City of Bloomfield Hills:

Department of Public Works Facility
Department of Public Safety Facility
Cranbrook Educational Community Salt Dome Facility

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

Revised April 2022

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GENERAL FACILITY INFORMATION

Name of Facility: City of Bloomfield Hills Department of Public Works

Facility Address: 1805 Kensington Road

Standard Industrial Classification (SIC) Code: N/A

Owner or Authorized Representative: City of Bloomfield Hills

Facility Contact

Name: Jamie Spivy

Title: Public Works Foreman

Telephone: 248-203-0621

Mailing Address: 45 E. Long Lake Road, Bloomfield Hills, Michigan 48304

Certified Storm Water Operator

Name & Certification Number: not applicable - Watershed Permittee

Permit Information

Certificate of Coverage Number: MI0059975

Effective Date of Coverage: June 1, 2021

Receiving Waters: Rouge River

Brief Industrial Activity Description

The City performs the majority of their fleet vehicle maintenance activities excluding major repairs at this facility. There is minimal outdoor storage of materials for vehicle maintenance at this site. All vehicles are washed inside the DPW garage or taken to a commercial facility.

1.0 GENERAL FACILITY INFORMATION

Name of Facility: City of Bloomfield Hills Department of Public Safety

Facility Address: 45 East Long Lake Road

Standard Industrial Classification (SIC) Code: N/A

Owner or Authorized Representative: City of Bloomfield Hills

Facility Contact

Name: Jamie Spivy

Title: Public Works Foreman

Telephone: 248-530-1412

Mailing Address: 45 East Long Lake Road, Bloomfield Hills, Michigan 48304

Certified Storm Water Operator

Name & Certification Number: not applicable- Watershed Permittee

Permit Information

Certificate of Coverage Number: MI0059975

Effective Date of Coverage: June 1, 2021

Receiving Waters: Rouge River

Brief Industrial Activity Description

The City performs minor vehicle repairs for the Public Safety vehicles at this facility. Storage at this facility is contained indoors. All DPS vehicles are washed at a commercial facility or inside the Fire Dept Garage.

1.0 GENERAL FACILITY INFORMATION

Name of Facility: Cranbrook Educational Community Salt Dome Facility

Facility Address: 19 Valley Way, Bloomfield Hills, Michigan 48304

Standard Industrial Classification (SIC) Code: 8211

Owner or Authorized Representative: Cranbrook Educational Facility

Facility Contact

Name: Kevin Mill

Title: Landscape Superintendent

Telephone: 248-645-7707

Mailing Address: 39221 Woodward Avenue, Bloomfield Hills, Michigan 48304

Certified Storm Water Operator

Name & Certification Number: N/A

Permit Information

Certificate of Coverage Number: N/A - Private Entity/School

Effective Date of Coverage: N/A

Receiving Waters: Rouge River

Brief Industrial Activity Description

This facility is owned, managed, and operated by the Cranbrook Educational Community. The City has an agreement with Cranbrook to utilize the facility for fueling and utilizing various materials including: salt, cold patch, sand, and gravel. The City does not perform any vehicle maintenance activities at this facility.

In addition to this SWPPP, there is a Pollution Incident Prevention Plan (PIPP) developed for the Salt Storage Facility. See enclosed PIPP for more information.

2.0 STORM WATER POLLUTION PREVENTION TEAM

The storm water pollution prevention team is responsible for developing, implementing, maintaining, and revising this SWPPP. The members of the team and their primary responsibilities (i.e. implementing, maintaining, record keeping, submitting reports, conducting inspections, employee training, conducting the annual compliance evaluation, testing for non-storm water discharges, signing the required certifications) are as follows:

NAME & TITLE	RESPONSIBILITY
Jamie Spivy, Foreman	Implementing, maintaining, record keeping, conducting inspections and reporting, employee training
David Hendrickson, City Manager	Assistance with annual compliance evaluation
Kevin Mill- Cranbrook Educational Community for the Cranbrook Salt Dome Facility	Implementing, maintaining, record keeping, conducting inspections, employee training, annual compliance evaluations, etc.

3.0 SITE MAP

Preparing a site map or sketch is the first step in assessing the facility. The facility's site map includes all applicable items listed in the permit, which include:

SEE ATTACHED FACILITY MAPS

1) Buildings and other permanent structures
2) Storage or disposal areas for significant materials
3) Secondary containment structures and descriptions of what they contain
4) Storm water discharge outfalls (numbered for reference)
5) Location of storm water and non-storm water inlets contributing to each outfall
6) Location of NPDES permitted discharges other than storm water
7) Outlines of the drainage areas contributing to each outfall
8) Structural runoff controls or storm water treatment facilities
9) Areas of vegetation (with brief description such as lawn, old field, marsh, wooded, etc.)
10) Areas of exposed and/or erodible soils
11) Impervious surfaces (roofs, asphalt, concrete, etc.)
12) Name and location of receiving waters
13) Areas of known or suspected impacts on surface waters as designated under Par 201 (Environmental Response) of the Michigan Act.

4.0 SIGNIFICANT MATERIALS

Definition: Significant materials are any material which could degrade or impair water quality, including but not limited to:

- ✓ Raw Materials
- ✓ Fuels
- ✓ Solvents
- ✓ Detergents
- ✓ Plastic pellets
- ✓ Finished materials (i.e. metallic products)
- ✓ Hazardous Substances designated under section 101(14) of Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), see 40 CFR 372.65
- ✓ Any chemical the facility is required to report pursuant to section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA)
- ✓ Polluting Materials – Oil and any material, in solid or liquid form, identified as polluting material under the Part 5 Rules (Rules 324.2001 through 324.2009 of the Michigan Administrative Code)
- ✓ Hazardous Wastes as defined in Part 111 of the Michigan Act
- ✓ Fertilizers
- ✓ Pesticides
- ✓ Waste Products (i.e. ashes, slag, sludge, plant waste, animal waste)

During the significant materials identification phase, all sources of potential storm water contamination need to be identified. Both the inside and outside of the facility must be inventoried to determine the materials and practices that may be sources of contamination to storm water runoff. Note the identification phase must address residual contaminants which may be found on items stored outside.

4.1 Inventory of Exposed Significant Materials

The permit requires a general inventory of significant materials that could enter storm water. For each material listed the SWPPP shall include the ways in which each type of material has been or has reasonable potential to become exposed to storm water (e.g. spillage during handling; leaks from pipes, pumps, or vessels; contact with storage piles, contaminated materials or soils; waste handling and disposal; deposits from dust or overspray; etc.). In addition, the SWPPP must identify the inlet(s) spilled significant materials may enter and the outfall(s) through which the spilled significant material may be discharged.

SEE TABLE 1

4.2 Description of Industrial Activities & Significant Material Storage Areas

The permit requires industrial facilities to evaluate the reasonable potential for contribution of significant materials to storm water runoff from at least the following areas or activities:

1) Loading, unloading, and other material handling operations
2) Outdoor storage including secondary containment structures
3) Outdoor manufacturing or processing activities
4) Significant dust or particulate generating processes
5) Discharge from vents, stacks, and air emission controls
6) On-site waste disposal practices
7) Maintenance and cleaning of vehicles, machines, and equipment
8) Areas of exposed and/or erodible soils
9) Sites of Environmental Contamination listed under Part 201 (Environmental Response) of the Michigan Act
10) Areas of significant material residues
11) Areas where animals congregate (wild or domestic) and deposit wastes
12) Other areas where storm water may contact significant materials

For each applicable item, the permit requires a written description of the specific activity or storage area. Along with the written description of the activities or storage areas, a description of the significant materials associated with those items must be included.

