

NPDES PHASE II

ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE) PLAN



Hamilton County, Indiana
Permit #INR40066
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**NPDES PHASE II
ILLICIT DISCHARGE DETECTION AND
ELIMINATION (IDDE) PLAN**

Prepared for:

Hamilton County, Indiana

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CBBEL Project Number 03-389a

Illicit Discharge Detection and Elimination (IDDE) Plan

This appendix contains the Co-Permittees' strategy to detect and eliminate illicit discharges to the MS4 conveyance system in accordance with their Stormwater Quality Management Plan (SWQMP) and their Illicit Discharge Detection and Elimination (IDDE) Ordinances as required by 327 IAC 15-13 (Rule 13). This plan includes an outfall screening procedure, a source identification procedure, a list of active industrial facilities that discharge into the Co-Permittees' MS4, and an outfall inspection check list.

ILLICIT DISCHARGE

The term "illicit discharge" is defined in IAC 327 15-13-5 (28) as any discharge to a MS4 conveyance system that is not composed entirely of stormwater, except naturally occurring floatables, such as leaves or tree limbs. The definition provides examples of illicit discharges as sanitary wastewater, septic tank effluent, oil disposal, radiator flushing disposal, laundry wastewater, roadway accident spillage, and household hazardous wastes.

Illicit discharges can be categorized as either direct or indirect. Examples of direct illicit discharges include: sanitary wastewater including piping that is directly connected from a home to the storm sewer, materials (e.g., used motor oil) that have been dumped illegally into a storm drain, a shop floor drain that is connected to the storm sewer, or a cross-connection between the sanitary sewer and storm sewer systems. Examples of indirect illicit discharges include a damaged sanitary sewer line that is leaking into a storm sewer line or a failing septic system that is leaking into a storm sewer line or causing surface discharge into the storm sewer.

As stated in IAC 327 IAC 15-13-14 (d), the Co-Permittees' SWQMP need not address the following categories of non-storm water discharges or flows unless the MS4 operator identifies them as significant contributors of pollutants to the MS4 conveyance system. Therefore, in the interim, the Co-Permittees will not consider those items listed in **Table 1** as illicit discharges. However, if in the future the Co-Permittees determines any of these activities to be illicit discharges, the Co-Permittees will update its IDDE Plan accordingly.

**Table 1
Exempted Non-stormwater Discharges**

Water Line Flushing	Irrigation Water
Landscape Irrigation	Springs
Diverted Stream Flows	Water from Crawl Space Pumps
Rising Ground Waters	Footing Drains
Uncontaminated Ground Water Infiltration	Lawn Watering
Uncontaminated Pumped Ground Water	Individual Residential Car Washing
Discharges from Potable Water Sources	Flows from Riparian Habitats and Wetlands
Foundation Drains	Dechlorinated Swimming Pool Discharges

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Air Conditioning Condensation	Street Wash Water
Discharges from Firefighting Activities	

OUTFALL SCREENING

As required by Rule 13, the Co-Permittees will perform dry weather screening on 100% of their stormwater outfalls with a pipe diameter of twelve inches or larger and open ditches with a two foot or larger bottom width within the first five-year permit term. The Co-Permittees define dry weather as a period in which there has been no rainfall or no more than one-tenth (.1) of an inch of rain within a seventy-two (72) hour period.

Initial screening of the storm sewer system will be conducted during stormwater outfall mapping activities. The goal of the screening will be to locate pipes or ditches that have dry weather discharges and to test discharges to identify pollutants. Results of this initial screening will be utilized to identify priority outfalls for illicit discharge elimination or additional illicit discharge screening.

Field inspectors will conduct and document physical observations at each stormwater outfall. For those outfalls proceeded by a retention pond, the inspector will conduct and document physical observations of the conveyance that leads to the pond. In the event an outfall or pond conveyance system is discharging during dry weather and physical observations warrant, the inspector will conduct and document a series of in-field water quality tests utilizing a Hach field kit or an equivalent unit.

