a significant environmental risk associated with the site with respect to either landfill gas or leachate. It would be advisable to keep a landfill designation on this property in the event that the site itself is developed; however, there is no need for a development buffer to be included for the surrounding properties.

It is unclear as to whether one of the existing landfill designations southwest of Ayton was incorrectly located and should be referencing the Albert Street site; however, the two properties previously identified have insufficient evidence to support historic landfilling took place on either site. There are two historic aggregate pits in the areas of those landfill designated properties, so it is possible some minor infilling may have been designated as a dump site.

Given this lack of supporting information for these two sites, it is recommended that these locations be removed as landfill properties.

#### **Site X2099 – Chatsworth**

*Closure Date* – 1960s

*Landfill Size* – <0.5 ha

*Environmental Setting (potential for leachate or gas migration)* – The surficial material documented for the area is sand and gravel, which is confirmed by a number of historic aggregate pits visible on aerial photographs, including in the area of the landfill area.

Response from local residents indicated the original landfill location was incorrect and documentation with a more refined location was provided indicating the location was 750 m further west in an old aggregate pit. The report delineated the footprint area; however, in a site visit completed at the property, no evidence of any wastes were observed and the base of the aggregate pit was noted to be near the water table (<0.5m) indicating there was limited potential for any buried wastes to be located in the



designated area. The property owner indicated the site had been reworked when it was rehabilitated a number of years ago and it was possible that if there were any waste present it may have been removed. She or her neighbour had no knowledge of any wastes being present on site. Three shallow test holes were completed in the landfill area (~0.5m), all of which did not indicate any evidence of waste deposition.

Given the confirmation of location, but lack of any waste present, it is recommended that the landfill designation be removed for this property.

### **Site X2107 – Meaford**

*Closure Date* – 1960

*Landfill Size* – <0.05 ha

*Environmental Setting (potential for leachate or gas migration)* – The surficial material documented for the area is glacial till, but of limited depth where the site is located with outcropping visible in a number of areas. The site is also adjacent to an escarpment face, which slopes down to the north towards Georgian Bay.

There were two respondents from the survey of local residents. Both indicated no knowledge of a formal dump; however, one indicated that there was a ravine along St. Vincent – Sydenham Townline where illegal dumping activities have taken place over the years. It is noted that this location is approximately 250 m east of the original landfill location.

Although no response or permission was granted from the property owner, a road side inspection was completed for the site where it was observed that surficial dumping has taken place in the ravine area which included some bulky items and yard waste. There did not appear to be any evidence of a waste mound or anomalies along the ground surface that would indicated wastes had been covered historically.

Although the township and property owners should address the on-going illegal dumping activities and promote clean up of this area, the landfill designation for this area should be removed as there is no leachate or methane hazard present.



## **Site 261701 – Grey Highlands**

*Closure Date* – 1979

*Landfill Size* – ~0.2 ha

*Environmental Setting (potential for leachate or gas migration)* – The surficial material documented for the area is glacial till, but of limited depth where the site is located, with outcropping visible in a number of areas. The site is also adjacent to an escarpment face, which slopes down to the east into the Beaver Valley.

There were a number of respondents for this property. Although several were new to the area, two indicated knowledge that the site location is correct and that this site has most recently been a township waste transfer station, although there is knowledge that wastes had historically been dumped over the escarpment edge at the end of the road. No access was permitted from the property owner; however, a road side inspection of the site was completed. There is visible evidence historic dumping took place at this location with much of the escarpment face being covered by bulky items and piles of yard waste. It is also evident that covering of the waste has taken place along the slope although these wastes are still partially exposed in a number of areas.

Given this site may have historically been more of a formal operation historically than some of the other illegal dumping sites observed in the County in escarpment areas, there is limited potential for a large amount of wastes to have been deposited there. The local topography did not indicate any significant anomalies which would support a large waste volume at the site. Given its location along the escarpment edge, the site is perceived to be downgradient of the residences to the west, while development to the east proximal to the landfill will likely never take place due to the escarpment face and NEC zoning. As such, there is limited potential for leachate impacts to surrounding property users. As well, the age and size of waste area would provide a limited source for both leachate and methane generation. Although it would be prudent to leave the landfill designation for this property, any requirement for D-4 Guideline clearance for the neighbouring properties is seen as unnecessary.

## **6.0 CONCLUSIONS**

Based on the study undertaken, it is evident that the original MOE document from which all of the landfill sites investigated was based on is lacking sufficient and accurate details to delineate and fully assess the environmental and public risk associated with those sites. In the majority of locations, there was either insufficient detail as to the actual property the site was located or even what part of the property the waste footprint is located. This is problematic from a planning perspective to designated land use restrictions on those



properties as well as the surrounding lands. This study was able to refine a many of the locations; however, there still remains some uncertainty as to specific locations for waste footprints. As such, it is recommended that the County use the information provided within this report as a refined starting point and update their existing databases for each site as new information becomes available, which may either negate the presence of the site or confirm limited risk is present. Similarly, there are a number of sites which were recommended for removal of a landfill designation either due to insufficient information to support a landfill or insufficient evidence to support the presence of a risk. It is noted that these determinations were made based on the information available at the time of the study; however, new information may become available which positively identifies the location of a waste area which needs to be further assessed. As such, despite the recommendation for these sites to removed from the Official Plan, all records should be maintained with the County indefinitely.

## **7.0 IMITATIONS AND USE OF THIS REPORT**

This report has been prepared for the exclusive use of Grey County. AEC will not be responsible for the use of any information contained within this report by others. AEC also accepts no responsibility for any damages incurred by any third party as a result of decisions made or actions based upon the information contained within this report.

All background information reviewed throughout the duration of this study has been relied upon in good faith, and AEC does not accept any responsibility for any misstatements, inaccuracies, or deficiencies contained in those documents. The information in this report should be evaluated, interpreted and implemented only in the light of the assignment.

The findings and conclusions included in this report are valid only at the date of issuance. If additional information is provided in the future, such as the results of further aquifer evaluation, AEC will be pleased to re-evaluate our conclusions contained within this report and issue amendments, as required.



## **8.0 REFERENCES**

Ministry of the Environment, 1980. Site Inventory Study. TD 789 C3-65 Queen's Printer for Ontario.

Ministry of the Environment, 1988. Ontario Ministry of the Environment Waste Disposal Site Inventory. TD 793 058 1988. Queen's Printer for Ontario.

Ministry of the Environment, 1991. Waste Disposal Site Inventory. ISBN 0-7729-8409-3. Queen's Printer for Ontario.



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## APPENDICES

- Appendix A: Master Landfill List and Locations**  
**Appendix B: Site Location Figures**  
**Appendix C: Background Information Disc (Site / Twp Segregated)**
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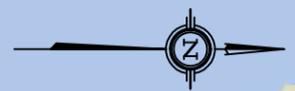
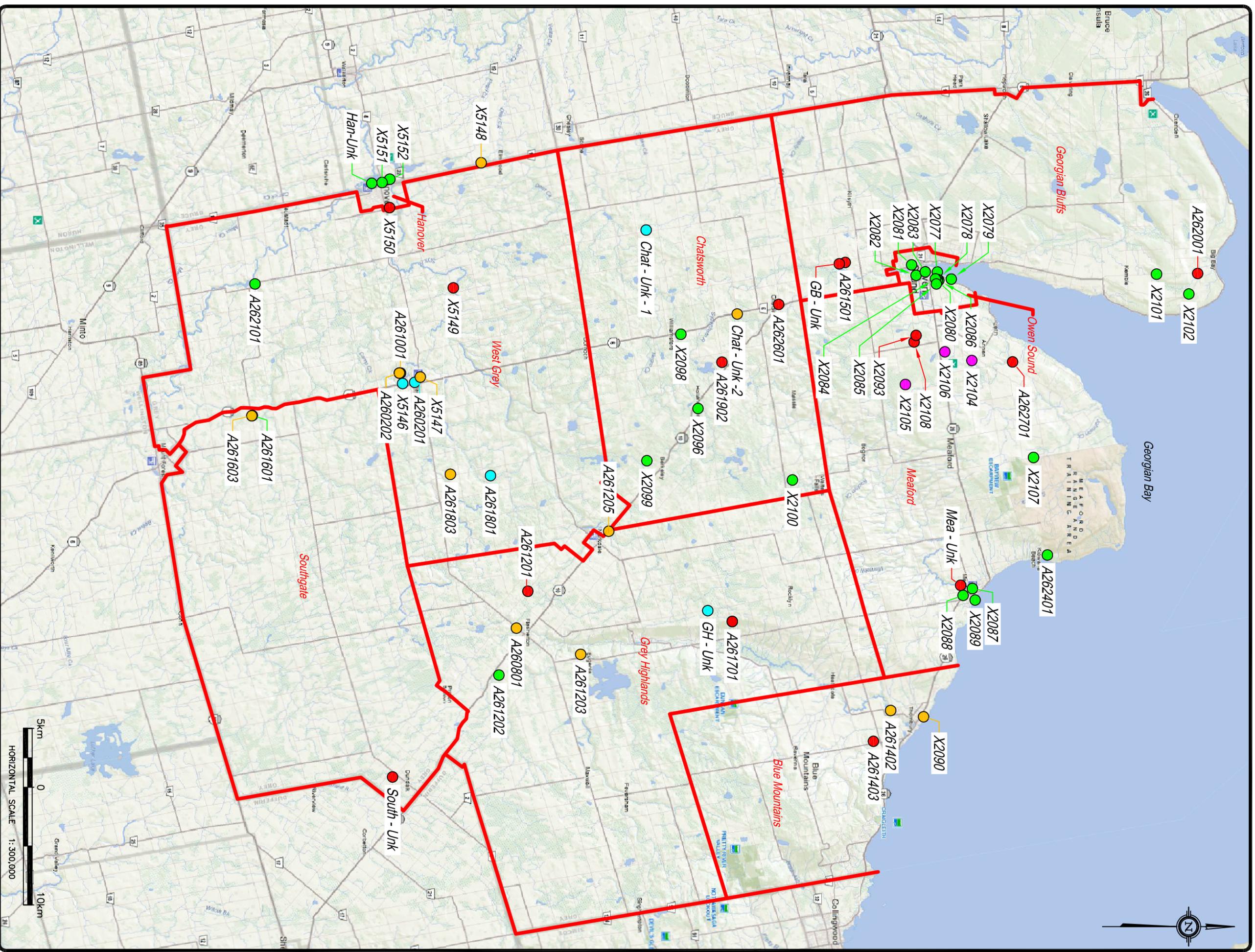
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**APPENDIX A**

**Master Landfill List and Locations**

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	County Landfill ID	Municipality	Information Supplied by Municipality	MOE Landfill ID Number	Original Easting	Original Northing	Landfill Report / D4?	Location Confirmed?	Closure Date	Site Visible?	Corrected Easting	Corrected Northing	Recommendation
1	26	Chatsworth	Yes	A261902	512350	4917350	N	Y	1970	N	512803	4917825	D-4 Recommended to Clear Site
2	31	Chatsworth	Yes	X2096	516950	4915860	N	Y	1940's	N	516742	4915785	Cleared - Determined to Have Insufficient Risk
3	33	Chatsworth	Yes	X2098	510550	4913550	N	Y	1950/60's	N	510428	4914322	Cleared - Determined to Have Insufficient Risk
4	28	Chatsworth	Yes	A262601	507750	4922350	N	Y	1970's	Y	507889	4922664	D-4 Recommended to Clear Site
5	34	Chatsworth	Yes	X2099	521250	4911350	Y	Y	1960's	N	521181	4911428	Cleared - Determined to Have Insufficient Risk
6	35	Chatsworth	Yes	X2100	522660	4925350	N	Y	1960's	N	522821	4923834	Cleared - Determined to Have Insufficient Risk
7	38	Chatsworth	Yes	Chat - Unk - 1			N	Y		N	501566	4911367	Cleared - Site Proven Not to Exist
8	32	Chatsworth	Yes	Chat - Unk - 2			Y	Y	1960	N	508702	4919128	Previously Evaluated
9	25	Georgian Bluffs	Yes	A261501	504240	4928070	N	Y	1983	Y	504320	4928335	D-4 Recommended to Clear Site
10	27	Georgian Bluffs	Yes	A262001	505550	4957560	N	Y	1973	Y	505260	4958371	D-4 Recommended to Clear Site
11	36	Georgian Bluffs	Yes	X2101	504550	4954750	N	N	1970's	N	505316	4954864	Cleared - Determined to Have Insufficient Risk
12	37	Georgian Bluffs	Yes	X2102	507500	4956600	N	N	N/A	N	507005	4957617	Cleared - Determined to Have Insufficient Risk
13	30	Georgian Bluffs	Yes	GB - Unk	504495	4927549	N	N	N/A	N	504438	4927829	D-4 Recommended to Clear Site
14	48	Grey Highlands	Yes	GH - Unk	533927	4916618	N	N	N/A	N			Cleared - Site Proven Not to Exist
15	19	Grey Highlands	Yes	A261701	537410	4905800	N	Y	1979	Y	534851	4918704	D-4 Recommended to Clear Site
16	44	Grey Highlands	Yes	A261203	535480	4916650	Y	Y	1975	Y	537648	4905783	Previously Evaluated
17	45	Grey Highlands	Yes	A260801	536800	4900420	Y	Y	1974	Y	535414	4900312	Previously Evaluated
18	46	Grey Highlands	Yes	A261202	539550	4898550	N	Y	1972	N	539410	4898820	Cleared - Determined to Have Insufficient Risk
19	47	Grey Highlands	Yes	A261201	532610	4901000	N	Y	1973	N	532281	4901287	D-4 Recommended to Clear Site
20	50	Grey Highlands	Yes	A261205	527150	4908290	Y	Y	1974	Y	527180	4908171	Previously Evaluated
21	53	Hanover	Yes	X5150	499650	4889200	N	Y	1960	Y	499659	4889495	D-4 Recommended to Clear Site
22	54	Hanover	Yes	X5152	498550	4889300	N	Y	1950	N	497242	4889521	Cleared - Determined to Have Insufficient Risk
23	55	Hanover	Yes	X5151	497600	4889150	N	Y	1940	N	497522	4888861	Cleared - Determined to Have Insufficient Risk
24		Hanover	Yes	Han-Unk			N	Y		N	497590	4887979	Cleared - Determined to Have Insufficient Risk
25	17	Meaford	Yes	A262401	529390	4945850	N	Y	1974	Y	529202	4945560	Cleared - Determined to Have Insufficient Risk
26	22	Meaford	No	X2087	532400	4939150	N	Y	1946	N	532052	4939167	Cleared - Determined to Have Insufficient Risk
27	23	Meaford	No	X2088	533100	4938900	N	Y	1946	N	532635	4938377	Cleared - Determined to Have Insufficient Risk
28	22	Meaford	No	X2089	532850	4939300	N	Y	1946	N	533028	4939401	Cleared - Determined to Have Insufficient Risk
29	29	Meaford	No	X2108	511640	4934350	N	Y	1940	N	511086	4934199	D-4 Recommended to Clear Site
30	39	Meaford	No	X2104	511250	4937650	N	Y	1960	N	512659	4939120	Remove - Insufficient Info to Locate Landfill
31	40	Meaford	No	X2105	514700	4933460	N	Y	1965	N			Remove - Insufficient Info to Locate Landfill
32	41	Meaford	No	X2106	511750	4937300	N	Y	1950	N	511922	4936826	Remove - Insufficient Info to Locate Landfill
33	42	Meaford	No	X2107	520650	4944800	N	Y	1960	N	520905	4944380	Cleared - Determined to Have Insufficient Risk
34	43	Meaford	No	X2093	511550	4934350	N	Y	?	N	510526	4934369	D-4 Recommended to Clear Site
35		Meaford	Yes	Mea - Unk	532079	4938185	Y	Y	1992	Y	531773	4938166	D-4 Recommended to Clear Site
36		Meaford	No	A262701			Y	Y		Y	512778	4942593	D-4 Recommended to Clear Site
37	64	Owen Sound	Yes	X2082	533550	4938250	N	Y	1955	N	505416	4934373	Cleared - Determined to Have Insufficient Risk
38	65	Owen Sound	Yes	X2083	533050	4938450	N	Y	1956	N	505120	4935151	Cleared - Determined to Have Insufficient Risk
39	66	Owen Sound	Yes	X2081	504350	4924950	N	Y	1955	N	504529	4933988	Cleared - Determined to Have Insufficient Risk
40	68	Owen Sound	Yes	X2077	533550	4938250	N	Y	1946	Y	505133	4936188	Cleared - Determined to Have Insufficient Risk
41	69	Owen Sound	Yes	X2086	531950	4939750	N	Y	1950	Y	505837	4936313	Cleared - Determined to Have Insufficient Risk
42	70	Owen Sound	Yes	X2078	532550	4939400	N	Y	1947	N	505776	4936197	Cleared - Determined to Have Insufficient Risk
43	71	Owen Sound	Yes	X2080	532500	4938950	N	Y	1954	N	505896	4936170	Cleared - Determined to Have Insufficient Risk
44	72	Owen Sound	Yes	X2084	531500	4939650	N	Y	1959	Y	505717	4936018	Cleared - Determined to Have Insufficient Risk
45	73	Owen Sound	Yes	X2085	531650	4939450	N	Y	1970	Y	506150	4936098	Cleared - Determined to Have Insufficient Risk
46	74	Owen Sound	Yes	X2079	532350	4939800	N	Y	1952	N	505738	4937371	Cleared - Determined to Have Insufficient Risk
47		Southgate	Yes	A261601	516850	4877740	N	Y	1976	N	517340	4877808	Cleared - Determined to Have Insufficient Risk
48	57	Southgate	Yes	A261603	516850	4877740	Y	Y	1976	Y	517356	4877755	Previously Evaluated
49	59	Southgate	Yes	South - Unk	548073	4889753	N	Y	?	Y	548073	4889753	D-4 Recommended to Clear Site
50	24	Blue Mountains	Yes	A261402	544450	4903250	N	N	1973	Y	542417	4932202	Previously Evaluated
51	20	Blue Mountains	Yes	A261403	544825	4930100	N	Y	1977	N	545039	4930734	D-4 Recommended to Clear Site
52	21	Blue Mountains	Yes	X2090	517900	4935770	Y	Y	1983	Y	542953	4935008	Previously Evaluated
53	61	West Grey	Yes	A262101	505910	4877690	N	N	1975	N	506147	4878029	Cleared - Determined to Have Insufficient Risk
54	58	West Grey	Yes	A260201	513950	4890100	N	N	1960/1979	N	514513	4891642	Cleared - Site Proven Not to Exist
55	18	West Grey	Yes	A261801	522450	4898100	N	N	N/A	N			Cleared - Site Proven Not to Exist
56	62	West Grey	Yes	X5146	514500	4891250	N	N	1960/1979	N	514619	4890614	Cleared - Site Proven Not to Exist
57	63	West Grey	No	X5147	514050	4891900	Y	Y	1955	Y	514065	4892116	Previously Evaluated
58	51	West Grey	No	X5148	495750	4897350	Y	Y	1958	Y	495844	4897301	Previously Evaluated
59	52	West Grey	No	X5149	506500	4894350	N	N	1971	N	506477	4894932	D-4 Recommended to Clear Site
60	75	West Grey	No	A261001	N/A	N/A	Y	Y	N/A	N	513729	4890435	Previously Evaluated
61		West Grey	No	A260202	N/A	N/A	Y	Y	1996	Y	513724	4890334	Previously Evaluated
62	13	West Grey	No	A261803	N/A	N/A	Y	Y	2002	Y	522338	4894682	Previously Evaluated



Regional Map

Grey County Landfills  
Grey County

DATE ISSUED:	December 2014	Figure No.	1
CREATED BY:	JLM		
PROJECT NO.:	13-209		
REFERENCE:	Toporama Ontario		

**LEGEND:**

- Township Boundaries
- Landfill Locations
- D4 Recommended to Clear Site
- Previously Evaluated
- Cleared - Determined to have Insufficient Risk
- Cleared - Site Proven not to Exist
- Remove - Insufficient information to locate

DAVSTAMP: M13 Projects\13-209 Grey County Landfill Assessments\04.0 - Drafting\13-209.dwg  
 Plotted by: JMC\JLM on Nov 26, 2015 at 10:58am  
 Project: M13 Projects\13-209 Grey County Landfill Assessments\04.0 - Drafting\13-209.dwg Layout: H101 Plotcode: 250

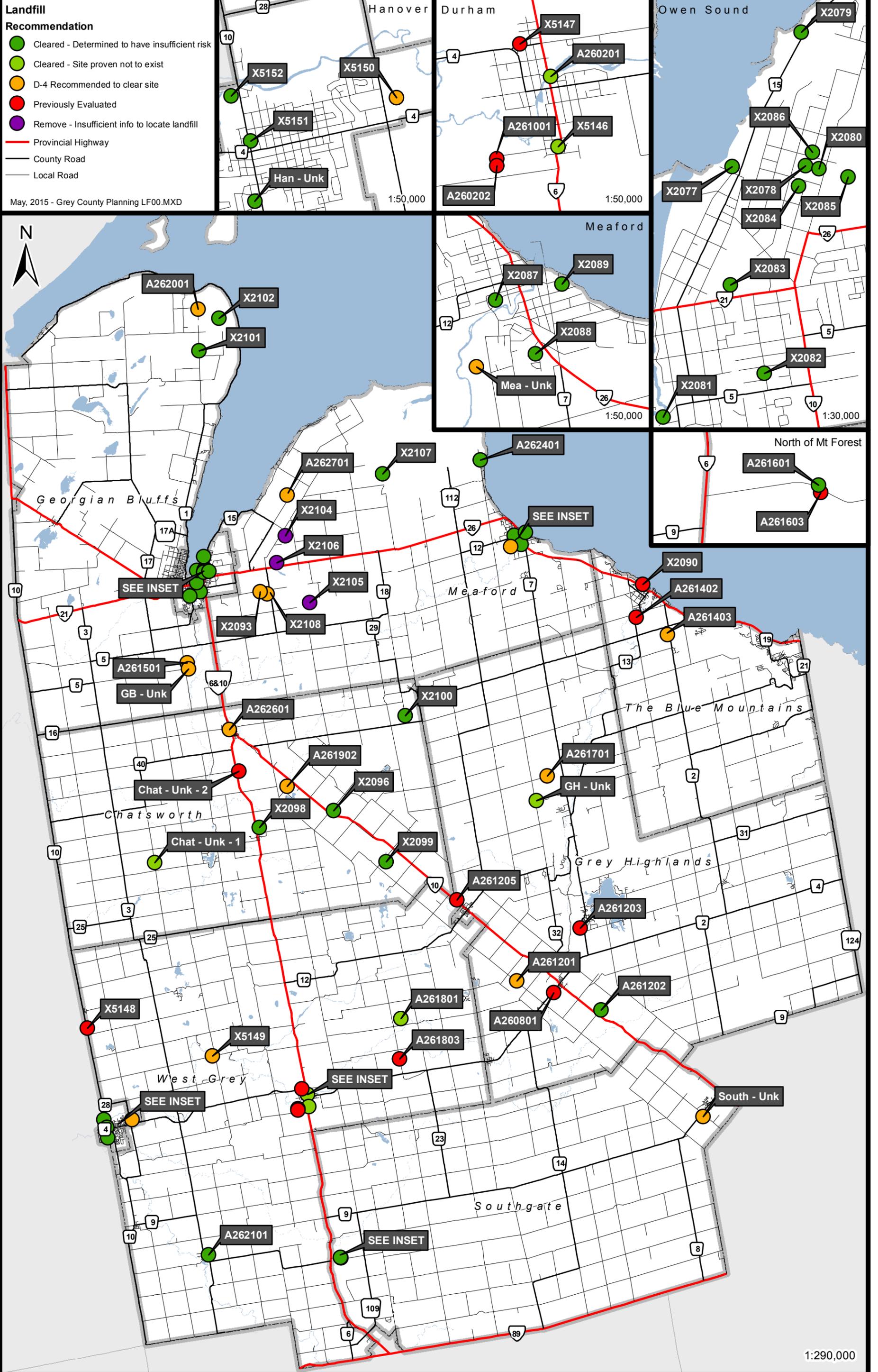


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## **APPENDIX B**

### **Site Location Figures**

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This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

**Landfill A261902**

**Recommendation**

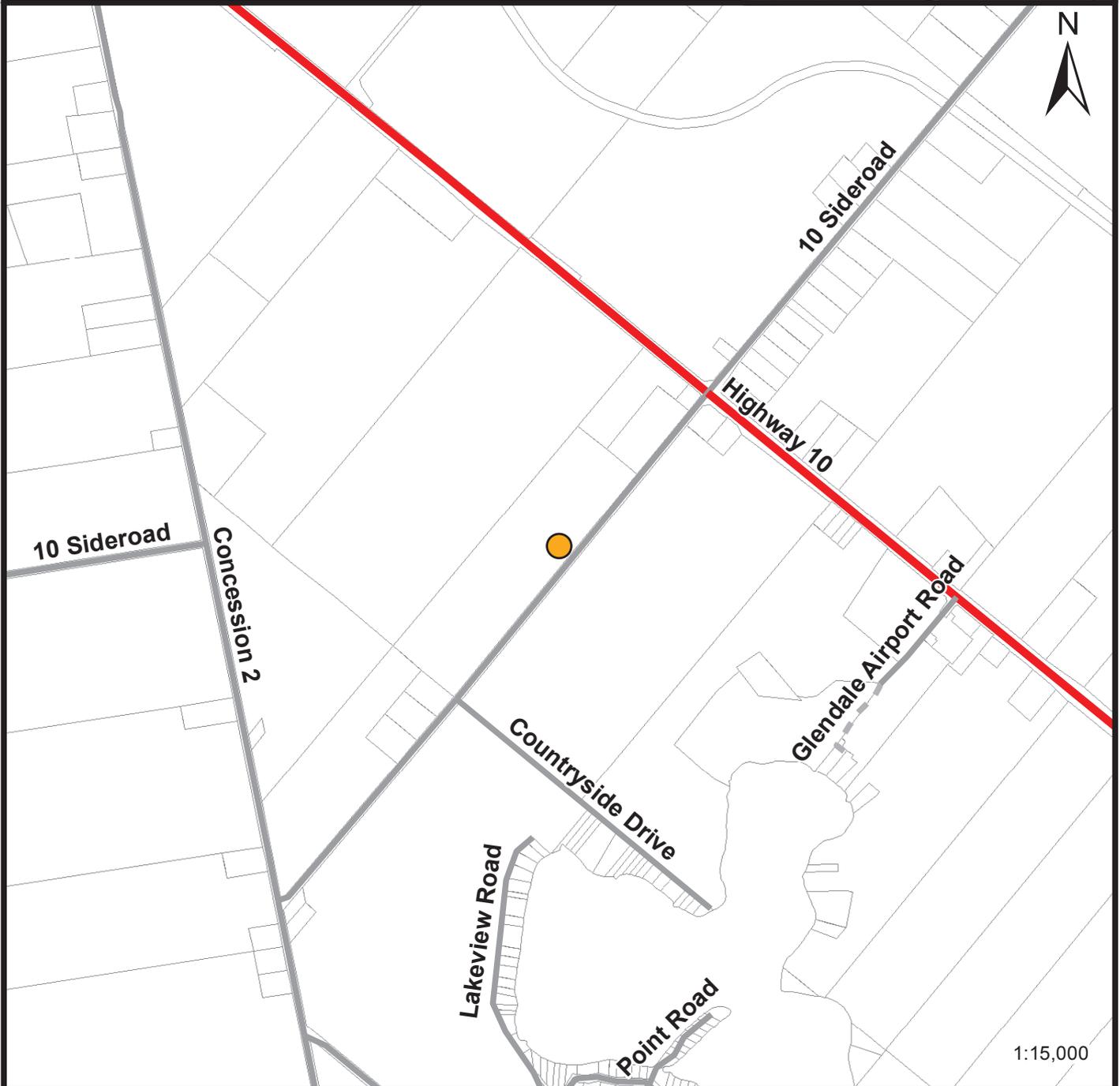
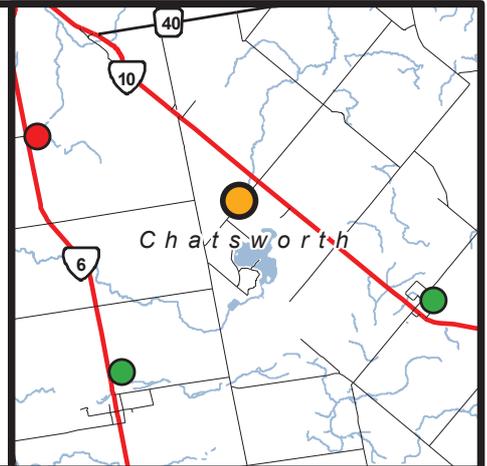
-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill

 Provincial Highway

 County Road

 Local Road

February, 2015 - Grey County Planning LF01.MXD



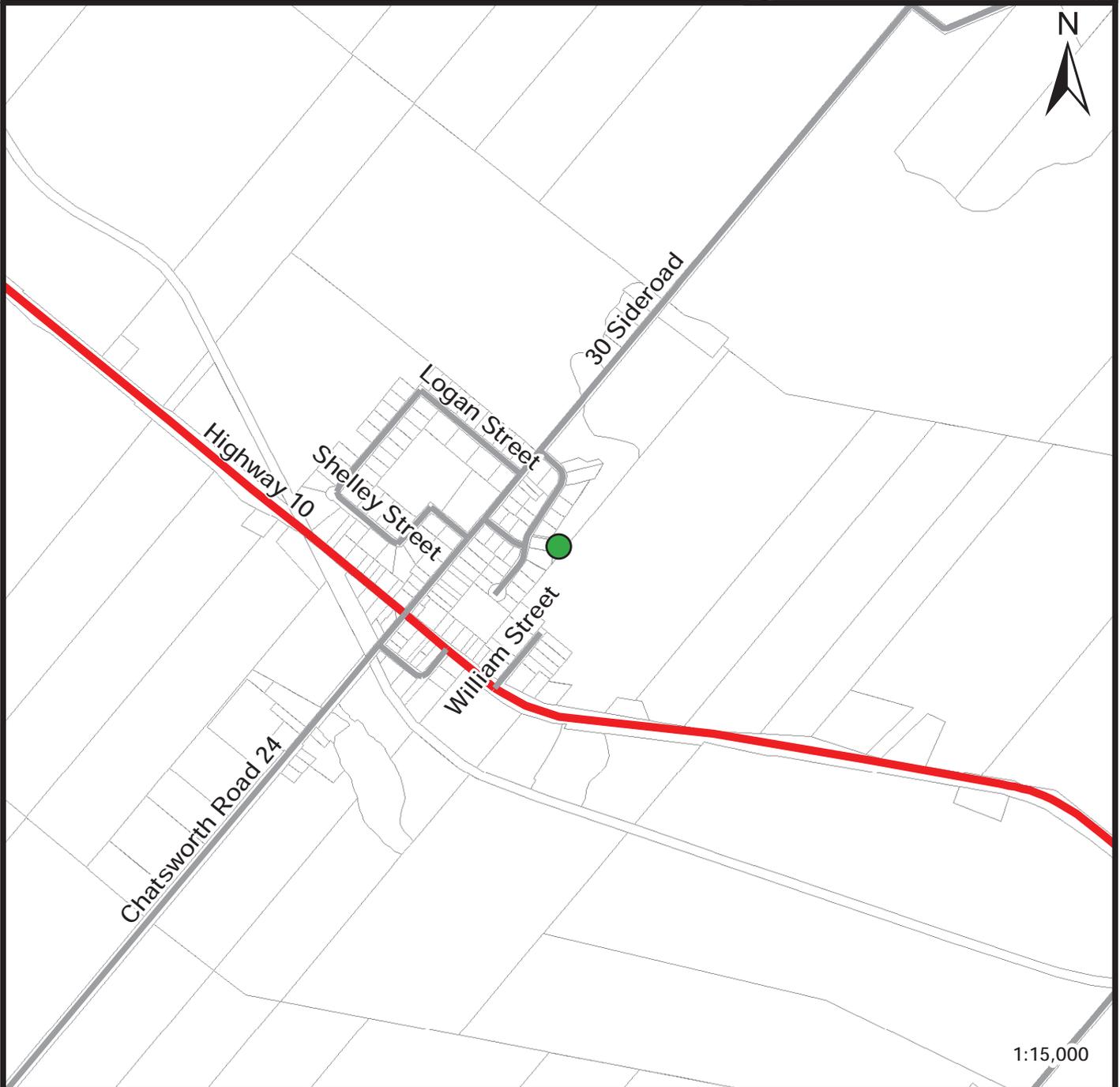
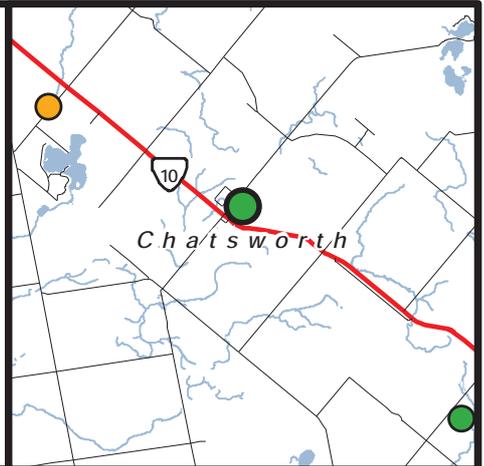
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill X2096

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF02.MXD



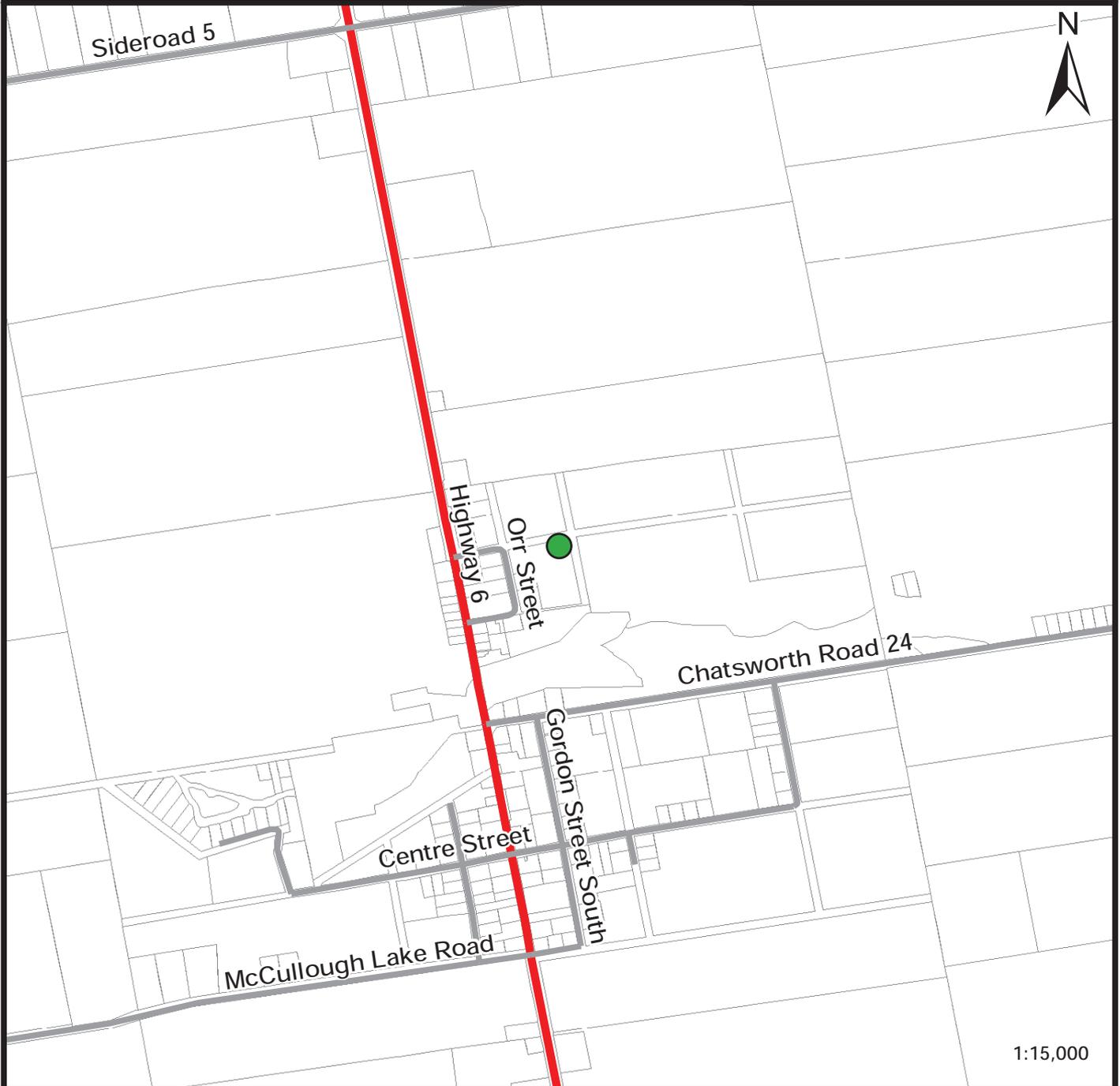
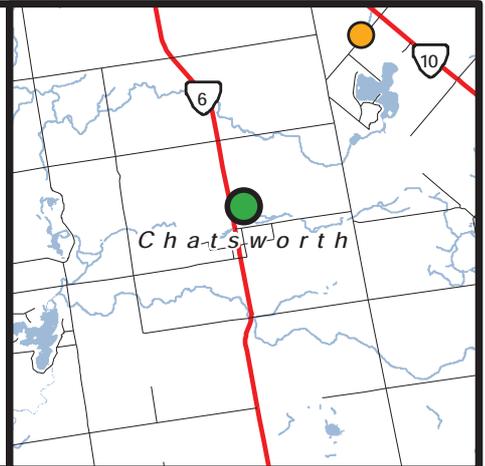
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill X2098

Recommendation

- Cleared - Determined to have insufficient risk
- Cleared - Site proven not to exist
- D-4 Recommended to clear site
- Previously Evaluated
- Remove - Insufficient info to locate landfill
- Provincial Highway
- County Road
- Local Road

February, 2015 - Grey County Planning LF03.MXD



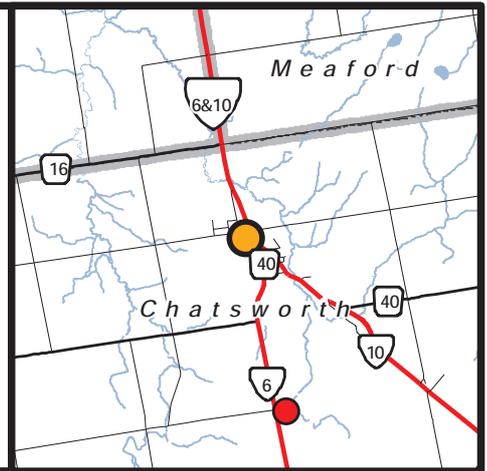
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**Landfill A262601**

**Recommendation**

- Cleared - Determined to have insufficient risk
- Cleared - Site proven not to exist
- D-4 Recommended to clear site
- Previously Evaluated
- Remove - Insufficient info to locate landfill
- Provincial Highway
- County Road
- Local Road

February, 2015 - Grey County Planning LF04.MXD



This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill X2099

Recommendation

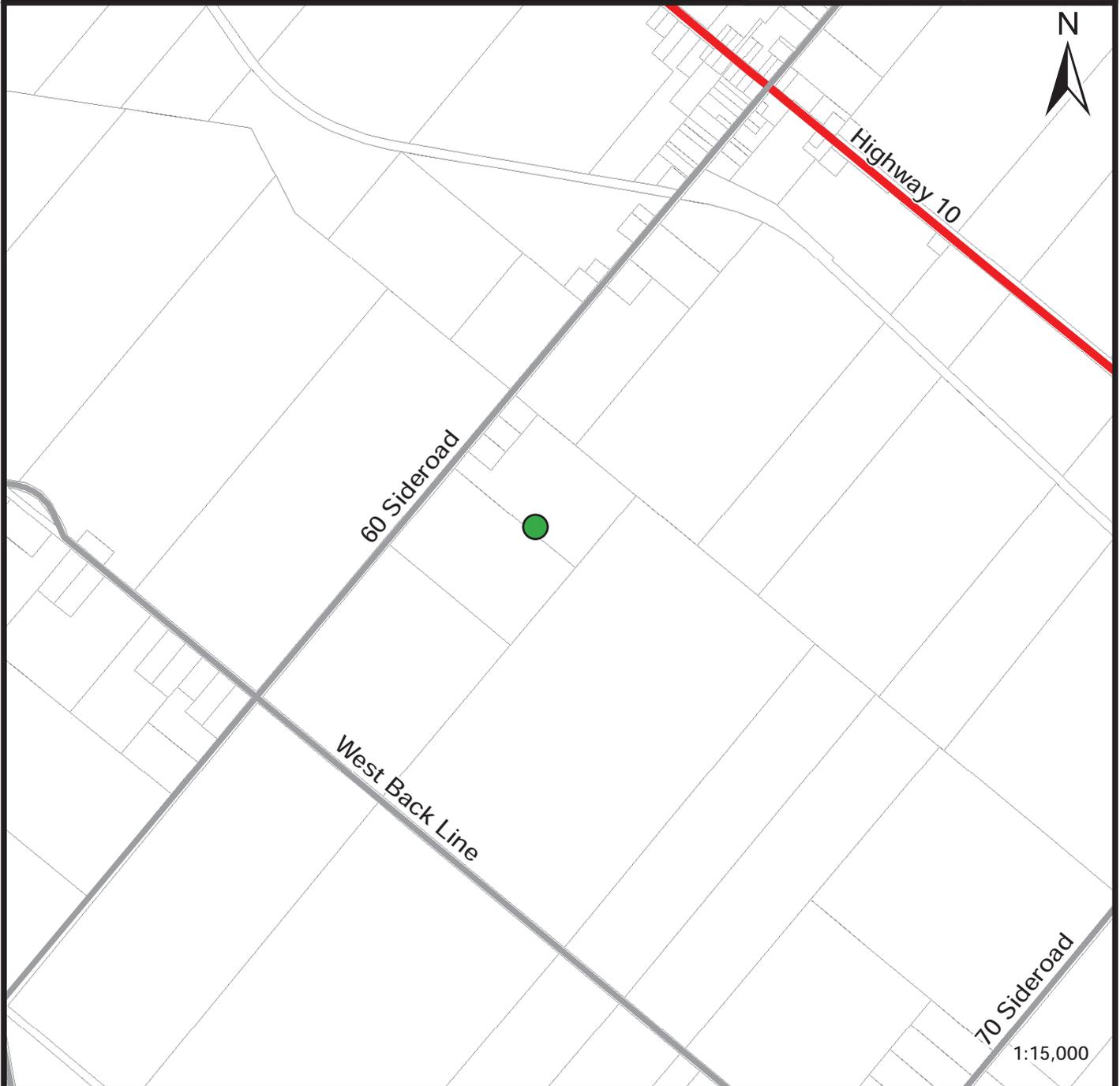
-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill

 Provincial Highway

 County Road

 Local Road

February, 2015 - Grey County Planning LF05.MXD



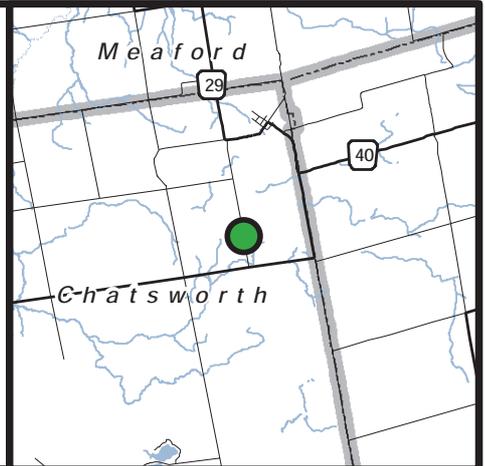
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill X2100

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF06.MXD



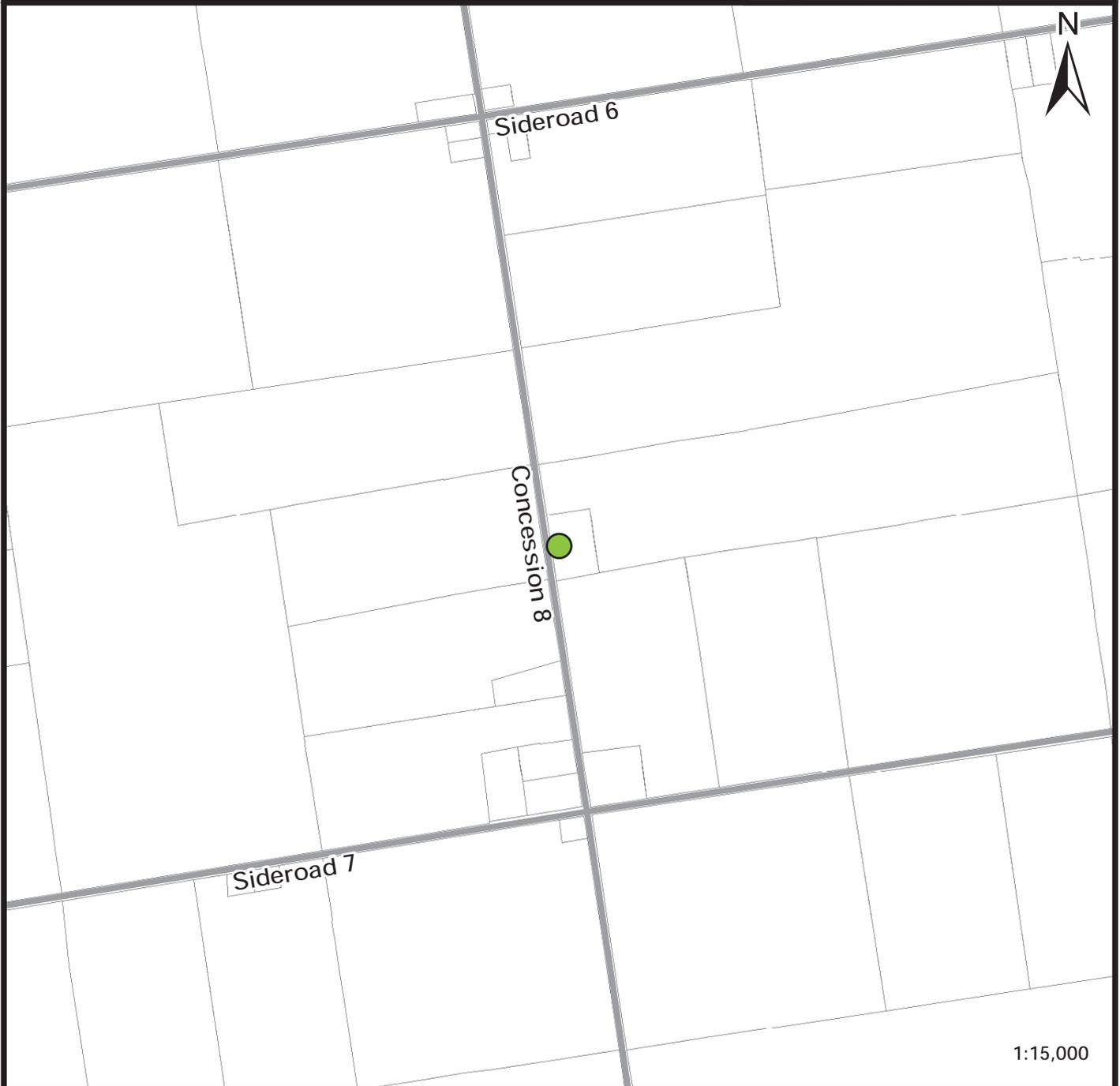
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Landfill Chat - Unk - 1

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF07.MXD



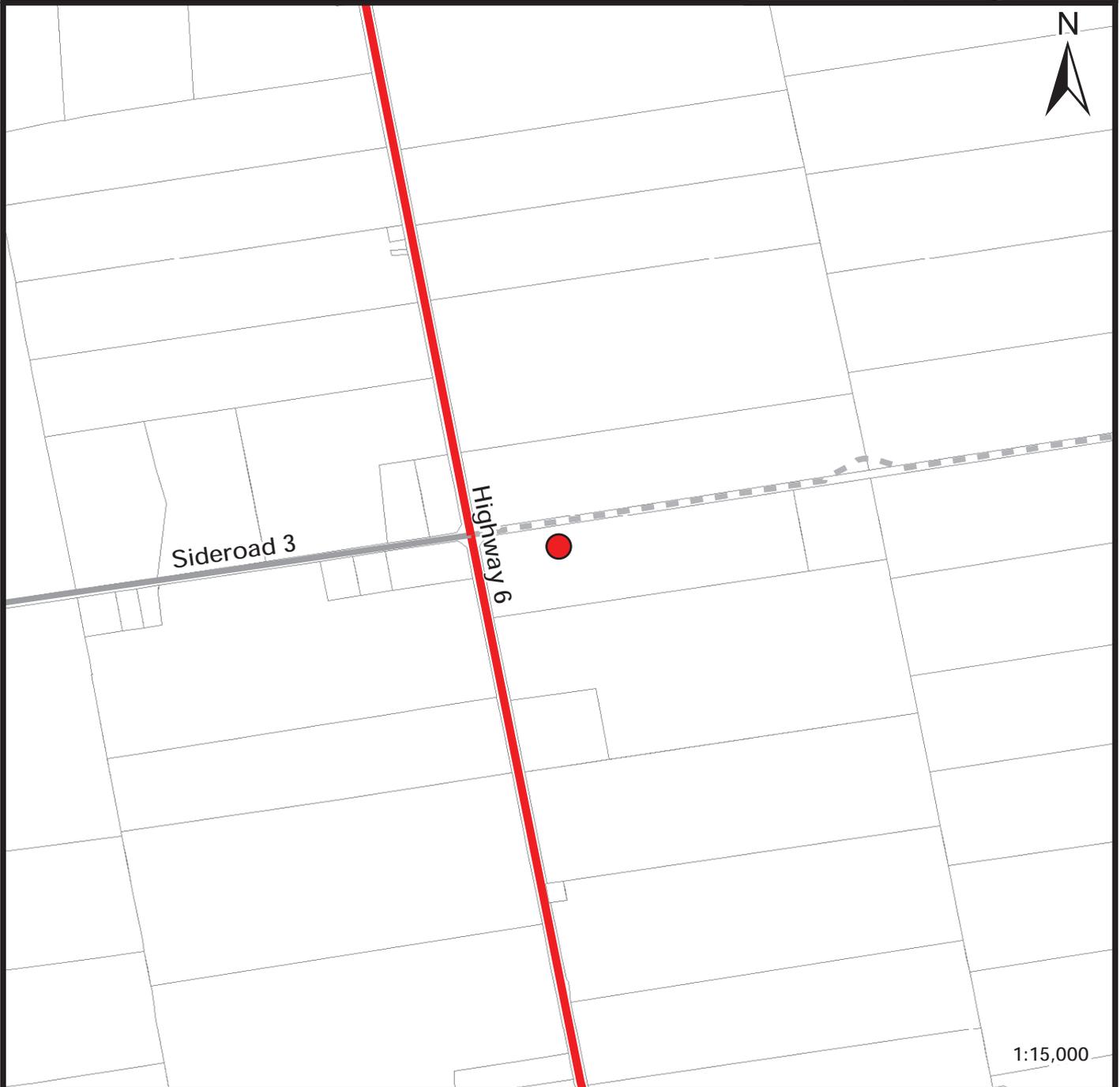
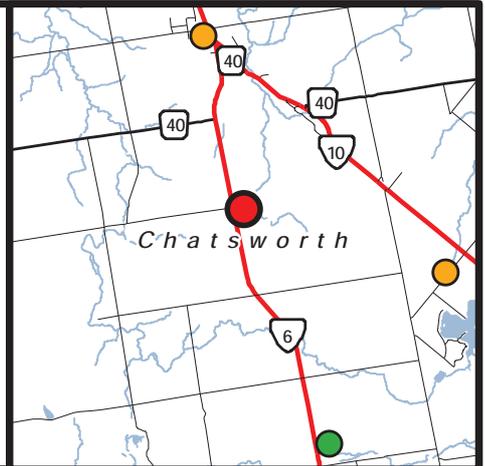
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

# Landfill Chat - Unk -2

## Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF08.MXD



Landfill A261501

Recommendation

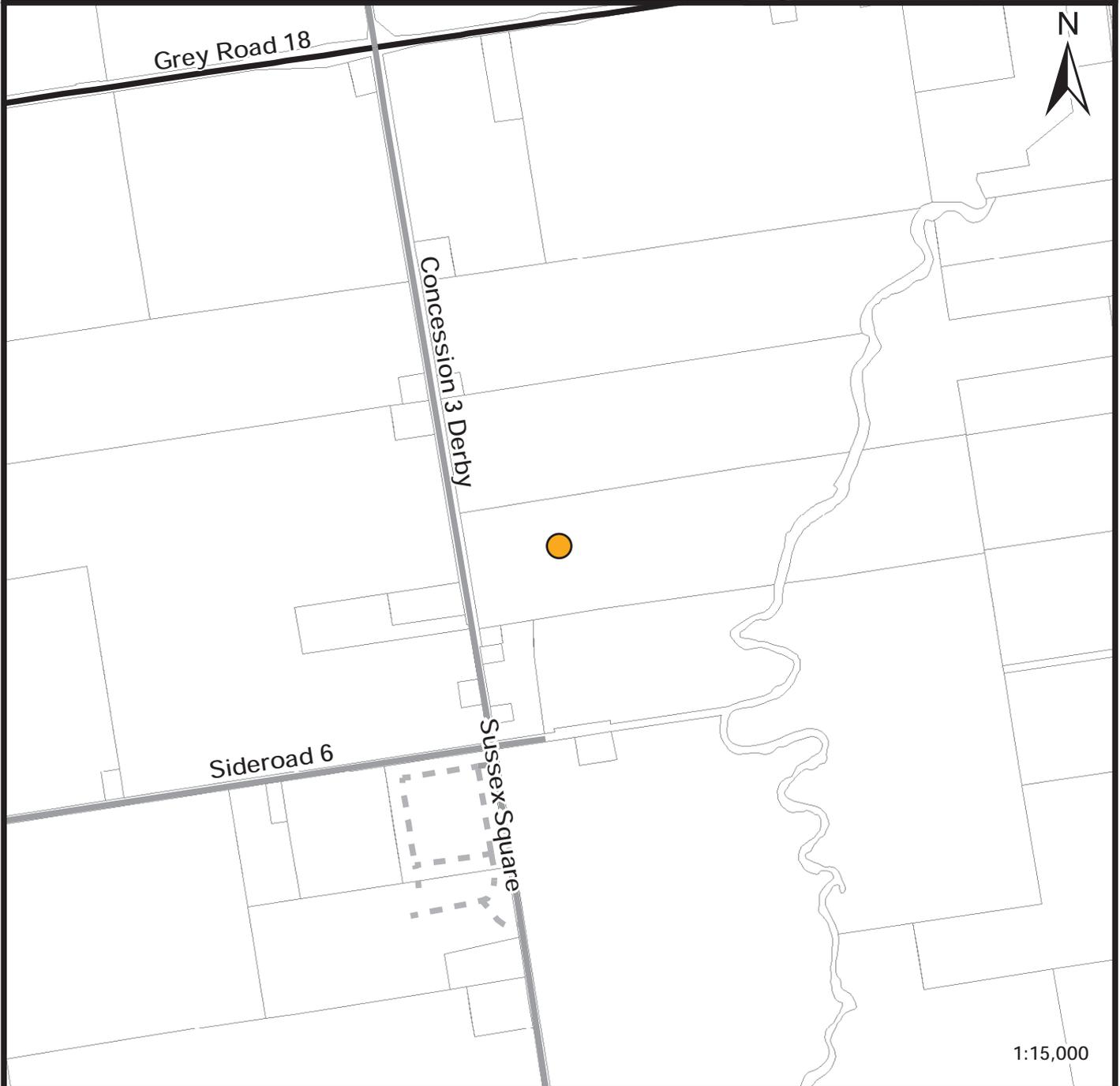
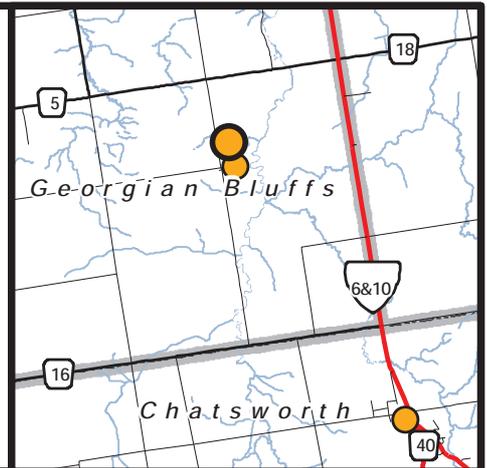
-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill

 Provincial Highway

 County Road

 Local Road

February, 2015 - Grey County Planning LF09.MXD



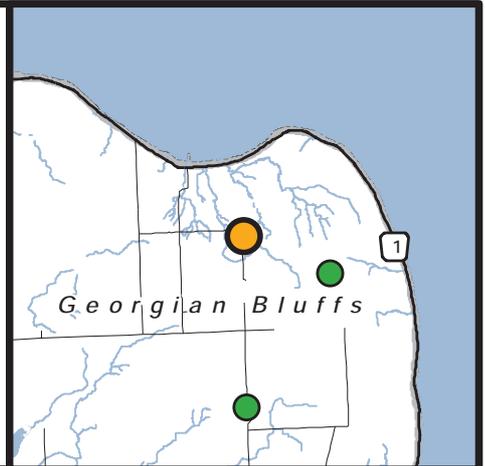
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill A262001

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF10.MXD



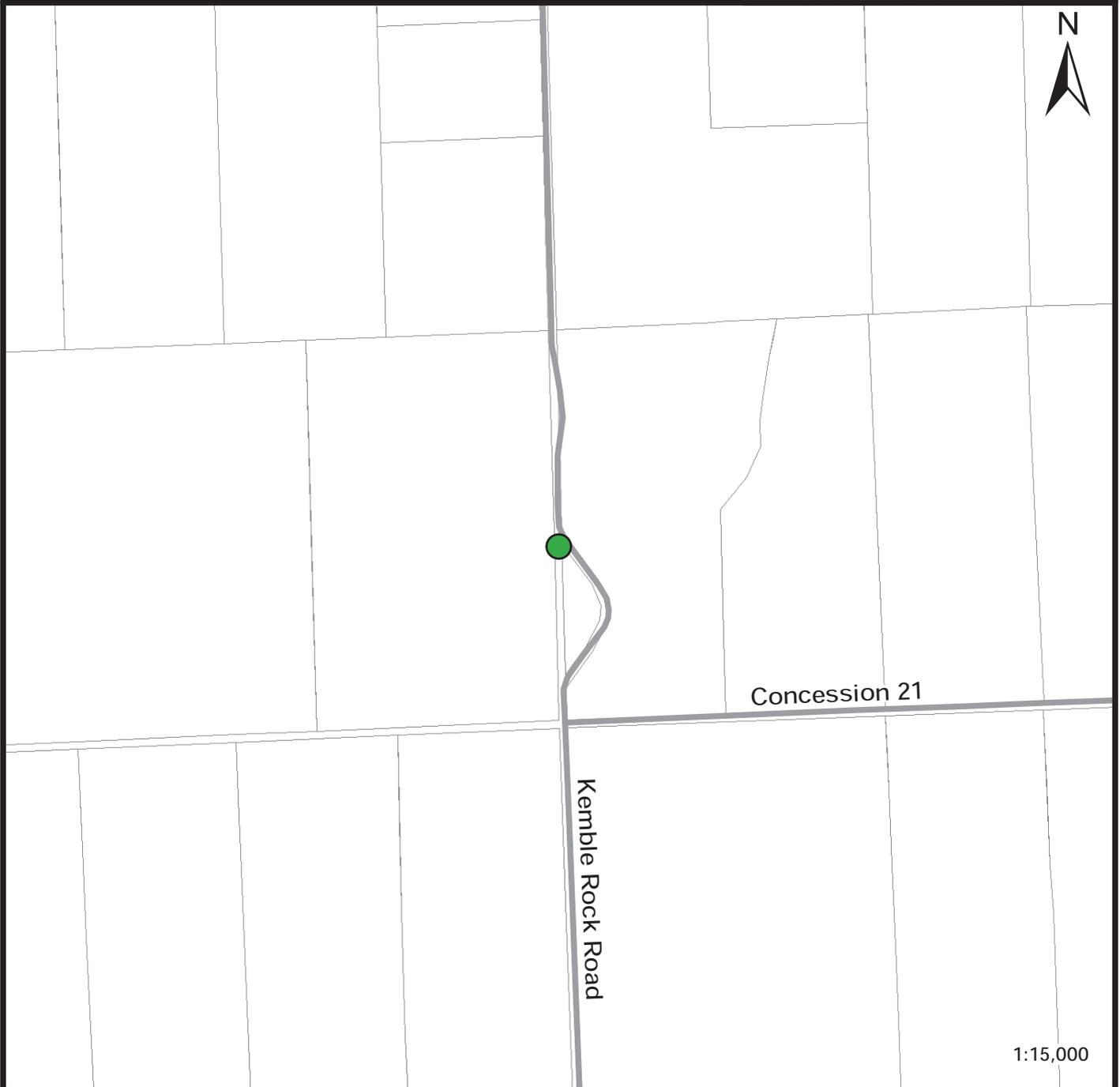
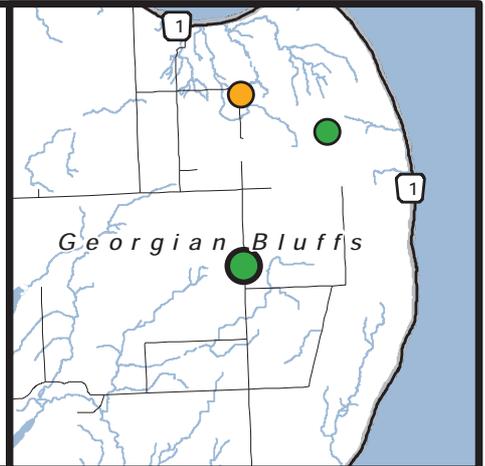
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill X2101

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF11.MXD



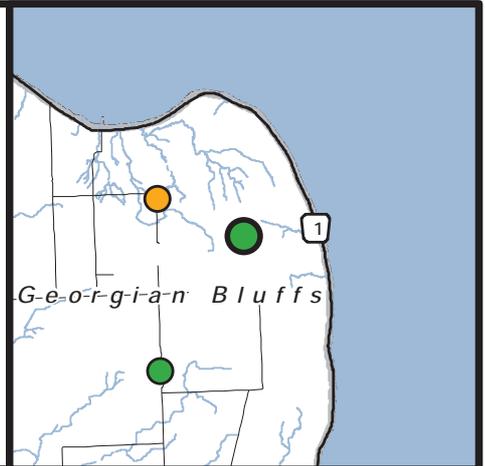
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# Landfill X2102

## Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF12.MXD



Landfill GB - Unk

Recommendation

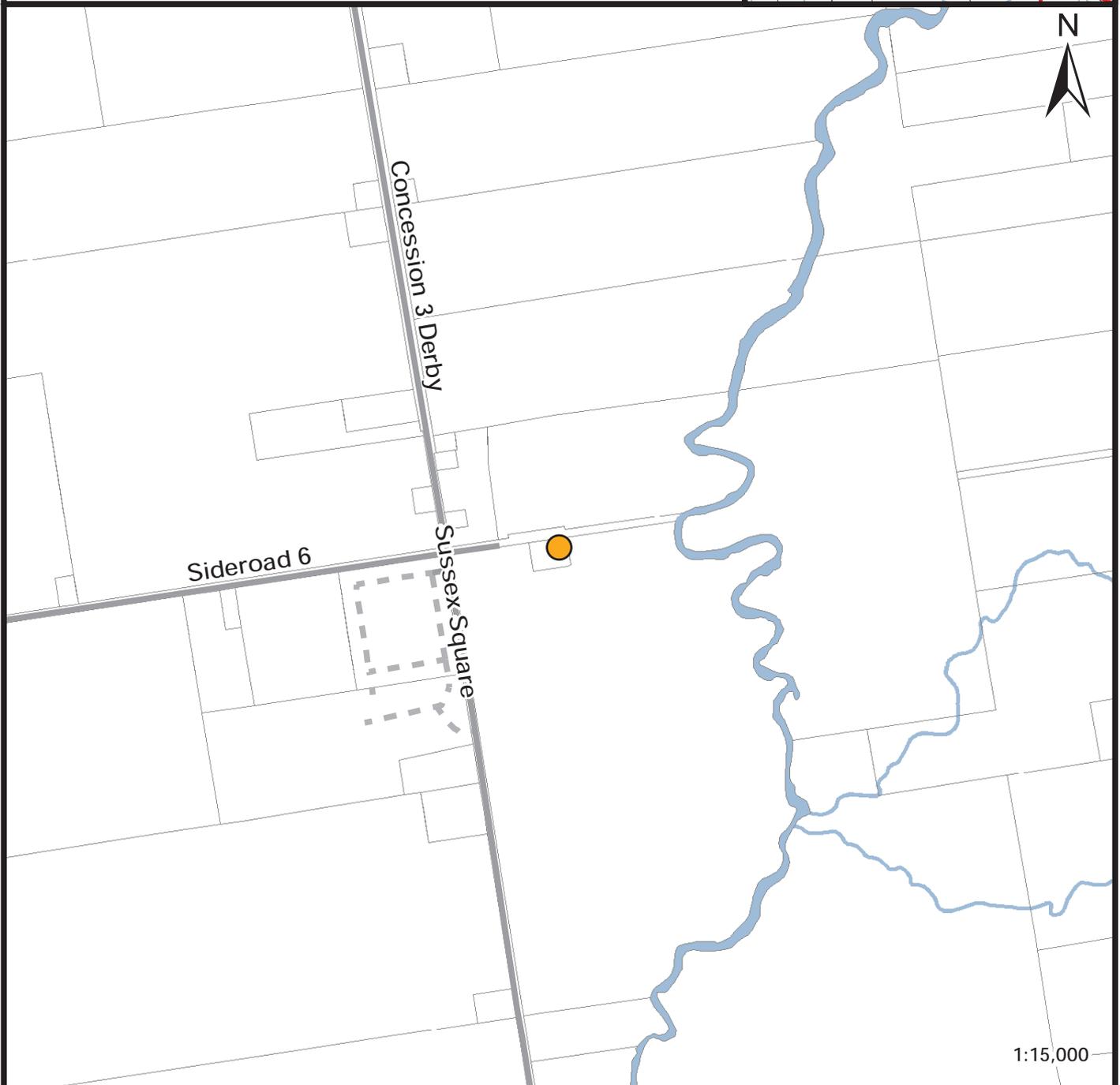
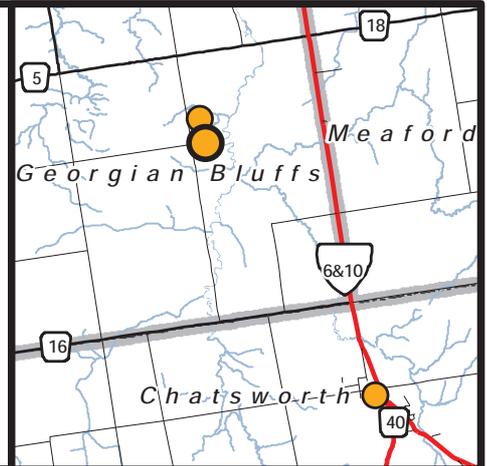
-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill

 Provincial Highway

 County Road

 Local Road

February, 2015 - Grey County Planning LF13.MXD



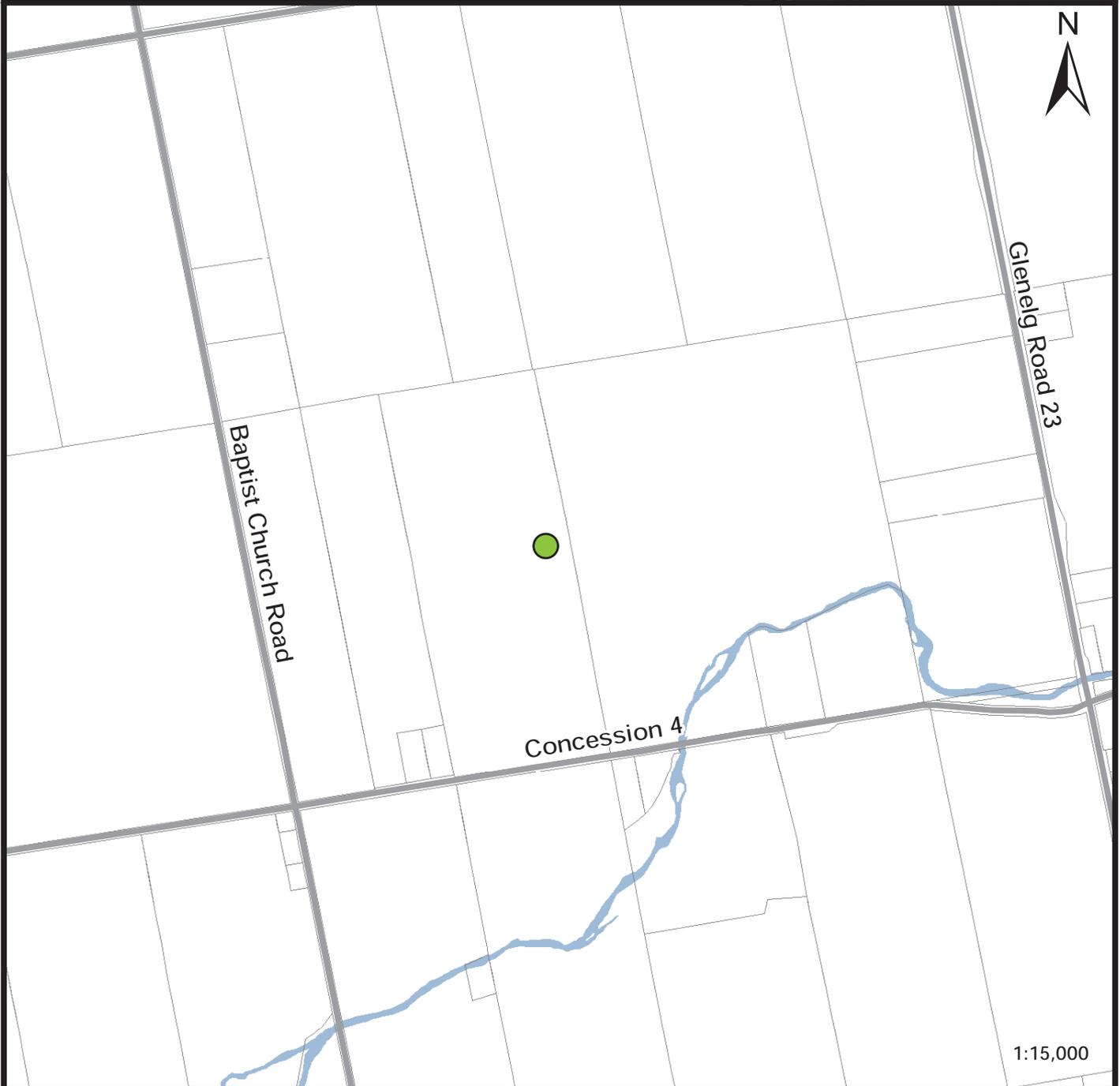
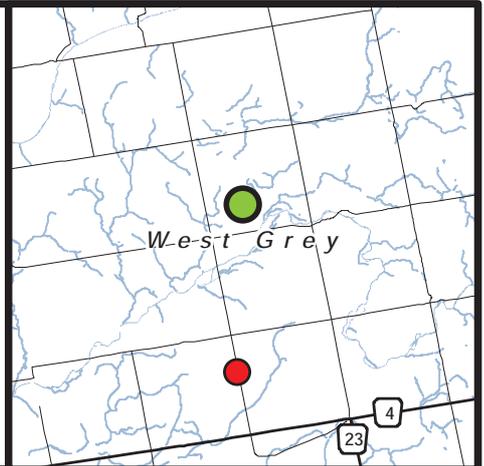
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill A261801

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF14.MXD



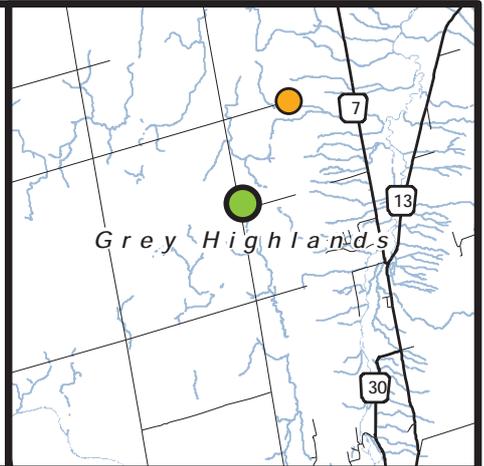
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill GH - Unk

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF15.MXD



Landfill A261701

Recommendation

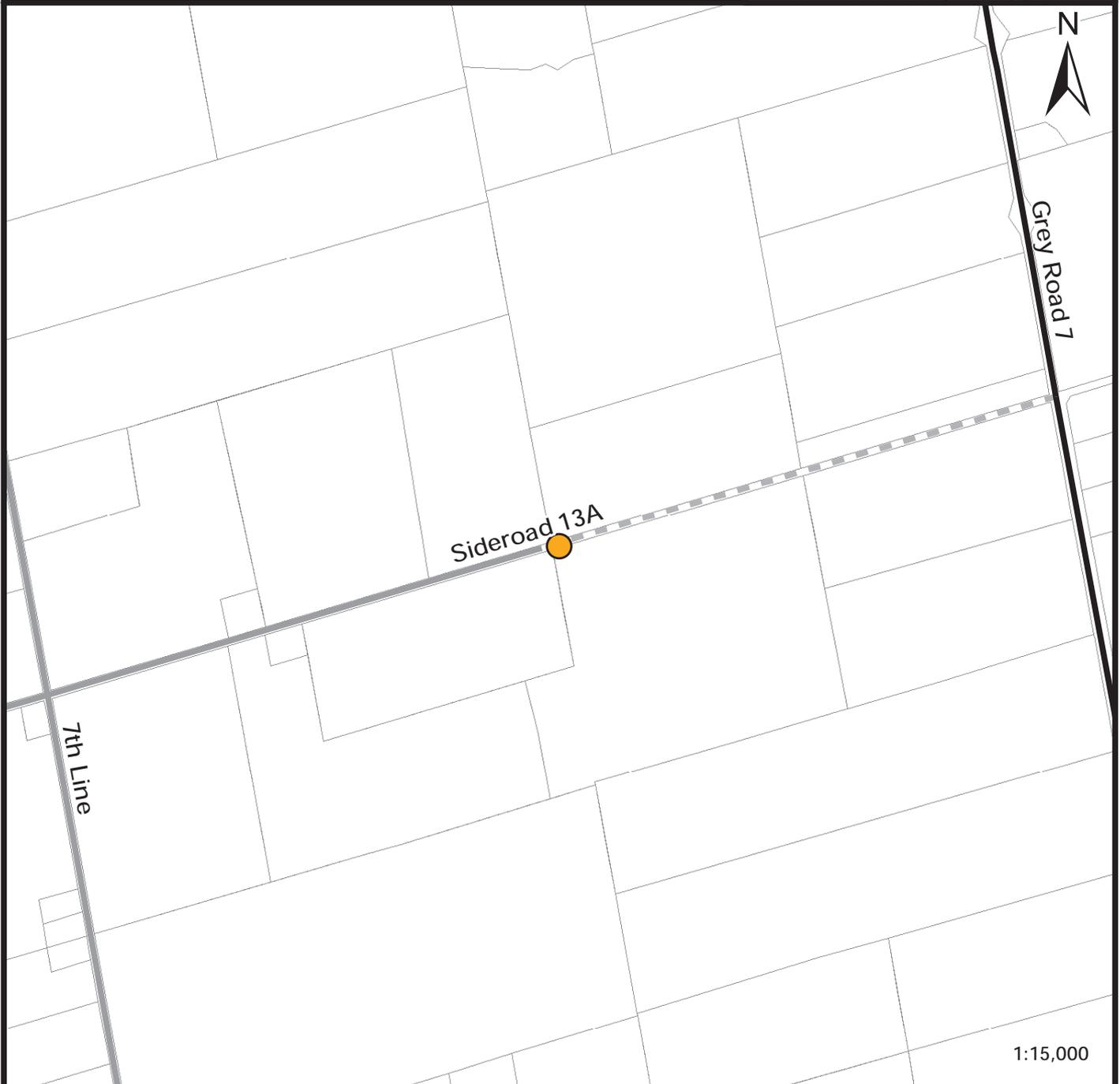
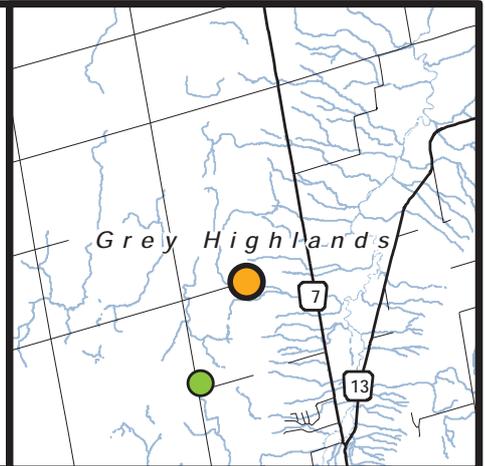
-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill

 Provincial Highway

 County Road

 Local Road

February, 2015 - Grey County Planning LF17.MXD



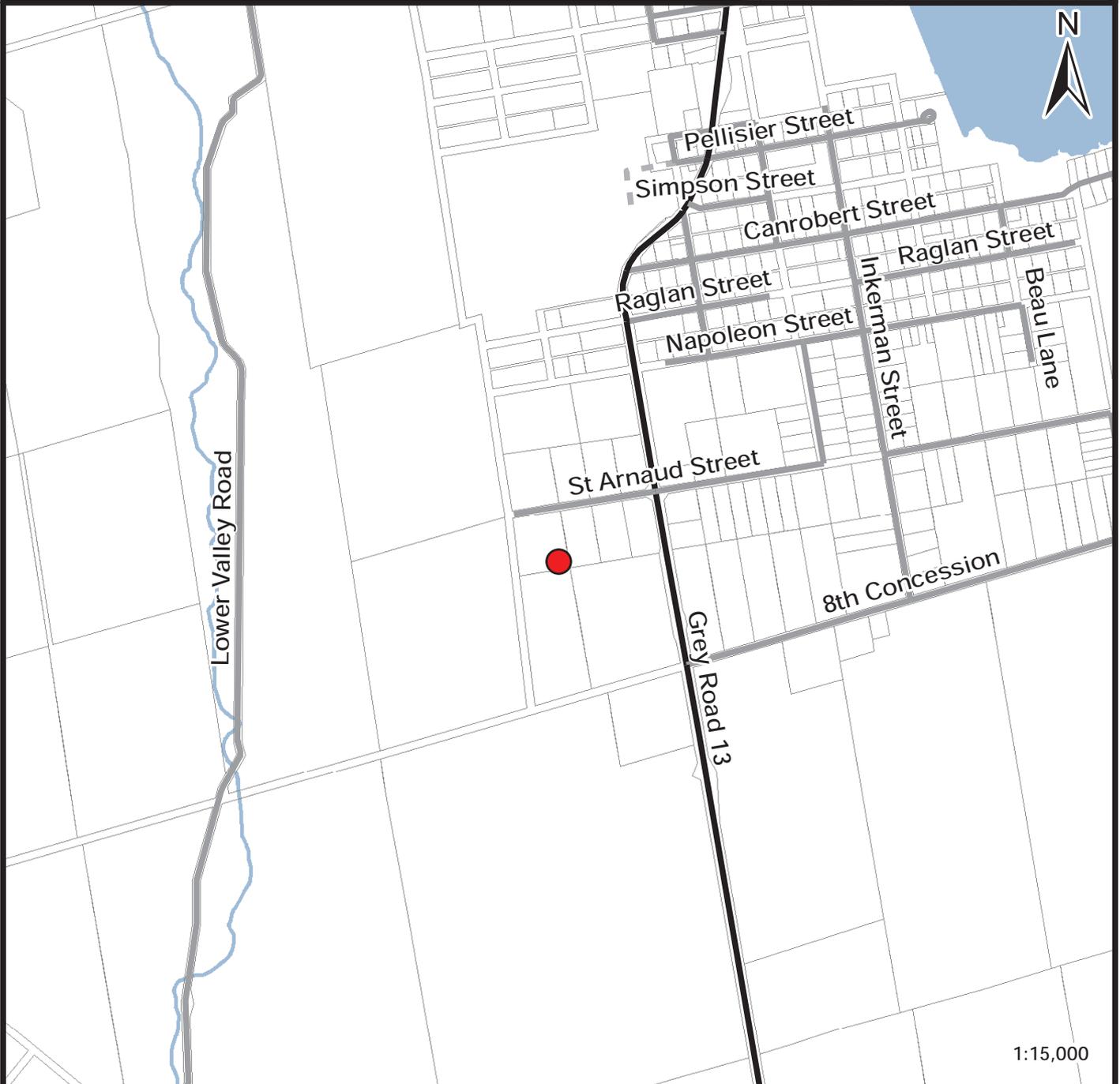
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Landfill A261203

Recommendation

- Cleared - Determined to have insufficient risk
- Cleared - Site proven not to exist
- D-4 Recommended to clear site
- Previously Evaluated
- Remove - Insufficient info to locate landfill
- Provincial Highway
- County Road
- Local Road

February, 2015 - Grey County Planning LF18.MXD



This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill A260801

Recommendation

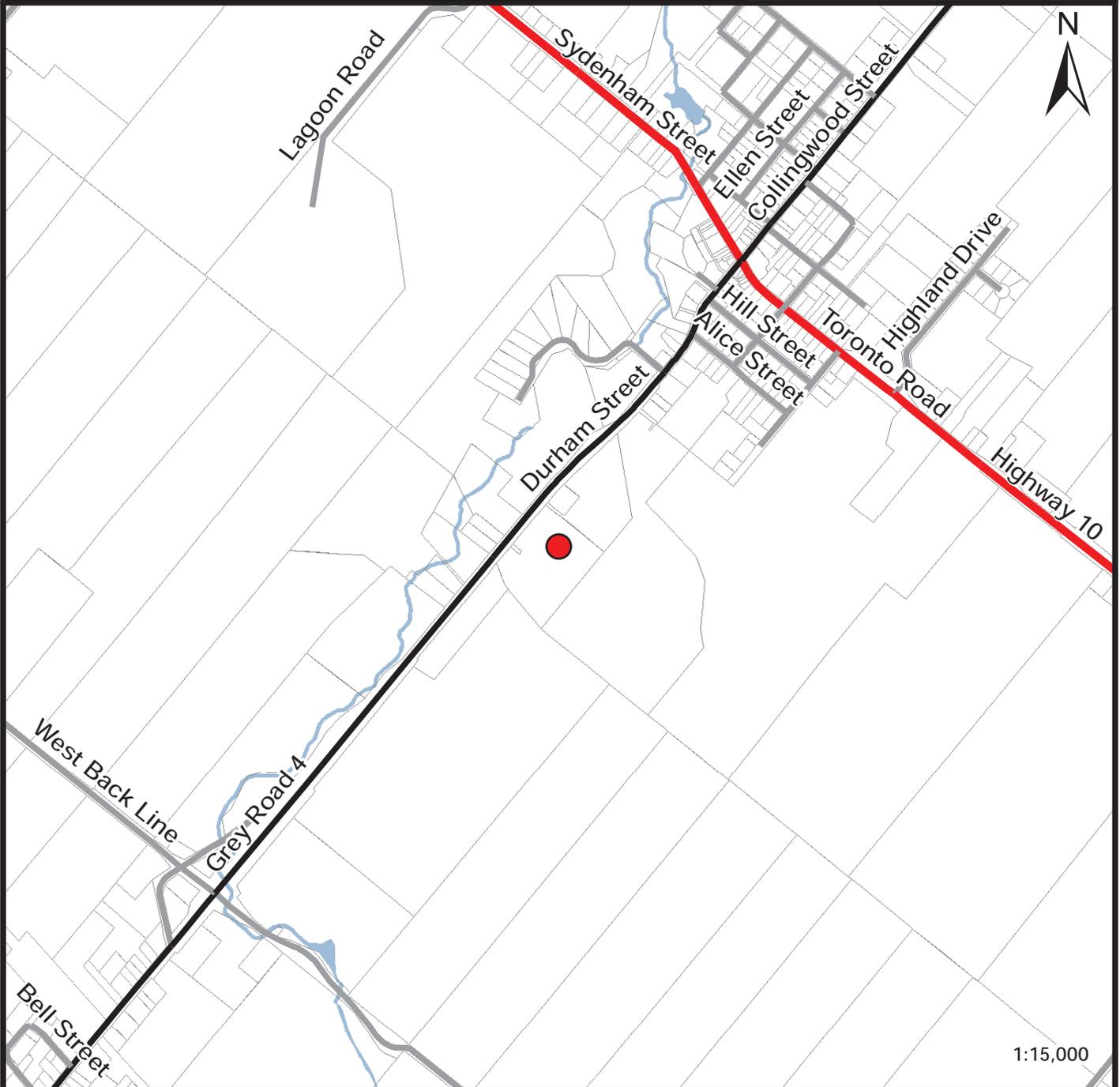
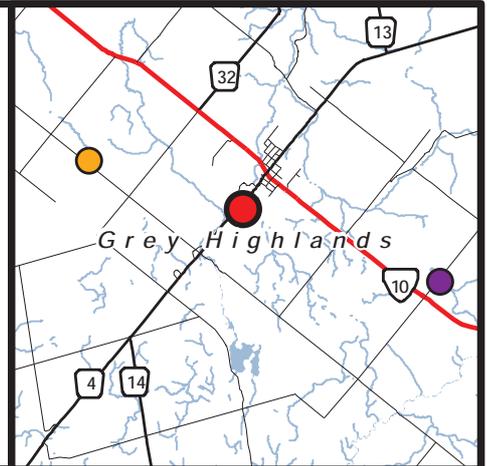
- Cleared - Determined to have insufficient risk
- Cleared - Site proven not to exist
- D-4 Recommended to clear site
- Previously Evaluated
- Remove - Insufficient info to locate landfill

— Provincial Highway

— County Road

— Local Road

February, 2015 - Grey County Planning LF19.MXD



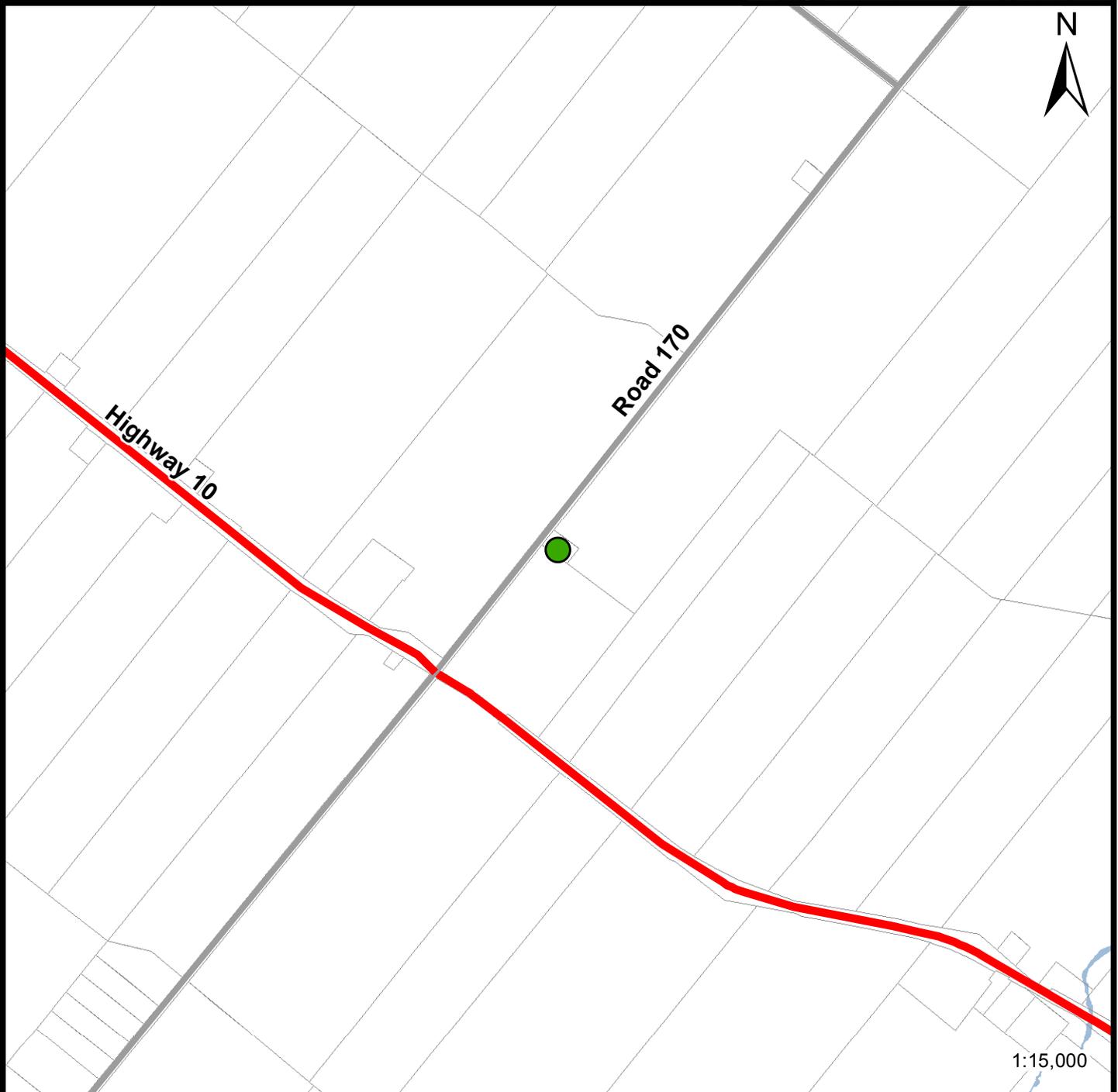
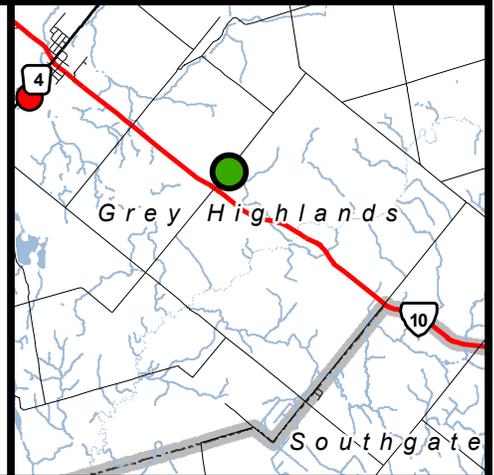
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

**Landfill A261202**

**Recommendation**

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

May, 2015 - Grey County Planning LF20.MXD

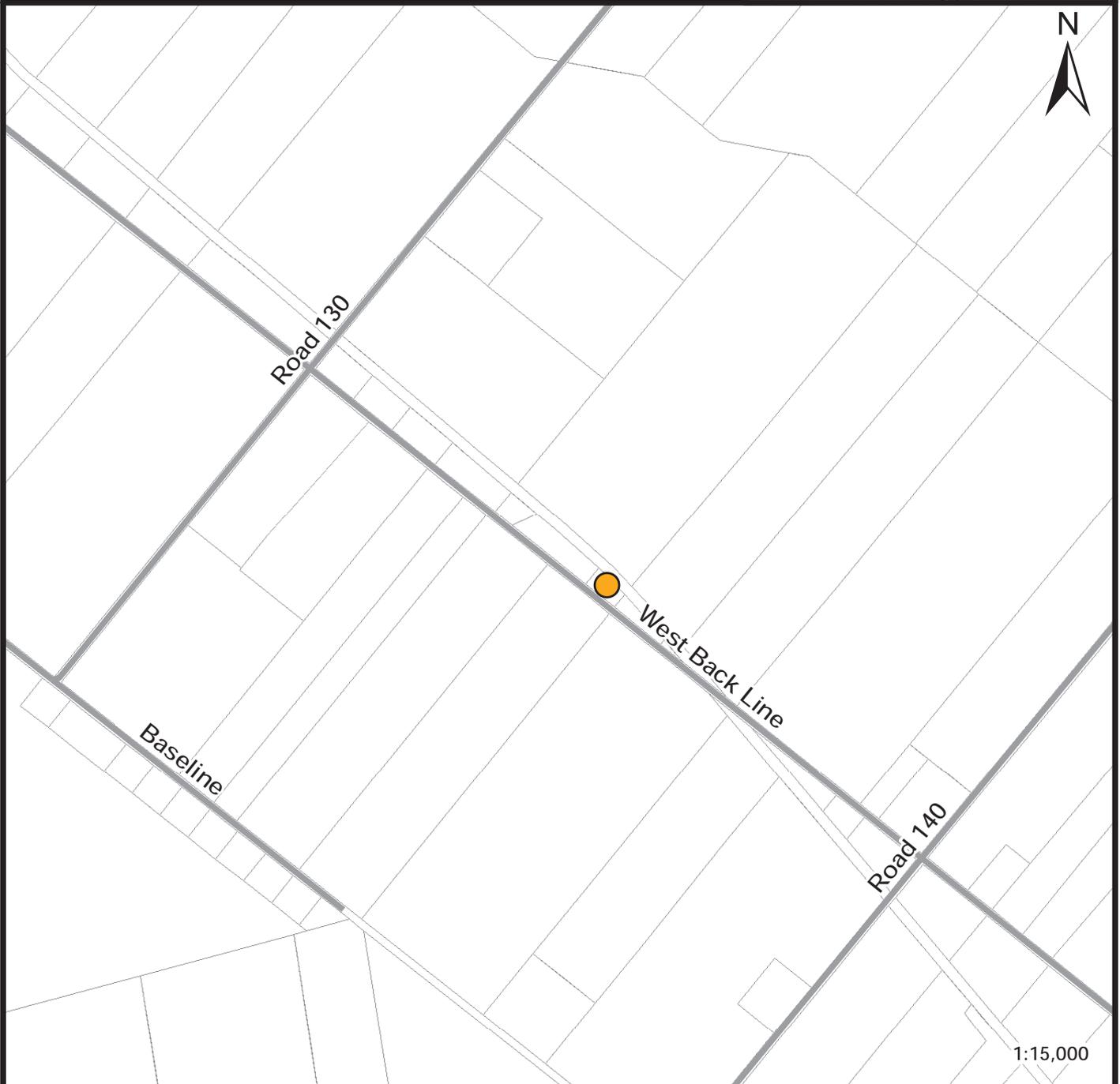
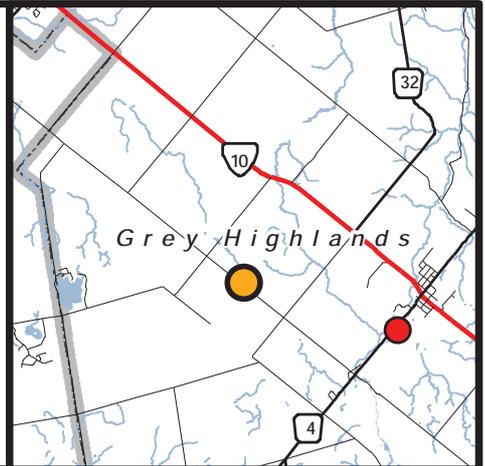


Landfill A261201

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF21.MXD



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Landfill A261205

Recommendation

- Cleared - Determined to have insufficient risk
- Cleared - Site proven not to exist
- D-4 Recommended to clear site
- Previously Evaluated
- Remove - Insufficient info to locate landfill