SEE TABLE 1

4.3 List of Significant Spills

The permit requires a list of significant spills and significant leaks of polluting materials that occurred at areas that are exposed to precipitation or that otherwise discharge to a point source at the facility. The listing shall include spills that occurred over the three years prior to the effective date of a certificate of coverage authorizing discharge under the General Permit. The listing shall include the date, volume, exact location of release, and actions taken to clean up the material and/or prevent exposure to storm water runoff or contamination of surface waters of the state. Any release that occurs after the SWPPP has been developed shall be controlled in accordance with the SWPPP and is cause for the SWPPP to be updated as appropriate within 14 calendar days of obtaining knowledge of the spill or loss. (If there have been no spills of polluting materials, state that in this section.)

Date:	**Material:**	**Volume:**	**Location:**
Actions Taken: No significant spills have occurred at the Department of Public Works Facility. No significant spills have occurred at the Department of Public Safety Facility. Based on the PIPP prepared for the Cranbrook Educational Community Salt Dome Facility, no significant spills have occurred at this site.			

4.4 Summary of Sampling Data

The permit requires a summary of existing storm water discharge sampling data (if available) describing pollutants in storm water discharges associated with industrial activity at the facility. The summary shall be accompanied by a description of the suspected sources of the pollutants detected. (If there is no storm water discharge sampling data, state that in this section.)

SUMMARY OF SAMPLING EVENTS:
No stormwater samples have been taken at the Department of Public Works Facility. The site drains to a detention basin.

No stormwater samples have been taken at the Department of Public Safety Facility. The site drains to an enclosed storm drain.

No stormwater samples have been taken at the Cranbrook Educational Community Salt Dome Facility. The site drains to a detention basin.

5.0 NON-STRUCTURAL CONTROLS

Non-structural controls are practices that are relatively simple, fairly inexpensive, and applicable to a wide variety of industries or activities. Non-structural controls are intended to reduce the amount of pollution getting into the surface waters of the state and are generally implemented to address the problem at the source. They do not require any structural changes to the facility. These are typically everyday types of activities undertaken by employees at the facility. Many facilities may already have nonstructural controls in place for other reasons. The permit requires that the SWPPP shall, at a minimum, include each of the following non-structural controls.

5.1 Preventative Maintenance and Good Housekeeping Program (Routine Inspection Program)

The permit requires a description of a program for routine preventive maintenance and good housekeeping procedures to maintain a clean, orderly facility. The Preventative Maintenance and Good Housekeeping procedures include inspection and maintenance of storm water management and control devices monthly (e.g. cleaning of oil/water separators and catch basins) as well as inspecting and testing plant equipment and systems to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters. These procedures are intended to reduce the potential for significant materials to come in contact with storm water. A log of the inspection and corrective actions shall be maintained on file and shall be retained for three years. The Preventative Maintenance and Good Housekeeping Inspection Form is in Section 13.0.

HOUSEKEEPING PROCEDURE DESCRIPTION:
DPW & DPS Facilities- Street sweeping each facility parking lot and driveway areas weekly. Catch basin sumps are cleaned annually to remove sediment. Staff visually inspects all vehicles and equipment daily for leaks and maintenance issues. DPW staff visually inspects the garbage dumpsters at both facilities frequently. Old and leaky dumpsters are replaced as needed.

Inside each facility, staff perform sweeping of work area on a daily basis. Spills are immediately addressed and chemicals are properly stored with secondary containment where necessary.

Cranbrook Educational Community Salt Dome Facility- Housekeeping procedures are part of the existing PIPP.

SEE TABLE 3 - DESCRIPTION OF PREVENTATIVE MAINTENANCE/ROUTINE HOUSEKEEPING INSPECTIONS

5.2 Comprehensive Site Inspection

The permit requires a schedule for comprehensive site inspection to include but not be limited to, the areas and equipment identified in the preventive maintenance program and good housekeeping procedures. The inspection shall also include a review of the routine preventive maintenance reports, good housekeeping inspections reports, and any other paperwork associated with the SWPPP. The comprehensive site inspection shall be conducted by the Certified Storm Water Operator biannually. The permittee may request Department approval of an alternate schedule for comprehensive site inspections. A report of the comprehensive site inspection results shall be prepared and retained for three years. The report shall identify any incidents of non-compliance with the SWPPP or this permit. If there are no reportable incidents of non-compliance, the report shall contain a certification that the facility is in compliance with this permit. The Comprehensive Site Inspection Form is in Section 14.0.

COMPREHESIVE SITE INSPECTION SCHEDULE:
DPW Facility- Site inspections are scheduled for spring (March-May) and fall (September-November) of each year. A log shall be maintained and records will be kept for a minimum of three years. Annual inspections and SWPPP review will be performed September-November of each year.

DPS Facility- Site inspections are scheduled for spring (March-May) and fall (September-November) of each year. A log shall be maintained and records will be kept for a minimum of three years. Annual inspections and SWPPP review will be performed September-November of each year.

Cranbrook Educational Community Salt Dome Facility – See PIPP

COMPREHENSIVE SITE INSPECTION DESCRIPTION:
DPW Facility- Inspections will verify the presence of spill kits, the condition of catchbasins, the presence of stains and excessive salt, sediment, or debris within the yard, as well as any incidents of non-compliance with the SWPPP.

DPS Facility- Inspections will verify the presence of spill kits, the condition of catchbasins, the presence of stains and excessive salt, sediment, or debris within the yard, as well as any incidents of non-compliance with the SWPPP.

Cranbrook Educational Community Salt Dome Facility – See PIPP

5.3 Material Handling & Spill Prevention / Clean-Up Procedures

The permit requires a description of material handling procedures and storage requirements for significant materials. Equipment and procedures for cleaning up spills shall be identified in the SWPPP and made available to the appropriate personnel. The procedures shall identify measures to prevent spilled materials or material residues on the outside of the containers from being discharged into storm water.

The SWPPP may include, by reference, requirements of either a Pollution Incident Prevention Plan (PIPP) prepared in accordance with the Part 5 Rules (Rules 324.2001 through 324.2009 of the Michigan Administrative Code); a Hazardous Waste Contingency Plan (HWCP) prepared in accordance with 40 CFR 264 and 265 Subpart D, as required by Part 111 of the Michigan Act; or a Spill Prevention Control and Countermeasure (SPCC) plan prepared in accordance with 40 CFR 112.

THE FOLLOWING PLANS ARE ON FILE AT THE FACILITY:
Existing Pollution Incident Prevention Plan (PIPP) prepared for the Cranbrook Salt Dome Facility in accordance with the Part 5 Rules.

MSDS sheets are readily available at the DPW & DPS Facilities.

Spills and leaks together are the largest industrial source of storm water pollution. Thus, this SWPPP specifies material handling procedures and storage requirements for significant materials. Equipment and procedures necessary for cleaning up spills and preventing the spilled materials from being discharged have also been identified. All employees have been made aware of the proper procedures.

SEE TABLE 4- MATERIAL HANDLING & SPILL PREVENTION/CLEAN-UP PROCEDURES
SEE TABLE 5- SPILL KIT INVENTORY

5.4 Soil Erosion & Sedimentation Control Measures

The permit requires the identification of areas which, due to topography, activities, or other factors, have a high potential for significant soil erosion. Areas commonly prone to soil erosion are: gravel lots, bare earth or gravel at material handling areas around storm water inlets, areas with concentrated storm water runoff into streams or ditches, and access roads over open streams or ditches. Control measures must be implemented in areas prone to soil erosion and sedimentation.