At a minimum, all in-field water quality testing will screen dry weather discharges for pH, temperature, conductivity, and E.coli. If visual observations and in-field tests suggest water quality problems, the inspector may choose to collect additional samples for further laboratory analysis. The outfall inspector will utilize the outfall inspection checklist at the end of this document in order to accurately record all outfall observations. **Table 2** identifies potential water quality parameters that may be monitored by field inspectors.

Table 2
Water Quality Test Parameters and Uses

Water Quality Test	Reason for Parameter Test	Method
Conductivity	Used as an indicator of dissolved solids.	Hach Field Kit
Temperature	Sanitary wastewater and industrial cooling water can substantially influence outfall discharge temperatures. This measurement is most useful during cold weather.	Field Thermometer
pH	Extreme pH values (low or high) may	Oakton pHTestR3 or

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	indicate commercial or industrial flows; not useful in determining the presence of sanitary wastewater (which, like uncontaminated base flows, tends to have a neutral pH)	equivalent
Ammonia-Nitrogen	High levels can be an indicator of the presence of sanitary wastewater.	Hach Field Test Kit and laboratory analysis if deemed appropriate.
Phosphorus	Used to indicate the presence of sanitary wastewater.	Hach Field Test Kit and laboratory analysis if deemed appropriate.
E. coli	Used to indicate the presence of sanitary wastewater.	Coliscan Easygel and Laboratory Analysis if deemed appropriate
Oil and Grease	Used to indicate the presence of oil and grease that would indicate a definite illicit discharge as oil and grease	Laboratory Analysis if deemed appropriate
Metals	Dissolved Iron exposed to air oxidizes and reduces dissolved oxygen levels.	Laboratory Analysis if deemed appropriate
Optical Brighteners	Used to indicate the presence of laundry detergents (which often contain fabric whiteners, which cause substantial fluorescence).	Untreated cotton pad surrounded by mesh bag placed in storm drain outlet, manhole, or catch basin; left for 5-7 days. Then, cotton pad placed under UV lamp.

SOURCE IDENTIFICATION

The Co-Permittees will attempt to identify the source of all dry weather discharges. Recognizing that most dry weather discharges will not be constant, the Co-Permittees understand that identifying the source of 100% of all illicit discharges is unlikely.

For each dry weather discharge, the inspector, after conducting the visual observations and outfall testing, will utilize the Co-Permittees' storm sewer map and follow the drainage ditch or identify the most up-pipe manhole with a junction in an attempt to identify the general location from which the discharge originates. If, from following the drainage ditch or inspecting the manhole, the inspector can determine the direction from which the discharge originates, he or she will then continue upstream or to the next up-pipe manhole until he or she can pinpoint the source or the general vicinity from where the discharge is originating. If the inspector cannot identify the specific source through visual observation or if the trail of the discharge dissipates, a dye test, smoke test or video inspection may be necessary to determine the source of the discharge.

Dye Testing

If an inspector is able to narrow down the likely source of a discharge to a few homes or businesses, the Co-Permittees will perform a dye test one building at a

time. Non-toxic dye will be flushed into toilets, sinks and other drains, and then storm sewer and sanitary sewer manholes and storm sewer outfalls will be observed to check for presence of the dye. Prior to testing, the Co-Permittees will contact building owners and occupants to obtain access to the buildings. The County Health Department and the IDEM's Office of Water Quality will be notified so they will be prepared to respond to citizen calls and/or questions. Two or more Co-Permittee staff will be equipped with two-way radios with one person inside the building and the others stationed at appropriate opened manholes and/or outfalls. The inside person will drop dye into a plumbing fixture and run a sufficient amount of water to move the dye through the plumbing system. The inside person will then radio the outside crew so they can watch for the dye and record the presence or absence of dye.