— Provincial Highway

— County Road

— Local Road

February, 2015 - Grey County Planning LF22.MXD



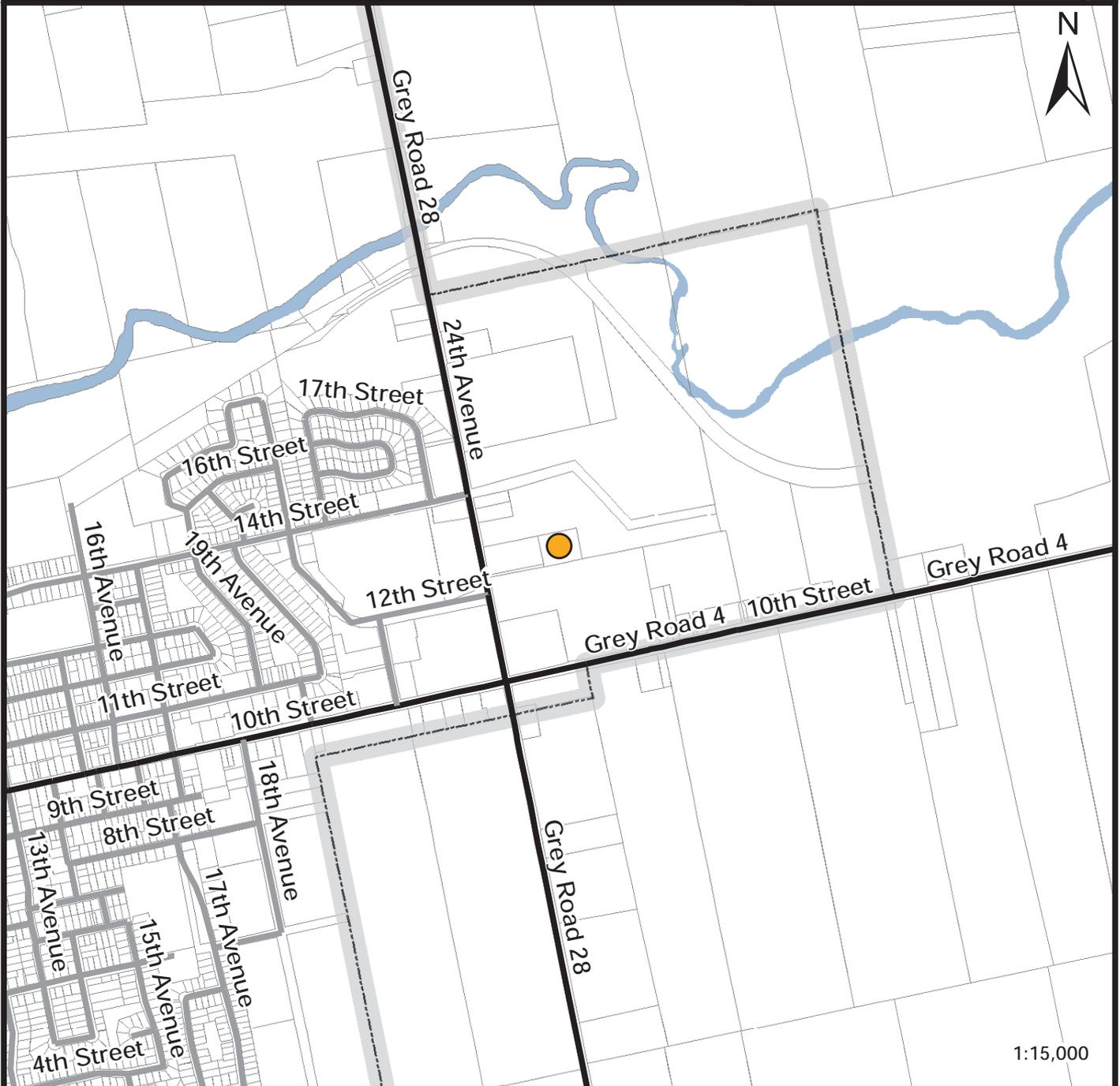
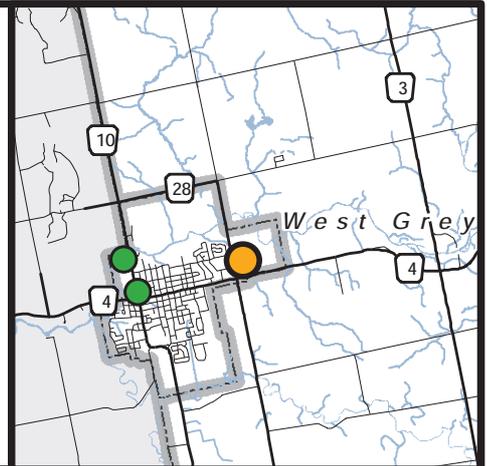
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill X5150

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF23.MXD



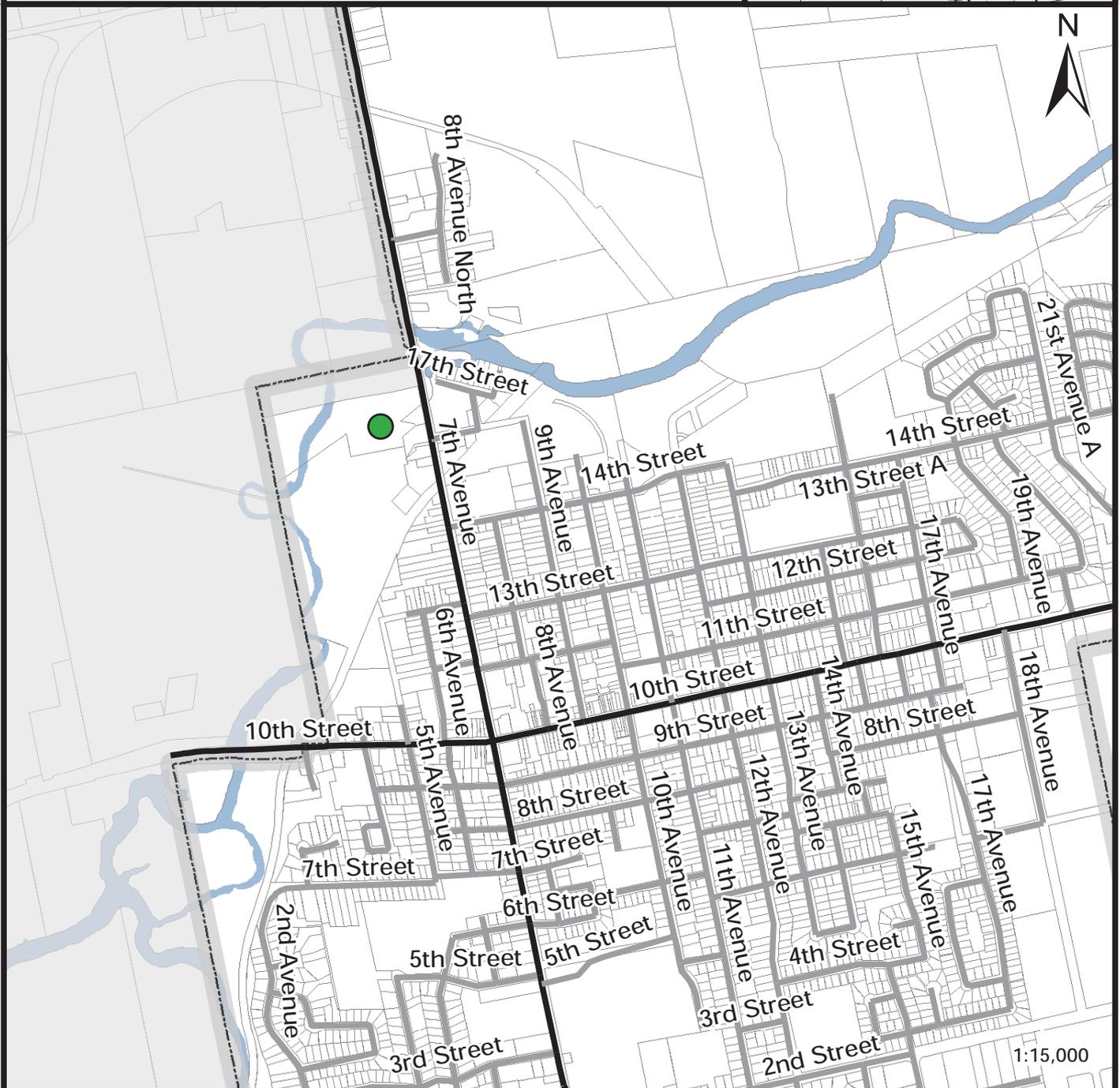
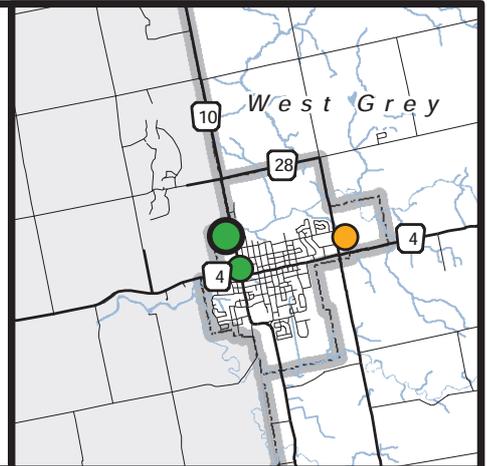
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

# Landfill X5152

## Recommendation

- Cleared - Determined to have insufficient risk
- Cleared - Site proven not to exist
- D-4 Recommended to clear site
- Previously Evaluated
- Remove - Insufficient info to locate landfill
- Provincial Highway
- County Road
- Local Road

February, 2015 - Grey County Planning LF24.MXD



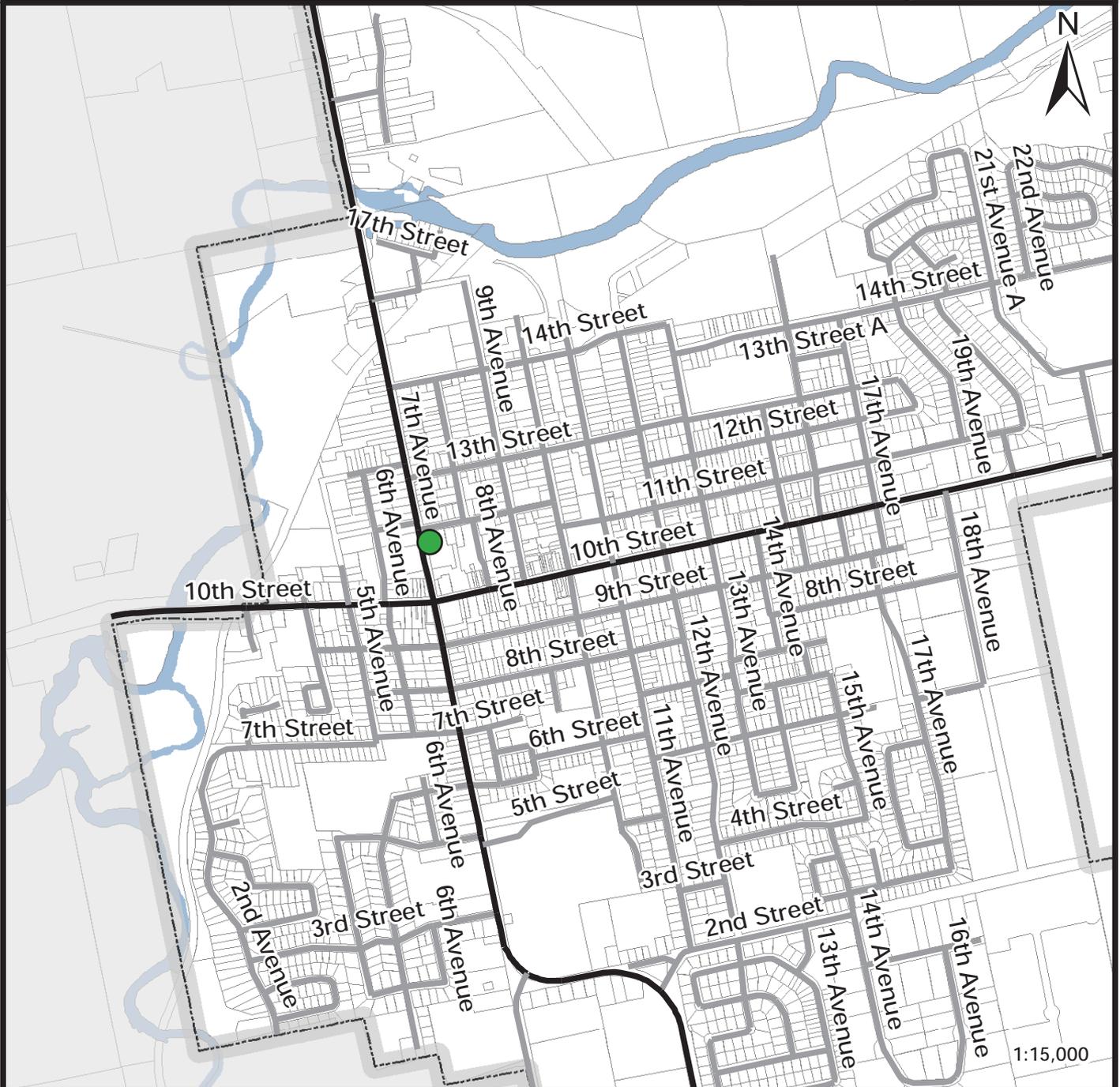
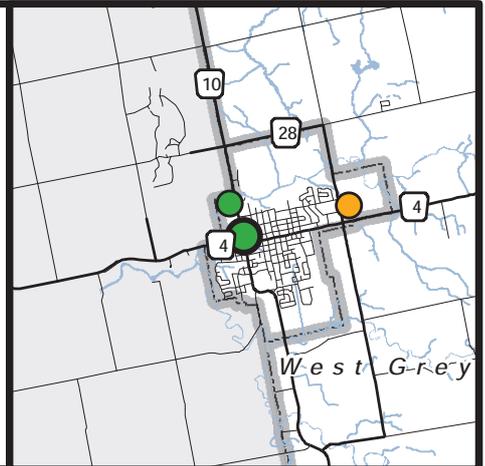
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

# Landfill X5151

## Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF25.MXD



This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill A262401

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF26.MXD



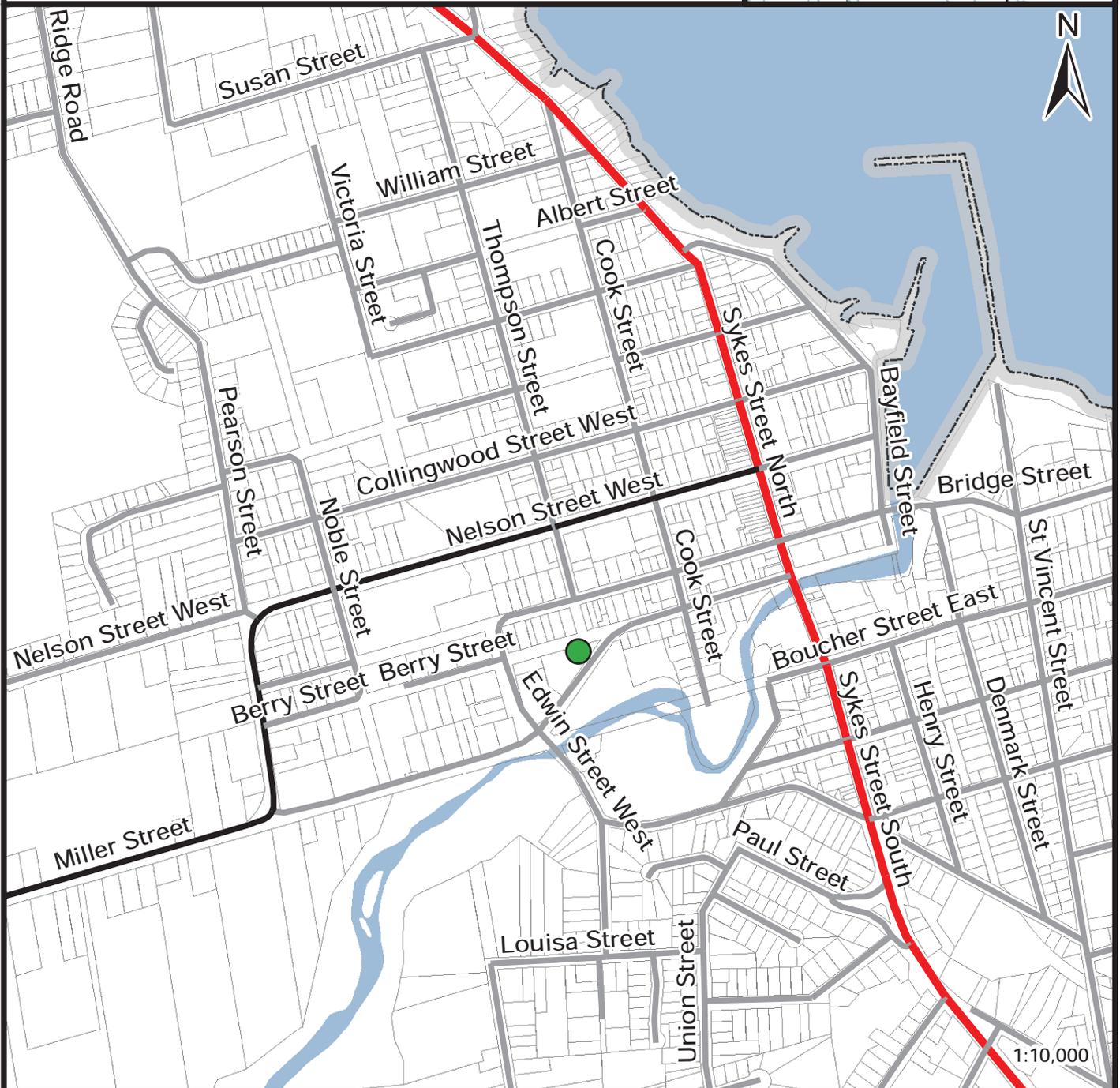
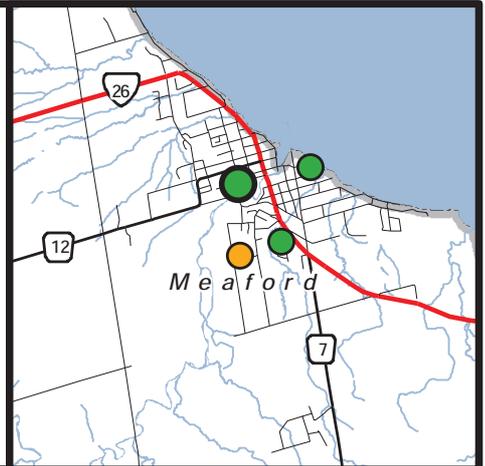
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

**Landfill X2087**

**Recommendation**

- Cleared - Determined to have insufficient risk
- Cleared - Site proven not to exist
- D-4 Recommended to clear site
- Previously Evaluated
- Remove - Insufficient info to locate landfill
- Provincial Highway
- County Road
- Local Road

February, 2015 - Grey County Planning LF27.MXD



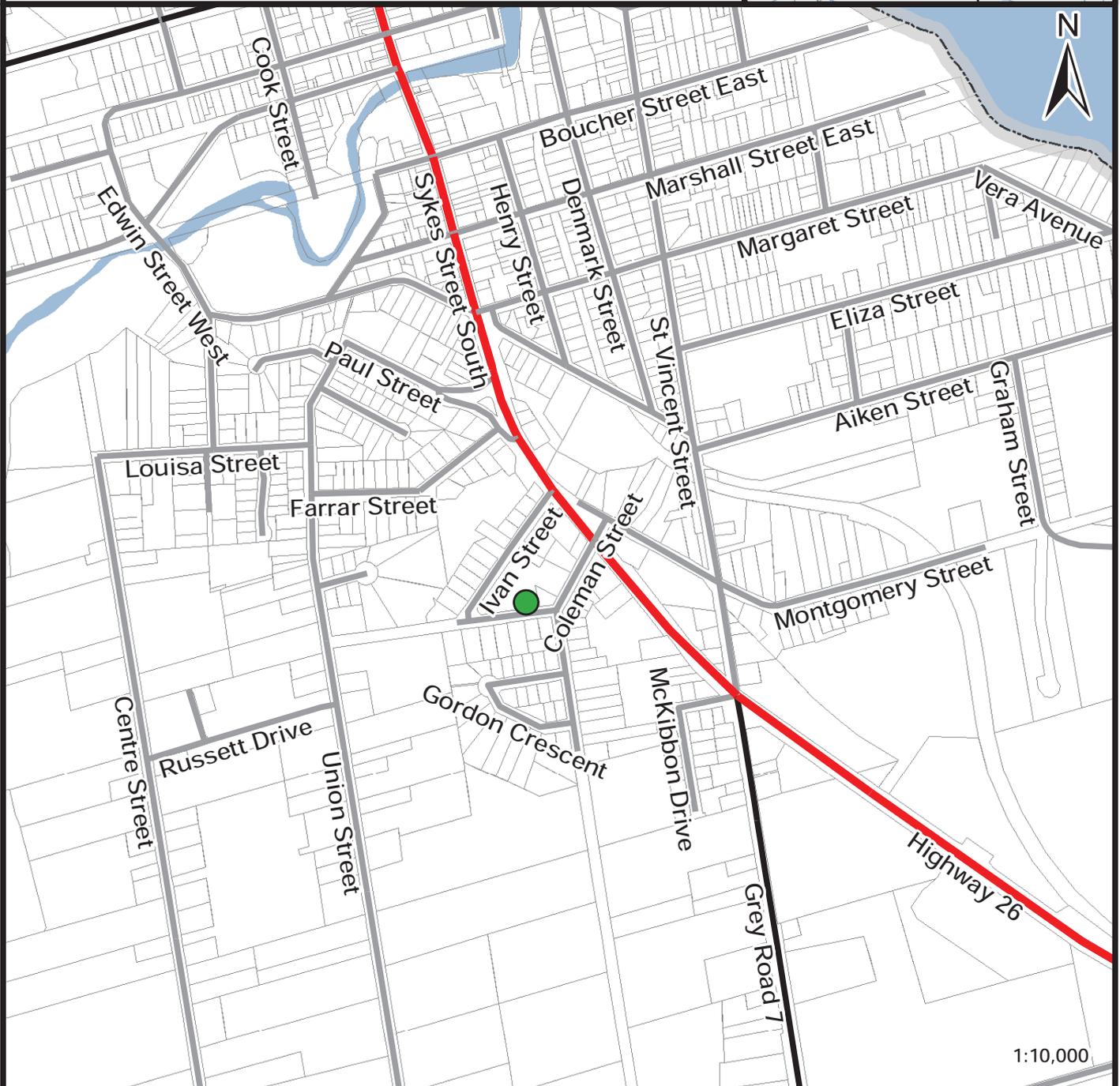
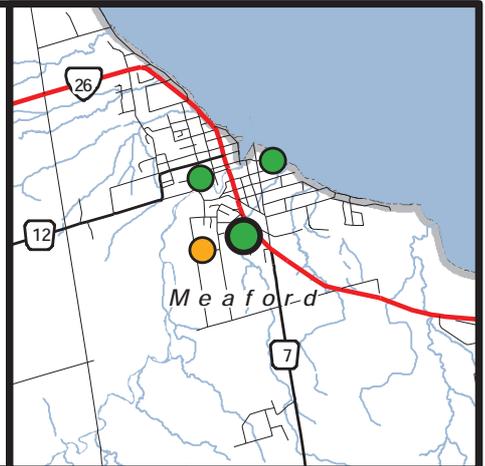
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

# Landfill X2088

## Recommendation

- Cleared - Determined to have insufficient risk
- Cleared - Site proven not to exist
- D-4 Recommended to clear site
- Previously Evaluated
- Remove - Insufficient info to locate landfill
- Provincial Highway
- County Road
- Local Road

February, 2015 - Grey County Planning LF28.MXD



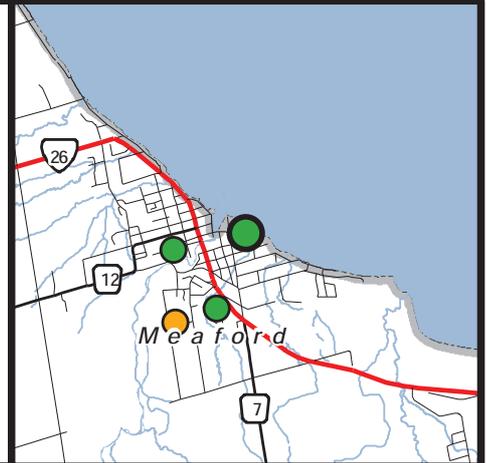
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill X2089

Recommendation

- Cleared - Determined to have insufficient risk
- Cleared - Site proven not to exist
- D-4 Recommended to clear site
- Previously Evaluated
- Remove - Insufficient info to locate landfill
- Provincial Highway
- County Road
- Local Road

February, 2015 - Grey County Planning LF29.MXD



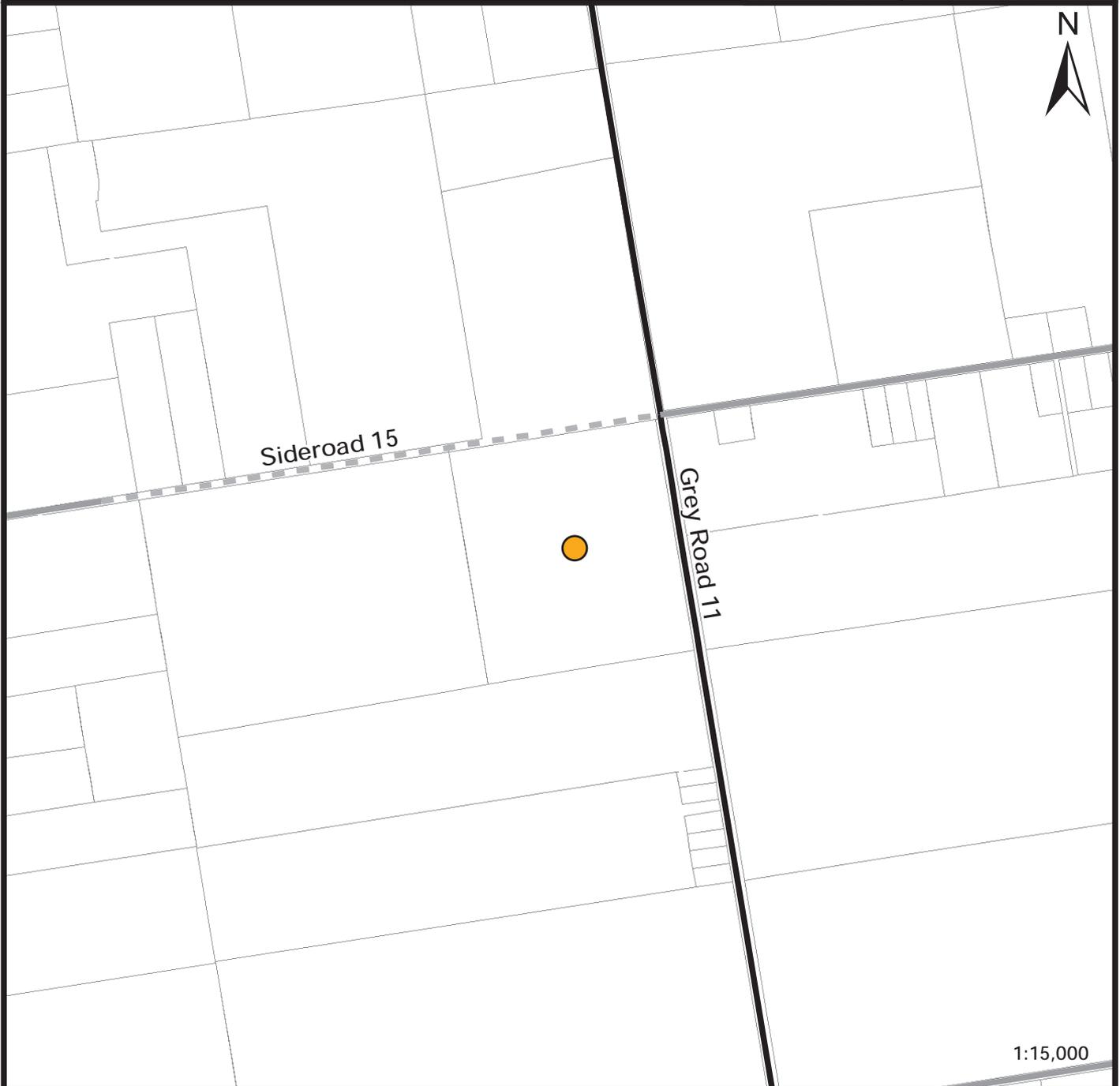
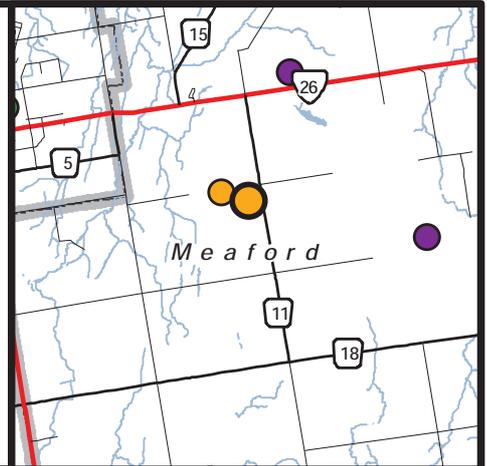
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

# Landfill X2108

## Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF30.MXD



This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

# Landfill X2104

## Recommendation

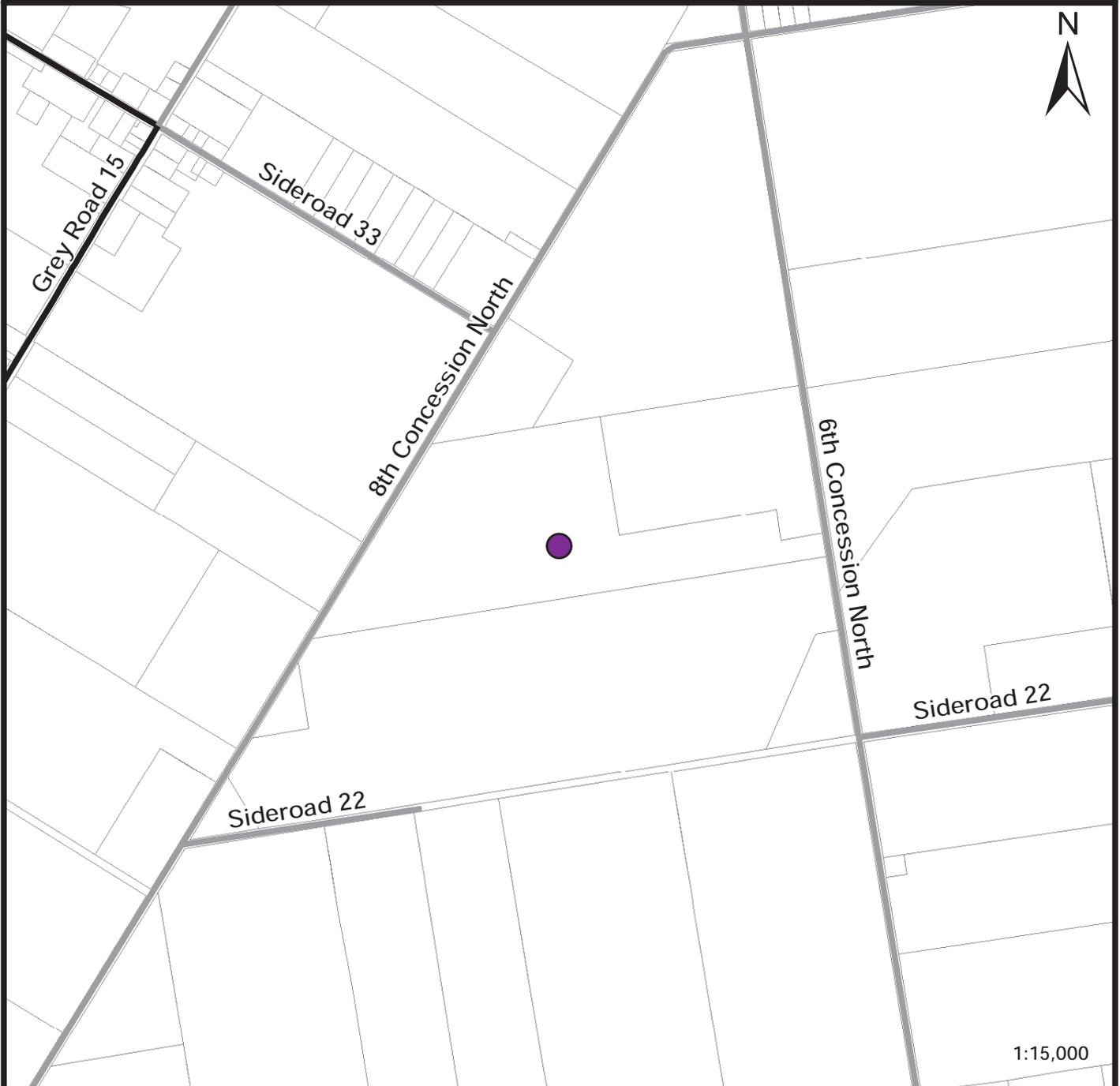
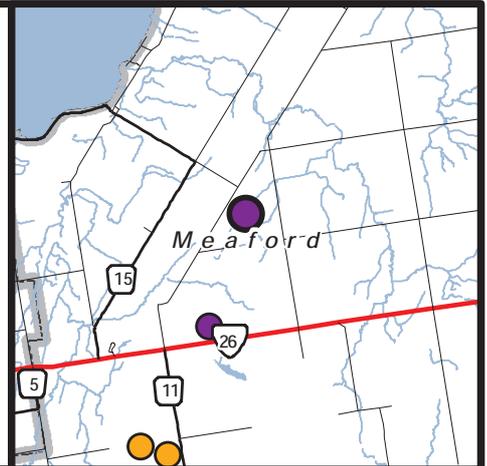
-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill

 Provincial Highway

 County Road

 Local Road

February, 2015 - Grey County Planning LF31.MXD



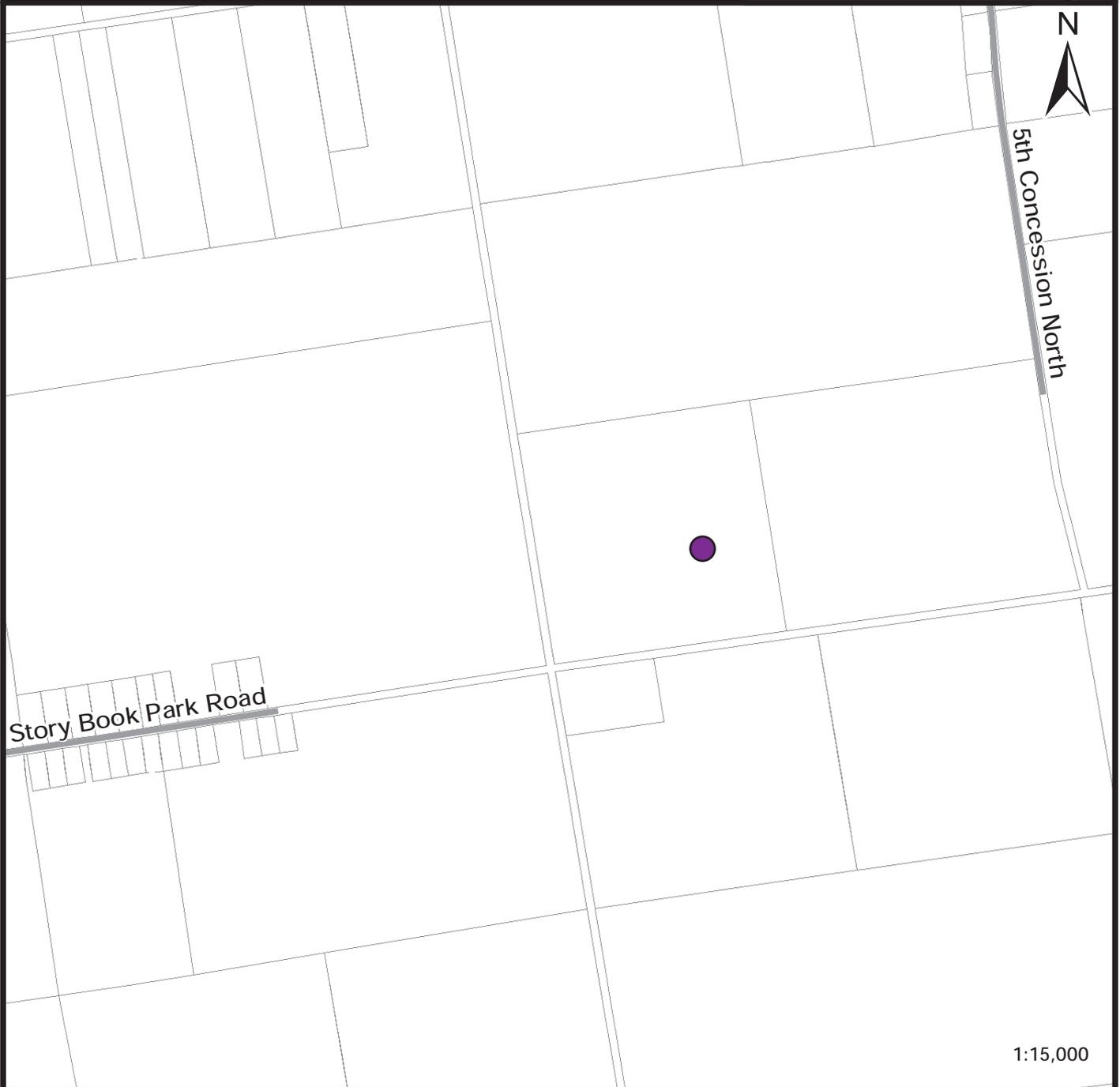
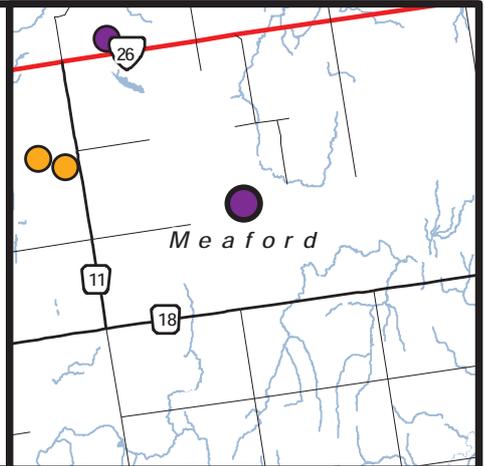
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# Landfill X2105

## Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF32.MXD



1:15,000

# Landfill X2106

## Recommendation

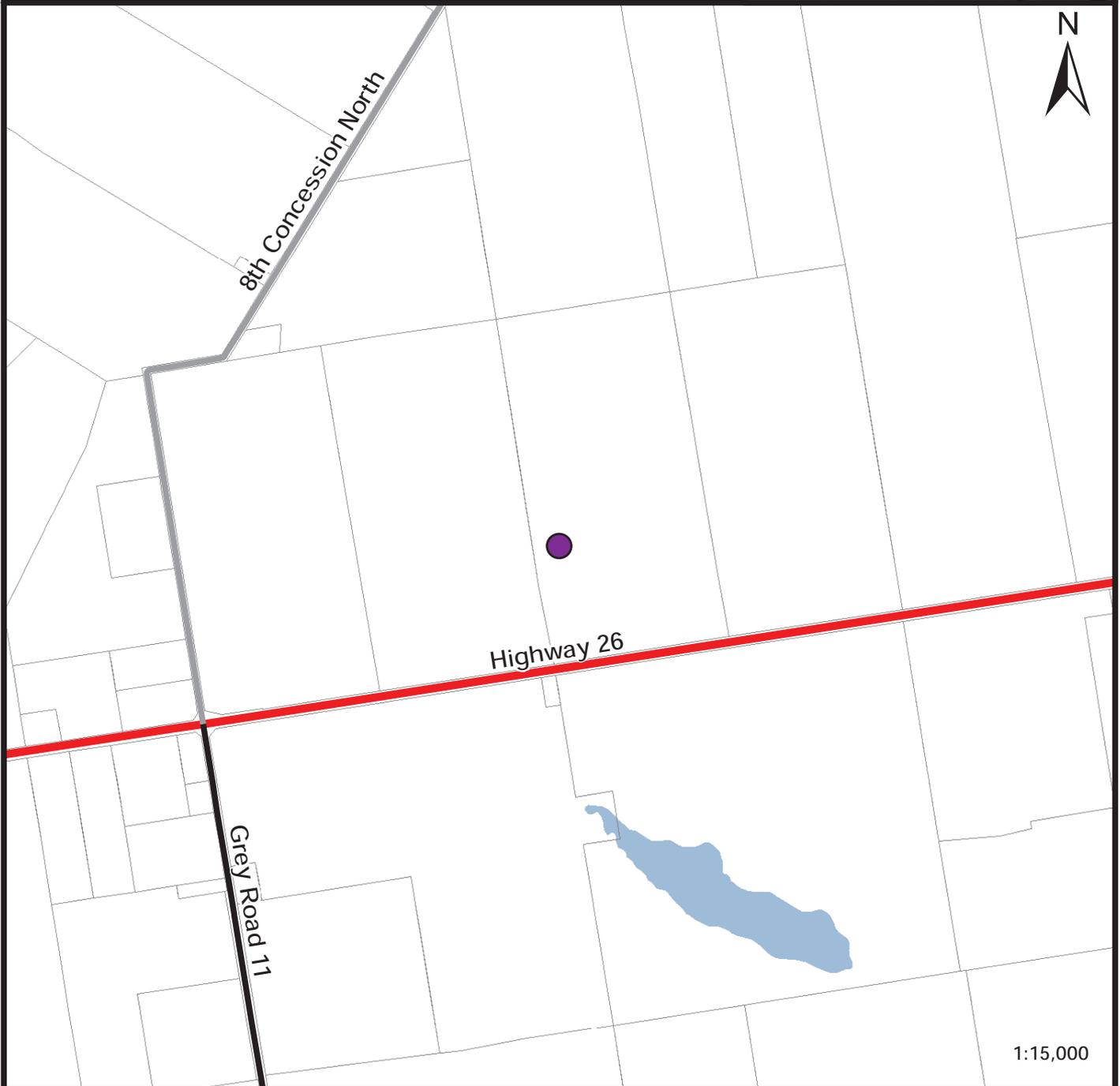
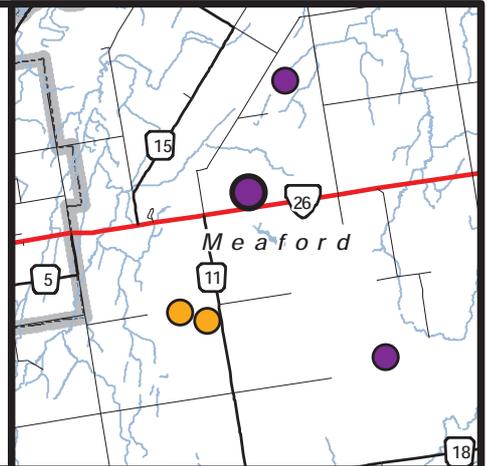
-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill

 Provincial Highway

 County Road

 Local Road

February, 2015 - Grey County Planning LF33.MXD



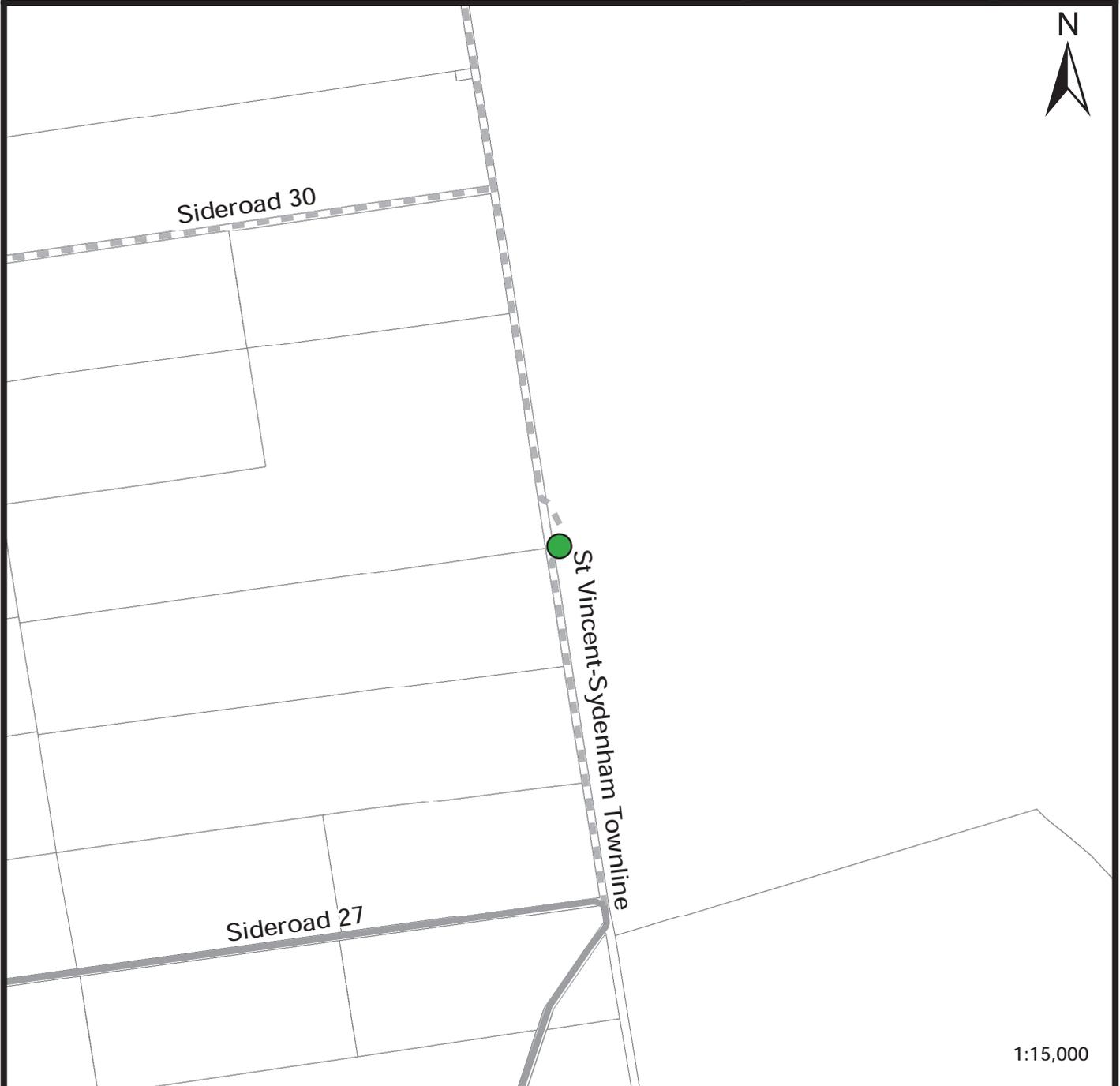
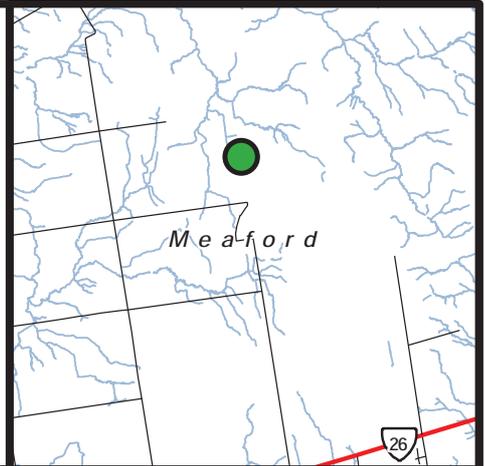
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill X2107

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

March, 2015 - Grey County Planning LF34.MXD



1:15,000

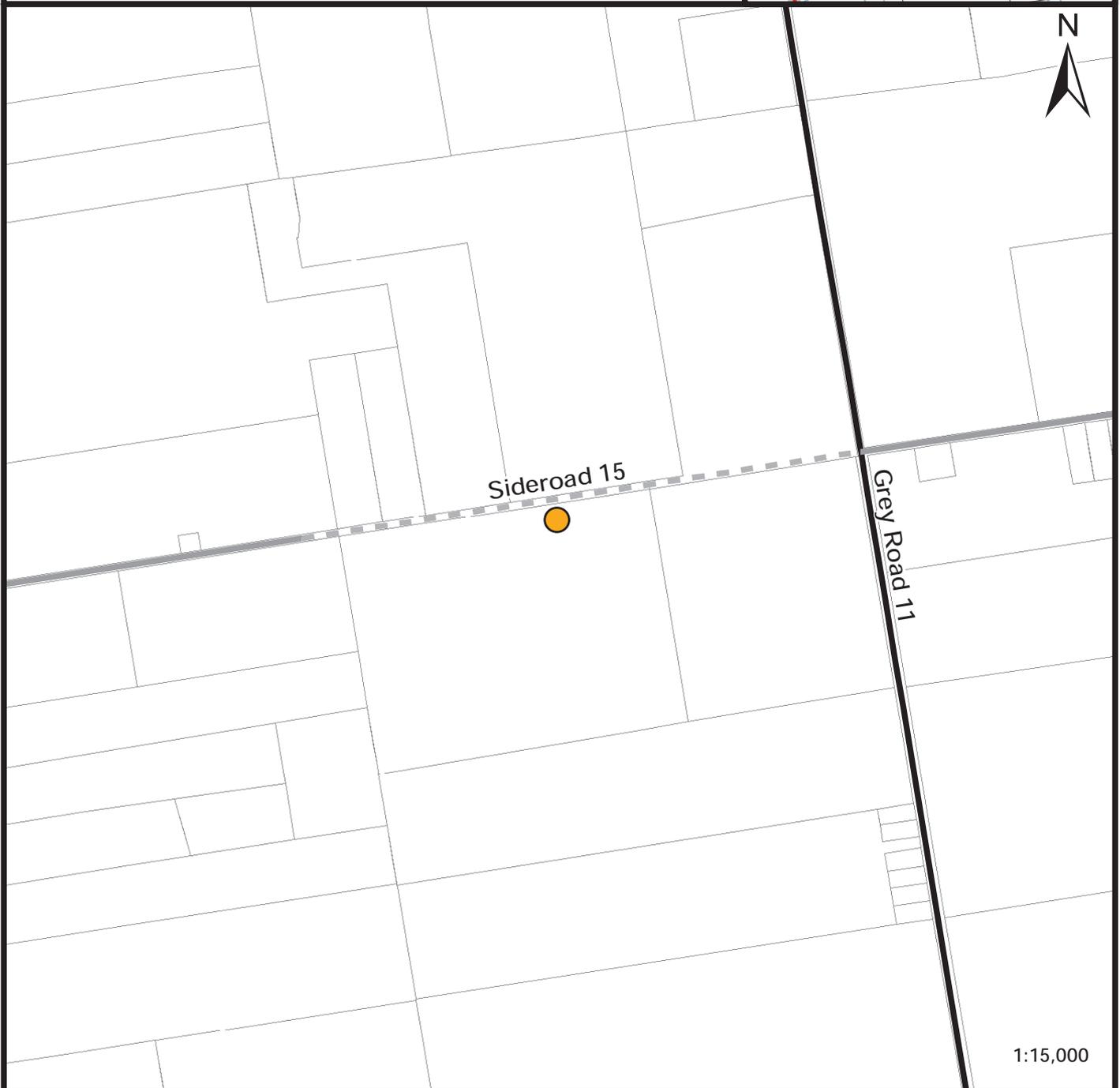
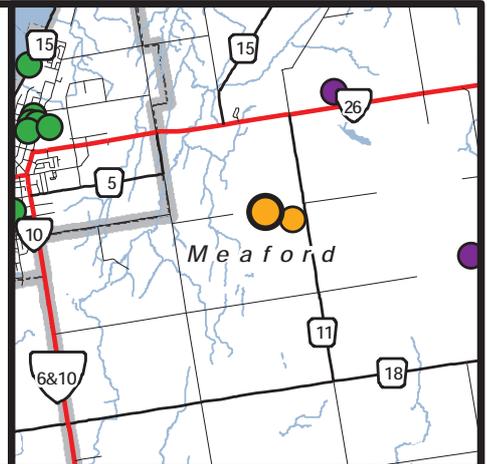
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill X2093

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF35.MXD



This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill Mea - Unk

Recommendation

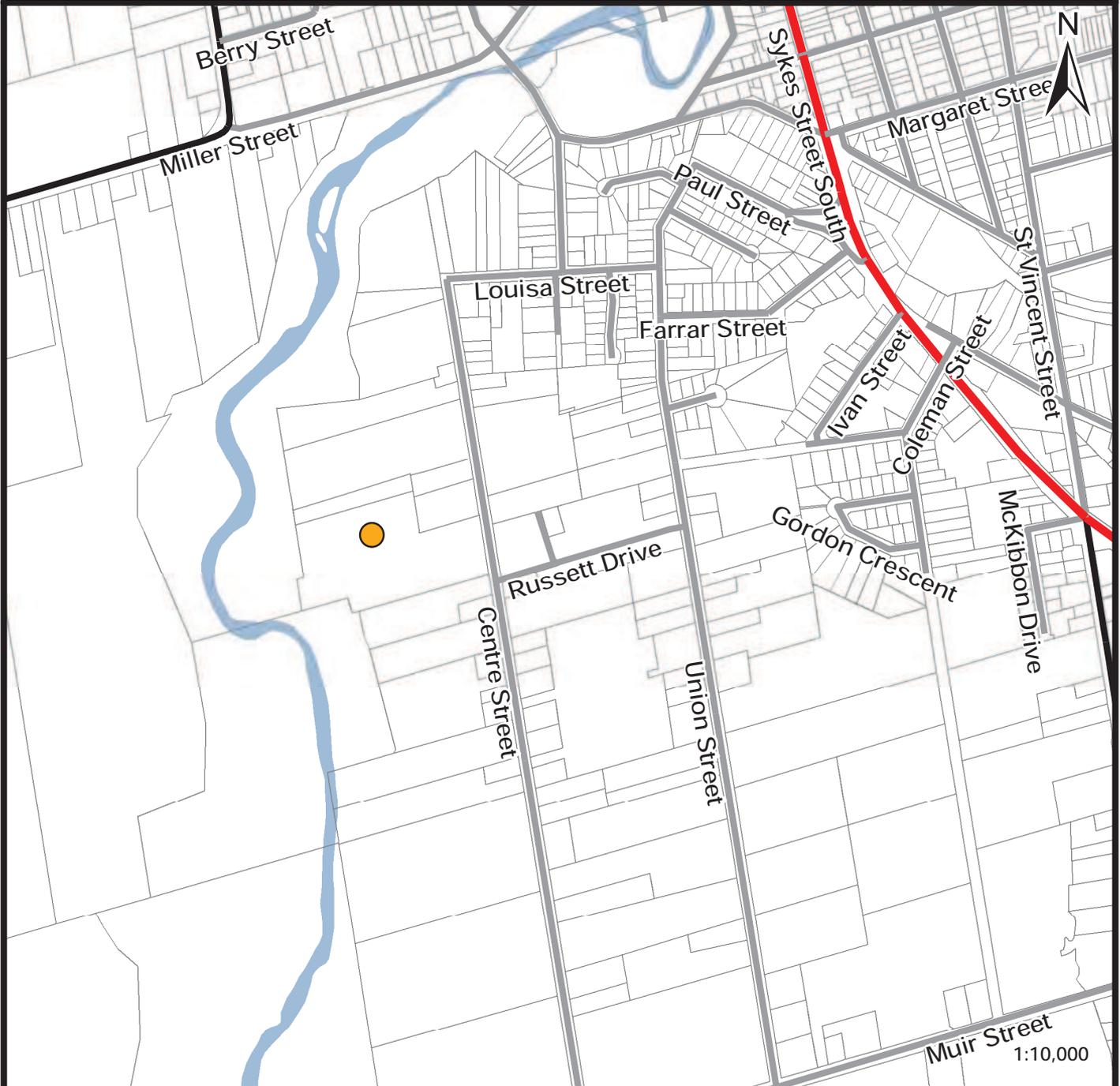
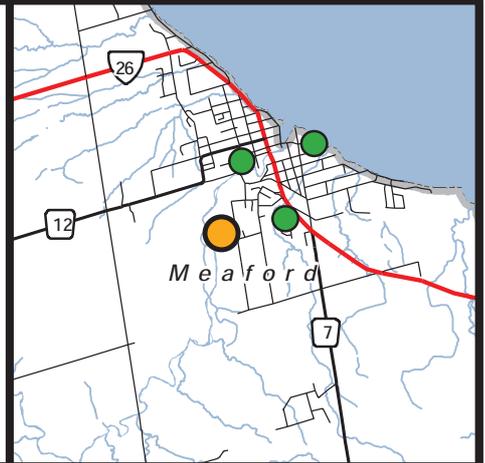
- Cleared - Determined to have insufficient risk
- Cleared - Site proven not to exist
- D-4 Recommended to clear site
- Previously Evaluated
- Remove - Insufficient info to locate landfill

— Provincial Highway

— County Road

— Local Road

March, 2015 - Grey County Planning LF36.MXD



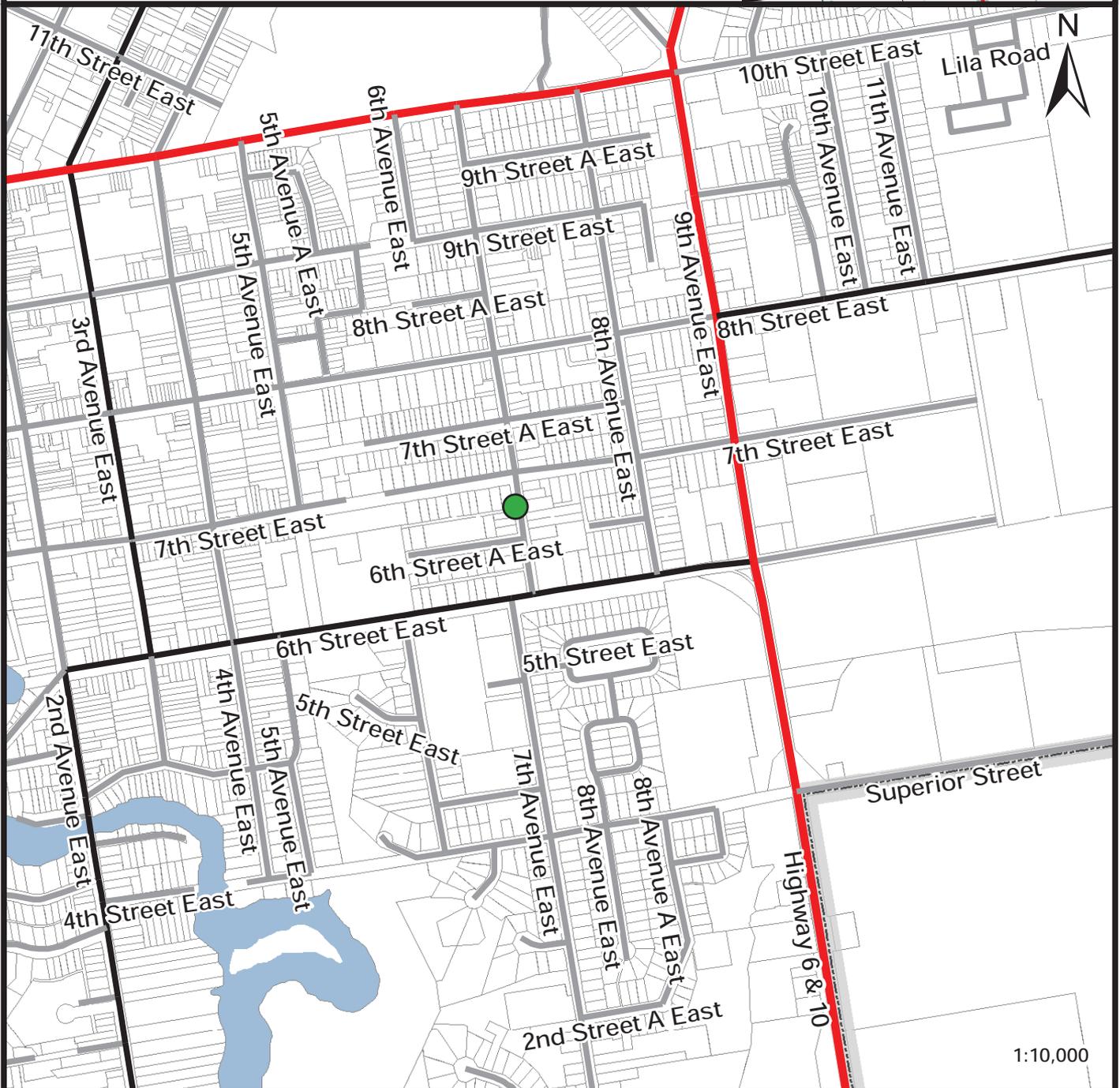
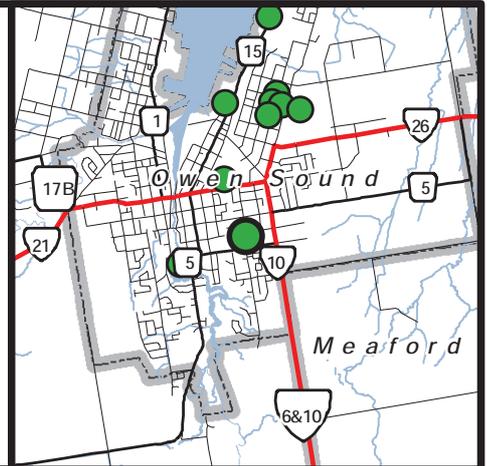
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill X2082

Recommendation

- Cleared - Determined to have insufficient risk
- Cleared - Site proven not to exist
- D-4 Recommended to clear site
- Previously Evaluated
- Remove - Insufficient info to locate landfill
- Provincial Highway
- County Road
- Local Road

February, 2015 - Grey County Planning LF37.MXD



This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

**Landfill X2083**

**Recommendation**

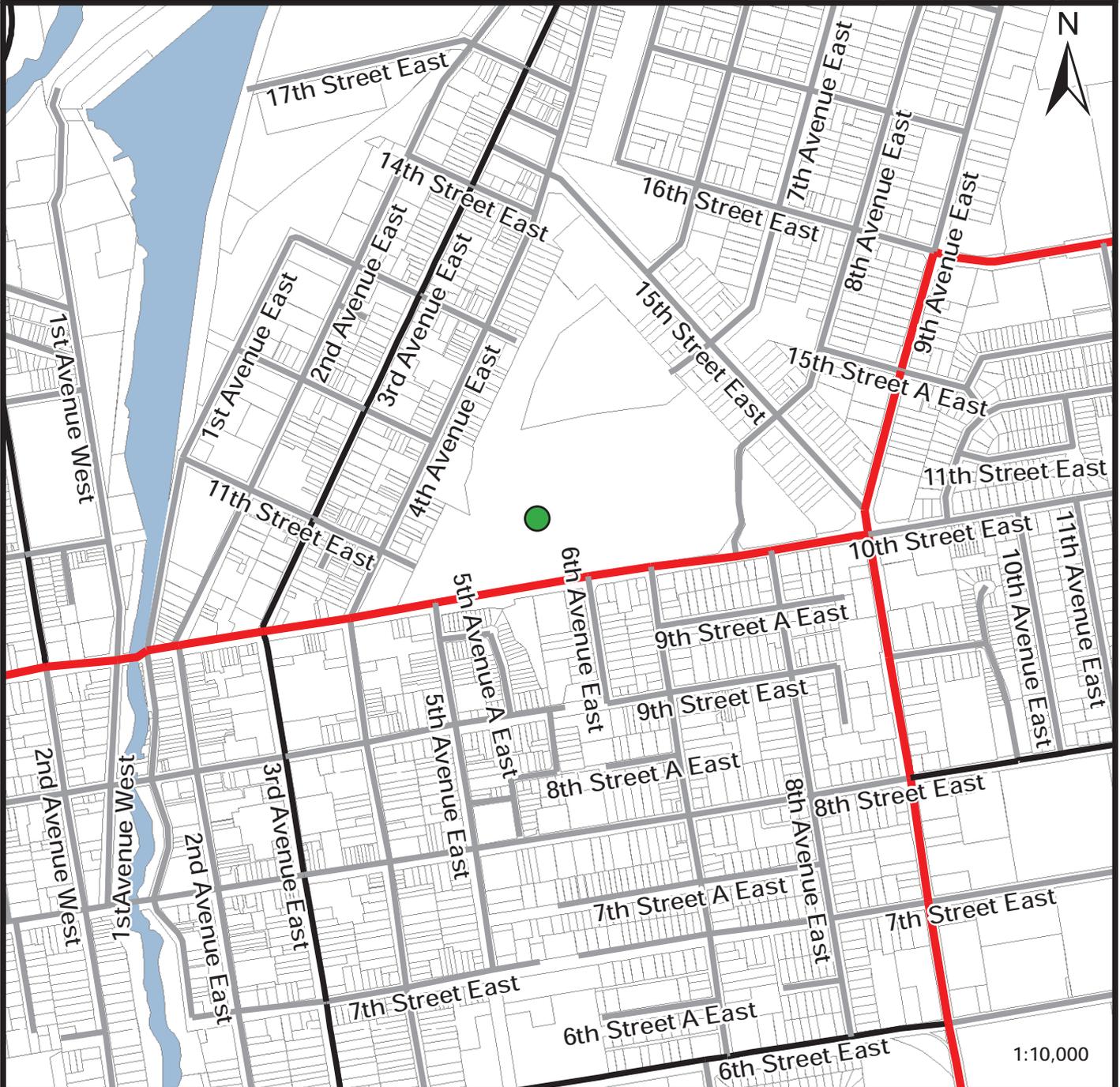
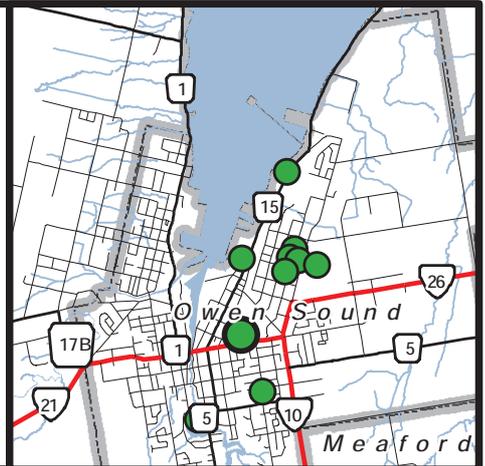
- Cleared - Determined to have insufficient risk
- Cleared - Site proven not to exist
- D-4 Recommended to clear site
- Previously Evaluated
- Remove - Insufficient info to locate landfill

— Provincial Highway

— County Road

— Local Road

February, 2015 - Grey County Planning LF38.MXD



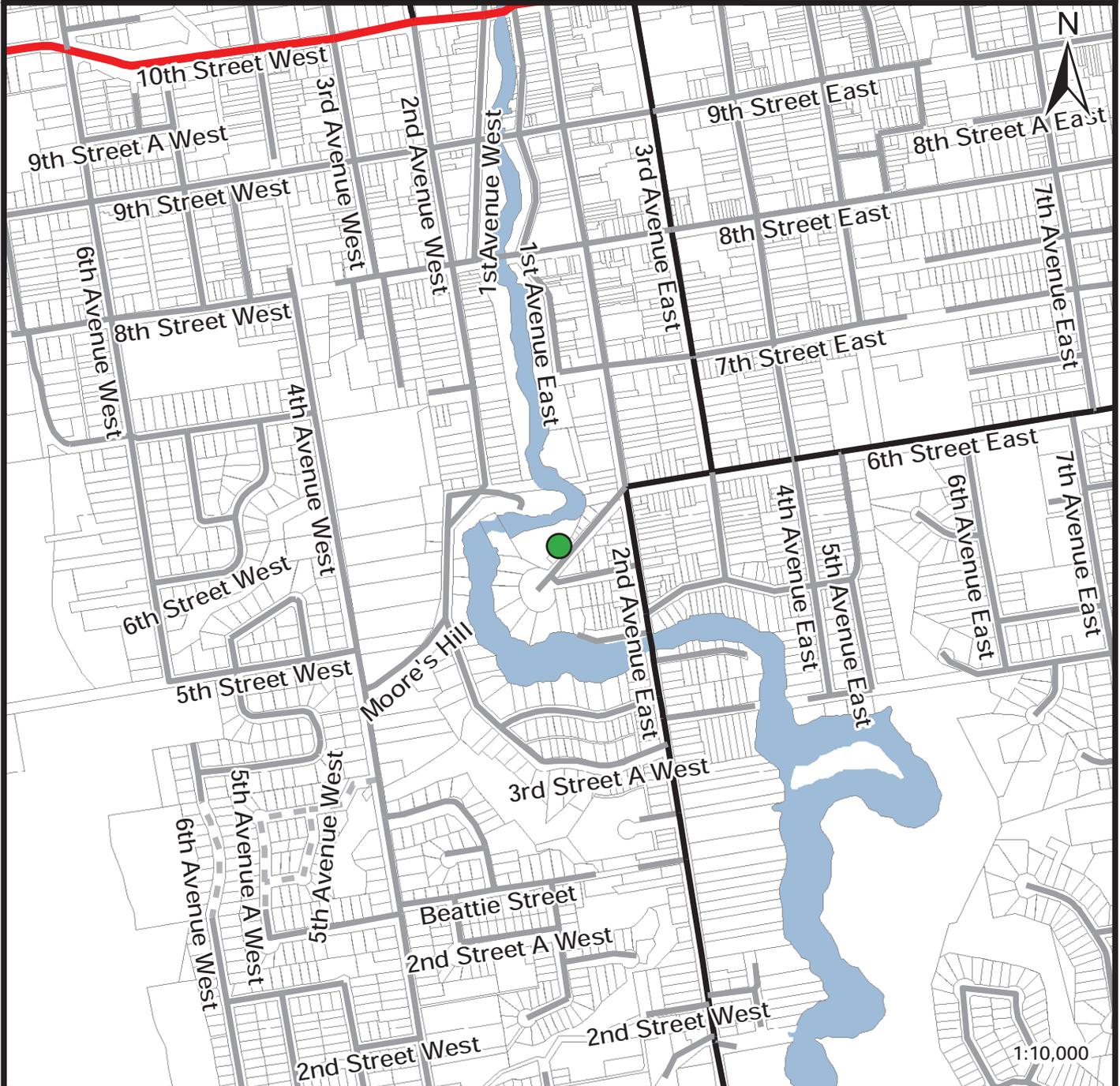
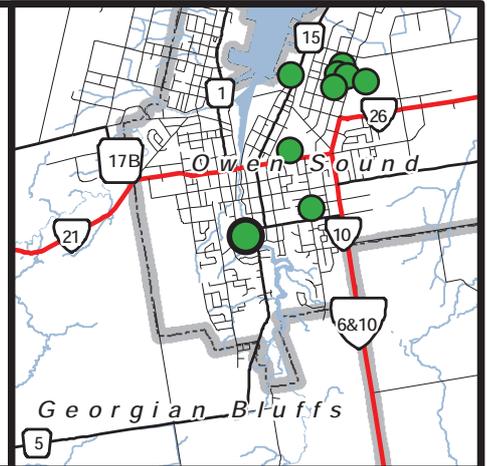
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

**Landfill X2081**

**Recommendation**

- Cleared - Determined to have insufficient risk
- Cleared - Site proven not to exist
- D-4 Recommended to clear site
- Previously Evaluated
- Remove - Insufficient info to locate landfill
- Provincial Highway
- County Road
- Local Road

February, 2015 - Grey County Planning LF39.MXD



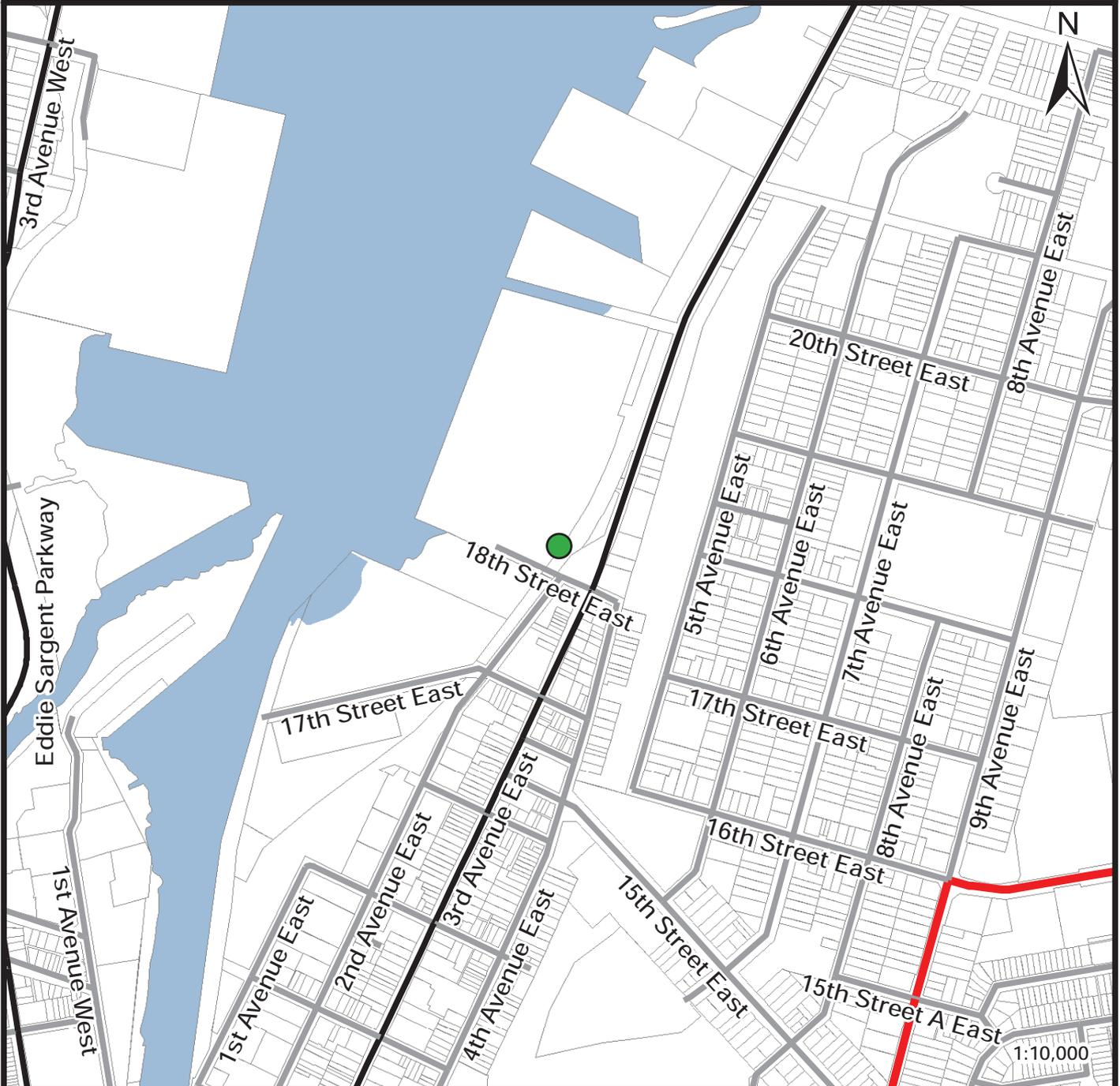
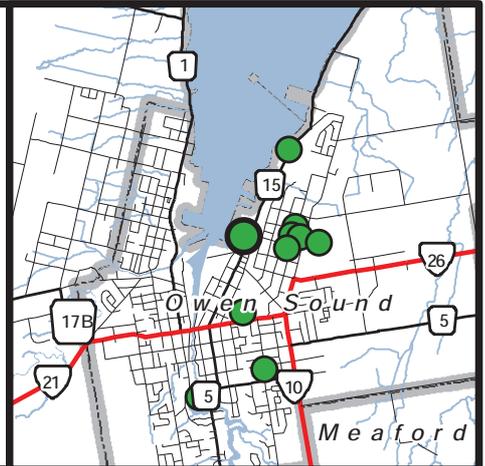
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

**Landfill X2077**

**Recommendation**

- Cleared - Determined to have insufficient risk
- Cleared - Site proven not to exist
- D-4 Recommended to clear site
- Previously Evaluated
- Remove - Insufficient info to locate landfill
- Provincial Highway
- County Road
- Local Road

February, 2015 - Grey County Planning LF40.MXD



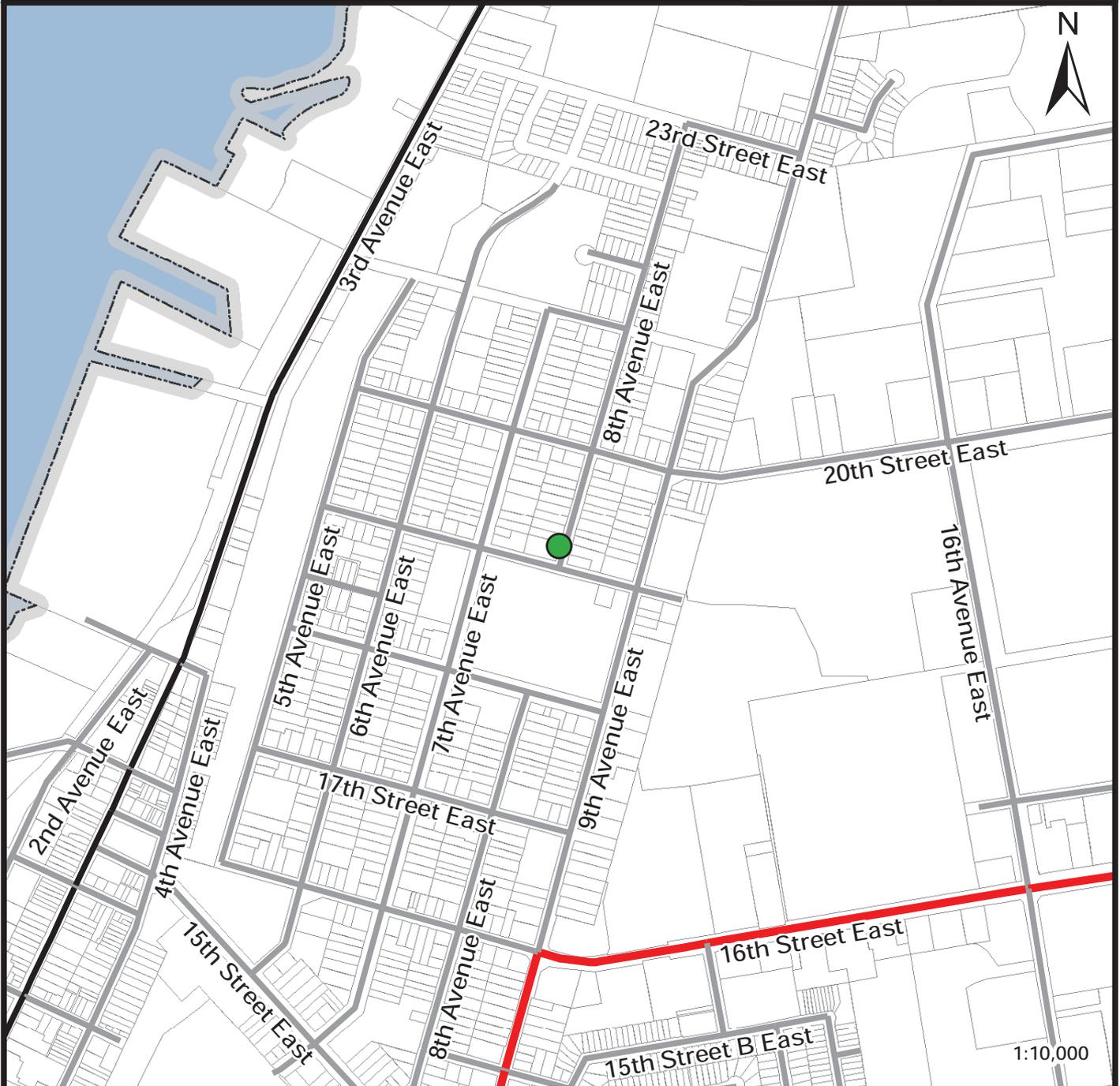
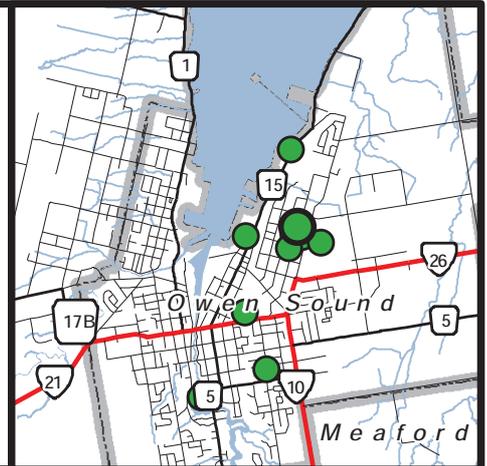
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill X2086

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF41.MXD



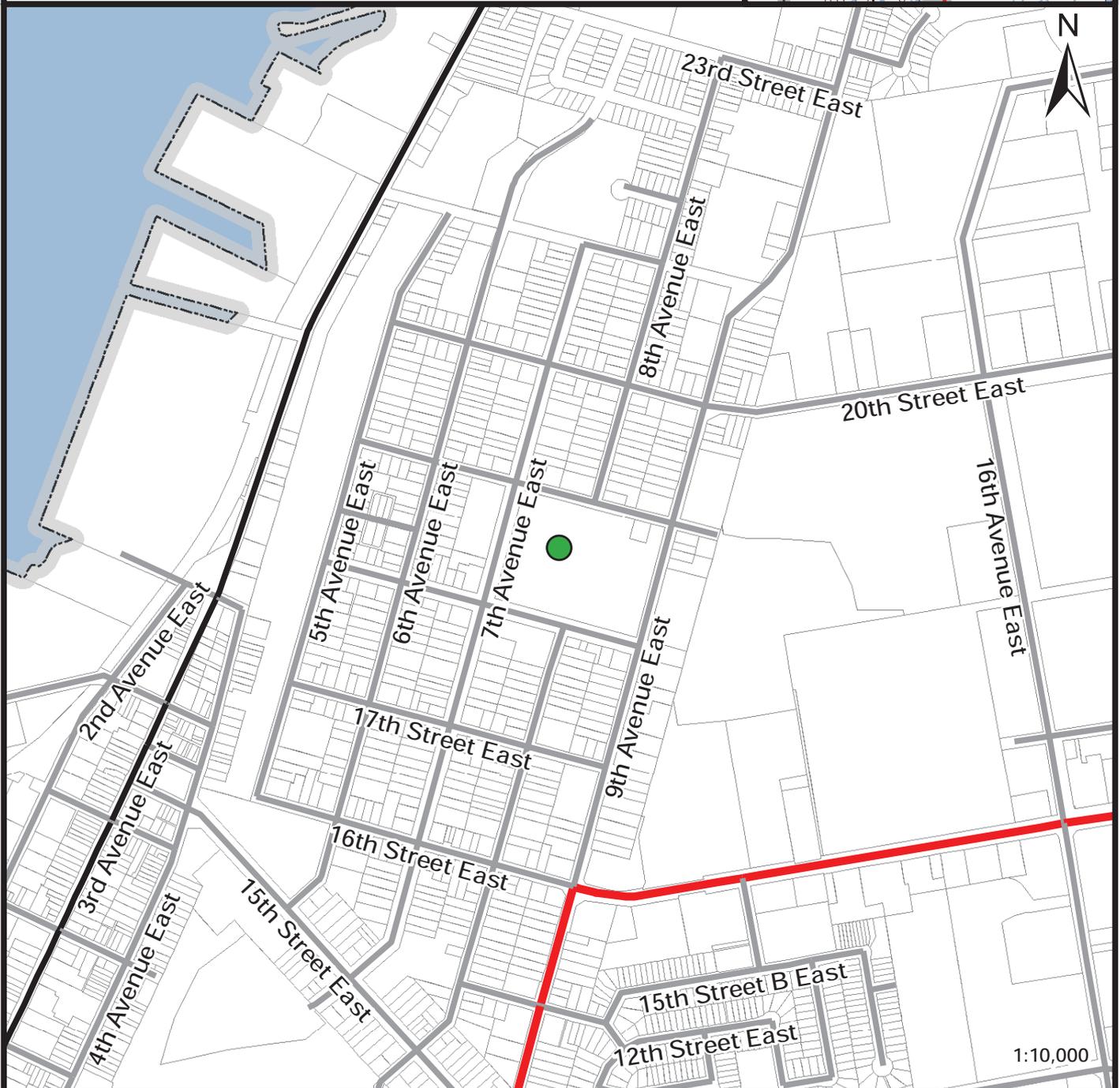
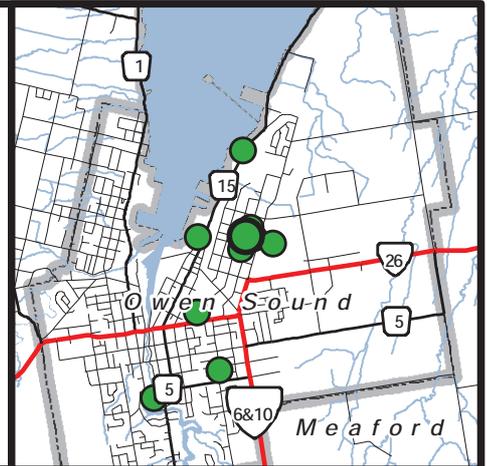
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

# Landfill X2078

## Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF42.MXD



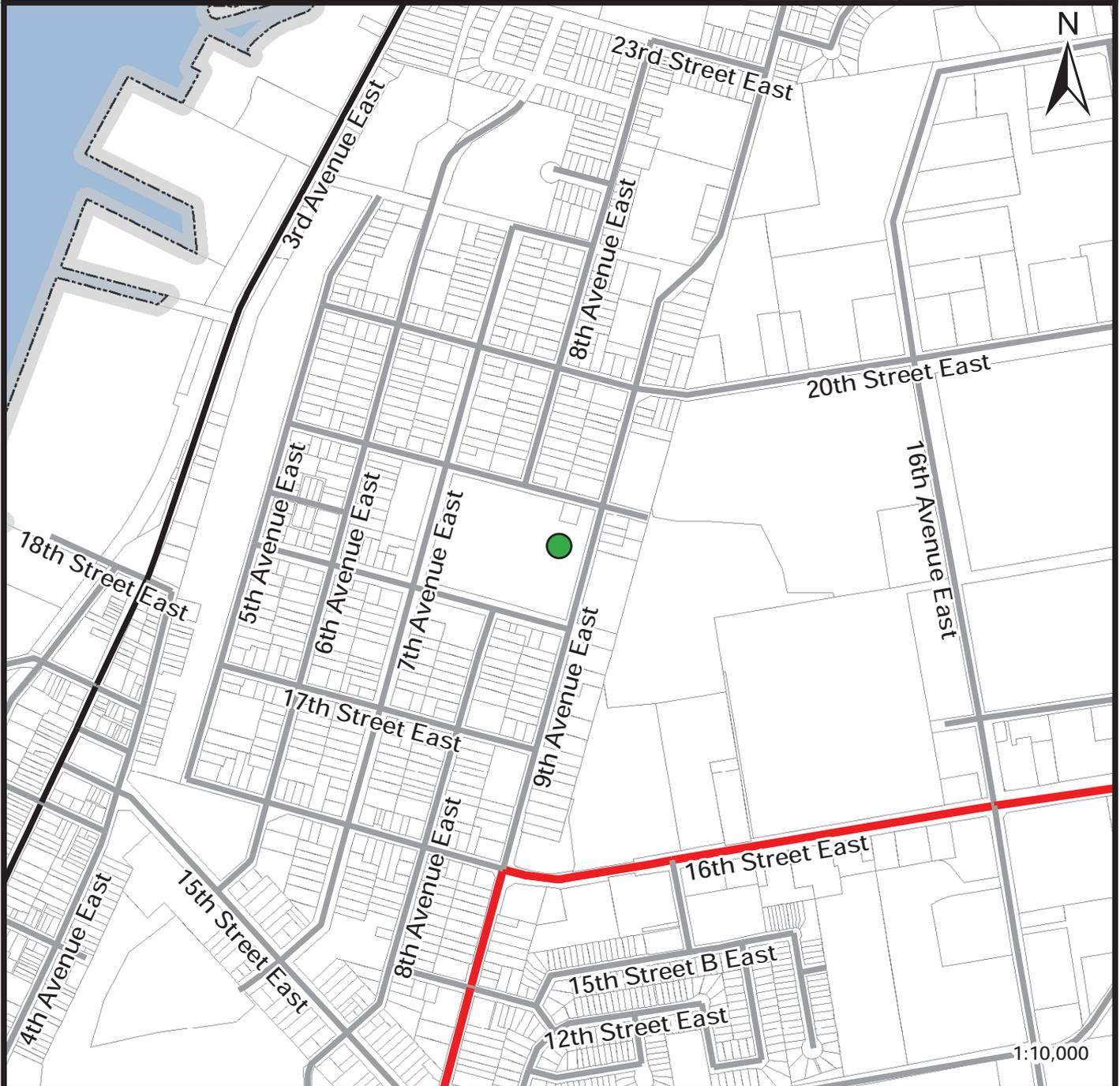
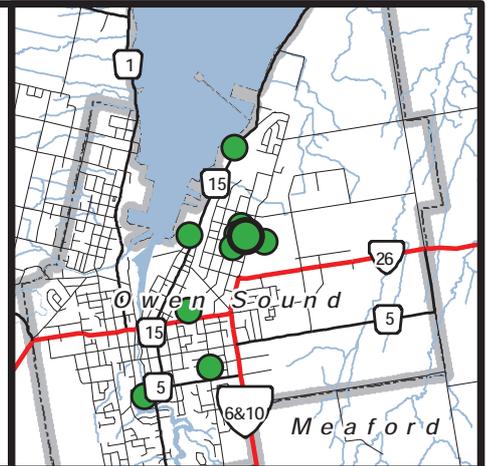
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill X2080

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF43.MXD



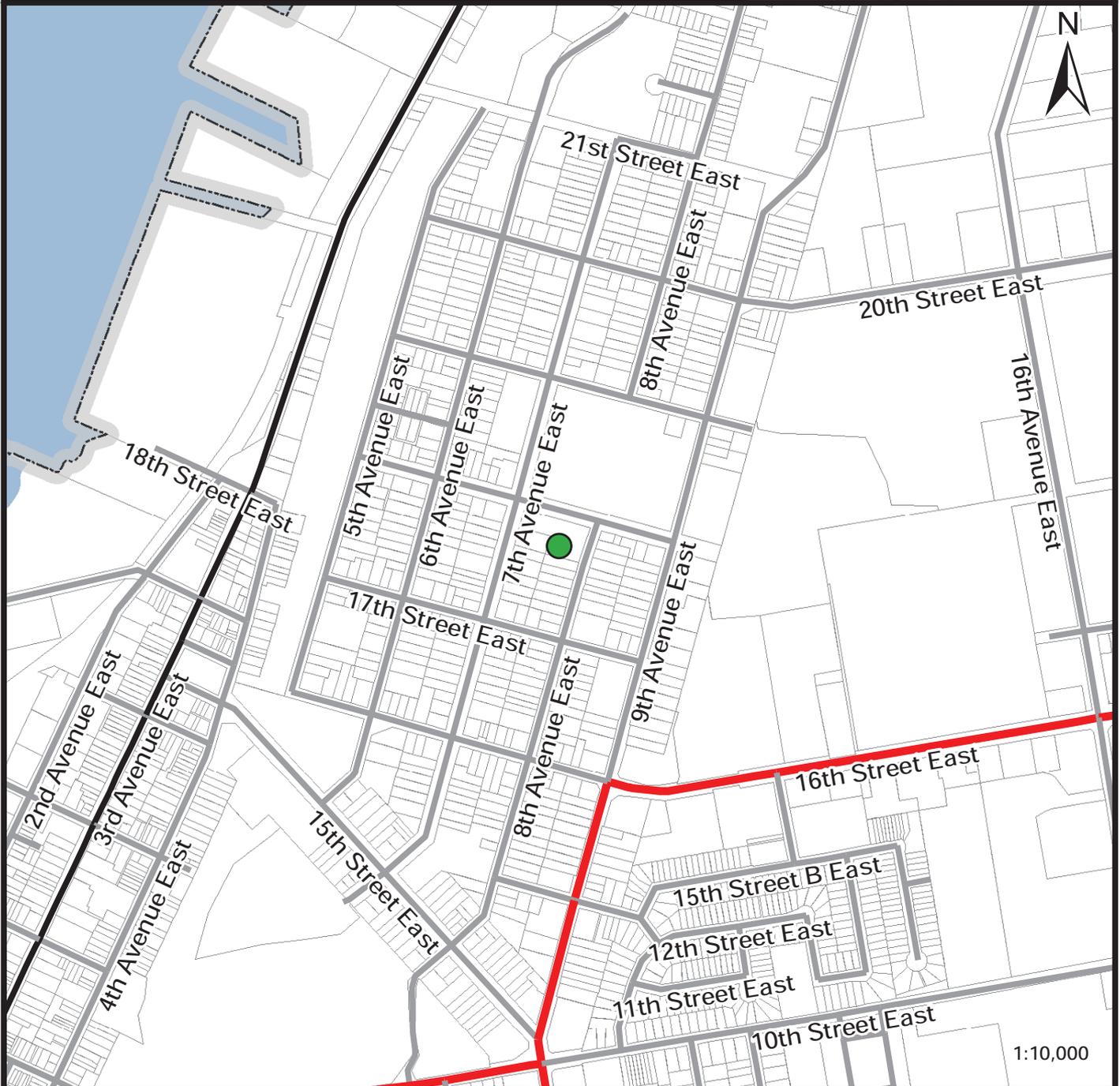
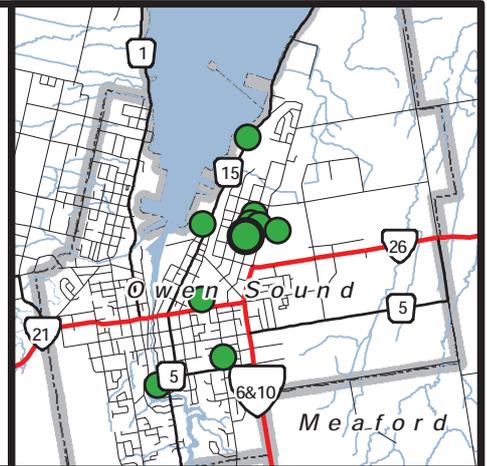
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill X2084

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF44.MXD



This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill X2079

Recommendation

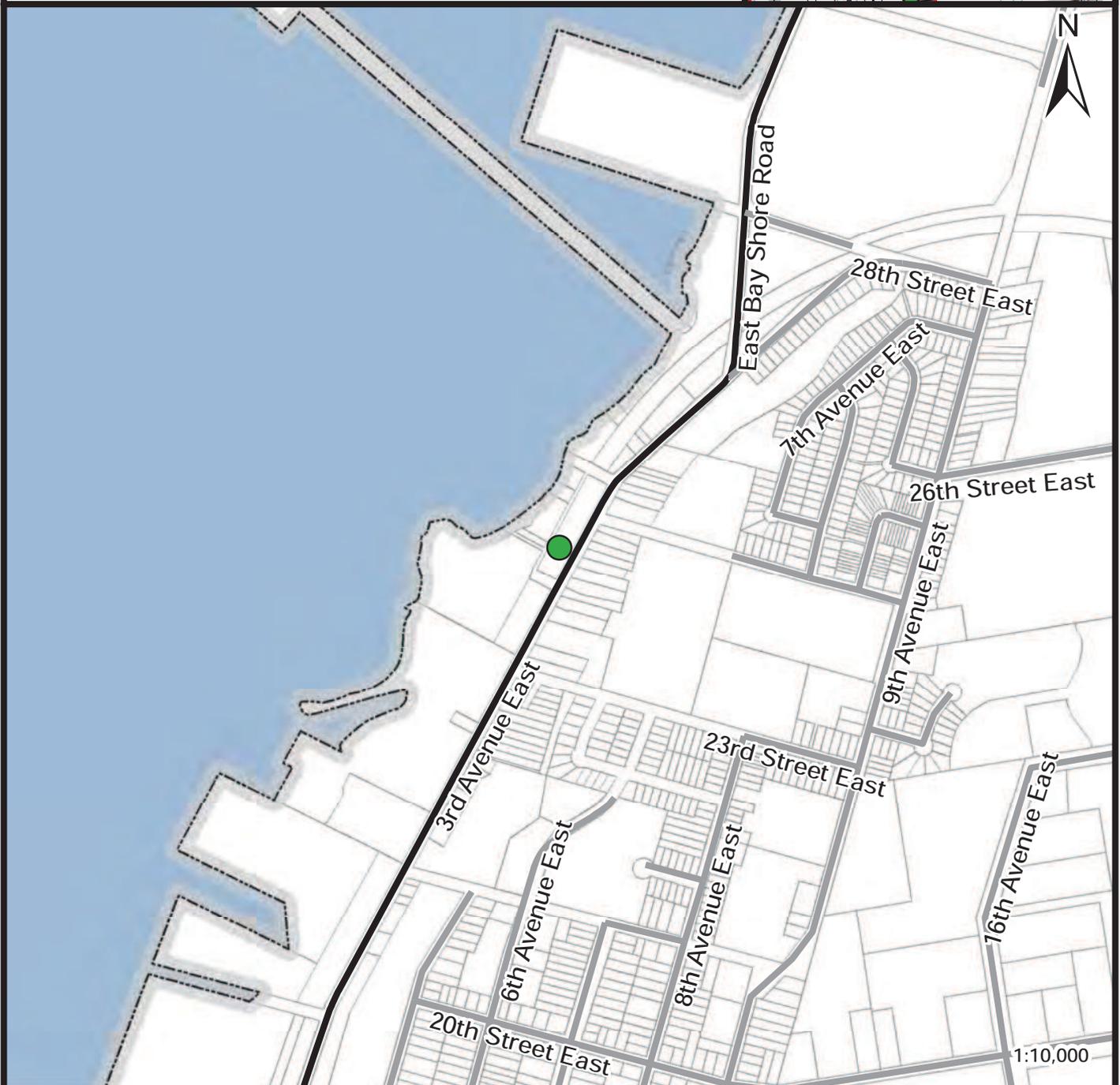
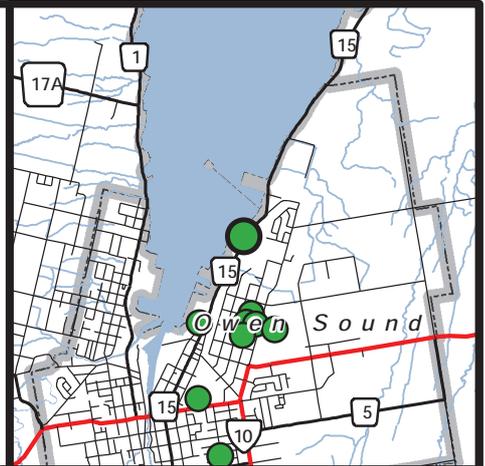
-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill

 Provincial Highway

 County Road

 Local Road

March, 2015 - Grey County Planning LF45.MXD



Landfill X2085

Recommendation

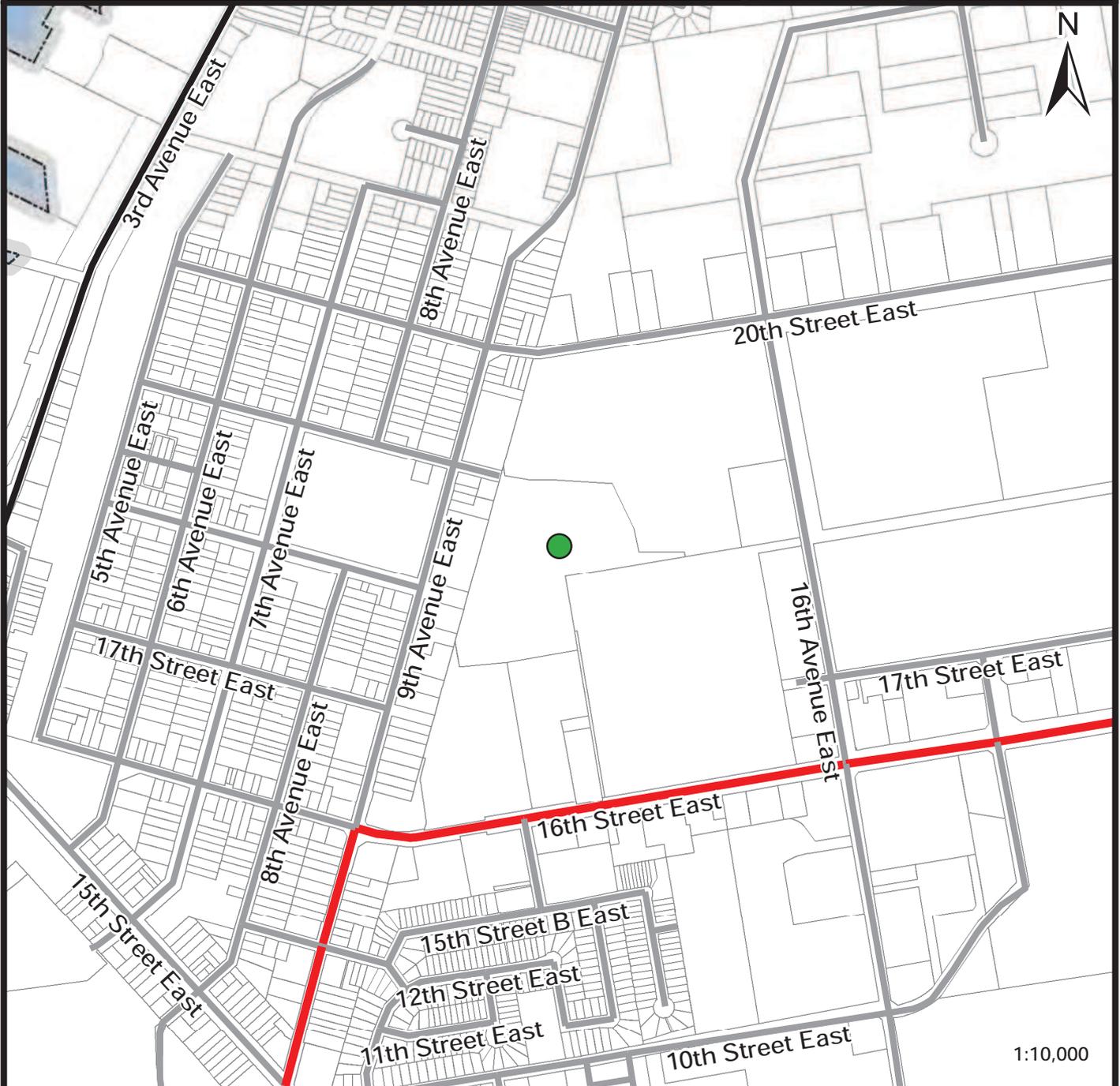
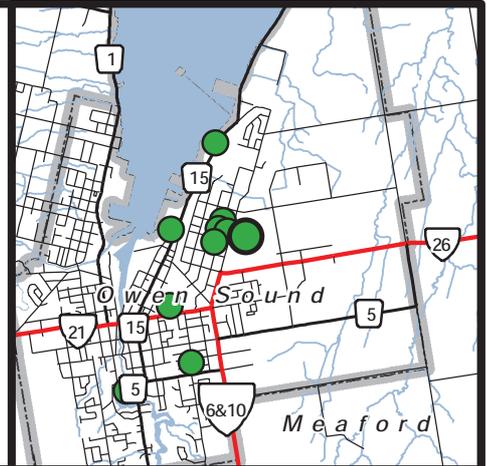
-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill

 Provincial Highway

 County Road

 Local Road

March, 2015 - Grey County Planning LF46.MXD



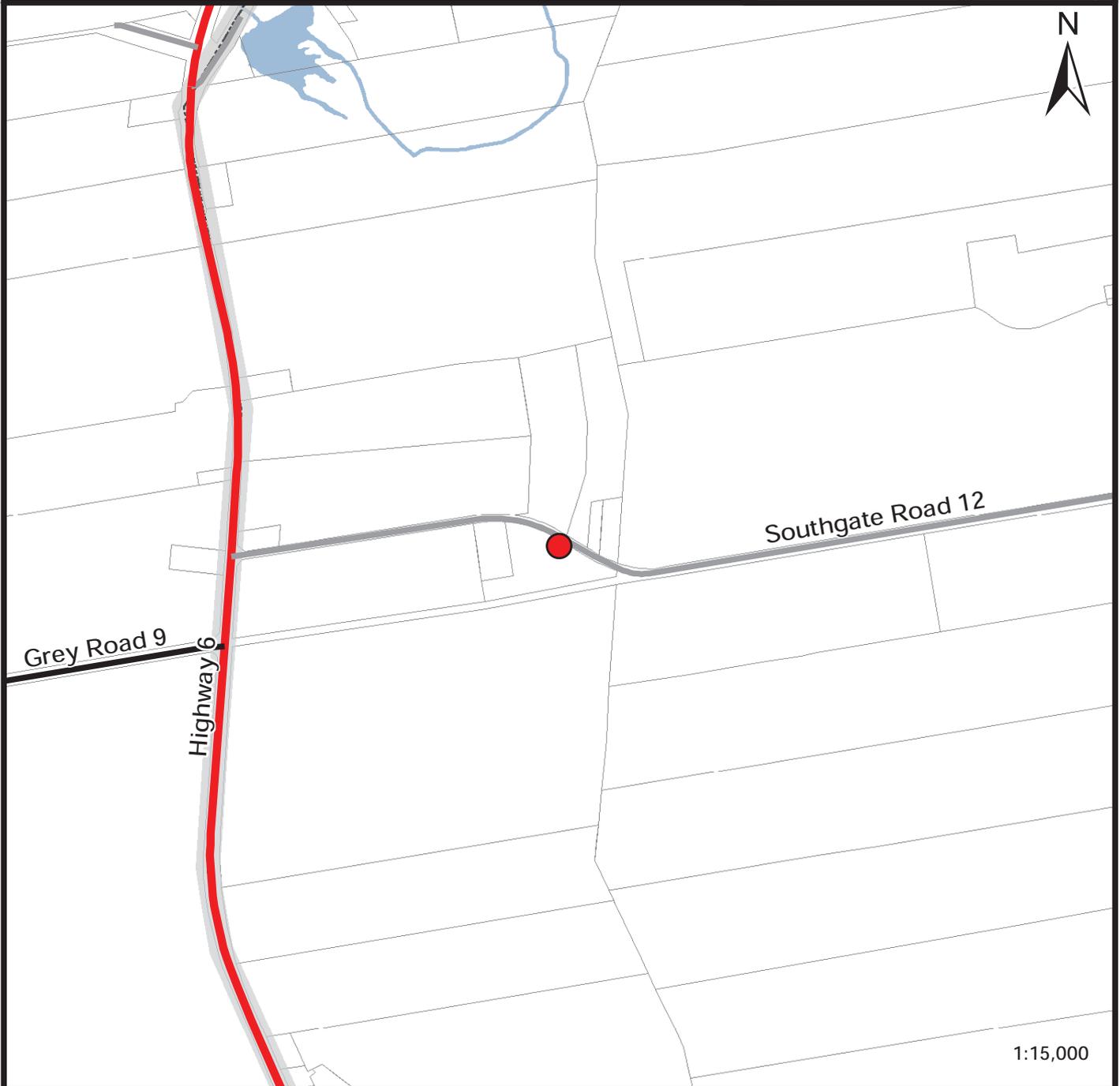
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill A261603

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF47.MXD



1:15,000

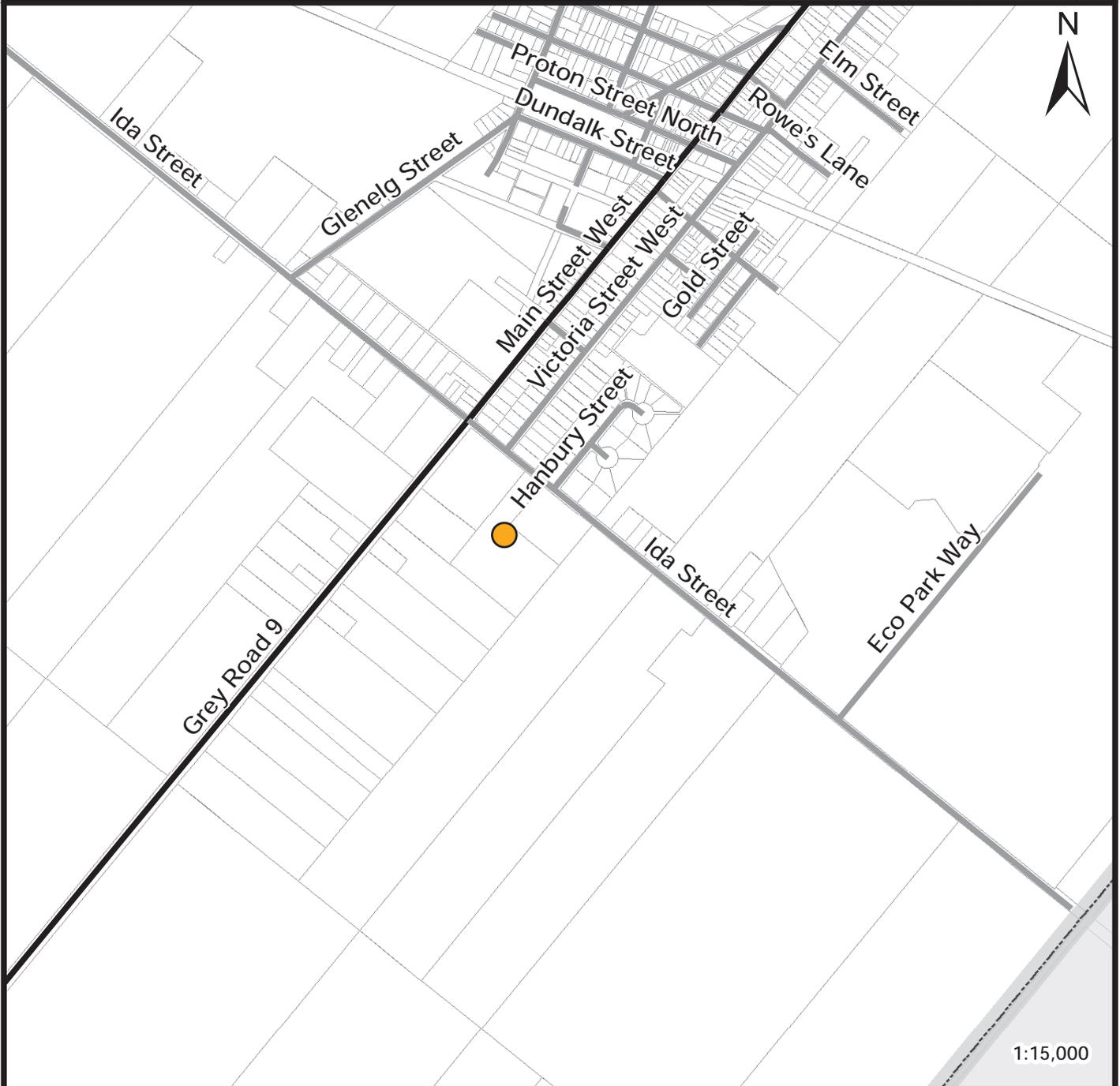
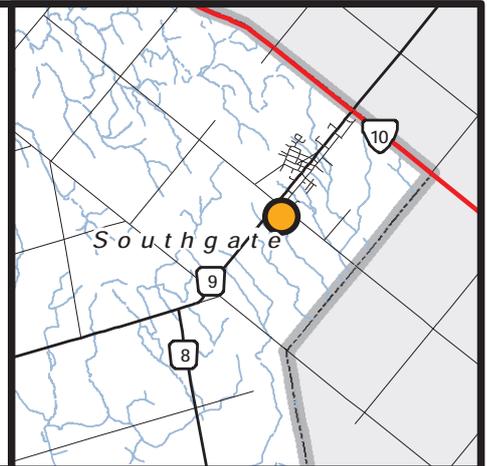
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill South - Unk

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF48.MXD



1:15,000

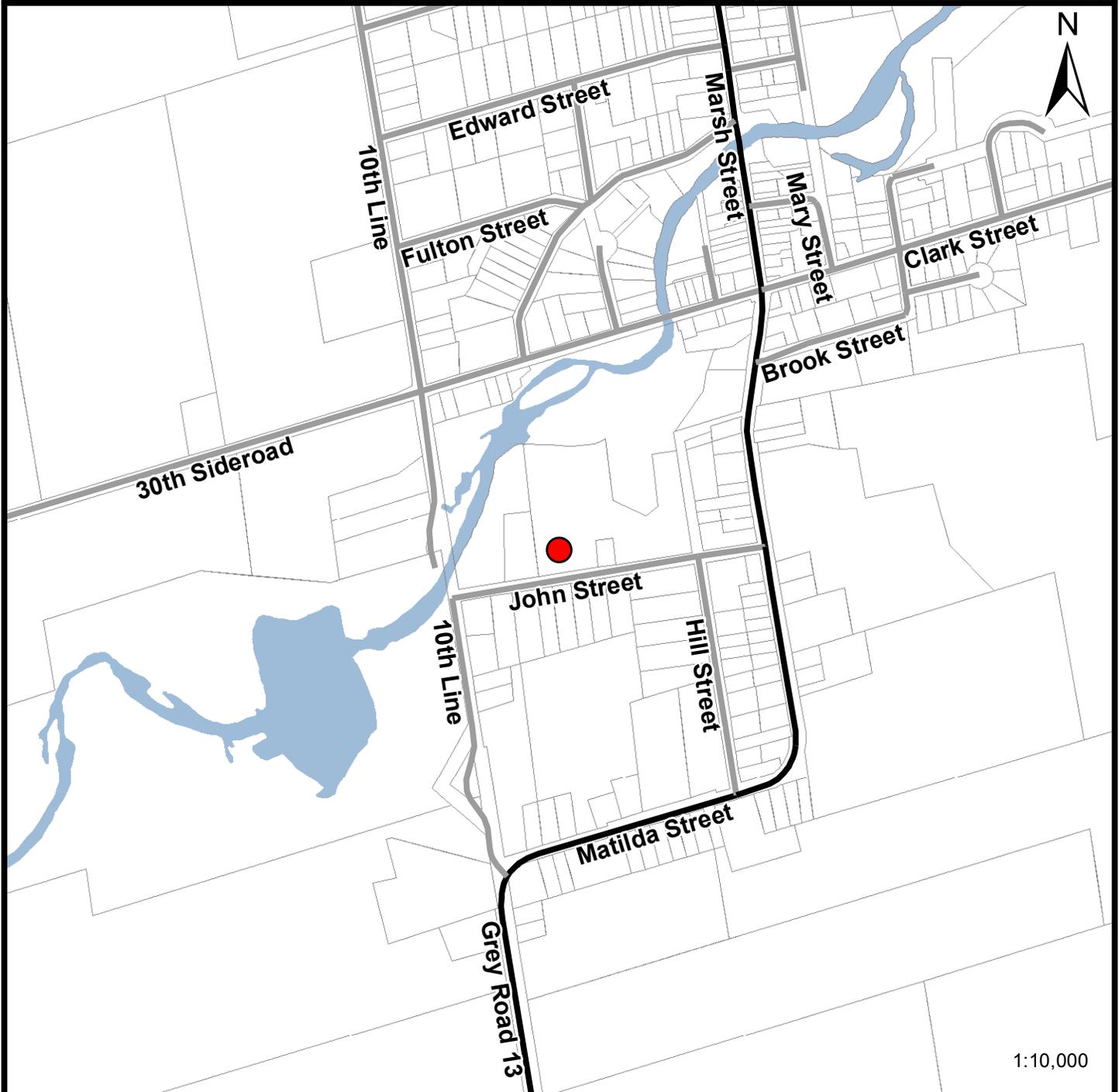
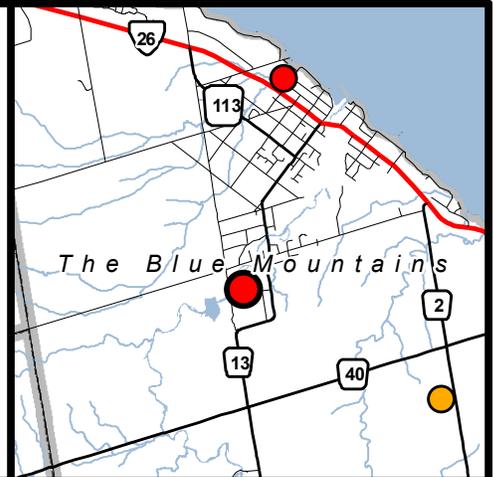
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**Landfill A261402**

**Recommendation**

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

May, 2015 - Grey County Planning LF49.MXD



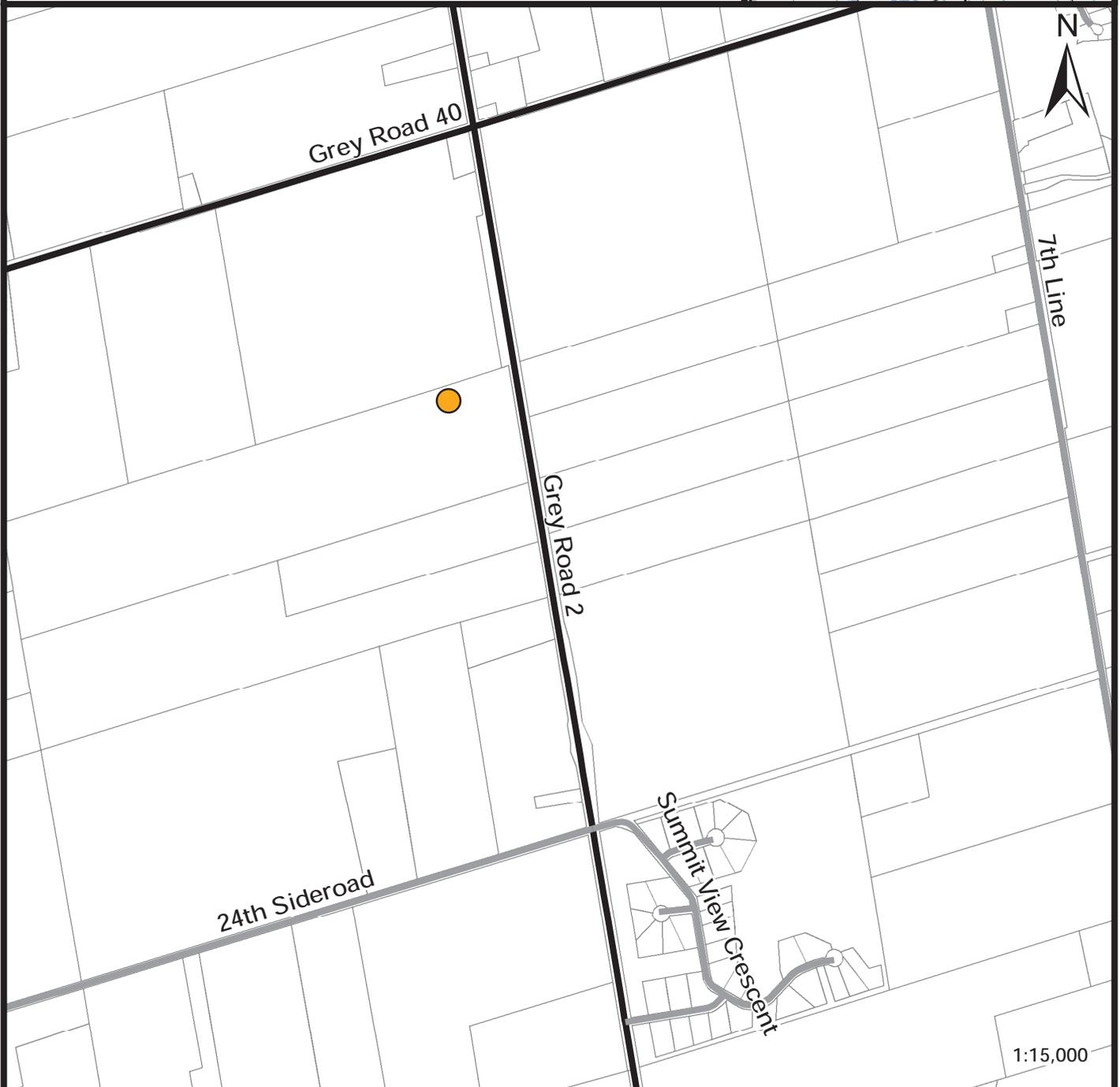
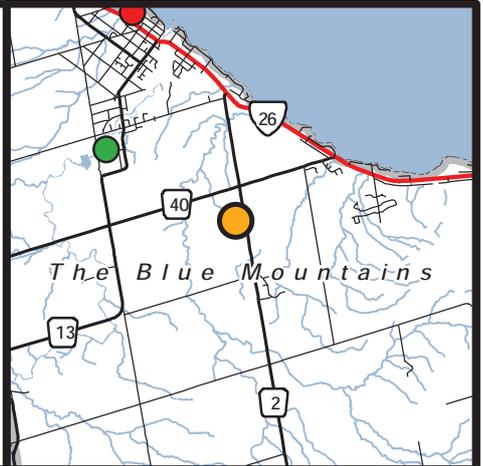
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Landfill A261403

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

March, 2015 - Grey County Planning LF50.MXD



This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill X2090

Recommendation

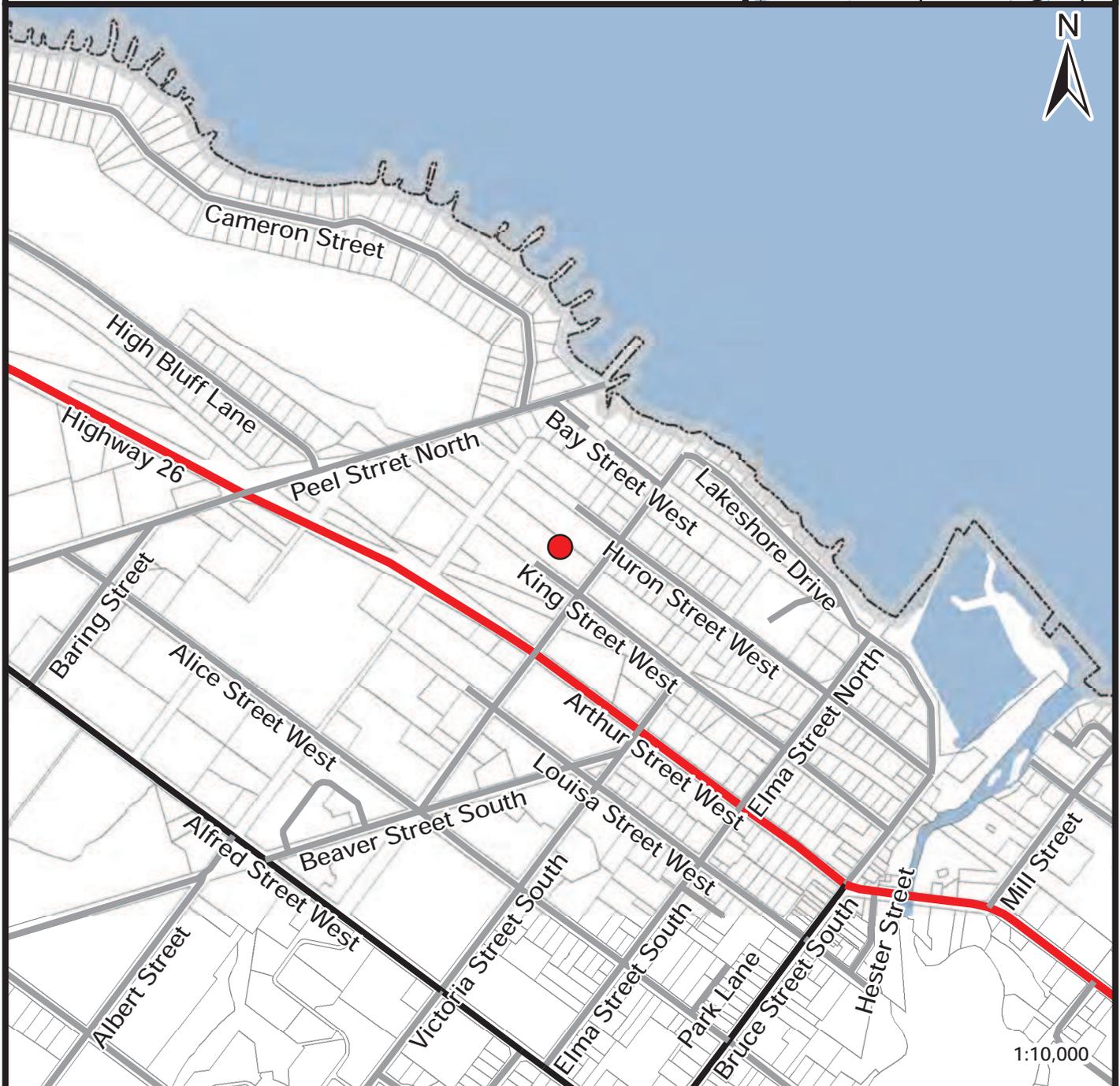
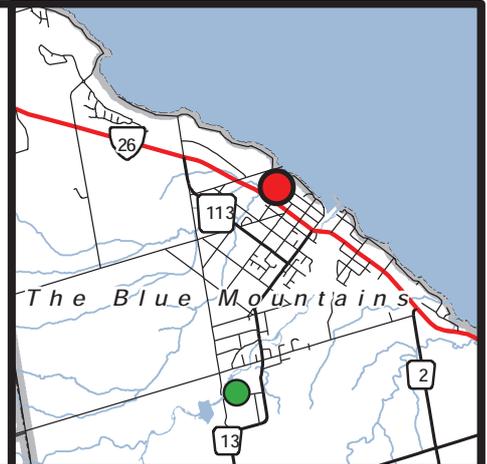
- Cleared - Determined to have insufficient risk
- Cleared - Site proven not to exist
- D-4 Recommended to clear site
- Previously Evaluated
- Remove - Insufficient info to locate landfill

— Provincial Highway

— County Road

— Local Road

March, 2015 - Grey County Planning LF51.MXD



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Landfill A262101

Recommendation

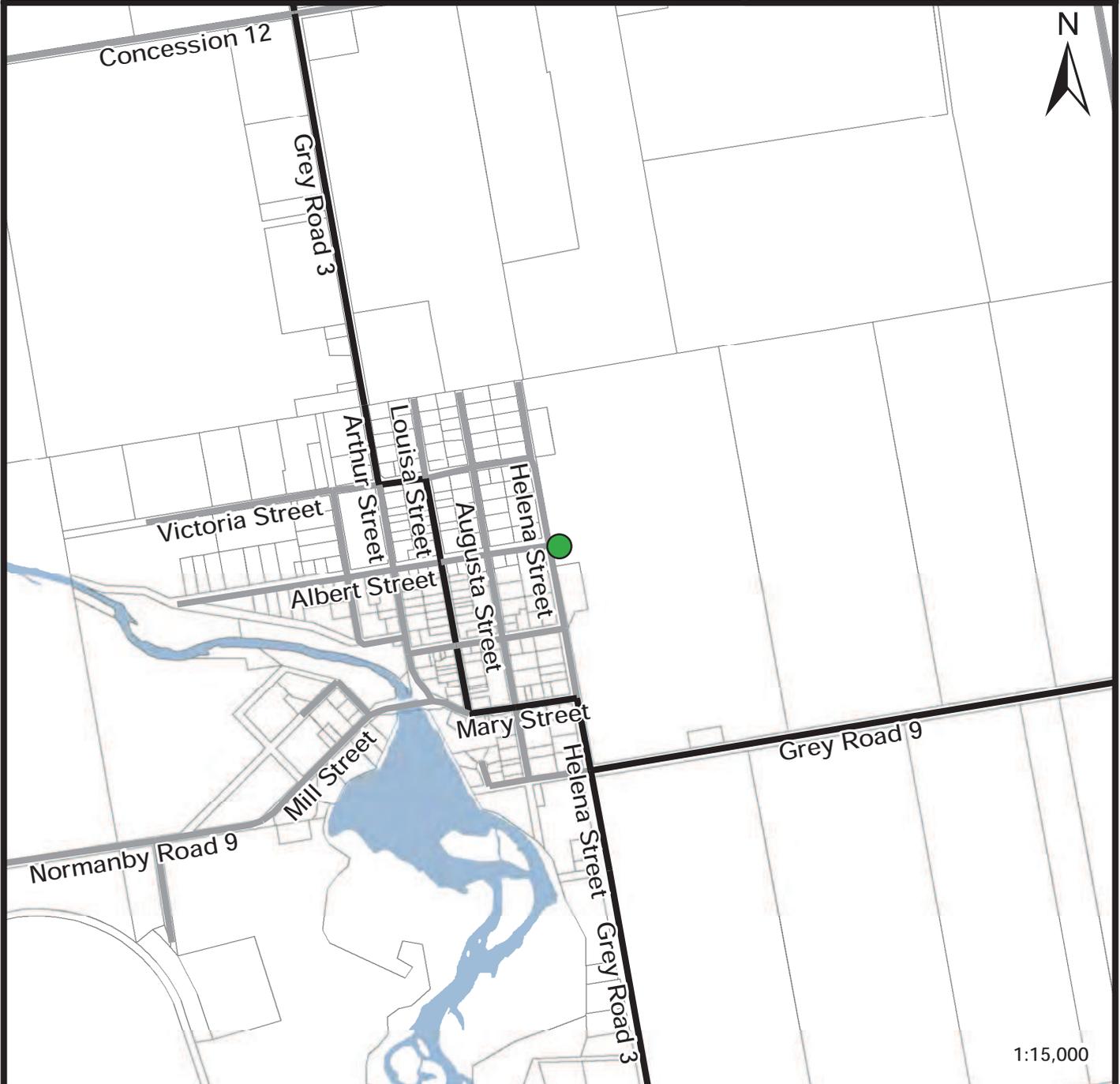
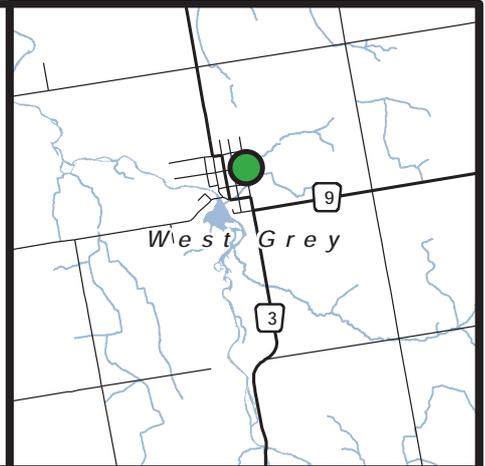
-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill

 Provincial Highway

 County Road

 Local Road

March, 2015 - Grey County Planning LF52.MXD



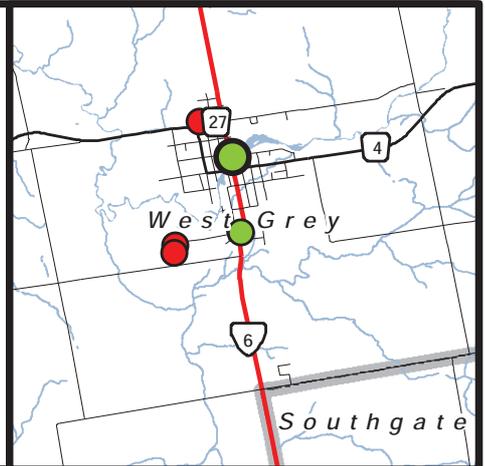
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Landfill A260201

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF53.MXD



This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill X5146

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF54.MXD



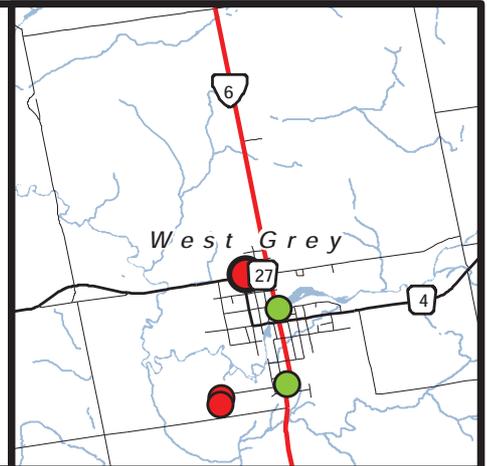
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill X5147

Recommendation

- Cleared - Determined to have insufficient risk
- Cleared - Site proven not to exist
- D-4 Recommended to clear site
- Previously Evaluated
- Remove - Insufficient info to locate landfill
- Provincial Highway
- County Road
- Local Road

February, 2015 - Grey County Planning LF55.MXD



This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

# Landfill X5148

## Recommendation

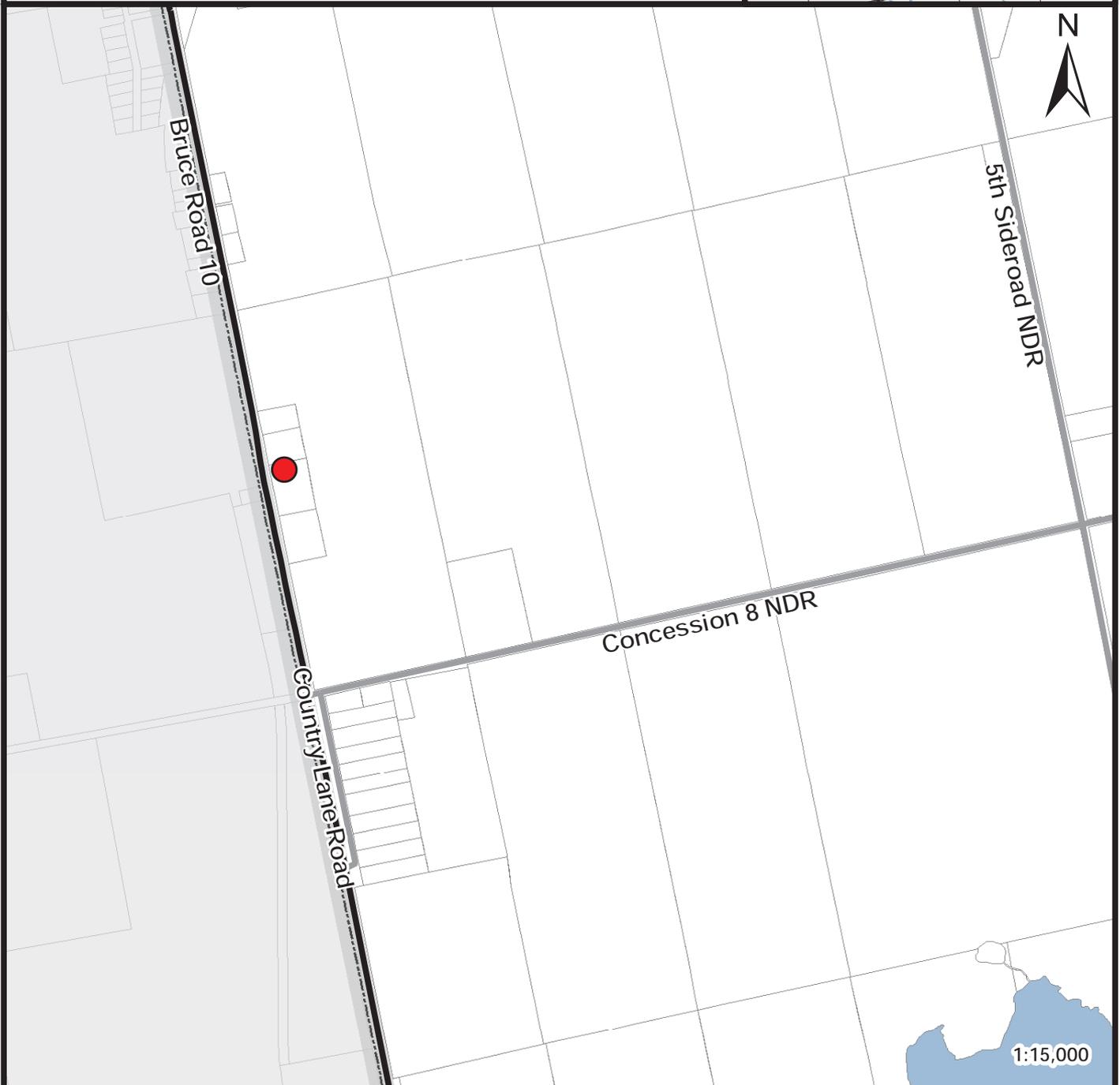
-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill

 Provincial Highway

 County Road

 Local Road

February, 2015 - Grey County Planning LF56.MXD



Landfill X5149

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill

 Provincial Highway

 County Road

 Local Road

February, 2015 - Grey County Planning LF57.MXD

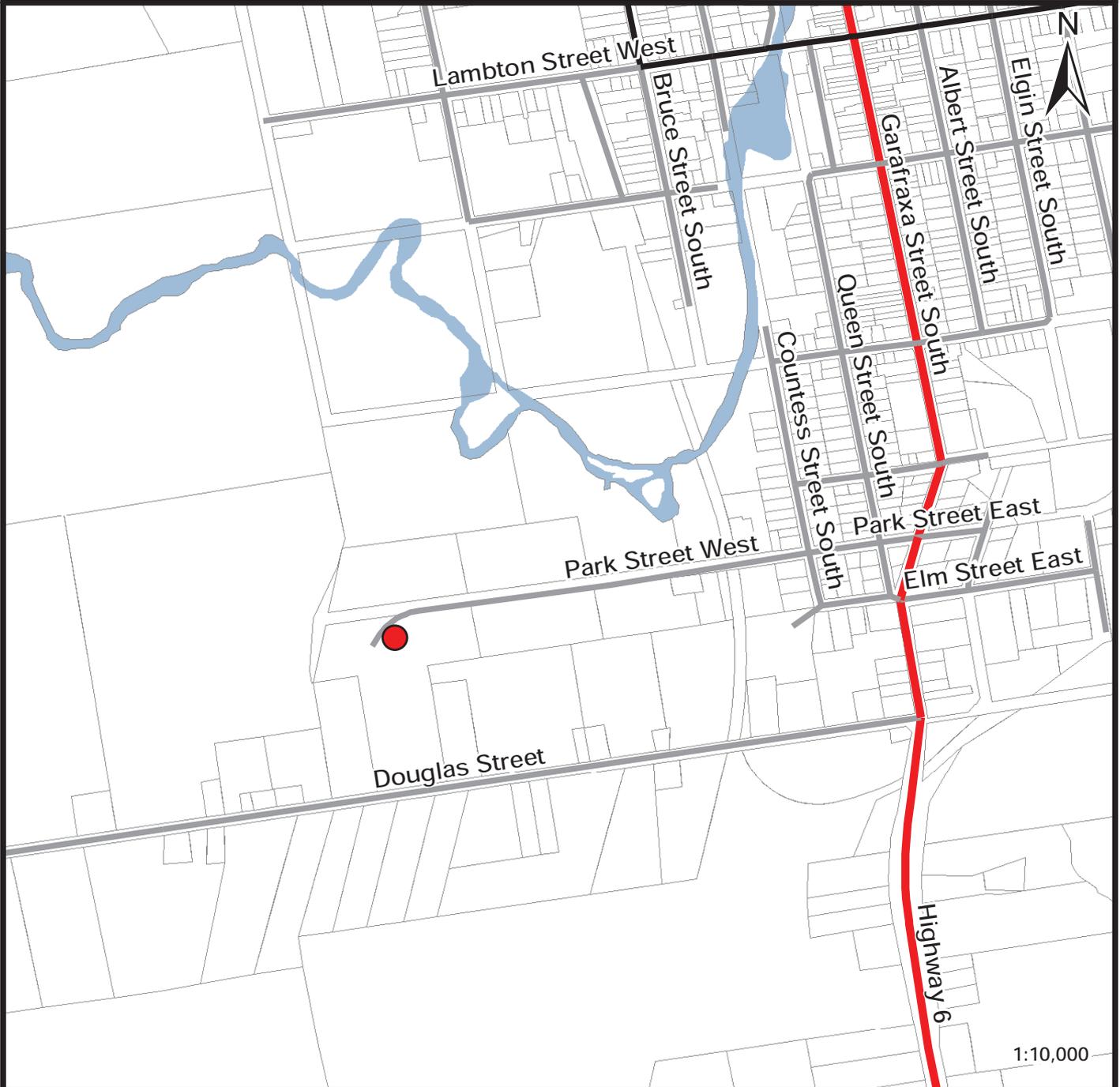
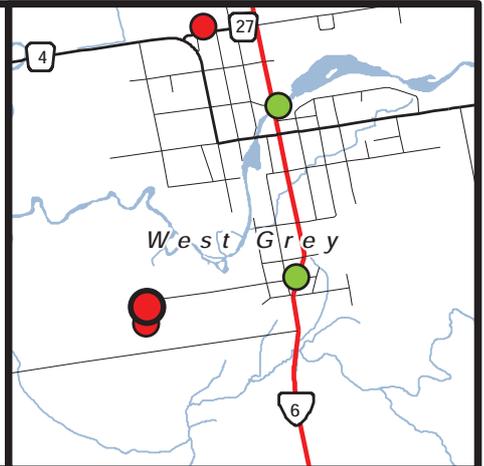


# Landfill A261001

## Recommendation

- Cleared - Determined to have insufficient risk
- Cleared - Site proven not to exist
- D-4 Recommended to clear site
- Previously Evaluated
- Remove - Insufficient info to locate landfill
- Provincial Highway
- County Road
- Local Road

February, 2015 - Grey County Planning LF58.MXD



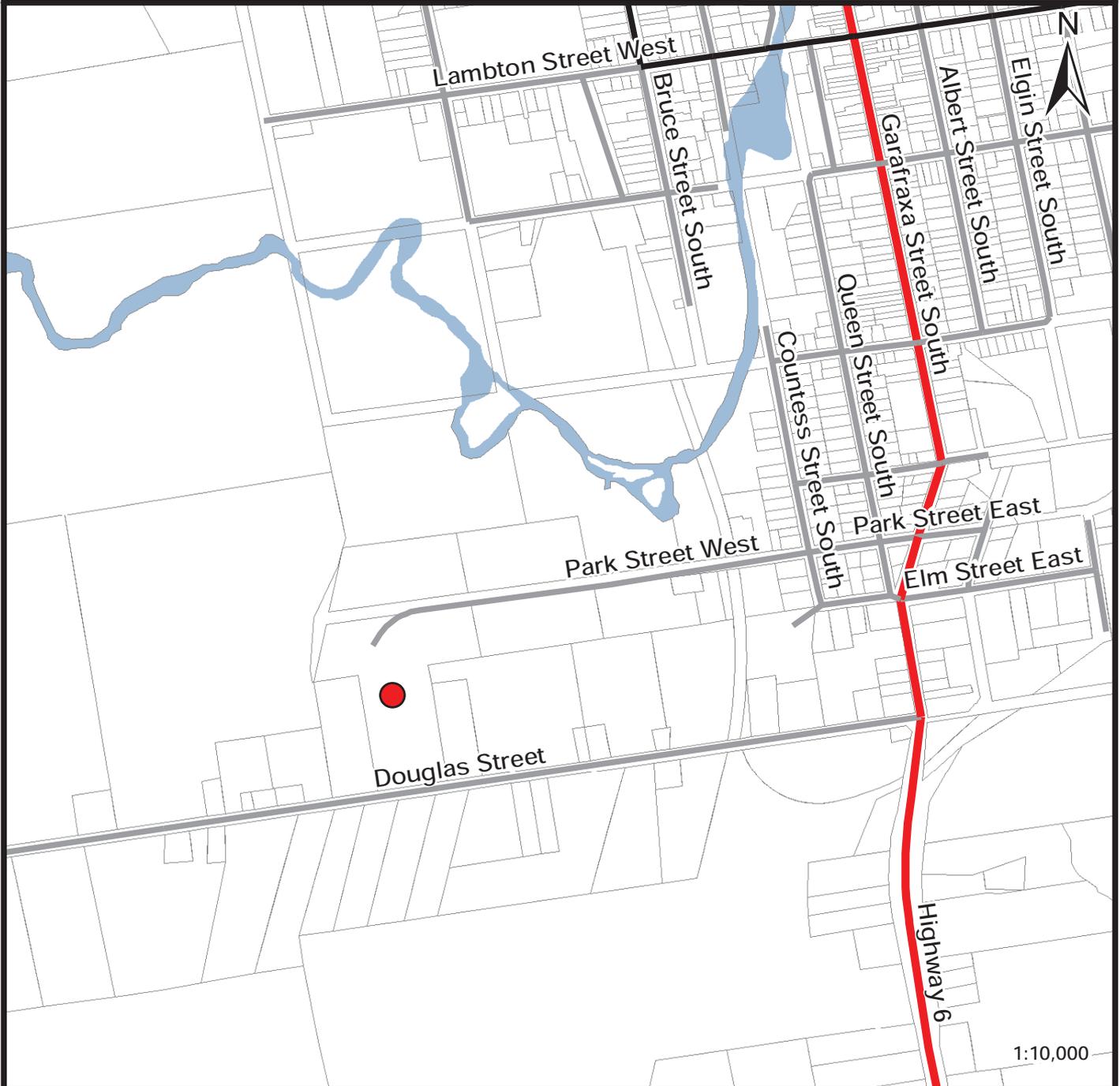
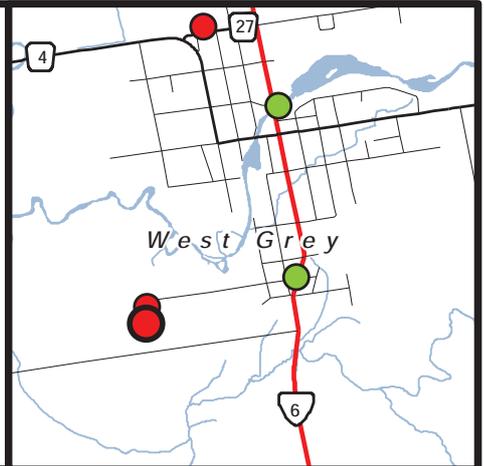
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill A260202

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF59.MXD



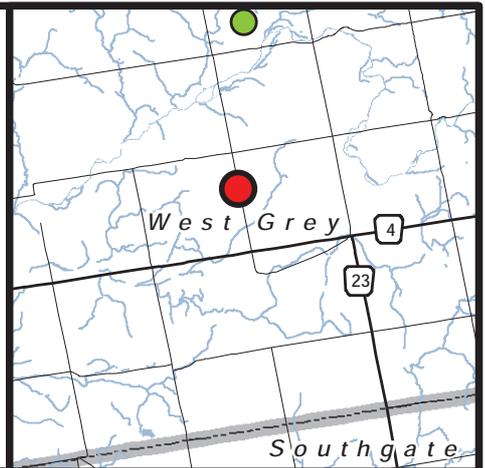
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill A261803

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

February, 2015 - Grey County Planning LF60.MXD



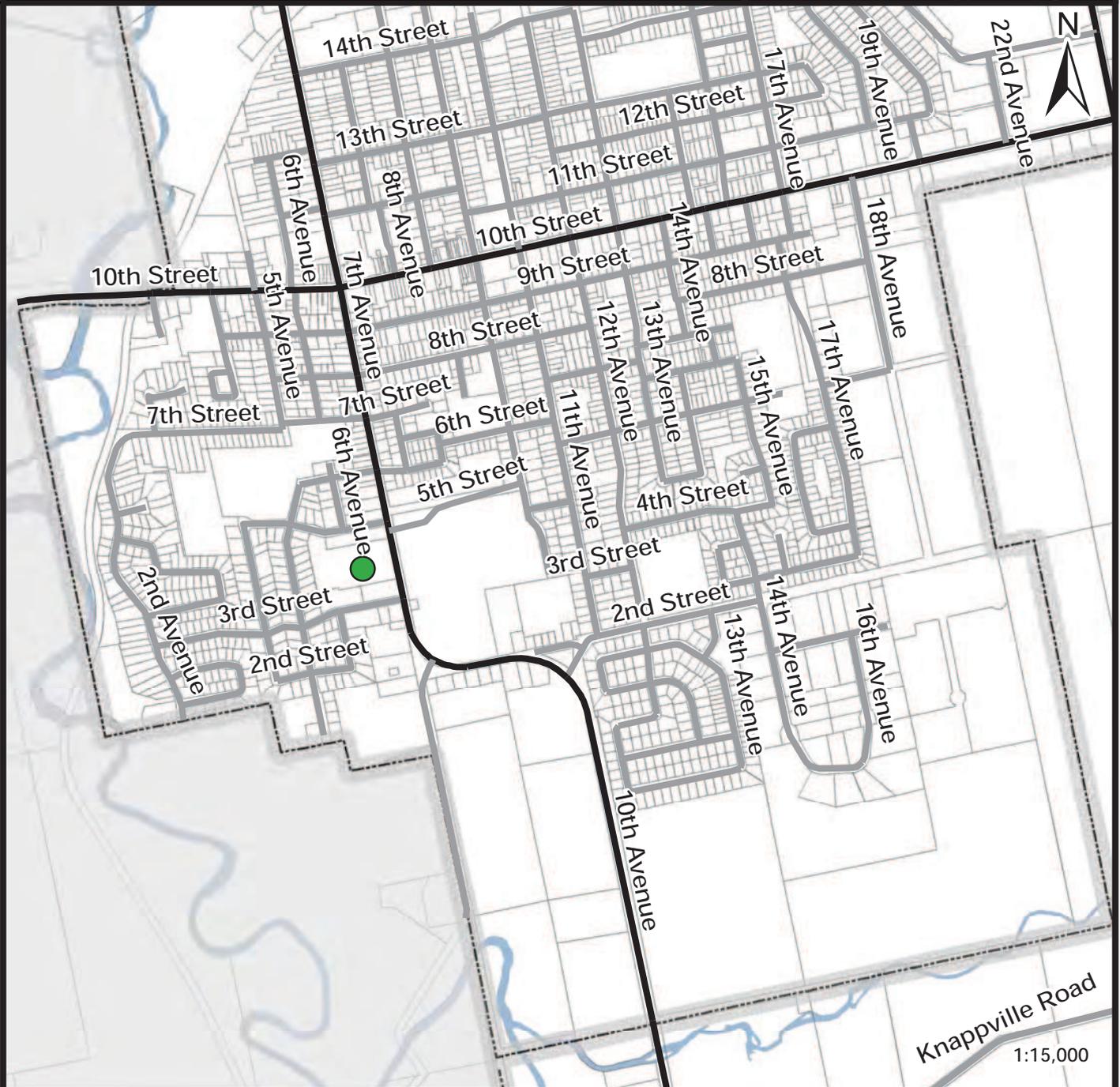
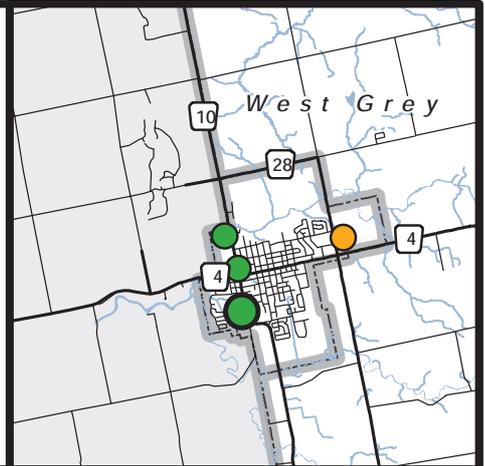
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**Landfill Han- Unk**

**Recommendation**

- Cleared - Determined to have insufficient risk
- Cleared - Site proven not to exist
- D-4 Recommended to clear site
- Previously Evaluated
- Remove - Insufficient info to locate landfill
- Provincial Highway
- County Road
- Local Road

March, 2015 - Grey County Planning LF61.MXD



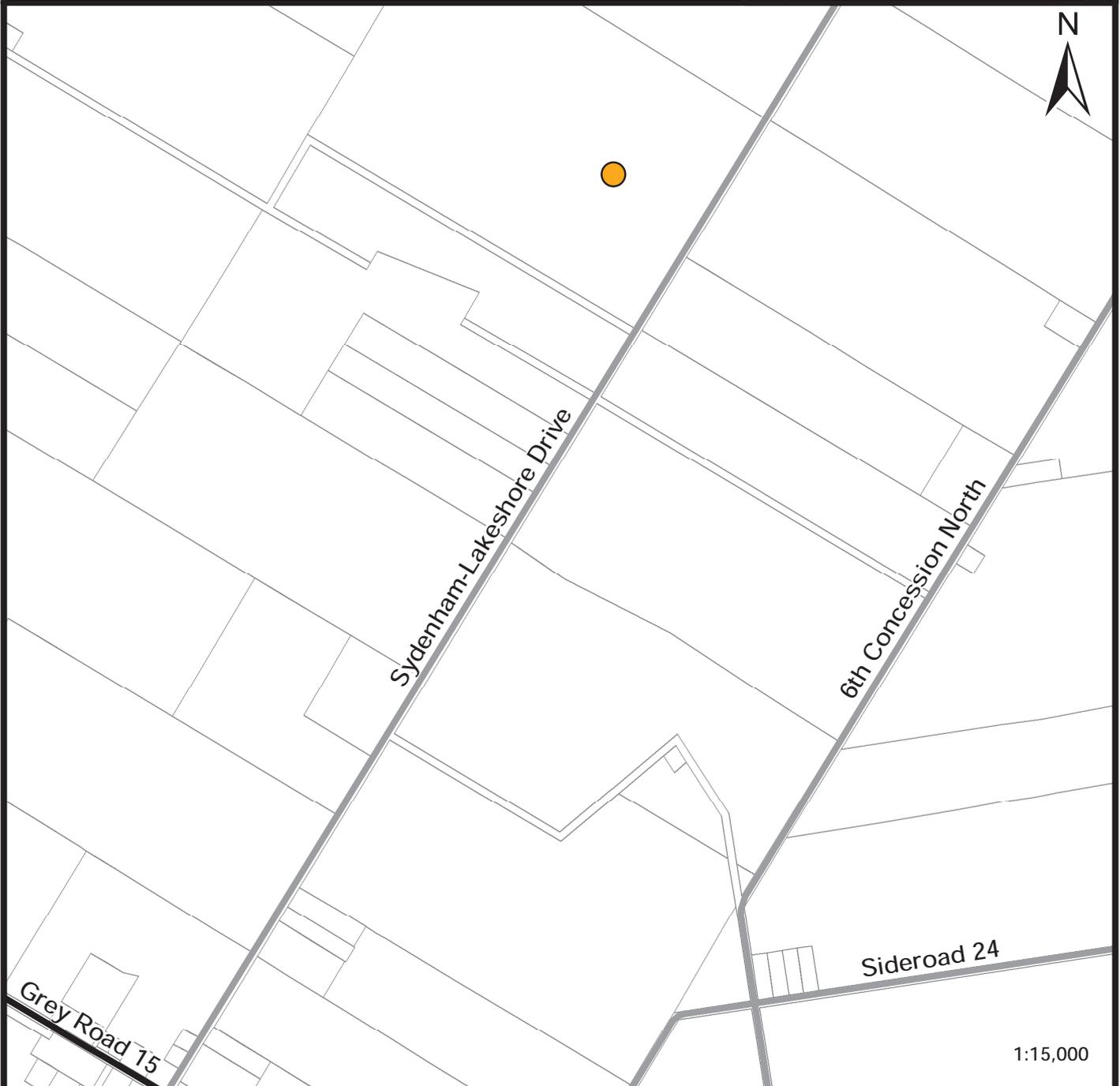
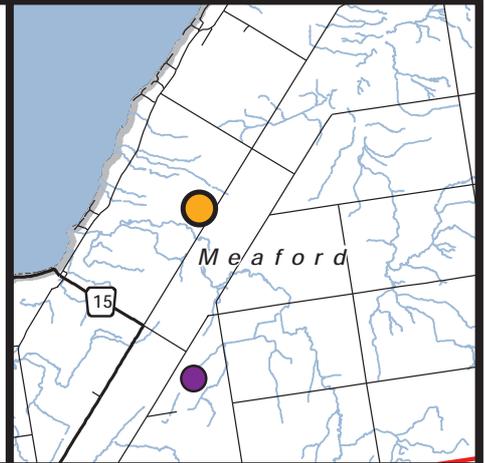
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill A262701

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

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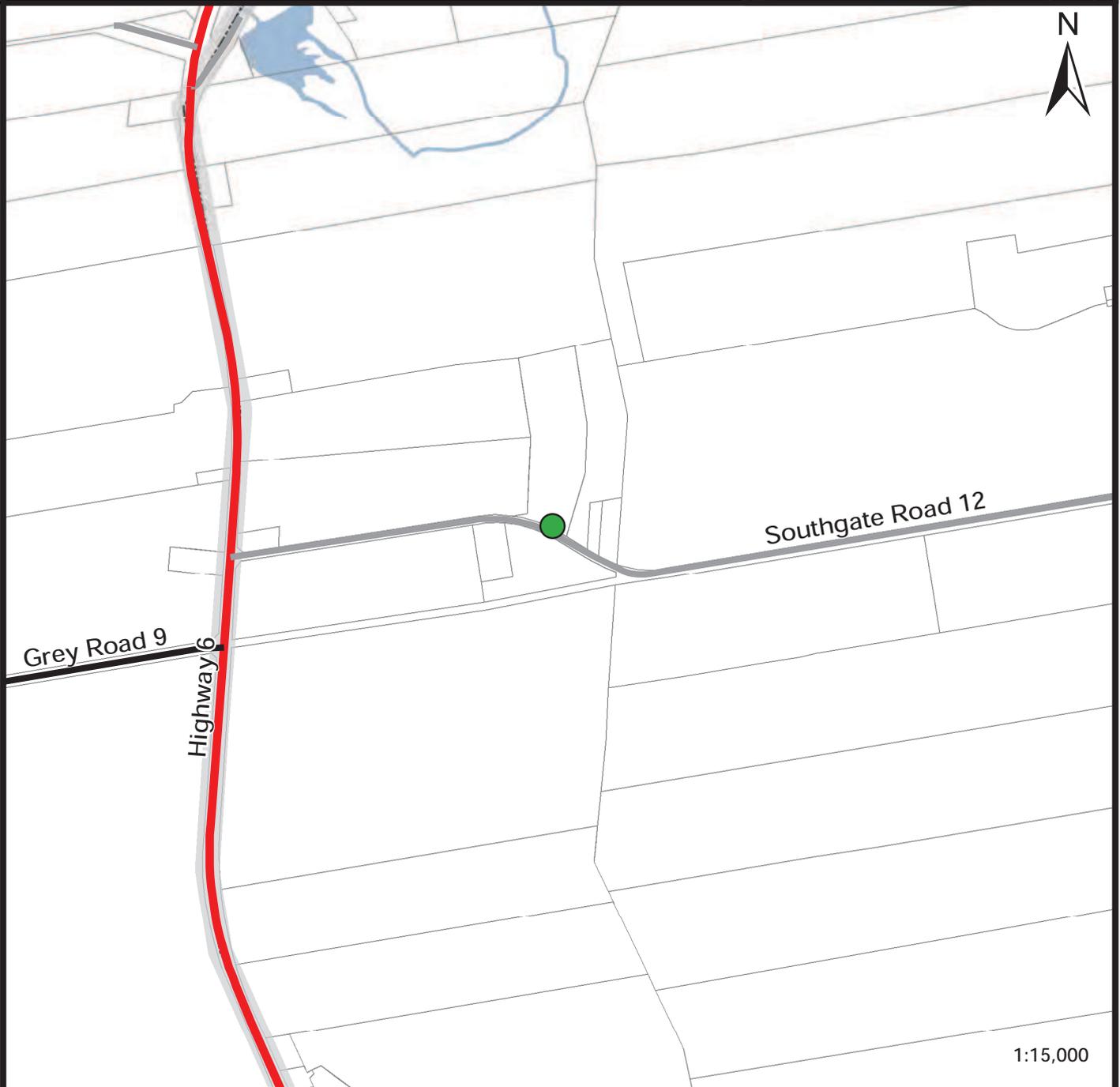
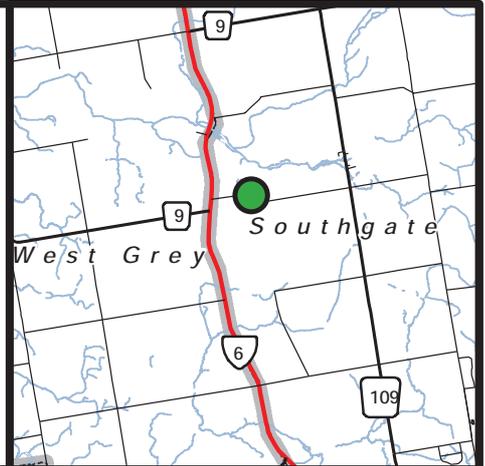
This map is for illustrative purposes only. Do not rely on this map as being a precise indicator of routes, location of features or surveying purposes. This map may contain cartographical errors or omissions.

Landfill A261601

Recommendation

-  Cleared - Determined to have insufficient risk
-  Cleared - Site proven not to exist
-  D-4 Recommended to clear site
-  Previously Evaluated
-  Remove - Insufficient info to locate landfill
-  Provincial Highway
-  County Road
-  Local Road

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1:15,000



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**APPENDIX C**

**Background Information Disc (Site / Twp. Segregated)**

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