AREA OF CONCERN:	CONTROL MEASURE:
DPW Facility	While there are no areas with a high potential for significant erosion at this site, the catch basin sumps and the detention basin act to prevent any significant movement of sediment.
DPS Facility	While there are no areas with a high potential for significant erosion at this site, the catch basin sumps act to prevent any significant movement of sediment.
Cranbrook Educational Community Salt Dome Facility	This is addressed in the PIPP

5.5 Employee Training Program

The permit requires a description of employee training programs have been implemented to inform appropriate personnel at all levels of responsibility of the components and goals of the SWPPP. The SWPPP shall identify periodic dates for such training. MDEQ recommends that employees are trained at the time of hire, then annually.

Employee training will be a major component in ensuring the success of the facility's SWPPP. The more knowledgeable all employees are about the facility's SWPPP and what is expected of them, the greater the chance that the plan will be effective. The following is a description of the employee training programs to be implemented to inform appropriate personnel at all levels of responsibility of the components and goals of the SWPPP (i.e. good housekeeping practices, spill prevention and response procedures, waste minimization practices, informing customers of facility policies, etc.). The Employee Training Form is in Section 15.0.

EMPLOYEE TRAINING DESCRIPTION & FREQUENCY:
The City offers limited training to its DPW and DPS employees regarding stormwater and good housekeeping practices. The City intends to perform annual training for all DPW staff regarding the components and goals of the SWPPP.

The City is not responsible for the training of the Cranbrook Educational Community Salt Dome Facility staff. Training for Cranbrook staff is addressed in the PIPP.

5.6 TMDL Requirements

The permit requires that if there is a Total Maximum Daily Load (TMDL) established by the Department for the receiving water, which restricts the discharge of any of the identified significant materials or constituents of those materials, then the SWPPP shall identify the level of control for those materials necessary to comply with the TMDL, and an estimate of the current annual load of those materials via storm water discharges to the receiving stream.

The TMDL means the amount of pollutant load a water body, such as a lake or stream, can assimilate and still meet water quality standards. If a receiving water body does not meet the water quality standards for a specific pollutant, the MDNRE will establish the appropriate daily maximum load for that pollutant to allow the water body to again meet water quality standards. If a permitted facility is expected to discharge that specific pollutant in its storm water to that water body, the General Permit requires the facility to list actions it will take to meet that TMDL requirement. For example, if the TMDL calls for storm water dischargers to reduce their phosphorus inputs by 50%, the permittee would need to identify phosphorus sources at their

facility and estimate their current annual load. The permittee must list actions to reduce storm water phosphorus discharges from their facility by 50%.

IS THERE A TMDL REQUIREMENT FOR THE RECEIVING WATER?
Rouge River: *E. coli*
Rouge River: Sedimentation/Siltation (Biota)

Below is the identification of actions to limit the discharge of significant materials in order to comply with TMDL requirements:

TMDL POLLUTANT:	CURRENT ANNUAL LOADING:	BEST MANAGEMENT PRACTICES:
E. coli	Target concentration is 130 mg/L MGM or 300 mg/L DGM	Parking lot sweeping and catch basin clean-out for the DPW and DPS facilities. BMPs for the Cranbrook Educational Community Salt Dome Facility are addressed in the existing PIPP. Additionally, see ARC *E. coli* TMDL Collaborative Action Plan.
Sedimentation/ siltation (biota)	The secondary target for mean annual suspended solids concentration is 80 mg/L for wet weather and the primary target is the reestablishment of fish and macroinvertebrate communities that result in “acceptable” or “excellent” rating	Parking lot sweeping and catch basin clean-out for the DPW and DPS facilities. BMPs for the Cranbrook Educational Community Salt Dome Facility are addressed in the existing PIPP.

5.7 List of Significant Materials Still Present

The permit requires the identification of significant materials expected to be present in storm water discharges following implementation of non-structural preventative measures and source controls. Non-structural controls are used to reduce pollutants at the source before they can get into the storm water runoff. In some cases, these types of controls will not be enough. A list of significant materials expected to be present in storm water discharges after implementation of nonstructural controls must be included in the SWPPP. The materials listed below will be addressed through the use of structural controls. (If there will be no significant materials present after the implementation of non-structural controls, state that in this section.)

SIGNIFICANT MATERIAL & LOCATION:	PLANNED CONTROL MEASURE:	IMPACTED OUTFALL:
DPW Facility- sediment	There should be no known materials present in storm water discharges after the implementation of the good housekeeping and non-structural controls.	Outfall #1
DPS Facility	There should be no known materials present in storm water discharges after the implementation of the good housekeeping and non-structural controls.	Outfall #3
Cranbrook Salt Dome Facility	All materials are listed in the PIPP.	

6.0 STRUCTURAL CONTROLS

The permit requires that where implementation of non-structural controls does not control storm water discharges in accordance with water quality standards, the SWPPP shall provide a description of the location, function, and design criteria of structural controls for prevention and treatment.

Structural controls may be necessary:

1) To prevent uncontaminated storm water from contacting or being contacted by significant materials; or

2) If preventive measures are not feasible or are inadequate to keep significant materials at the site from contaminating storm water. Structural controls shall be used to treat, divert, isolate, recycle, reuse, or otherwise manage storm water in a manner that reduces the level of significant materials in the storm water and provides compliance with the Water Quality Standards

Examples of structural controls:

- ✓ Signs and Labels
- ✓ Safety Posts
- ✓ Fences
- ✓ Security Systems
- ✓ Temporary and Permanent Coverings
- ✓ Storm Water Conveyances
- ✓ Diversion Dikes
- ✓ Grading
- ✓ Paving
- ✓ Curbing
- ✓ Drip Pans
- ✓ Secondary Containment
- ✓ Catch Basin Inserts
- ✓ Detention and Retention Ponds
- ✓ Vegetative Filters
- ✓ Sand Filters
- ✓ Oil/Water Separators

These types of controls are physical features that control and prevent storm water pollution. They can range from preventive measures to collection structures to treatment systems. Structural controls will typically require construction of a physical feature or barrier. Below is a description of the structural controls used at the facility.

STRUCTURAL CONTOLS USED AT THE FACILITY

Location of Structural Control	Description of Structural Control	Significant Materials intended to be managed
DPW Facility	Signs & Labels	Vehicle fluids, solvents, & other chemicals
DPW Facility	Paving & Curbing	Sediment
DPW Facility	Drip Pans	Leaking vehicle fluids
DPW Facility	Secondary Containment	Both new and used motor oil & other vehicle fluids
DPW Facility	Detention Basin	Sediment from storm sewer system.
DPS Facility	Signs & Labels	Vehicle fluids, solvents, & other chemicals
DPS Facility	Paving & Curbing	Sediment
DPS Facility	Drip Pans	Leaking vehicle fluids
Cranbrook Educational Community Salt Dome Facility	See PIPP	See PIPP

7.0 NON-STORM WATER DISCHARGES

The permit requires that all discharge locations be evaluated for the presence of non-storm water discharges. Any unauthorized storm water discharges must be eliminated, or covered under another NPDES permit.

Storm water shall be defined to include all of the following non-storm water discharges provided pollution prevention controls for the non-storm water component are identified in the SWPPP:

1) Discharges from fire hydrant flushing
2) Potable water sources including water line flushing
3) Fire system test water
4) Irrigation drainage
5) Lawn watering
6) Routine building wash down which does not use detergents or other compounds
7) Pavement wash waters where contamination by toxic or hazardous materials have not occurred (unless all contamination by toxic or hazardous materials have been removed) and where detergents are not used
8) Air conditioning condensate
9) Springs
10) Uncontaminated ground water
11) Foundations or footing drains where flows are not contaminated with process materials such as solvents

Discharges from fire fighting activities are authorized by the permit, but are exempted from the requirement to be identified in the SWPPP.

The table below specifies what non-storm water discharges occur at the facility.

NON-STORM WATER DISCHARGE:	POLLUTION PREVENTION CONTROLS:	IMPACTED OUTFALL:
DPW Facility- Vehicle washing	Within the DPW facility where the floor drains pass through an oil/water separator and discharge to the sanitary sewer.	None
DPS Facility- Vehicle washing	Fire trucks are washed within the DPS facility where the floor drains pass through an oil/water separator and discharge to the sanitary sewer. Police vehicles are washed at a commercial facility.	None
DPW Facility- Leaking vehicle fluids	Drip pans, absorbent material	Outfall #3
DPS Facility- Leaking vehicle fluids	Drip pans, absorbent material	Outfall #4
Cranbrook Educational Community Salt Dome Facility	See PIPP	

8.0 ANNUAL REVIEW

The permit requires that the permittee shall review the SWPPP annually after it is developed and maintain written summaries of the reviews. Based on the review, the permittee shall amend the SWPPP as needed to ensure continued compliance with the terms and conditions of the permit. The annual review is to be retained on site. It does not need to be submitted to the MDEQ. The Annual Review Form is in Section 16.0.

9.0 CERTIFIED STORM WATER OPERATOR UPDATE

The permit requires that if the Certified Storm Water Operator is changed or an additional Certified Storm Water Operator is added, the permittee shall provide the name and certification number of the new Certified Storm Water Operator to the Department. If a facility has multiple Certified Storm Water Operators, the name and certification number of the Certified Storm Water Operators shall be included in the SWPPP.

10.0 RECORD KEEPING

The permit requires that the permittee shall maintain records of all SWPPP related inspection and maintenance activities. Records shall also be kept describing incidents such as spills or other discharges that can affect the quality of storm water runoff. All such records shall be retained for three years.

11.0 SWPPP CERTIFICATION

The permit requires that the SWPPP shall be reviewed and signed by the Certified Storm Water Operator(s) and by either the permittee or an authorized representative in accordance with 40 CFR 122.22. The SWPPP shall be retained on-site at the facility which generates the storm water discharge.

I certify under penalty of law that the storm water drainage system in this SWPPP has been tested or evaluated for the presence of non-storm water discharges either by me, or under my direction and supervision. I certify under penalty of law that this SWPPP has been developed in accordance with the General Permit and with good engineering practices. To the best of my knowledge and belief, the information submitted is true, accurate, and complete. At the time this plan was completed no unauthorized discharges were present. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment for knowing violations.

Permittee or Authorized Representative
Printed Name & Title:
Signature & Date:

Certified Storm Water Operator
Printed Name & Certification Number:
Signature & Date:

12.0 TABLE 1 – SIGNIFICANT MATERIAL INVENTORY AND DESCRIPTION OF INDUSTRIAL ACTIVITY OR SIGNIFICANT MATERIAL STORAGE AREAS

Section Listed in General Permit	Storage Areas / Activity Areas	Significant Materials	Exposure Method	Reasonable Potential Evaluation (high,medium,low)	Inlet(s)	Outfalls(s)
1) Loading, unloading, and other material handling operations	DPW Facility (indoors with secondary containment)	Motor Oil (new), vehicle fluids, solvents, aerosols	Leaking vehicles (drip pans provided), leaking containers (spill containers provided)	medium	Building trench Drain	1
	DPS Facility (indoors)	Solvents, aerosols	Leaking vehicles (drip pans provided), leaking containers (spill containers provided)	low	Building trench Drain	4
	Cranbrook Educational Community Salt Dome Facility	See PIPP	See PIPP	See PIPP	See PIPP	See PIPP
2) Outdoor storage including secondary containment structures	DPW Facility (outdoors with secondary containment)	Used Motor Oil & other recyclable vehicle fluids	Leaking containers (spill containers provided)	medium	Catch Basin #3 in parking lot	1
	DPS Facility	na	na	na	na	na
	Cranbrook Educational Community Salt Dome Facility	See PIPP	See PIPP	See PIPP	See PIPP	See PIPP
3) Outdoor manufacturing or processing activities	DPW Facility	na	na	na	na	na
	DPS Facility	na	na	na	na	na
	Cranbrook Educational Community Salt Dome Facility	See PIPP	See PIPP	See PIPP	See PIPP	See PIPP
4) Significant dust or particulate generating processes	DPW Facility	Dust from sanding/grinding operations as needed	Deposits from sanding/grinding operations	low	CB #1 in Parking lot	1
	DPS Facility	na	na	na	na	na
	Cranbrook Educational Community Salt Dome Facility	See PIPP	See PIPP	See PIPP	See PIPP	See PIPP

12.0 TABLE 1 CONTINUED

Section Listed in General Permit	Storage Areas / Activity Areas	Significant Materials	Exposure Method	Reasonable Potential Evaluation (high,medium,low)	Inlet(s)	Outfalls(s)
5) Discharge from vents, stacks, and air emission controls	DPW Facility	na	na	na	na	na
	DPS Facility	na	na	na	na	na
	Cranbrook Educational Community Salt Dome Facility	See PIPP	See PIPP	See PIPP	See PIPP	See PIPP
6) On-site waste disposal practices	DPW Facility	Covered Garbage Dumpster	Waste handling and disposal	low	CB #1 in Parking Lot	1
	DPS Facility	Covered Garbage Dumpster	Waste handling and disposal	low	CB #7 in Parking Lot	2
	Cranbrook Educational Community Salt Dome Facility	See PIPP	See PIPP	See PIPP	See PIPP	See PIPP
7) Maintenance and cleaning of vehicles, machines and equipment	DPW Facility	Maintenance occurs in the building, vehicle washing occurs only inside the building	Spillage during handling, leaking containers, leaking vehicles	low	Trench Drain in Bldg	N/A
	DPS Facility	Very limited maintenance occurs in the building, vehicle washing occurs only inside the building	Spillage during handling, leaking containers, leaking vehicles	low	Trench Drain in Bldg or CB #5 in Parking Lot	4 or 3
	Cranbrook Educational Community Salt Dome Facility	See PIPP	See PIPP	See PIPP	See PIPP	See PIPP
8) Areas of exposed and/or erodible soils	DPW Facility	na	na	na	na	na
	DPS Facility	na	na	na	na	na
	Cranbrook Educational Community Salt Dome Facility	See PIPP	See PIPP	See PIPP	See PIPP	See PIPP

12.0 TABLE 1 CONTINUED

Section Listed in General Permit	Storage Areas / Activity Areas	Significant Materials	Exposure Method	Reasonable Potential Evaluation (high,medium,low)	Inlet(s)	Outfalls(s)
9) Sites of Environmental Contamination listed under Part 201	DPW Facility	na	na	na	na	na
	DPS Facility	na	na	na	na	na
	Cranbrook Educational Community (CEC) Salt Dome Facility	See PIPP	See PIPP	See PIPP	See PIPP	See PIPP
10) Areas of significant material residues	DPW Facility	na	na	na	na	na
	DPS Facility	na	na	na	na	na
	CEC Salt Dome Facility	See PIPP	See PIPP	See PIPP	See PIPP	See PIPP
11) Areas where animals congregate (wild or domestic) and deposit wastes	DPW Facility	na	na	na	na	na
	DPS Facility	na	na	na	na	na
	CEC Salt Dome Facility	See PIPP	See PIPP	See PIPP	See PIPP	See PIPP
12) Other areas where storm water may contact significant materials	DPW Facility	na	na	na	na	na
	DPS Facility	na	na	na	na	na
	CEC Salt Dome Facility	See PIPP	See PIPP	See PIPP	See PIPP	See PIPP

12.0 TABLE 2 – LIST OF SIGNIFICANT SPILLS

Location & Date	Material & Volume	Corrective Actions Taken
DPW Facility	**na**	**na**
DPS Facility	**na**	**na**
Cranbrook Educational Community Salt Dome Facility	**See PIPP**	**See PIPP**

TABLE 3 – DESCRIPTION OF PREVENTATIVE MAINTENANCE / ROUTINE HOUSEKEEPING INSPECTIONS

Description of Area or Equipment	Tasks	Frequency
DPW Facility & DPS Facility- Parking Lot & Driveways	Street sweeping	Weekly during non-winter months
DPW Facility& DPS Facility- Catch Basins	Catch basin sumps cleaned to remove sediment	Annually
DPW Facility & DPS Facility	DPW staff visually inspects the garbage dumpsters at both facilities. Old and leaky dumpsters are to be replaced as needed.	Monthly
Cranbrook Educational Community Salt Dome Facility	Part of the PIPP	Part of the PIPP

12.0 TABLE 4 – MATERIAL HANDLING & SPILL PREVENTION / CLEAN-UP PROCEDURES

Potential Spill Area	Material Handling & Storage Procedures	Spill Response Procedures & Equipment
DPW Building Interior	The building interior is to be kept neat and orderly. Staff will perform regular visual inspections on oil and chemical containers before each use. Monthly inspections shall occur for the facility and equipment. Preventative maintenance shall include repairing vehicle leaks and concerns noted with the secondary containment. All materials shall be properly labeled. Check to ensure materials are not entering the storm drain system.	Spill Kit and absorbents, Significant spills shall be recorded on the Spill Re
DPW & DPS Yards	The Yards are to be kept neat and orderly. Staff will perform regular visual inspections on any oil and chemical containers stored outside before each use. Monthly inspections shall occur for the yards and the garbage dumpsters. Preventative maintenance shall include repairing vehicle leaks and concerns noted with the secondary containment. All materials shall be properly labeled. Check to ensure materials are not entering the storm drain system.	Spill Kit and absorbents
DPS Building Interior	The building interior is to be kept neat and orderly. Staff will perform regular visual inspections on all chemical containers before each use. Monthly inspections shall occur for the facility and equipment. Preventative maintenance shall include repairing vehicle leaks and concerns noted with the secondary containment. All materials shall be properly labeled. Check to ensure materials are not entering the storm drain system.	Spill Kit and absorbents
Cranbrook Educational Community Salt Dome Facility	See PIPP	See PIPP

12.0 TABLE 5 – DEPARTMENT OF PUBLIC WORKS SPILL KIT INVENTORY

List the spill response equipment that will be maintained in each location or locker (refer to MSDSs to determine recommended clean-up methods and supplies):

Person responsible for maintaining this inventory: Jamie Spivy, Public Works Foreman

Locker number or location	Absorbents (pads, booms, kitty litter, etc.)	Tools (shovels, brooms, squeegees, etc.)	Personal Protective Equipment (rubber gloves, boots, masks, etc.)	Other Supplies (warning tape, labels, markers, MSDSs, etc.)

Label each spill kit with the words "SPILL KIT" and the necessary emergency telephone number(s) or pager number(s) of persons to be contacted in case of a spill or leak that is beyond the training and equipment available on or near each spill locker:

Facility Responsible Person/Phone Number: **1-248-203-0621**
Spill Response Contractor (if any)/Phone Number: not applicable
MDEQ District Office Phone Number: **1-586-753-3700**
MDEQ 24-Hour Emergency Spill Reporting Hot-Line: **1-800-292-4706**

Stencil the following warning on each spill kit:

"WARNING: NEVER HOSE DOWN A SPILL!
CLEAN IT UP PROMPTLY AND DISPOSE OF THE WASTE PROPERLY."

12.0 TABLE 5 CONTINUED – DEPARTMENT OF PUBLIC SAFETY SPILL KIT INVENTORY

List the spill response equipment that will be maintained in each location or locker (refer to MSDSs to determine recommended clean-up methods and supplies):

Person responsible for maintaining this inventory: Jamie Spivy, Public Works Foreman

Locker number or location	Absorbents (pads, booms, kitty litter, etc.)	Tools (shovels, brooms, squeegees, etc.)	Personal Protective Equipment (rubber gloves, boots, masks, etc.)	Other Supplies (warning tape, labels, markers, MSDSs, etc.)

Label each spill kit with the words "SPILL KIT" and the necessary emergency telephone number(s) or pager number(s) of persons to be contacted in case of a spill or leak that is beyond the training and equipment available on or near each spill locker:

Facility Responsible Person/Phone Number: **1-248-203-0621**
Spill Response Contractor (if any)/Phone Number: not applicable
MDEQ District Office Phone Number: **1-586-753-3700**
MDEQ 24-Hour Emergency Spill Reporting Hot-Line: **1-800-292-4706**

Stencil the following warning on each spill kit:

"WARNING: NEVER HOSE DOWN A SPILL!
CLEAN IT UP PROMPTLY AND DISPOSE OF THE WASTE PROPERLY."

13.0 PREVENTATIVE MAINTENANCE AND GOOD HOUSEKEEPING INSPECTION FORM

Date:	Time:

Inspector	
Print:	Signature:

Department of Public Works

Areas Inspected	Method	Comments / Corrective Actions
Facility Floor	Verify that the facility floor is clean of debris, sediment and chemicals/oil.	
Trench Drain	Verify drains are still functioning and are generally clean.	
Oil/Water Separator	Examine structure to verify that it is functioning and cleaned regularly.	
Container Labeling	All containers that hold chemicals or oil must be properly labeled.	
Spill Kits	Spill kits must be accessible and properly labeled.	
Used Oil Storage	Containers/Drums are labeled, clean, and protected from spills.	
Oil Filters	Used oil filters are properly drained.	
Battery Storage	New and used batteries are stored off of the floor.	
Chemicals Storage	Chemicals are properly stored off the floor on shelves or in cabinets and all contained are sealed when not in use.	
Empty containers	Empty containers are properly stored or disposed of.	
Parking Lot	Verify that parking lot is clean of debris and sediment.	
Catch Basins	Inspect structures for signs of an illicit discharge or debris/sediment accumulation.	
Dumpster	Dumpster area is clean, lids are closed, and no rusting areas or holes are present.	
Detention Basin	Inspect for cleanliness of basin and outlet structure, and for signs of an illicit discharge.	
Scrap Metal	Scrap metal storage is indoors or properly covered.	

Department of Public Safety

Facility Floor	Verify that the facility floor is clean of debris, sediment and chemicals/oil.	
Trench Drain	Verify drains are still functioning and are generally clean.	
Oil/Water Separator	Examine structure to verify that it is functioning and cleaned regularly.	
Container Labeling	All containers that hold chemicals or oil must be properly labeled.	
Chemicals Storage	Chemicals are properly stored off the floor on shelves or in cabinets and all contained are sealed when not in use.	
Parking Lot	Verify that parking lot is clean of debris and sediment.	
Catch Basins	Inspect structures for signs of an illicit discharge or debris/sediment accumulation.	
Dumpster	Dumpster area is clean, lids are closed, and no rusting areas or holes are present.	

Cranbrook Salt Dome (Also to be inspected as part of Cranbrook PIPP)

Salt Dome	Examine salt dome for roof leaks and salt tracking outside of dome area. Verify broom is present for sweeping.	
Brine Tank	Examine tank for leaks and spill kit is available.	
Aggregate Pile Storage	Examine storage pile area for erosion outside of containment area.	

14.0 COMPREHENSIVE SITE INSPECTION FORM

Date:	Time:

Inspector	
Print:	Signature:

Are the Facilities in compliance with the General Permit and the SWPPP:

Department of Public Works

Areas Inspected	Method	Comments / Corrective Actions
Preventative Maintenance and Good Housekeeping Inspections	Conduct inspection as part of Comprehensive Inspection Process and review that inspections have been filed.	
Vehicle and Equipment Maintenance Logs	Review that logs are being completed and filed.	
Spill Reports	Reports of any spills have been completed and filed.	
Spill Response Plan	Review plan for any needed updates	
Spill Response Phone Numbers	Verify that phone numbers are accessible and current.	
Inspection of Outlet from Detention Basin	Inspect outlet for cleanliness and no signs of an illicit discharge.	
Employee Training	Personnel Training records are current.	

Department of Public Safety

Areas Inspected	Method	Comments / Corrective Actions
Preventative Maintenance and Good Housekeeping Inspections	Conduct inspection as part of Comprehensive Inspection Process and review that inspections have been filed.	
Vehicle and Equipment Maintenance Logs	Review that logs are being completed and filed.	
Spill Reports	Reports of any spills have been completed and filed.	
Spill Response Plan	Review plan for any needed updates	
Spill Response Phone Numbers	Verify that phone numbers are accessible and current.	

15.0 EMPLOYEE TRAINING FORM

Date of Session:

Trainer	
Print:	Signature:

Topics Covered:

Attendee Name	**Attendee Signature**

16.0 ANNUAL SWPPP REVIEW FORM

Date of Review:

Reviewer	
Print:	Signature:

Annual SWPPP Review Checklist

1) Facility general information and SWPPP team information is current and accurate	Yes	No	
2) Site map is current and accurate	Yes	No	
3) Significant material inventory is current and accurate	Yes	No	
4) New exposures, processes and related controls have been documented	Yes	No	NA
5) Spills have been recorded and reported as appropriate	Yes	No	NA
6) Records of routine preventative maintenance, housekeeping and employee training are available in the SWPPP file	Yes	No	
7) Comprehensive site inspections have been completed, certified and filed in the SWPPP file	Yes	No	
8) Corrective actions noted in the inspection reports have been completed	Yes	No	
9) Certified Storm Water Operator is current	Yes	No	
10) Annual fees have been paid	Yes	No	
11) Permit renewal request has been processed	Yes	No	NA
12) SWPPP has been reviewed and signed by the Certified Storm Water Operator and the Permittee or designated representative	Yes	No	

Additional Comments:

17.0 MDEQ SPILL OR RELEASE REPORT

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

SPILL OR RELEASE REPORT

NOTE: Some regulations require a specific form to use and procedures to follow when reporting a release. Those forms and procedures **MUST** be used and followed if reporting under those regulations. This report form is to aid persons reporting releases under regulations that do not require a specific form. This report form is not required to be used. **To report a release, some regulations require a facility to call the PEAS Hotline at 800-292-4706, or DEQ District Office that oversees the county where it occurred, and other regulating agencies and provide the following information. A follow-up written report may be required. Keep a copy of this report as documentation that the release was reported. If you prefer to submit this report electronically by FAX or e-mail, contact the regulating agency for the correct telephone number or e-mail address.** See the DEQ website on Spill/Release Reporting for more reporting information.

Please print or type all information.

NAME AND TITLE OF PERSON SUBMITTING WRITTEN REPORT

TELEPHONE NUMBER (provide area code)

NAME OF BUSINESS

STREET ADDRESS

CITY | STATE | ZIP CODE

BUSINESS TELEPHONE NUMBER (provide area code)

RELEASE LOCATION (provide address if different than business, if known, and give directions to the spill location. Include nearest highway, town, road intersection, etc.)

SITE IDENTIFICATION NUMBER AND OTHER IDENTIFYING NUMBERS (if applicable)

COUNTY | TOWNSHIP | TIER/RANGE/SECTION (if known)

RELEASE DATA. Complete all applicable categories. Check all the boxes that apply to the release. Provide the best available information regarding the release and its impacts. Attach additional pages if necessary.

DATE & TIME OF RELEASE (if known): ____/____/____ _____am/pm

DATE & TIME OF DISCOVERY: ____/____/____ _____am/pm

DURATION OF RELEASE (if known): _____ days _____ hours _____ minutes

TYPE OF INCIDENT
- ☐ Explosion
- ☐ Fire
- ☐ Leaking container
- ☐ Loading/unloading release
- ☐ Pipe/valve leak or rupture
- ☐ Vehicle accident
- ☐ Other _____

MATERIAL RELEASED (Chemical or trade name) ☐ CHECK HERE IF ADDITIONAL MATERIALS LISTED ON ATTACHED PAGE.	CAS NUMBER or HAZARDOUS WASTE CODE	ESTIMATED QUANTITY RELEASED (indicate unit e.g. lbs, gals, cu ft or yds)	PHYSICAL STATE RELEASED (indicate if solid, liquid, or gas)

FACTORS CONTRIBUTING TO RELEASE
- ☐ Equipment failure
- ☐ Operator error
- ☐ Faulty process design
- ☐ Training deficiencies
- ☐ Unusual weather conditions
- ☐ Other _____

SOURCE OF LOSS
- ☐ Container
- ☐ Railroad car
- ☐ Pipeline
- ☐ Ship
- ☐ Tank
- ☐ Tanker
- ☐ Truck
- ☐ Other _____

TYPE OF MATERIAL RELEASED
- ☐ Agricultural: manure, pesticide, fertilizer
- ☐ Chemicals
- ☐ Flammable or combustible liquid
- ☐ Hazardous waste
- ☐ Liquid industrial waste
- ☐ Oil/petroleum products or waste
- ☐ Salt
- ☐ Sewage
- ☐ Other_____
- ☐ Unknown

MATERIAL LISTED ON or DEFINED BY
- ☐ CAA Section 112(r) list (40 CFR Part 68)
- ☐ CERCLA Table 302.4 (40 CFR Part 302)
- ☐ EPCRA Extremely Hazardous Substance (40 CFR Part 355)
- ☐ Michigan Critical Materials Register or permit
- ☐ NREPA Part 31, Part 5 Rules polluting material
- ☐ NREPA Part 111 or RCRA hazardous waste
- ☐ NREPA Part 121 liquid industrial waste
- ☐ Other list _____
- ☐ Unknown

IMMEDIATE ACTIONS TAKEN
- ☐ Containment
- ☐ Dilution
- ☐ Evacuation
- ☐ Hazard removal
- ☐ Neutralization
- ☐ System shut down
- ☐ Diversion of release to treatment
- ☐ Decontamination of persons or equipment
- ☐ Monitoring
- ☐ Other _____

RELEASE REACHED

Distance from spill location to surface water, in feet_____

- ☐ Surface waters (include name of river, lake, drain involved) _____
- ☐ Drain connected to sanitary sewer (include name of wastewater treatment plant and/or street drain, if known) _____
- ☐ Drain connected to storm sewer (include name of drain or water body it discharges into, if known) _____
- ☐ Groundwater (indicate if it is a known or suspected drinking water source and include name of aquifer, if known) _____
- ☐ Soils (include type e.g. clay, sand, loam, etc.) _____
- ☐ Ambient Air
- ☐ Spill contained on impervious surface

EXTENT OF INJURIES, IF ANY	WAS ANYONE HOSPITALIZED?	TOTAL NUMBER OF INJURIES TREATED ON-SITE:
	☐ Yes NUMBER HOSPITALIZED:___ ☐ No	

DESCRIBE THE INCIDENT, THE TYPE OF EQUIPMENT INVOLVED IN THE RELEASE, HOW THE VOLUME OF LOSS WAS DETERMINED, ALONG WITH ANY RESULTING ENVIRONMENTAL DAMAGE CAUSED BY THE RELEASE. IDENTIFY WHO IMMEDIATELY RESPONDED TO THE INCIDENT (own employees or contractor — include cleanup company name, contact person, and telephone number). ALSO IDENTIFY WHO DID FURTHER CLEANUP ACTIVITIES, IF PERFORMED OR KNOWN WHEN REPORT SUBMITTED

☐ CHECK HERE IF DESCRIPTION OR ADDITIONAL COMMENTS ARE INCLUDED ON ATTACHED PAGE

ESTIMATED QUANTITY OF ANY RECOVERED MATERIALS AND A DESCRIPTION OF HOW THOSE MATERIALS WERE MANAGED (include disposal method if applicable)

☐ CHECK HERE IF DESCRIPTION OR ADDITIONAL COMMENTS ARE INCLUDED ON ATTACHED PAGE

ASSESSMENT OF ACTUAL OR POTENTIAL HAZARDS TO HUMAN HEALTH (include known acute or immediate and chronic or delayed effects, and where appropriate, advice regarding medical attention necessary for exposed individuals.)

☐ CHECK HERE IF DESCRIPTION OR ADDITIONAL COMMENTS ARE INCLUDED ON ATTACHED PAGE

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY NOTIFIED:

INITIAL CONTACT BY: ☐ Telephone ☐ Fax ☐ Email ☐ Other

DATE/TIME INITIAL CONTACT:_____

☐ PEAS: 800-292-4706 Log Number Assigned _____

☐ DEQ District or Field Office

- ☐ Baraga
- ☐ Bay City
- ☐ Cadillac
- ☐ Crystal Falls
- ☐ Detroit
- ☐ Gaylord
- ☐ Grand Rapids
- ☐ Gwinn
- ☐ Jackson
- ☐ Kalamazoo
- ☐ Lansing
- ☐ Newberry
- ☐ Warren
- ☐ Wyoming

DEQ Office locations are subject to change

Divisions or Offices Contacted:

- ☐ Air Quality
- ☐ Land & Water Management
- ☐ Office Geological Survey
- ☐ Remediation and Redevelopment
- ☐ Waste and Hazardous Materials
- ☐ Water Bureau

NAME AND TITLE OF PERSON MAKING INITIAL REPORT:

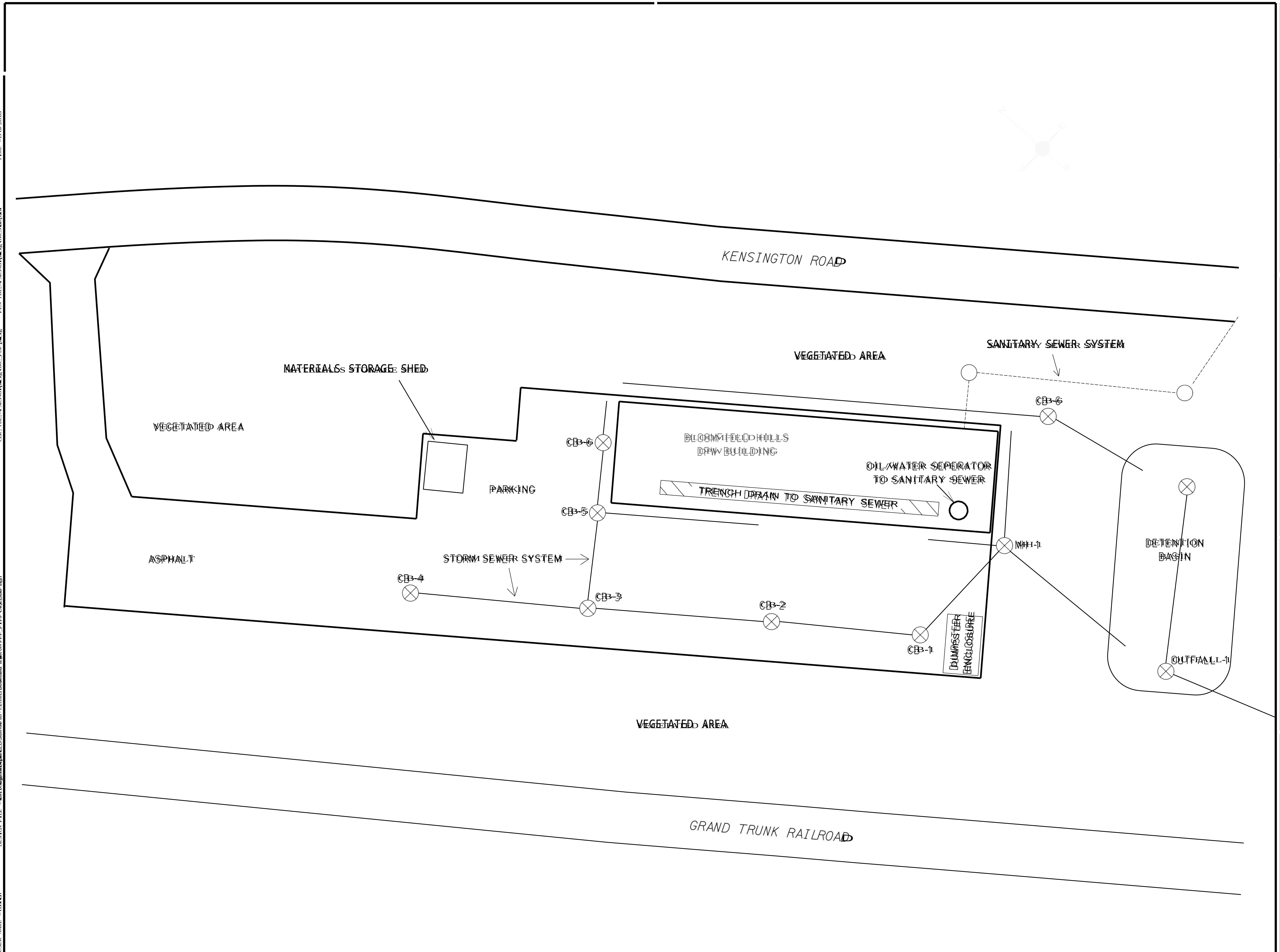
DEQ STAFF CONTACTED & PHONE NUMBER:

OTHER ENTITIES NOTIFIED:

	Date:	Time:
☐ National Response Center (NRC): 800-424-8802		
☐ US Coast Guard Office: ☐ Detroit ☐ Grand Haven ☐ Sault Ste. Marie		
☐ US Department of Transportation		
☐ US Environmental Protection Agency		
☐ 911 (or primary public safety answering point)		
☐ Local Fire Department		
☐ Local Police and/or State Police		
☐ Local Emergency Planning Committee		
☐ State Emergency Response Commission via MI SARA Title III Program		
☐ Wastewater Treatment Plant Authority		
☐ Hazmat Team		
☐ Local Health Department		
☐ Department of Labor & Economic Growth MIOSHA		
☐ Department of Labor & Economic Growth Fire Safety		
☐ Michigan Department of Agriculture: 800-405-0101		
☐ Other _____		

PERSON CONTACTED & PHONE NUMBER:

DATE WRITTEN REPORT SUBMITTED	SIGNATURE OF PERSON SUBMITTING WRITTEN REPORT



HRC
HUBBELL, ROTH & CLARK, INC
Consulting Engineers
555 HULET DRIVE P.O. BOX 824
BLOOMFIELD HILLS, MICH. 48303 - 0824
PHONE: (248) 454-6300
FAX (1st. Floor): (248) 454-6312
FAX (2nd. Floor): (248) 338-2592
WEB SITE: http:// www.hrc-engr.com

DATE	ADDITIONS AND/OR REVISIONS

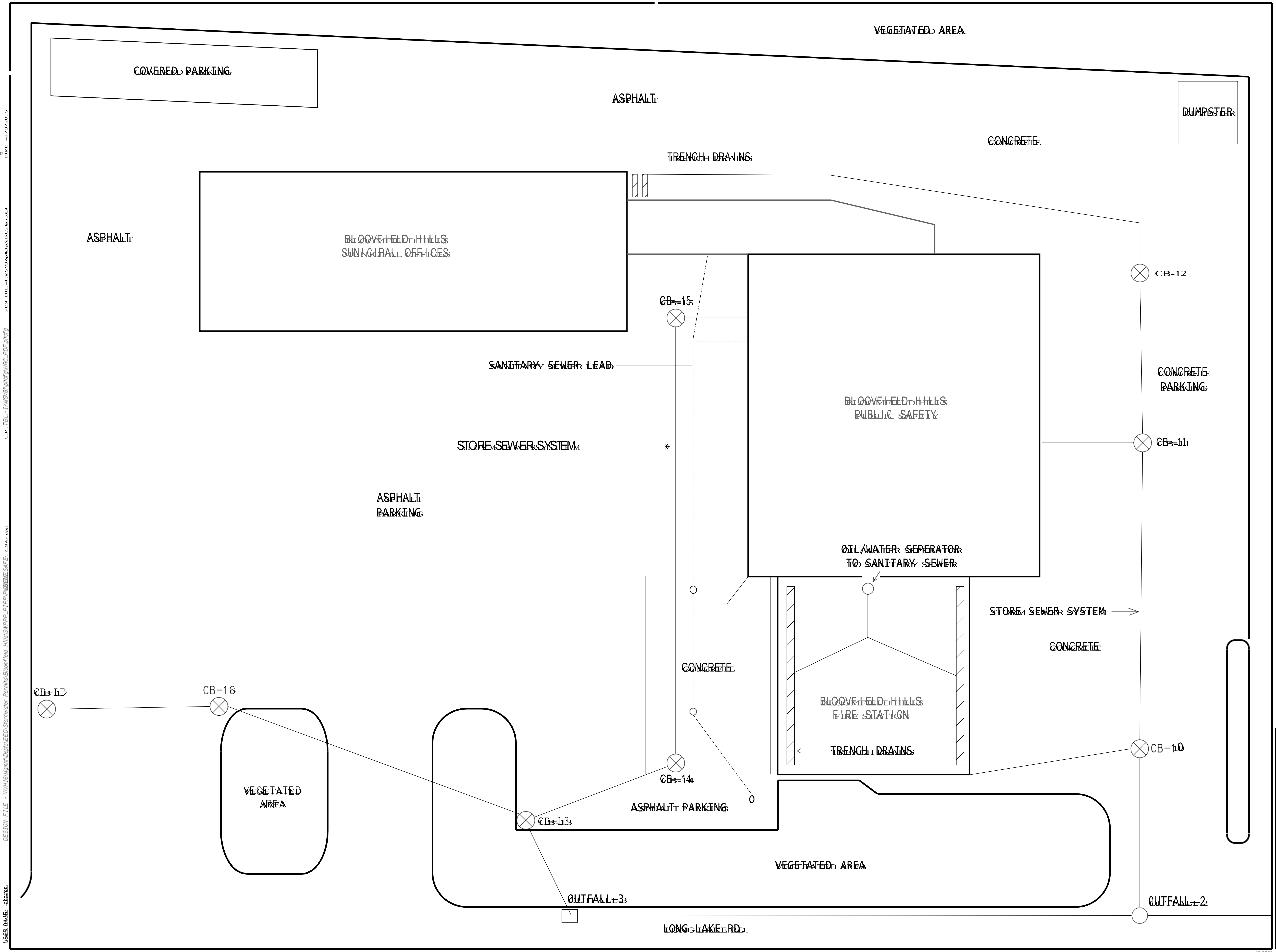
DESIGNED:
DRAWN:
CHECKED:
APPROVED:

CITY OF
BLOOMFIELD HILLS

OAKLAND COUNTY MICHIGAN

BLOOMFIELD HILLS
DPW ENVIRONMENTAL
ASSESSMENT MAP

HRC JOB NO.	SCALE
20100012	NOT TO SCALE
DATE APRIL 2015	SHEET NO. 1 OF 2


VEGETATED AREA
COVERED PARKING
ASPHALT
DUMPSTER
CONCRETE
TRENCH DRAINS
ASPHALT
BLOOMFIELD HILLS
MUNICIPAL OFFICES
CB-12
CB-15
SANITARY SEWER LEAD
CONCRETE
PARKING
BLOOMFIELD HILLS
PUBLIC SAFETY
STORM SEWER SYSTEM
CB-11
ASPHALT
PARKING
OIL/WATER SEPERATOR
TO SANITARY SEWER
STORM SEWER SYSTEM
CONCRETE
CONCRETE
CB-17
CB-16
BLOOMFIELD HILLS
FIRE STATION
TRENCH DRAINS
CB-10
CB-14
VEGETATED
AREA
ASPHALT PARKING
CB-13
VEGETATED AREA
OUTFALL-3
OUTFALL-2
LONG LAKE RD.

HUBBELL, ROTH & CLARK, INC
Consulting Engineers

555 HULET DRIVE
BLOOMFIELD HILLS, MICH.

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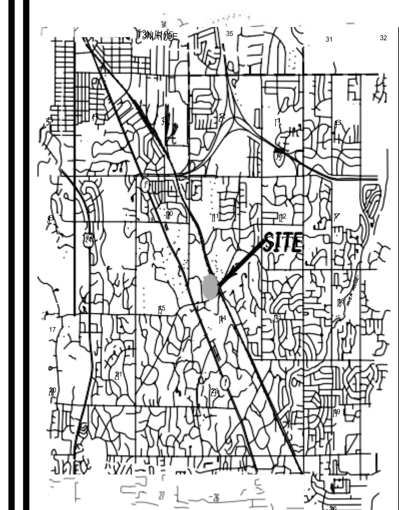
FAX (2nd. Floor): (248) 338-2592
WEB SITE: http:// www.hrc-engr.com

DATE	ADDITIONS AND/OR REVISIONS

DESIGNED
DRAWN
CHECKED
APPROVED

\\VHI6\Mgmnt\Depts\EED\Stormwater Permits\Bloomfield Hills\SWPP



CITY OF

BLOOMFIELD HILLS

OAKLAND COUNTY MICHIGAN

BLOOMFIELD HILLS
PUBLIC SAFETY
ENVIRONMENTAL
ASSESSMENT MAP

HRC JOB NO.	SCALE
20100012	NOT TO SCALE
DATE APRIL 2015	SHEET NO. 2 OF 2