Smoke Testing

If dye tests prove unsuccessful, the Co-Permittees may opt to conduct smoke testing. A smoke test involves injecting non-toxic smoke into storm sewer lines and then noting the emergence of smoke from sanitary sewer vents in illegally connected buildings or from cracks and leaks in the storm sewer lines. The injection will be done by placing a smoke bomb in the storm sewer manhole below ground and forcing air in after it. Co-Permittee staff will be stationed at points of suspected illegal connections or cracks/leaks, noting any escape of smoke. Prior to performing tests, the Co-Permittees will inform building owners and occupants in the area, as well as, police and fire departments.

Video Inspection

Video inspections involve filming the storm sewer system and tracking a discharge to its source. Due to the expertise and technology required to conduct such investigations, the cost associated can be high. In addition, the firms that provide such services may not be readily available to conduct a video inspection increasing the chances that the discharge may cease before it can be thoroughly investigated. Therefore, the Co-Permittees will only rely upon video inspections if smoke testing and/or dye testing prove insufficient in the identification of a discharge.

ELIMINATING ILLICIT DISCHARGES

The goal of the Co-Permittees Illicit Discharge Detection and Elimination Plan is to address 100% of all illicit discharges identified. The County understands, however, that the immediate elimination of 100% of identified illicit discharges is not likely due to the political and socioeconomic circumstances that can play a role in such issues. The Co-Permittees will, however, enforce and eliminate identified illicit discharges in accordance with their IDDE Ordinances.

IDENTIFICATION OF ACTIVE INDUSTRIAL FACILITIES IN THE MS4 AREA

All active industrial facilities located within the Co-Permittees MS4 area are listed in **Table 3**. This information will be updated annually by the Co-Permittees to ensure the list is accurate and current. The table will assist field inspectors with identifying potential pollutants of concern as well as the potential sources of illicit discharges.

Illicit Discharge Detection and Elimination Reporting

The inspectors responsible for outfall screening and identifying illicit discharges will maintain a database that documents all activities associated with the Co-Permittees' IDDE Plan ranging from mapping, outfall screening, source identification and enforcement. All activities associated with this plan will be documented and submitted to the IDEM with the Co-Permittees annual SWQMP report.

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**Table 3
Listing of Industrial Facilities within the MS4 Area**

Facility Name	Mailing Address	Mailing City	Mail ZIP	Primary_SIC Code	Phone	Street Address	Street City	County
A J Witham Sign Production	26266 Devaney Rd	Arcadia	46030	3993	317-984-3765	26266 Devaney Rd	Arcadia	Hamilton
Advanced Metalworking Practice	401 Industrial Dr	Carmel	46032	3399	317-843-1499	401 Industrial Dr	Carmel	Hamilton
Air-Conn	PO Box 472	Cicero	46034	3714	317-984-6613	330 Bay View Dr	Cicero	Hamilton
American Feeding Systems Inc	3497 Conner St	Noblesville	46060	3537	317-773-5517	3497 Conner St	Noblesville	Hamilton
American Propulsion Systems	PO Box 90287	Indianapolis	46290	3429	317-575-2294	9655 Bauer Dr	Indianapolis	Hamilton
Ameriflo Inc	478 Gradle Dr	Carmel	46032	3494	317-844-2019	478 Gradle Dr	Carmel	Hamilton
Applied Fabricators Inc	222 Gradle Dr	Carmel	46032	3444	317-844-4230	222 Gradle Dr	Carmel	Hamilton
Apptech Inc	363 W Greyhound Pass	Carmel	46032	3571	317-844-8828	363 W Greyhound Pass	Carmel	Hamilton
Bacompt Systems Inc	12742 Hamilton Crossing Blvd	Carmel	46032	2759	317-574-7474	12742 Hamilton Crossing Blvd	Carmel	Hamilton
Ball Systems Inc	622 S Range Line Rd	Carmel	46032	3825	317-848-0205	622 S Range Line Rd	Carmel	Hamilton
Bastine Pottery Inc	16509 Cyntheanne Rd	Noblesville	46060	3263	317-776-0210	16509 Cyntheanne Rd	Noblesville	Hamilton
Bellwether Inc	9102 Fall View Dr	Fishers	46038	2731	317-576-0790	9102 Fall View Dr	Fishers	Hamilton
Biddle Precision Components	701 S Main St	Sheridan	46069	3599	317-758-4451	701 S Main St	Sheridan	Hamilton
Bundy & Co Inc	16506 Strawtown Ave	Noblesville	46060	3949	317-776-0553	16506 Strawtown Ave	Noblesville	Hamilton
Cable Concepts Inc	468 Gradle Dr	Carmel	46032	3679	317-587-1200	468 Gradle Dr	Carmel	Hamilton
Carmel Concrete Products Co	12368 Hancock St	Carmel	46032	3273	317-844-5157	12368 Hancock St	Carmel	Hamilton
Carmel Engineering Inc	PO Box 826	Westfield	46074	3599	317-896-9367	17650 Spring Mill Rd	Westfield	Hamilton
Carmel Signs	13815 N Meridian St	Carmel	46032	3993	317-846-6036	13815 N Meridian St	Carmel	Hamilton
Cave & Co Printing	104 W Main St	Westfield	46074	2752	317-896-5337	104 W Main St	Westfield	Hamilton
Chapdell's Tree & Plant Desig	11480 E 111th St	Fishers	46038	3999	317-845-9980	11480 E 111th St	Fishers	Hamilton
Christian Tape Library Inc	330 N Range Line Rd	Carmel	46032	3695	317-844-9999	330 N Range Line Rd	Carmel	Hamilton
Cisco Systems Inc	11711 N Meridian St # 250	Carmel	46032	3577	317-816-5200	11711 N Meridian St # 250	Carmel	Hamilton
CNHI Media	535 W Carmel Dr	Carmel	46032	2721	317-848-9495	535 W Carmel Dr	Carmel	Hamilton
Componentech Sales	597 Industrial Dr Ste 306	Carmel	46032	3469	317-844-3591	597 Industrial Dr Ste 306	Carmel	Hamilton
Cookie Jar Inc	25 W Main St	Carmel	46032	2051	317-844-1919	25 W Main St	Carmel	Hamilton
Cytec Industries Inc	301 E Carmel Dr Ste D100	Carmel	46032	2899	317-705-6565	301 E Carmel Dr Ste D100	Carmel	Hamilton
Da Jac Inc	17152 Shadoan Way	Westfield	46074	3647	317-867-1888	17152 Shadoan Way	Westfield	Hamilton
Davis Tool & Machine Inc	19224 Eagletown Rd	Westfield	46074	3599	317-896-9278	19224 Eagletown Rd	Westfield	Hamilton
Different Drummer	10912 E 166th St	Noblesville	46060	2499	317-773-1201	10912 E 166th St	Noblesville	Hamilton
Douglas Dye & Associates Inc	501 Industrial Dr	Carmel	46032	2434	317-844-1709	501 Industrial Dr	Carmel	Hamilton
Engineered Cooling Systems In	201 W Carmel Dr	Carmel	46032	3564	317-846-3438	201 W Carmel Dr	Carmel	Hamilton

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Facility Name	Mailing Address	Mailing City	Mail ZIP	Primary_SIC Code	Phone	Street Address	Street City	County
Express Graphics	620 S Range Line Rd	Carmel	46032	2672	317-580-9500	620 S Range Line Rd	Carmel	Hamilton
Express Manufacturing	1420 Chase Ct	Carmel	46032	3599	317-571-0990	1420 Chase Ct	Carmel	Hamilton
Fas-Weld Corp	1776 E 116th St	Carmel	46032	2844	317-844-7331	1776 E 116th St	Carmel	Hamilton
Federal Heath Sign LLC	11711 N College Ave # 143	Carmel	46032	3679	317-581-7790	11711 N College Ave # 143	Carmel	Hamilton
Field Rubber Products Inc	3211 Conner St	Noblesville	46060	2821	317-773-3787	3211 Conner St	Noblesville	Hamilton
Financialware Inc	12800 N Meridian St # 150	Carmel	46032	3578	317-816-2360	12800 N Meridian St # 150	Carmel	Hamilton
Firestone Building Products C	525 Congressional Blvd	Carmel	46032	2952	317-575-7000	525 Congressional Blvd	Carmel	Hamilton
Frame Decor	1368 S Range Line Rd	Carmel	46032	2499	317-848-3080	1368 S Range Line Rd	Carmel	Hamilton
Fullerton Inc	940 3rd Ave SW	Carmel	46032	2391	317-844-2357	940 3rd Ave SW	Carmel	Hamilton
Heat Recovery Systems Inc	505 Industrial Dr	Carmel	46032	3564	317-848-2745	505 Industrial Dr	Carmel	Hamilton
Hubs Chub Inc	2451 W 246th St	Sheridan	46069	3949	317-758-5494	2451 W 246th St	Sheridan	Hamilton
Indiana Seal	PO Box 780	Carmel	46082	3498	317-844-8700	1075 3rd Ave SW	Carmel	Hamilton
Info-Partners International	PO Box 427	Carmel	46082	2741	317-815-0401	9 Shore Cir	Carmel	Hamilton
Innovative Corp	833 W Carmel Dr	Carmel	46032	2434	317-846-2018	833 W Carmel Dr	Carmel	Hamilton
Integrator.com	8001 E 196th St	Noblesville	46060	3823	317-776-3500	8001 E 196th St	Noblesville	Hamilton
Iris Rubber Co Inc	PO Box 737	Cicero	46034	3069	317-984-3561	10 E Jackson St	Cicero	Hamilton
Jazz It Up Screen Printing	525 Industrial Dr	Carmel	46032	2396	317-574-0066	525 Industrial Dr	Carmel	Hamilton
Kauffman Products Inc	1092 3rd Ave SW	Carmel	46032	3469	317-574-9009	1092 3rd Ave SW	Carmel	Hamilton
Kwik Kopy Printing	12955 Old Meridian St # 103	Carmel	46032	2752	317-844-6629	12955 Old Meridian St # 103	Carmel	Hamilton
Laser Graphics Midwest	160 W Carmel Dr	Carmel	46032	2791	317-582-1969	160 W Carmel Dr	Carmel	Hamilton
Lasting Impressions Hot Stamp	620 S Range Line Rd # P	Carmel	46032	2789	317-846-3123	620 S Range Line Rd # P	Carmel	Hamilton
Lone Star Industries Inc	10401 N Meridian St # 400	Indianapolis	46290	3273	317-706-3300	10401 N Meridian St # 400	Indianapolis	Hamilton
Luisi Enterprises Inc	303 W Carmel Dr	Carmel	46032	2759	317-844-9171	303 W Carmel Dr	Carmel	Hamilton
Maco Press Inc	PO Box 329	Carmel	46082	2796	317-846-5567	560 3rd Ave SW	Carmel	Hamilton
Magnetic Concepts Corp	611 3rd Ave SW	Carmel	46032	3993	317-580-4020	611 3rd Ave SW	Carmel	Hamilton
Mecom Ltd	813 W Carmel Dr	Carmel	46032	3161	317-571-3898	813 W Carmel Dr	Carmel	Hamilton
Metal Powder Products Co	11595 N Meridian St # 510	Carmel	46032	3499	317-580-2420	11595 N Meridian St # 510	Carmel	Hamilton
Modular Devices Inc	503 W Carmel Dr	Carmel	46032	3845	317-818-4480	503 W Carmel Dr	Carmel	Hamilton
Moore Services Inc	12262 Hancock St	Carmel	46032	2761	317-571-9800	12262 Hancock St	Carmel	Hamilton
Moore's Country Wood Crafting	PO Box 389	Arcadia	46030	2499	317-984-3326	115-119 W Main St	Arcadia	Hamilton
Motorola Inc	12254 Hancock St	Carmel	46032	3674	317-571-0400	12254 Hancock St	Carmel	Hamilton
Nelson Impressions Inc	1363 Sumac Ct	Carmel	46033	2396	317-846-3444	1363 Sumac Ct	Carmel	Hamilton
Noble Industries Inc	PO Box 578	Noblesville	46061	3441	317-773-1926	3333 Conner St	Noblesville	Hamilton
Oehler's Woods	1481 W 136th St	Carmel	46032	2511	317-848-2698	1481 W 136th St	Carmel	Hamilton

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Omni Industries	1595 W 246th St	Sheridan	46069	3479	317-758-4512	1595 W 246th St	Sheridan	Hamilton
Paradigm Industries Inc	12236 Hancock St	Carmel	46032	2842	317-574-8590	12236 Hancock St	Carmel	Hamilton
Pennyroyal Papers & Publicati	1148 W 146th St	Westfield	46074	2731	317-846-7916	1148 W 146th St	Westfield	Hamilton
Perfecto Manufacturing Inc	PO Box 539	Noblesville	46061	3231	317-773-6627	20975 Creek Rd	Noblesville	Hamilton
Pillsbury Co	3077 E 98th St Ste 260	Indianapolis	46280	2041	317-580-1924	3077 E 98th St Ste 260	Indianapolis	Hamilton
Poyser Kelshaw Group LLC	4936 Regency Pl	Carmel	46033	3366	317-894-3915	4936 Regency Pl	Carmel	Hamilton
Preformance Publishing	409 Industrial Dr	Carmel	46032	2731	317-575-4255	409 Industrial Dr	Carmel	Hamilton
Qsp Printing Inc	162 W Carmel Dr	Carmel	46032	2752	317-846-6000	162 W Carmel Dr	Carmel	Hamilton
Quality Drapery Corp	3525A State Road 32 W	Westfield	46074	2391	317-896-2522	3525A State Road 32 W	Westfield	Hamilton
R W Pickett & Sons	1061 E 236th St	Sheridan	46069	2087	317-758-4331	1061 E 236th St	Sheridan	Hamilton
Reeder & Kline Machine Co Inc	340 1st Ave SW	Carmel	46032	3599	317-846-6591	340 1st Ave SW	Carmel	Hamilton
Regal Printing Inc	485 Gradle Dr	Carmel	46032	2752	317-844-1723	485 Gradle Dr	Carmel	Hamilton
RFC Franchising LLC	12400 N Meridian St # 190	Carmel	46032	2026	317-819-0700	12400 N Meridian St # 190	Carmel	Hamilton
Ritron Inc	PO Box 1998	Carmel	46082	3669	317-846-1201	505 W Carmel Dr	Carmel	Hamilton
Riverwood Stairsystems & Mill	14000 Olio Rd	Noblesville	46060	2431	317-773-9695	14000 Olio Rd	Noblesville	Hamilton
Rockwell Automation	600 E Carmel Dr # 200	Carmel	46032	3823	317-334-9592	600 E Carmel Dr # 200	Carmel	Hamilton
Rough Notes Co Inc	PO Box 1990	Carmel	46082	2731	317-582-1600	11690 Technology Dr	Carmel	Hamilton
SePRO Corp	11550 N Meridian St # 600	Carmel	46032	2879	317-580-8282	11550 N Meridian St # 600	Carmel	Hamilton
Shelf Tag Supply Corp	611 3rd Ave SW	Carmel	46032	2679	317-580-4030	611 3rd Ave SW	Carmel	Hamilton
Sheridan Manufacturing Co Inc	508 S Main St	Sheridan	46069	3599	317-758-6000	508 S Main St	Sheridan	Hamilton
Shi Ru Originals	3481 Sugar Loaf Ct	Carmel	46033	2335	317-848-1091	3481 Sugar Loaf Ct	Carmel	Hamilton
Signal Golf Inc	10988 Windjammer Trce	Indianapolis	46256	3949	317-577-9765	10988 Windjammer Trce	Indianapolis	Hamilton
Strawtown Pottery & Antiques	12738 Strawtown Ave	Noblesville	46060	3269	317-984-5080	12738 Strawtown Ave	Noblesville	Hamilton
Team Pride Custom Apparel Inc	PO Box 414	Arcadia	46030	2396	317-984-3242	103 W Main St	Arcadia	Hamilton
Telamon Corp	1000 E 116th St	Carmel	46032	3661	317-818-6888	1000 E 116th St	Carmel	Hamilton
Tiger Equipment Co	13211 Griffin Run	Carmel	46033	3549	317-844-2335	13211 Griffin Run	Carmel	Hamilton
T-Metal Works Inc	PO Box 1383	Carmel	46082	3444	317-848-2936	415 Industrial Dr	Carmel	Hamilton
Triple Crest Enterprises Inc	620 S Range Line Rd Ste N	Carmel	46032	2752	317-844-4449	620 S Range Line Rd Ste N	Carmel	Hamilton
UN Printing & Mailing Inc	1429 Chase Ct	Carmel	46032	2752	317-844-8622	1429 Chase Ct	Carmel	Hamilton
Uniform Hood Lace Inc	PO Box 364	Westfield	46074	2399	317-896-9555	18881 US Highway 31 N	Westfield	Hamilton
Vibcon Corp	PO Box 542	Arcadia	46030	3569	317-984-3543	6660 E 266th St	Arcadia	Hamilton
Violin Shop of Old Carmel	1001 W Main St	Carmel	46032	3931	317-876-1805	1001 W Main St	Carmel	Hamilton
Voege Precision Mch Pdts LLC	17808 Commerce Dr	Westfield	46074	3548	317-867-4699	17808 Commerce Dr	Westfield	Hamilton
W D M Group Inc	620 S Range Line Rd Ste J	Carmel	46032	2395	317-846-7157	620 S Range Line Rd Ste J	Carmel	Hamilton

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Facility Name	Mailing Address	Mailing City	Mail ZIP	Primary_SIC Code	Phone	Street Address	Street City	County
Weas Engineering Inc	PO Box 550	Westfield	46074	2899	317-867-4477	17819 Commerce Dr	Westfield	Hamilton
Westfield Manufacturing Corp	PO Box 773	Westfield	46074	3599	317-844-7991	15602 N Gray Rd	Westfield	Hamilton
Woods Industries Inc	510 3rd Ave SW	Carmel	46032	3699	317-844-7261	510 3rd Ave SW	Carmel	Hamilton
Young Enterprises Inc	12555 Lantern Rd	Fishers	46038	3089	317-849-7592	12555 Lantern Rd	Fishers	Hamilton

Appendix 1
Example Outfall Screening Checklist

Outfall #: _____ Receiving Water: _____
Date: _____ Time: _____ Air Temperature: _____ Sunny ___ Cloudy ___
Inspector: _____
Last Rainfall >= 0.10": _____
Land Use in Drainage Area: _____

Physical Observations

Flow rate: Trickle 1/4 Flow 1/2 Flow 3/4 Flow Full Flow
Discharge Color: none yellow brown green red gray other
Turbidity: none cloudy
Floatables: none petroleum sheen sewage other _____
Deposits/stains: none sediment oily other _____
Vegetation conditions: normal excessive growth inhibited growth
Damage to outfall structures: none cracking spalling peeling paint metal corrosion
Other damage: _____

Analyses

Parameter	Tested	Results	Equipment Used
Temperature (°C)			
pH			
Conductivity (uS/cm)			
E. coli (CFU/100mL)			

Comments:
