



United States Environmental Protection Agency

Stormwater Discharges from Developed Sites

Owner/Developer Long Questionnaire August 6, 2010 Final Version

Survey ID: _____

Please return the completed response no later than [\[date for returning questionnaire\]](#)

An Agency may not conduct or sponsor, and a person is not required to respond to, a collection of information, unless it displays a currently valid OMB control number.

The public reporting and recordkeeping burden for this collection of information is estimated to average 61 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460, and to EPA Clean Water Act Desk Officer, Office of Information and Regulatory Affairs, Office of Management and Budget, 725 17th Street, NW, Washington, DC 20503. Include the OMB control number in any correspondence. Do not send the completed questionnaire to this address.

General Information

Purpose of the Questionnaire

Stormwater discharges from developed land can negatively impact water quality through increases in stormwater volume and increased pollutant loads to the receiving waters. To strengthen its stormwater regulations, EPA's Office of Water (OW) is considering revisions to the current National Pollutant Discharge Elimination System (NPDES) regulations including the establishment of standards for the management of long term stormwater discharges from newly developed and redeveloped property.

To collect data to inform decisions regarding how the nation's stormwater regulations should be strengthened and to support the technical and financial feasibility analyses associated with this rulemaking, EPA is sending the following questionnaire to entities believed to be owners or operators of point source discharges that are involved with new construction, development and redevelopment of residential, non-residential, industrial, and commercial properties and transportation projects. The questionnaire is specifically directed toward owners/operators of projects that were required to obtain NPDES permit coverage for stormwater discharges, or that would have been required to do so save for a site-specific waiver by the permitting authority (see Question 3 below). This questionnaire will provide EPA with information to:

- Characterize current building and real estate improvement projects including type, location, and size;
- Characterize the prevalence and type of stormwater controls implemented by point source dischargers at new development and redevelopment sites to control long term stormwater discharges. These controls include, but are not limited to, practices that retain, manage or infiltrate stormwater onsite (commonly referred to as low impact development practices, or LID) and more traditional stormwater practices (such as ponds); and
- Characterize the operations and financial condition of businesses involved in construction, land development and redevelopment that could be subject to revised regulations.

Authority

EPA has the authority to administer this questionnaire under section 308 of the Clean Water Act, which provides that EPA may, "require the owner or operator of any point source to (i) establish and maintain such records, (ii) make such reports, ... , and (v) provide such other information" as may be reasonably required to carry out the objectives of the Clean Water Act (Federal Water Pollution Control Act, 33 U.S.C. Section 1318). Participation in this questionnaire is mandatory for owners and operators of point sources, and you are required to respond. (If you are not the owner or operator of a point source, Question 3 in Section A gives you the opportunity to opt out of completing the questionnaire.) You must retain a copy of the completed questionnaire for your files. EPA may contact you with follow-up questions to clarify your answers. Late filing of the questionnaire, or failure to follow any related EPA instruction, may result in civil penalties or other sanctions provided by law as explained in Section 308 of the Clean Water Act (33 U.S.C., Section 1318).

When to Complete the Questionnaire

The response to this questionnaire must be received by EPA no more than 60 calendar days after receiving it.

If you wish to request an extension, you must do so in writing no later than one week prior to the due date of this questionnaire. Written requests may be e-mailed to Ms. Jan Matuszko at matuszko.jan@epa.gov. **Submittal of an extension request does not alter the due date of your questionnaire unless and until EPA agrees to the extension and establishes a new date. EPA will respond to all timely requests for extensions before the due date.**

Where to Return the Questionnaire

After completing the questionnaire and certifying the information that it contains, use the enclosed mailing label to mail the completed questionnaire to:

U.S. Environmental Protection Agency
Stormwater Owner/Developer Long Questionnaire
c/o Eastern Research Group, Inc.
14555 Avion Parkway, Suite 200
Chantilly, VA 20151

Certification Statement

The individual responsible for directing or supervising the preparation of the questionnaire must read and sign the Certification Statement printed below. The certifying official must be a responsible corporate official or his/her authorized representative. The signed certification must be returned with the completed survey.

Where to Get Help

If you have any questions regarding completion of this questionnaire EPA prefers you request assistance using EPA's e-mail helpline provided below.

E-mail address for help line:

Please include the name of the survey to which you are responding, the question number along with your questions. Respondents who desire assistance by telephone should send an e-mail with "Please Call Me" in the subject line. Please provide the call-back phone number, contact name, and desired day and time to call. The return phone call will be free of charge to the respondent. For pressing questions that require a more immediate response, please call .

Confidential Business Information

Regulations governing the confidentiality of business information are contained in the Code of Federal Regulations (CFR) at Title 40 Part 2, Subpart B. You may assert a business confidentiality claim covering part or all of the information you submit. Information that is publicly available should not be claimed confidential, as described in 40 CFR 2.203(b):

"(b) Method and time of asserting business confidentiality claim. A business which is submitting information to EPA may assert a business confidentiality claim covering the information by

placing on (or attaching to) the information, at the time it is submitted to EPA, a cover sheet, stamped or typed legend, or other suitable form of notice complying language such as ‘trade secret,’ ‘proprietary,’ or ‘company confidential.’ Allegedly confidential portions of otherwise nonconfidential documents should be clearly identified by your business, and may be submitted separately to facilitate identification and handling by EPA. If your business desires confidential treatment only until a certain date or until the occurrence of a certain event, the notice should so state.”

To facilitate claims of business confidentiality, we have provided Confidential Business Information (CBI) check boxes beside each question for which a claim of confidentiality may be made. You may claim as confidential all information included in the response to a question by checking the CBI box next to the question number. Note that you may be asked to justify any claim of confidentiality at a later time, for example if someone requests access to your data. Note also that information claimed confidential cannot be accessed or used by public commenters to evaluate data and analyses supporting the proposed regulations.

Information covered by a claim of confidentiality will be disclosed by EPA only to the extent of, and by means of, the procedures set forth in 40 CFR Part 2, Subpart B. In general, submitted information protected by a business confidentiality claim may be disclosed to other employees, officers, or authorized representatives of the United States concerned with implementing the Clean Water Act. The authorized representatives include employees of other executive branch agencies, who may review CBI during the course of reviewing draft regulations.

Information covered by a claim of confidentiality will be made available to EPA contractors to enable the contractors to perform the work required by their contracts with EPA. All EPA contracts provide that contractor employees use the information only for the purpose of performing the work required by their contracts and will not disclose any CBI to anyone other than EPA without prior written approval from each affected business or from EPA's legal office.

If no business confidentiality claim accompanies the information when it is received by EPA, EPA may make the information available to the public without further notice.

Detailed Instructions for Completing the Questionnaire

Complete the questionnaire considering the following instructions:

- Personnel most knowledgeable about the subject areas covered by a specific section should complete that section of the questionnaire.
- For all questions and sections, read all instructions and definitions carefully. Pay particular attention to the distinction between a business branch and parent company.
- Do not leave any entry blank. If the answer is zero, write “0” or “zero”. If a question is not applicable, write “NA.” See instructions below if data to answer a question is not readily available.
- Answer all of the questions in sequence unless you are directed to SKIP forward in the questionnaire. This is important since some questions and/or sections are only applicable to some respondents.
- Where practical, please use the units specified when responding to questions requesting measurement data (e.g., acres); this will facilitate EPA processing of the completed questionnaires and promote data accuracy. If you keep records in different units from those requested and conversion is not practical, or if units are not specified in the questions, **PLEASE BE SURE TO INCLUDE THE UNITS IN YOUR RESPONSE.**
- The period of interest for the questionnaire is calendar years 2005-2009 unless indicated otherwise.
- **Provide the requested information based on data you currently have readily available. EPA is not requesting or recommending that respondents collect new data to provide information for this questionnaire. However, you may need to contact other businesses establishments that you hired, such as engineering or architectural firms that prepared plans or designs for projects undertaken by your business, in order to answer some of the questions. You do not need to obtain data from other parties except where that data was specifically prepared on your behalf.**
- **Some questions ask for approximations or estimations because EPA realizes you may not have data readily available to provide an exact response. For these questions, EPA is requesting you provide a response if you can make a reasonable estimate. If you are not able to provide an estimate, respond “Don’t Know.”**

Glossary of Terms

Term	Definition
Alteration	Changes to existing structures that <i>do not</i> result in the replacement of the existing structure or a change in the project footprint.
Addition	For purposes of this questionnaire, a change to an existing land parcel that does not increase the footprint of the structure, parking areas or other impervious surfaces by more than 5,000 square feet.
Commercial/Institutional	A project that includes structures intended for use by retail, wholesale, office, hotel, or other service-providing facilities/businesses, including Federal, State, and local government facilities.
Builder	A person, business, or partnership that builds houses or other structures on properties they own during the building construction phase of the project. The builder may have also been the developer during the earlier project phases, or they may have purchased unfinished lots after the development phase has been completed. This definition does not include businesses that only build houses or other structures on a contractual basis and do not take ownership of the lots they build on.
Building Construction Phase	The third of three project phases, following Land Acquisition and Land Development (see below). Construction of standing structure(s) occurs during this phase. Costs incurred during this phase can be divided into “hard costs” for activities like framing, plumbing, and electrical work and “soft costs” such as legal or marketing activities.
Business	A business is an on-going and legally recognized commercial organization that provides goods and/or services to consumers. For the purpose of this survey, businesses may be understood to typically operate in a single location or area of operation, such as a metropolitan area. Businesses may undertake a business venture (such as a construction project) on their own or in a partnership with other businesses. Businesses are distinct from these business ventures in that the businesses are ongoing entities and do not end after the venture, such as a construction project, has been completed.
Developer	A person, business, or partnership that controls project design and/or land development activities associated with a project. The developer may make improvements to land parcel(s) owned by the developer or on behalf of a separate owner-entity (e.g., the developer may be the land owner’s agent). The developer is typically associated with the land acquisition and land development phases, but may also act as a builder in the building

	construction phase. This definition does not include businesses that only build houses on a contractual basis.
Disturbed Land	Area of land within a project where soil is disturbed due to activities such as clearing and grubbing, mass grading, site preparation (i.e., excavating, cutting and filling) and final grading with the intention of installing buildings, roads, parking lots or other structures or making other improvements to the landscape. Land disturbance typically begins during the second phase of development and is completed during the final phase.
Final Project Value	The value of the project at the time of completion.(See Project Completion) This value could be the project’s sales value or the recorded asset value of the project when it has been completed. Final project value does not include the expected value of any construction that was initially planned but never completed.
Financial Stake	An individual business is said to have a financial stake in a project if the business’s earnings from that project depend on the financial performance of the project overall (i.e., project net income), even though the business may not be defined legally as a project owner. Owners, by definition, have a financial stake in projects they own. Developers, as defined above, might have a financial stake in a project if they have entered into a partnership or agreement with the owner that bases at least part of their earnings on the project’s financial performance. General contractors, contractual builders, and subcontractors typically do not have a financial stake in the project performance overall.
Heavy and Civil Engineering Construction	Heavy and civil engineering construction projects (excluding highway, road, bridge, and distribution line construction) include the following types of projects: <ul style="list-style-type: none"> • mass transit (train, subway, monorail, street car, etc.) • outdoor recreation (golf course, parks play grounds, sports field, outdoor ice rinks, etc.) • marine structures (harbors, ports, piers, docks, canals, etc.) • dams (dams, berms, levees, dikes, etc.) • hydroelectric generating facility construction
Impervious Surface	Low-permeability materials that include, but are not limited to, roads, rooftops, walkways, patios, driveways, parking lots or storage areas, concrete or asphalt paving, or other surfaces which similarly impede infiltration of storm water.
Industrial	A project that includes structures designed for industrial purposes including producing, processing, or assembling goods (for example, manufacturing, agricultural, and mining structures).
Land Acquisition Phase	The first of three project phases, preceding Land Development

	and Building Construction. In this stage, financing is assembled to purchase raw, vacant, un-zoned land parcel(s). This phase may also include initial project design and planning elements using, e.g., architectural services. For redevelopment projects the land has previously been developed and zoned. However, the property may need to be rezoned for a new purpose, and the project will require designing and planning as well.
Land Development Phase	The second of three project phases, following Land Acquisition and preceding Building Construction. During this phase, raw land is converted into permitted, buildable lot(s). This phase typically requires designing, planning, site approvals, hearings, etc. This process can take months to years, and can involve dividing the initial parcel into multiple parcels, often referred to as land subdivision. Costs incurred during this phase may include “soft” costs for architectural and engineering services, legal work, permits, fees, and testing; and “hard” costs, such as land clearing, installing utilities and roads, and preparing foundations or pads.
Land Subdivision	<p>The act of dividing a parcel of land into smaller parcels that is easier to sell or otherwise develop. Land subdivision often includes site-improvement activities, such as road building and utility line installation.</p> <p>Land subdivision most often refers to the dividing of the land for a single-family residential project into individual parcels or “plats”. These residential projects are often referred to as “residential subdivisions”. However, very large tracts of land can be subdivided into multiple tracts which are then developed separately as individual projects. For example, an owner/developer divides a single tract into three separate tracts. They develop a residential project on one, an office park on another, and sell the third tract to a different developer who develops their own residential project on a completely independent time schedule.</p>
Mixed Use Project	A project that is intended for more than one land use category. For example, a project that includes both Single-Family Housing and Multi-Family housing, or a project including Commercial and Industrial properties.
Multi-Family Residential	A project where multiple separate housing units for residential occupancy are or will be contained within one building; also known as multi-dwelling unit. Does not include attached single-family homes, such as townhouses.
NAICS 236115, New Single-Family Housing Construction (except Operative Builders)	Small Business Administration (SBA) small business definition cut-off: \$33.5 million annual revenue. This U.S. industry comprises general contractor establishments primarily responsible for the entire construction of new single-family housing, such as single-family detached houses and town houses or row houses

	<p>where each housing unit (1) is separated from its neighbors by a ground-to-roof wall and (2) has no housing units constructed above or below. This industry includes general contractors responsible for the on-site assembly of modular and prefabricated houses. Single-family housing design-build firms and single-family construction management firms acting as general contractors are included in this industry.</p>
<p>NAICS 236116, New Multi-Family Housing Construction (except Operative Builders)</p>	<p>SBA small business definition cut-off: \$33.5 million annual revenue. This U.S. industry comprises general contractor establishments responsible for the construction of new multifamily residential housing units (e.g., high-rise, garden, and town house apartments and condominiums where each unit is not separated from its neighbors by a ground-to-roof wall). Multifamily design-build firms and multifamily housing construction management firms acting as general contractors are included in this industry.</p>
<p>NAICS 236117, New Housing Operative Builders</p>	<p>SBA small business definition cut-off: \$33.5 million annual revenue. This U.S. industry comprises operative builders primarily responsible for the entire construction of new houses and other residential buildings, single-family and multifamily, on their own account for sale. Operative builders are also known as speculative or merchant builders.</p>
<p>NAICS 236210, Industrial Building Construction</p>	<p>SBA small business definition cut-off: \$33.5 million annual revenue. This industry comprises establishments primarily responsible for the construction (including new work, additions, alterations, maintenance, and repairs) of industrial buildings (except warehouses). The construction of selected additional structures, whose production processes are similar to those for industrial buildings (e.g., incinerators, cement plants, blast furnaces, and similar nonbuilding structures), is included in this industry. Included in this industry are industrial building general contractors, industrial building operative builders, industrial building design-build firms, and industrial building construction management firms.</p>
<p>NAICS 236220, Commercial Building Construction</p>	<p>SBA small business definition cut-off: \$33.5 million annual revenue. This industry comprises establishments primarily responsible for the construction (including new work, additions, alterations, maintenance, and repairs) of commercial and institutional buildings and related structures, such as stadiums, grain elevators, and indoor swimming pools. This industry includes establishments responsible for the on-site assembly of modular or prefabricated commercial and institutional buildings. Included in this industry are commercial and institutional building general contractors, commercial and institutional building operative builders, commercial and institutional building design-build firms, and commercial and institutional building project</p>

	construction management firms.
NAICS 237210, Land Subdivision	SBA business definition cut-off: \$7.0 million annual revenue. This industry comprises establishments primarily engaged in servicing land and subdividing real property into lots, for subsequent sale to builders. Servicing of land may include excavation work for the installation of roads and utility lines. The extent of work may vary from project to project. Land subdivision precedes building activity and the subsequent building is often residential, but may also be commercial tracts and industrial parks. These establishments may do all the work themselves or subcontract the work to others. Establishments that perform only the legal subdivision of land are not included in this industry.
NAICS 237310, Highway, Street, and Bridge Construction	SBA small business definition cut-off: \$33.5 million annual revenue. This industry comprises establishments primarily engaged in the construction of highways (including elevated), streets, roads, airport runways, public sidewalks, or bridges. The work performed may include new work, reconstruction, rehabilitation, and repairs. Specialty trade contractors are included in this group if they are engaged in activities primarily related to highway, street, and bridge construction (e.g., installing guardrails on highways).
NAICS 237990, Other Heavy and Civil Engineering Construction	SBA small business definition cut-off: \$33.5 million annual revenue. This industry comprises establishments primarily engaged in heavy and engineering construction projects (excluding highway, street, bridge, and distribution line construction). The work performed may include new work, reconstruction, rehabilitation, and repairs. Specialty trade contractors are included in this group if they are engaged in activities primarily related to engineering construction projects (excluding highway, street, bridge, distribution line, oil and gas structure, and utilities building and structure construction within NAICS categories 237110, 237120, 237130 and 237310). Construction projects involving water resources (e.g., dredging and land drainage), development of marine facilities, and projects involving open space improvement (e.g., parks and trails) are included in this industry.
NAICS 237110, Water and Sewer Line and Related Structures Construction	SBA small business definition cut-off: \$33.5 million annual revenue. This industry comprises establishments primarily engaged in the construction of water and sewer lines, mains, pumping stations, treatment plants, and storage tanks. The work performed may include new work, reconstruction, rehabilitation, and repairs. Specialty trade contractors are included in this group if they are engaged in activities primarily related to water, sewer line, and related structures construction. All structures (including buildings) that are integral parts of water and sewer networks (e.g., storage tanks, pumping stations, water treatment plants, and

	sewage treatment plants) are included in this industry.
NAICS 237120, Oil and Gas Pipeline and Related Structures Construction	SBA small business definition cut-off: \$33.5 million annual revenue. This industry comprises establishments primarily engaged in the construction of oil and gas lines, mains, refineries, and storage tanks. The work performed may include new work, reconstruction, rehabilitation, and repairs. Specialty trade contractors are included in this group if they are engaged in activities primarily related to oil and gas pipeline and related structures construction. All structures (including buildings) that are integral parts of oil and gas networks (e.g., storage tanks, pumping stations, and refineries) are included in this industry.
NAICS 237130, Power and Communication Line and Related Structures Construction	SBA small business definition cut-off: \$33.5 million annual revenue. This industry comprises establishments primarily engaged in the construction of power lines and towers, power plants, and radio, television, and telecommunications transmitting/receiving towers. The work performed may include new work, reconstruction, rehabilitation, and repairs. Specialty trade contractors are included in this group if they are engaged in activities primarily related to power and communication line and related structures construction. All structures (including buildings) that are integral parts of power and communication networks (e.g., transmitting towers, substations, and power plants) are included.
NAICS 531110, Lessors of Residential Buildings and Dwellings	SBA small business definition cut-off: \$7.0 million annual revenue. This industry comprises establishments primarily engaged in acting as lessors of buildings used as residences or dwellings, such as single-family homes, apartment buildings, and town homes. Included in this industry are owner-lessors and establishments renting real estate and then acting as lessors in subleasing it to others. The establishments in this industry may manage the property themselves or have another establishment manage it for them.
NAICS 531120, Lessors of Nonresidential Buildings (except Miniwarehouses)	SBA small business definition cut-off: \$7.0 million annual revenue. This industry comprises establishments primarily engaged in acting as lessors of buildings (except miniwarehouses and self-storage units) that are not used as residences or dwellings. Included in this industry are: (1) owner-lessors of nonresidential buildings; (2) establishments renting real estate and then acting as lessors in subleasing it to others; and (3) establishments providing full service office space, whether on a lease or service contract basis. The establishments in this industry may manage the property themselves or have another establishment manage it for them.
New Development	Development that occurs or occurred on land where generally no or minimal structures or other impervious surfaces, such as

	buildings, parking lots, and roads exist. New development includes development that occurs on agricultural, forested, and open/barren land. This is commonly referred to as Greenfield development.
Owner	The firm, individual, or institutions for which the construction project is/was undertaken. Projects may have multiple owners, and ownership of part or all of the project may change as the project transitions from one phase to the next. The owner may also act as the developer for a project, or may hire or partner with a separate developer. Businesses that purchase unfinished lots and build upon them are also considered to be owners.
Ultimate Parent Company	A business organization that owns more than 50 % of one or more other domestic businesses, and is not a subsidiary to another domestic business organization. Subsidiary business organizations to the ultimate parent can include “headquarters” business organizations. A “headquarters” is a business that has branches or divisions reporting to it. For this survey, these branch or division locations would be Businesses, as defined above. Branches or divisions can also report directly to the Ultimate Parent Company. In this case, the Ultimate Parent Company is also a headquarters organization. The Ultimate Parent Company typically resides in a different physical locations than their subsidiary headquarters, or division/branch locations.
Participation	Participation in a project refers to being either an owner, developer, or builder for a project. The business can be the sole participant or they can be in a partnership with other businesses. This does not include work as a contractual builder.
Project	New development or redevelopment of buildings or other real estate improvements on a site, which may be undertaken by a single business or partnership/team of businesses. A project generally consists of three phases: Land Acquisition, Land Development, and Building Construction. It is possible that each business or partnership actively involved in a project might only control one or two of these three project phases, while another entity or partnership may control the other project phase(s). A single land parcel may include multiple projects. For example, under a common plan of development, a large parcel of land may be developed in several separate projects often referred to as residential subdivisions. Each subdivision in this configuration would be considered an individual project.
Project Completion	For the purpose of this survey, a project can be considered completed when building construction has stopped and no additional building construction on the site is scheduled to begin within a year of construction ending. This definition is meant to include as “complete” those projects where construction ceases

	for a substantial period prior to all of the initially planned buildings have been completed. For example, suppose 75 housing units are constructed within a planned 100-unit residential subdivision, but the construction of the remaining 25 units is deferred due to changing market conditions. This project would be considered complete for the purposes of this survey if construction is not expected to resume within one year of the stoppage of active construction activity.
Remodeling	Remodeling refers to alterations to the interior of a structure, and does not involve the installation of any new impervious surface.
Redevelopment	Development of sites where existing structures or impervious surfaces are replaced with new structures and impervious areas. For example, removing an existing warehouse to build a multi-family housing building on the same site would fall within the definition of redevelopment. Redevelopment also includes additions to existing structures and/or impervious areas that result in more than 5,000 square feet of new impervious surface.
Single-Family Residential	A project in which housing units are built for occupancy by only one family. This includes both attached and detached single-family homes.
Post Construction Stormwater Controls and Practices	Practices/Controls that are installed and maintained to control post construction stormwater discharges.
Transportation	A project that includes uses such as highways, roads, and bridges. Transportation does not include the construction of streets that are within a larger plan of development, such as a single-family residential project.
Utility	A project that includes uses such as water and/or gas pipelines, sewer lines, or electricity transmission lines.

Glossary of Stormwater Control Terms

Term	Definition
Bioretention	A stormwater management practice that consists of an excavated area that is filled with a mixture of soil and organic matter and that is planted with vegetation that is tolerant of inundation and saturated soil conditions. Bioretention includes rain gardens, sidewalk planters, curb extensions and other plant or soil systems designed to filter, infiltrate or evapotranspire stormwater.
Cistern	Large storage devices that are often built below ground, at ground level, or on rooftops, for storing captured stormwater and can be integrated with more sophisticated pumping devices. For example, some cisterns collect stormwater that is subsequently used for non-potable plumbing, such as flushing of toilets, or irrigation applications.
Constructed Wetlands	A man-made basin or channel that typically contains water, a substrate (soil, gravel, rock, organic materials, etc.) and plants (vascular and non-vascular), similar to those usually found in natural wetlands and is used to treat stormwater runoff.
Detention Basin	Practice which hold stormwater temporarily and discharge the stormwater over an extended period of time (hours to days) generally by controlling the size of the discharge volume and flow rate. A detention basin may have a permanent pool of water (wet detention) or may empty completely between storm events (dry detention).
Green Roof	A vegetative system installed on top of and in addition to the traditional roof system. A green roof includes engineered soil layers (e.g., a waterproof membrane, drainage, high inorganic growing media), and appropriate plant species. Green roofs reduce surface runoff from the rooftop by absorbing stormwater and slowing stormwater flow rates, and provide ancillary benefits such as summer cooling, lowered urban heat island effect, and improved air quality.
Infiltration Basin/Trench	A shallow rock-filled trench, basin or depression intended to infiltrate stormwater into the underlying soil.
Low Impact Development (LID)	Development that is designed to be hydrologically functional by mimicking pre-development hydrology or hydraulic conditions. This is achieved by using design techniques that infiltrate, filter, evaporate, and store runoff close to its source (e.g. bioretention, rain gardens, cisterns, green roofs).
Manufactured Device	Manufactured devices include a variety of proprietary and non-proprietary stormwater management practices that are available from various suppliers and vendors and are designed to remove

	pollutants through a combination of filtration, gravity separation, flotation and hydrodynamic processes. Examples include catch basin inserts, filtration units, vaults and separators.
Media Filter	Filters that stormwater passes through for removal of solids. Filters can be made out of sand, peat, or other suitable material.
Pervious Paving	Pavement composed of a permeable pavement material, which allows distributed infiltration into a sub-base or the underlying soil. There may also be an underlying stone reservoir that temporarily stores the surface runoff before it infiltrates into the underlying soil. Examples include; porous asphalt, permeable concrete, and permeable modular block pavers
Retention Basin	A retention basin is an impoundment that is designed to retain stormwater on-site and generally does not discharge stormwater except during very large storm events.
Retention Practices	Stormwater techniques that manage stormwater on-site through infiltration, evapotranspiration or harvesting.
Swale	A swale, sometimes called a biofilter, is a grass-lined channel that is designed to convey stormwater in shallow flow. Pollutant removal is accomplished through filtration through the vegetation and swales are frequently designed to allow for infiltration of stormwater.
Tree Box	Stormwater controls that direct stormwater discharges to a treebox, where it can be filtered by the soil and vegetation. Some tree boxes may drain to a pipe below, which conveys stormwater to the selected collection system.
Underground Detention	Underground vaults, storage cells, or water piping systems used for stormwater flow rate and volume control. This is an alternative to storage above ground (e.g., pond).
Underground Infiltration	Underground infiltration includes a variety of proprietary and non-proprietary practices that are usually placed under parking lots and streets that temporarily store and infiltrate stormwater. Common materials include corrugated metal pipe, pre-cast concrete and polyvinyl chloride (PVC).
Water Body	For purposes of this survey, any natural surface water such as a stream, river, lake, estuary, bay or ocean. This includes both perennial streams and intermittent streams.

General Information

1. Provide contact information for your business.

Business's Full Legal Name

Address

Phone/Fax Number

Email

2. Provide contact information for the person to whom EPA should direct follow up calls concerning your responses to this questionnaire if necessary.

Name

Email

Title

Best Time to Contact

Phone/Fax Number

This questionnaire will ask a series of questions about your business operations and the projects in which your business participated during 2005 – 2009. Prior to completing the questionnaire, please carefully review the Glossary of Terms for applicable definitions. You may wish to refer back to the Glossary as you answer individual questions.

Business Activity Criteria

The next four questions are meant to determine if your business performs work that is relevant for this survey. Please read each one carefully before answering and refer to the glossary of terms as needed.

3. During calendar years 2005-2009 was your business an owner or operator of at least one construction project that (1) disturbed 1 or more acres of land, or (2) disturbed less than one acre of land that was a part of a larger common plan of development or sale that disturbed one or more acres of land, or (3) was covered by a local or state NPDES permit for construction site stormwater discharge? *(Note: Projects meeting criteria 1 and 2 are required to obtain NPDES permit coverage for stormwater discharges, or would be required to do so in the absence of a project specific waiver. See 40 CFR 122.26(b)(14)(x) and 40 CFR 122.26(b)(15). Criterion 3 addresses projects required to obtain NPDES stormwater permit coverage under potentially more stringent state and local criteria.)*

Yes

No *(In this case, you have completed the survey. Thank you for your input. Sign the certification statement on page 39 and return to the address indicated on page 3.)*

4. During calendar years 2005 – 2009, indicate if your business engaged in any of the following activities (check all that apply):

Land Development (including land subdivision)

Single-Family Residential Construction

New Multifamily Residential Construction

Commercial and Institutional Construction

Transportation (Highway, Road, or Bridge) Construction

Industrial Construction

Pipelines (e.g., water, sewer, oil or gas) *(If this is the only type of construction activity your business engaged in during calendar years 2005 – 2009, you have completed the survey. Thank you for your input. Sign the certification statement on page 39 and return to the address indicated on page 3.)*

Underground or Overhead Utilities (e.g., telecommunications, electric transmission cables) *(If this is the only type of construction activity your business engaged in during calendar years 2005 – 2009, you have completed the survey. Thank you for your input. Sign the certification statement on page 39 and return to the address indicated on page 3.)*

Other Construction Not Identified Above (specify _____) *(If this is the only type of construction activity your business engaged in during calendar years 2005 – 2009, please contact EPA (See where to get help section on page 3) before proceeding with the remainder of this questionnaire.)*

My business did not engage in any construction or land development during calendar years 2005-2009 *(In this case, you have completed the survey. Thank you for your input. Sign the certification statement on page 39 and return to the address indicated on page 3.)*

5. During calendar years 2005 – 2009, was your business an owner, developer, or builder of at least one project during either its land development phase or its building construction phase (either as the sole responsible party or as a participant in a joint venture or other multiple party structure)?

Yes

No *(In this case, you have completed the survey. Thank you for your input. Sign the certification statement on page 39 and return to the address indicated on page 3.)*

6. During calendar years 2005 – 2009, was your business an owner, developer, or builder of at least one project during either its land development phase or its building construction phase (either as the sole responsible party or as a participant in a joint venture or other multiple party structure) that resulted in the installation of 5,000 square feet or more of new impervious surfaces (roads, roofs, parking lots, etc.)?

Yes

No *(In this case, you have completed the survey. Thank you for your input. Sign the certification statement on page 39 and return to the address indicated on page 3.)*

Business Financial Information

7. Many of the following questions will ask for information for each year that you were in business during 2005 – 2009. Unless specified otherwise, EPA is requesting information for calendar years 2005-2009. However, for the **financial questions** only (e.g., revenue, project value), you may respond for the calendar year or your business’s fiscal year. Please indicate whether you are reporting **financial** information for the calendar year or fiscal year by checking one box below.

- Calendar year (Skip to Question 8)
- Fiscal year

If you checked “Fiscal Year”, please indicate the first month of your business’s fiscal year.

<input type="checkbox"/> January	<input type="checkbox"/> July
<input type="checkbox"/> February	<input type="checkbox"/> August
<input type="checkbox"/> March	<input type="checkbox"/> September
<input type="checkbox"/> April	<input type="checkbox"/> October
<input type="checkbox"/> May	<input type="checkbox"/> November
<input type="checkbox"/> June	<input type="checkbox"/> December

8. Indicate the state(s)/territories where your business has participated in projects at any time during calendar year 2005 through 2009 (check all that apply).

<input type="checkbox"/> AL	<input type="checkbox"/> CO	<input type="checkbox"/> GA	<input type="checkbox"/> IN	<input type="checkbox"/> MD	<input type="checkbox"/> MO	<input type="checkbox"/> NC	<input type="checkbox"/> NY	<input type="checkbox"/> RI	<input type="checkbox"/> VA
<input type="checkbox"/> AK	<input type="checkbox"/> CT	<input type="checkbox"/> HI	<input type="checkbox"/> KS	<input type="checkbox"/> ME	<input type="checkbox"/> MT	<input type="checkbox"/> ND	<input type="checkbox"/> OH	<input type="checkbox"/> SD	<input type="checkbox"/> VT
<input type="checkbox"/> AR	<input type="checkbox"/> DE	<input type="checkbox"/> IA	<input type="checkbox"/> KY	<input type="checkbox"/> MI	<input type="checkbox"/> NM	<input type="checkbox"/> NH	<input type="checkbox"/> OK	<input type="checkbox"/> TN	<input type="checkbox"/> WA
<input type="checkbox"/> AZ	<input type="checkbox"/> DC	<input type="checkbox"/> ID	<input type="checkbox"/> LA	<input type="checkbox"/> MN	<input type="checkbox"/> SC	<input type="checkbox"/> NJ	<input type="checkbox"/> OR	<input type="checkbox"/> TX	<input type="checkbox"/> WI
<input type="checkbox"/> CA	<input type="checkbox"/> FL	<input type="checkbox"/> IL	<input type="checkbox"/> MA	<input type="checkbox"/> MS	<input type="checkbox"/> NE	<input type="checkbox"/> NV	<input type="checkbox"/> PA	<input type="checkbox"/> UT	<input type="checkbox"/> WV
					<input type="checkbox"/> Puerto Rico	<input type="checkbox"/> Other U.S. Territory (specify): _____			<input type="checkbox"/> WY

9. Is your business publicly traded?

- Yes
- No

10. Indicate the type of business organization.

- Sole proprietorship
- Partnership
- Corporation (standard, “C” corporation)
- Subchapter S Corporation
- Limited Liability Corporation

Other: _____

11. CBI. What is your business's primary source of revenue (check only one answer)?

- Single-family Residential Construction
- Multi-family Residential Construction
- Commercial/ Institutional Construction
- Industrial Construction
- Transportation Construction (Highway, Street, or Bridge)
- Heavy and Civil Engineering Construction
- Land Development (including land subdivision)
- Renting or Leasing Real Estate
- Other

Project Information: Part 1 Summary Project Information

Questions 12-16 gather basic information on projects that your business completed in which you had a *financial* stake during calendar years 2005-2009. A financial stake includes owning all or a portion of the project during the development phase, the building construction phase, or both phases. Businesses that are not owners, but whose earning from the project depend on the financial performance of the project overall (i.e., project net income) are considered to have a financial stake in the project, as well. This does not include contractual work for a fixed price, independent of the projects financial performance. Your business is considered to have completed a project if you completed your portion of the project, even if your portion was part of a larger project that was not fully completed during the 2005-2009 timeframe.

If your business did not have a financial stake in any projects during this time period, check the box below and skip to Question 17.

- Did not have a financial stake in any projects in 2005-2009 (Skip to Question 17)

12. CBI. Complete the table below with your business's annual revenue allocated into two categories for each year from 2005 through 2009:

- **Revenue from Project Sales and Leases.** Sales and lease revenue your business received from projects completed between 2005 and 2009 that resulted in the installation of 5,000 square feet or more of new impervious surfaces, and in which your business had a financial stake. (Note exclusions under All Other Revenue below.) Business ownership includes owning all or a portion of the project during the development phase, the building construction phase, or both phases. If your business continues to own and occupy all or a portion of the project after its completion, only provide the revenues from those portions of the project that were sold or leased after completion.
- **All Other Revenue.** All revenue earned by your business in the indicated year that is not counted in the above category. This would include:
 - revenue from sources not related to construction or development activity,
 - revenue from projects in which your business did not have a financial stake,
 - revenue from leasing properties that your business completed prior to 2005,

- revenue from projects that resulted in less than 5,000 square feet of new impervious surface (including alteration or remodeling work on an existing structure and projects where disturbed land was reclaimed such as pipelines, underground utilities, or overhead utility projects).
- **Total Revenue.** Your business's total annual revenue in the indicated year. **Revenue from Project Sales and Leases** as well as **All Other Revenue** should sum to the **Total Revenue** value.

Business Revenue (dollars; may round to nearest thousand)					
Year					
Revenue Type	2005	2006	2007	2008	2009
Revenue from Project Sales and Leases					
All Other Revenue					
Total Revenue					

13 CBI. How many new development and redevelopment projects did your business complete in which you had a financial stake during 2005 through 2009? These are the same group of projects associated with the first row of Question 12 above, but divided by new development vs. redevelopment. Please enter a zero if you did not complete any projects during that year.

Number of Projects					
Type of Project	Year				
	2005	2006	2007	2008	2009
New Development					
Redevelopment					

14. CBI. How many for-sale and for-lease projects did your business complete in which your business had a financial stake during 2005 through 2009? These are the projects associated with the first row of Question 12 above, but divided by sale vs. lease. Please enter a zero if you did not complete any projects during that year.

Number of Projects					
Type of Project	Year				
	2005	2006	2007	2008	2009
For Sale					
For Lease					

15. CBI. How many different project types listed in the table below did your business complete in which you had a financial stake during 2005 through 2009? These are the same group of projects associated with the first row of Question 12 above, but divided by project type. Please enter a zero if you did not complete any during that year.

Number of Projects					
Type of Project	Year				
	2005	2006	2007	2008	2009
Single-Family Residential					
Multi-Family Residential					
Commercial/ Institutional					
Industrial					
Transportation (Including Road and Highway)					
Mixed Residential (single-family and multi-family)					
Mixed Residential and Commercial/Institutional					
Mixed Commercial/Institutional and Industrial					
Other Mixed Use					
Other Project Types					

16. CBI. Fill out the following table indicating the total number of projects your business completed during calendar years 2005-2009 in which your business had a financial stake. These are the same group of projects associated with the first row of Question 12 above, broken out by the indicated size and type categories (and not by year).

Number of Projects Completed in Calendar Years 2005 – 2009						
Type of Project	Project Size Ranges (Size below refers to total site size)					
	Less than 1 Acre	1 – 9.9 Acres	10 – 24.9 Acres	25 – 49.9 Acres	>50 – 99.9 Acres	100 Acres or More
Single-Family Residential Only						
Multi-Family Residential Only						
Commercial/ Institutional						
Industrial						
Transportation (Including Road and Highway)						
Mixed Residential (single-family and multi-family)						
Mixed Residential and Commercial/Institutional						
Mixed Commercial/Institutional and Industrial						
Other Mixed Use						
Other Project Types						
Total						

The next two questions (Questions 17-18) gather additional information on projects that your business *participated* in during calendar years 2005 – 2009. This includes all projects you participated in as an owner, developer, or builder, regardless of whether you had a financial stake (see Glossary for relevant definitions). Do not include projects for which your only involvement was as a contract builder. For these questions, also include projects that resulted in construction of less than 5,000 square feet of impervious surfaces.

17 CBI. Indicate the types of construction or land development activities your business participated in during calendar years 2005 – 2009. (Check all that apply)

- Develop lots and sell those lots to other entities
- Develop lots and build on those lots
- Build on lots developed by another entity
- Other

18. CBI. How many projects that have commenced construction (where land disturbance has begun) was your business participating in on the last day of 2009?

18a. CBI. How many of these projects have disturbed or will likely disturb one or more acres of land?

18b. CBI. How many of these projects include or will likely include 5,000 square feet or more of impervious surfaces?

18c. CBI. Do any of these projects incorporate or will any of these projects likely incorporate low impact development (LID) practices?

- Yes
- No (skip to question 19)
- Don't Know (skip to question 19)

18d. CBI. Approximately how many of these projects incorporated or will likely incorporate LID practices? For this question, you can base this answer only on readily available information. If this information is not readily available, you need not consult third parties, review project plans or records, or take other measures to obtain this information.

of Projects _____
 Don't Know

Project Information: Part 2 Detailed Project Information on Current and Recently Completed Projects

This section gathers technical and economic information on current projects and projects recently completed that your business has participated in as an owner, developer, or builder. Complete one copy of this section (covering Questions 19-48) for five projects your business is currently working on that have commenced construction (disturbed land). If your business is currently working on more than five projects, select the five most recent projects that your business is participating in that have commenced construction. If your business is currently working on less than five projects, provide information on all of your business's current projects that have commenced construction as well as the projects most recently completed that your business participated in, for a total of five projects. Only provide information on five total projects and only provide information for projects that resulted in or will likely result in the construction of 5,000 square feet or more of impervious surfaces. Do not provide information on any projects completed prior to December 31, 2004. If your business has been a participant in less than five projects since December 31, 2004, then only provide information on those projects that your business has participated in since December 31, 2004.

Project Technical Information

19. Project Name or other identifier your business uses to describe this project:

20. CBI. Was/is your business the owner and/or developer for this project, or a phase/portion of this project? (As stated in the *Glossary*, a developer is a business that controls project design and/or land development activities associated with a project; it may nor may not be the owner of the project. The term does not include contractors that work for the owner or developer.)

- Yes.
- No. (Skip to 25)

21. CBI. Indicate if your business conducted (or intends to conduct) any of the following activities for this project (check all that apply):

- Developed and/or subdivided a lot (or lots) and sold that lot (or lots) to other entities
- Developed lots and built on those lots
- Built on already developed lots purchased by your business

22 CBI. Was your business the owner and/or developer for the entire duration of the project or just a phase/portion of the project?

- Owner and/or developer for the entire duration of the project.

- Owner and/or developer for only a portion of the project.
- Unknown because the project is not yet complete.

23. CBI. Indicate what activities your business conducted, or intends to conduct, for this project. Check all that apply.

- General Site Clearing/Grubbing
- Grading
- Infrastructure (roads, utilities, etc.) Installation
- Lot Development
- Construction of structures
- None of the above

24. CBI. Did your business hire, or does your business intend to hire, a contractor or subcontractor to conduct any of the following activities?

General Site Clearing/Grubbing

- Yes
- No

Grading

- Yes
- No

Infrastructure (roads, utilities, etc.) Installation

- Yes
- No

Lot Development

- Yes
- No

Construction of Structures

- Yes
- No

25. CBI. If you were not the owner and/or developer for this project, did you build, or do you anticipate building, on a lot or lots developed by another entity?

- Yes
- No
- Not Applicable

26. CBI. After project completion who is the intended owner? Select the answer that best describes.

- Single property sold to a third party.
- Project divided into multiple properties that are sold to multiple third parties.
- Project owner retains ownership and leases the property or properties.
- Project owner retains ownership and occupies the entire property to conduct business
- Project divided into multiple properties where the project owner retains ownership and occupies one or more of the properties to conduct business, and the remaining properties are either sold or leased to third parties.

27. Provide the location of the project.

Street Name & Address:

Town/City:

State:

ZIP Code:

Latitude (of project centroid):

Longitude (of project centroid):

28. Did your business file for coverage under a local, state or federal construction general permit for construction stormwater management for this project?

- Yes
- No (Skip to 30)

29. What was the permit number assigned to the project by the local government, the state or EPA? If multiple permits were maintained, provide only the primary permit number assigned before the initial land disturbance.

- None Assigned
- Don't Know

30. CBI. What were the actual dates that construction started and ended? If the project has not ended, enter NA for end date.

Start Date _____ End Date _____
(MM/DD/YYYY) (MM/DD/YYYY)

31. CBI. What were the dates that your business's participation in the project started and ended? If your business's involvement is ongoing, enter NA for the end date.

Start Date _____ End Date _____
(MM/DD/YYYY) (MM/DD/YYYY)

32. The following gathers information on the project size

a. What is the total size (in acres) of the project?

Size (acres) _____ Don't Know _____

b. CBI. What is the size of your portion of the project?

Size (acres) _____

33. Indicate the number of acres of the total project site as well as of your portion of the project site that were disturbed (if a completed project) or will likely be disturbed (if the project is not yet complete)?

a. Total site disturbed area (acres) _____ Don't Know _____

b. CBI. Your portion of the site disturbed acres _____ Don't Know _____

34. CBI. Is this project a new development (i.e., greenfield) or redevelopment project?

New Development

Redevelopment

Both New Development and Redevelopment

35. CBI. Indicate the developed area categories that were constructed or will be constructed for this project (check all that apply). For each developed area type that you check, provide the percentage of the project area that it covers (or will likely cover, based on project plans). If you only participated in one portion of a larger project, only provide information on the portion of the project that you participated in. If the project included both new development (i.e., greenfield) and redevelopment areas, provide the percentages of development area broken out into these two categories.

Developed Area Type		Percentage of Project Area
Newly Developed Area		
Single-Family Residential detached	<input type="checkbox"/>	
Single-Family Residential attached	<input type="checkbox"/>	
Multifamily Residential	<input type="checkbox"/>	
Commercial	<input type="checkbox"/>	
Industrial	<input type="checkbox"/>	
Institutional	<input type="checkbox"/>	
Transportation	<input type="checkbox"/>	
Non-Building	<input type="checkbox"/>	
Other (specify _____)	<input type="checkbox"/>	
Redeveloped Area		
Single-Family Residential detached	<input type="checkbox"/>	
Single-Family Residential attached	<input type="checkbox"/>	
Multifamily Residential	<input type="checkbox"/>	
Commercial	<input type="checkbox"/>	
Industrial	<input type="checkbox"/>	
Institutional	<input type="checkbox"/>	
Transportation	<input type="checkbox"/>	
Non-Building	<input type="checkbox"/>	
Other (specify _____)	<input type="checkbox"/>	
Total should add to 100%		100%

36. CBI. How many single-family residential buildings or single-family units in multifamily buildings were constructed or are planned for construction as a part of your portion of this project? (If the project is entirely non-residential construction enter zero. If you don't know, enter "DK.")

37. CBI. Preexisting Land Cover

Indicate what the land cover of the project was prior to your business's land development or building construction activity. In the event that your business was only responsible for a portion of the project, indicate what the land use was for your portion of the project when your business began that activity. Check all that apply.

- Developed (includes buildings, roads, parking lots, etc.). Specify the types of developed areas present below.
 - Residential
 - Commercial
 - Industrial

- Institutional
- Parking Lot
- Finished Lots
- Other Developed (*specify* _____)

Brownfield Area

Undeveloped/Greenfield. Specify the types of land areas present.

- Barren/Open
- Forested/Woods
- Shrubland
- Grassland
- Pasture
- Desert
- Cropland/Farm
- Other Undeveloped (*specify* _____)

Wetlands

Other (*Specify* _____)

Don't Know

38. CBI. POST-Construction Land Cover

(a) Estimate the total percent imperviousness of the project (or what the expected percent imperviousness will be at project completion, based on project plans, if the project is not yet complete). If you were only involved in a portion of the project and don't have a reasonable estimate for the entire project, enter "DK" for don't know.

_____ acres

(b) Estimate the total percent imperviousness of your portion of the project

_____ acres

(c) Estimate the area occupied by each of the following site components, broken out by impervious areas and pervious areas. Under the "*Impervious Site Components*" grouping, do not include rooftop area that has a green roof or roads, driveways or parking areas which are constructed of pervious pavers or other pervious materials (such as permeable pavers, permeable concrete and porous asphalt). Rather, include these areas under the "*Pervious Site Components*" heading. If you participated in one portion of a larger project, only provide information on the portion of the project that you participated in. If the project is not yet complete, provide estimates based on what the expected project characteristics will be when the project is complete. If information is not available or unknown for a particular site component, please provide your best estimate or indicate "DK" for Don't Know.

Area Covered by Impervious Site Components	
Site Component	% of Total Project Area
<i>Impervious Site Components</i>	
Building Areas/ Rooftops (house, garage, storage structure etc.)	
Streets/Roads	
Driveways	
Parking areas	
Other Impervious Area, Specify: _____	
<i>Pervious Site Components</i>	
Pervious paving (includes porous asphalt, pervious concrete, porous pavers or similar practices)	
Green roofs	
Grass lawns, turf grass or other open green space	
Cropland/Pasture	
Natural vegetation and undisturbed areas (forest, shrubland, grassland, etc)	
Buffers and other open space	
Other pervious area, specify: _____	
Water Bodies	
Totals should add to 100%	

39. CBI. Did your business install (or plan to install) or hire (or plan to hire) a contractor or subcontractor to install any post construction stormwater controls or practices at this project site?
 Yes No (Skip to Question 46)

40. Indicate which specific or numeric post-construction stormwater performance standards and/or design criteria requirements apply to this project, or your portion of the project if you do not know the answer for the project generally. (Check all that apply.) Do not include stormwater performance standards that apply to the active phase of construction only.

Post-development peak runoff/discharge rate must match pre-development peak runoff/discharge rate for a specified storm return interval or intervals.

- | | |
|----------------------------------|---|
| <input type="checkbox"/> 1 year | <input type="checkbox"/> 25 year |
| <input type="checkbox"/> 2 year | <input type="checkbox"/> 100 year |
| <input type="checkbox"/> 5 year | <input type="checkbox"/> Other (<i>Specify</i>) _____ |
| <input type="checkbox"/> 10 year | |

- Detention of a specified storm depth or volume (such as 0.5 inch per acre or 1 inch per impervious acre).
(Specify) _____
- Detention of a specified storm volume (such as 1,800 cubic feet per acre or 3,600 cubic feet per impervious acre).
(Specify) _____
- Detention of a specified percentile storm event (such as the 80th percentile storm).
(Specify) _____
- Retention of a specified storm depth or volume (such as 0.5 inch per acre or 1 inch per impervious acre).
(Specify) _____
- Retention of a specified storm volume (such as 1,800 cubic feet per acre or 3,600 cubic feet per impervious acre).
(Specify) _____
- Retention of a specified percentile storm event (such as the 80th percentile storm).
(Specify) _____
- Pollutant reduction requirement (for example, stormwater control practices must be installed to remove 80% of the post-construction TSS loading and 40% of the post-construction nitrogen loading)
Specify: _____
- Channel protection measures (such as a maximum allowable discharge velocity or other metric)
Specify: _____
- Infiltration/groundwater recharge requirement (for example, maintain predevelopment groundwater recharge levels or infiltrate the first 0.5 inch of runoff)
Specify: _____
- Limits for effluent concentrations of specific pollutants
Specify: _____
- Requirements for control of temperature
Specify: _____
- Flood control requirements other than the peak discharge rate control and on-site detention/retention requirements specified above.
Specify: _____
- Stream buffer requirements (for example, a 50 foot vegetated buffer must be maintained/implemented adjacent to waters of the state)
Specify: _____

Limits on the maximum percent imperviousness for the site, or maximum directly connected impervious surface or other limits on impervious surfaces.

Specify: _____

Other Standards Not Identified Above, Specify: _____

Don't Know

No Standards Required

41. CBI. Did your business perform a cost comparison between traditional stormwater post construction controls (i.e. detention basins) and stormwater post construction controls that retain stormwater onsite (also known as low impact development practices which include bioretention, rain gardens, etc.) for this project (or your portion of the project)?

Yes No Don't Know

42. CBI. Were LID practices considered for this project (or your portion of this project)?

Yes No Don't Know

43. CBI. Were LID practices implemented (or planned to be implemented) on this project (or your portion of this project)?

Yes No Don't Know

44. CBI. What, if any, challenges did your business encounter in installing LID practices? Or if LID was considered but not implemented, what prevented your business from implementing LID? Check all that apply.

No LID considered or installed

State or local ordinances, building codes or other requirements, such as minimum street width or cul-de-sac radius for fire truck or refuse collection, prohibit, inhibit or discourage usage

Expense

Local stormwater regulations/permit requirements require traditional stormwater management practices, such as detention ponds

Local regulators or city engineer not supportive or familiar with practices

Additional time for permit review and/or approval

Site limitations

Financing requirements

Lack of local providers with LID experience (site designers/engineers, architects, subcontractors and installation, etc.)

Lack of desirability by site owner or other project participant

Marketability of project

Other _____

Not Applicable

None

45. CBI. Indicate which of the following stormwater post construction controls/practices have been installed (or are planned to be installed) for your portion of this project. Check all that apply.

For those practices installed (or that are planned to be installed), indicate the quantity of controls installed (i.e., for individual practices, such as basins, provide the number of individual controls. For controls such as pervious pavement, provide the total area (in square feet) installed.) Also indicate the cost (including design and installation cost) for the individual controls. For buffers, curb and gutter, storm sewer and catch basins, indicate if the practice is present and the cost (if known), but do not provide any quantity information. If you don't know the quantity or cost of each control installed, check the corresponding box indicating not known.

Practice/Control Type	Check if Control Installed	# of Controls Installed	Check if Quantity Not Known	Control Cost (Design + Installation)	Check if Cost Not Known
Detention basins	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Retention basins	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Swales	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Constructed Wetlands	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Wetland Channels	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Underground Detention	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Underground Infiltration	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Tree Boxes	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Green Roofs	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Bioretention/Rain Gardens	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Infiltration basins	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Infiltration trenches	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Dry wells	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Sand filters or other types of media filters	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Cisterns	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Rain barrels	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Manufactured Devices, specify:					
_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>
_____		_____		_____	
_____		_____		_____	
Other, specify					
_____	<input type="checkbox"/>	_____	<input type="checkbox"/>	_____	<input type="checkbox"/>
_____		_____		_____	
_____		_____		_____	
Practice/Control Type	Check if Control Installed	Quantity of Controls Installed (square feet)	Check if Quantity Not Know	Control Cost (Design + Installation)	Check if Cost Not Known
Porous asphalt	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

Permeable concrete	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Permeable modular block pavers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Vegetated Filter Strips	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Buffers	<input type="checkbox"/>		
Curbs and Gutters	<input type="checkbox"/>		
Storm Sewers	<input type="checkbox"/>		
Catch Basins	<input type="checkbox"/>		
None	<input type="checkbox"/>		<input type="checkbox"/>

46. CBI. Provide an estimate of the final value of the project, the total project cost and the estimated costs of designing and installing (including labor and capital costs) the stormwater post construction controls/practices associated with this project. The final value is the project's actual or anticipated sales value or the actual or anticipated recorded asset value at the time of project completion. Total project costs include costs in all three phases, and include land or other project acquisition costs, fees, project design/architectural costs, land development costs, construction costs, interest or other financing costs, marketing costs, and overhead. If the project is not completed, or your business's participation in the project ended prior to the completion of the building construction phase, provide your best approximation. If you only participated in one portion of a larger project and don't know the information for the entire project, enter DK for 'don't know' in the columns asking for information about total project costs and provide information only for your portion of the project. Do not include costs associated with erosion and sediment controls utilized during active construction in the stormwater costs (e.g., silt fences). Please consult with a project engineer to confirm cost estimates, if necessary.

	Total Project	Your Portion of the Project
Project value (at time of project completion):	\$ _____	_____
Total Project Cost	\$ _____	_____
Stormwater Post Construction Design Costs	\$ _____	_____
Stormwater Post Construction Installation Costs (including labor and capital)	\$ _____	_____

If costs of post construction stormwater controls are unknown, provide an estimate of the costs of post construction stormwater controls as a percentage of total construction costs for the entire project, or the costs of post construction stormwater controls on your portion of the project as a percentage of construction costs for your portion of the project (if the project is not yet complete, provide estimates based on project plans):

_____ % Total Don't Know

_____ % Your Portion Don't Know

47. CBI. Please complete the table below regarding your business's participation in the phases of this project.

	Land Acquisition	Land Development	Building Construction
Check all phases in which your business participated (or is participating in, for project not yet completed)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Indicate your business's percent share of ownership in the project (%)	____%	____%	____%

48. CBI. What is the total revenue your business received or will receive, as sale revenue or average annual lease revenue, from all phases of this project in which you were a participant, as indicated above, regardless of the year in which the revenue was or will be received? Provide value in dollars; you may round to the nearest thousand dollars. If the lease component of the project is not fully leased at the time of this response, provide your best estimate of the annual lease revenue that will be received when the project is fully leased.

Sale Value \$ _____.

Annual Lease Revenues \$ _____.

Project Information: Part 3 General Project Information

The next question is meant to help EPA to develop a profile of projects performed during the last five years. Rather than ask each respondent for information on all the projects your business participated in during the 2005-2009 time period, EPA has assigned each business a random year-long period during this time frame, and is asking businesses to describe the projects your business participated in that were completed during that time period.

49. CBI. Complete the table below with information on projects, your business participated in, that resulted in more than 5,000 square feet of impervious surface, and that were completed between _____ and _____ (*this is a randomly generated 12 month period between January 1, 2005 and December 31, 2009 expressed in terms of months not days*) If your business participated in more than 5 projects completed during this period, only provide information on the first 5 projects completed. Do not include projects that you have already provided information on previously in Part 2 of the Project Information section.

In the event that your business was not responsible for the entire project, provide answers for the phase/portions for which your business was directly involved and for project questions for which you know the answer.

Project Information

Permit Number^a	Zip Code	Type^b	Total Size (acres)	New- or Re-Development (N/R)	Percent Impervious Surface Area (% of size)	Final Project Value^d (\$)	Final Ownership^f

a. In most states, projects with 1 or more acres of disturbed area must file for permit coverage by submitting an NOI (or NOC in California). If the permitting authority provided a permit number, provide that number here. If the project was not assigned a permit number, or if a permit was not required, just enter N/A.

- b. Type**
- SFA = Single-Family Residential, attached
 - SFD = Single-Family Residential, detached
 - MF = Multifamily Residential
 - COM = Commercial
 - INS = Institutional
 - IND = Industrial
 - TR = Transportation
 - NB = Non-Building
 - MU1 = Mixed Residential (single-family and multi-family)
 - MU2 = Mixed Residential and Commercial/Institutional
 - MU3 = Mixed Commercial and Industrial
 - MU4 = Other Mixed Use
 - OTH = Other Project Type Not Elsewhere Specified

d. The value of the project at the time of completion. This value could be the project’s sales value or the recorded asset value of the project when has been completed.

- f. Please indicate the intended ownership status of the project at the time of completion. Select the option that best applies.
- SS = Single property sold
 - RL = Retained ownership and leased property
 - RO = Retained ownership and occupied property
 - MS = Subdivided into multiple properties and sold all properties
 - LS = Subdivided into multiple properties and retained ownership of some properties to lease while selling others
 - OT = Other

Ultimate Parent Company Information

50. CBI. Is your business owned, controlled, or managed by an ultimate parent company?

Yes (continue to the next question)

No (***you have completed the questionnaire. Sign the Certification Statement and refer to instructions for mailing the questionnaire back to the United States Environmental Protection Agency***)

51. CBI. Provide contact information for the ultimate parent company.

Ultimate Parent's Full Legal Name

Address

Phone/Fax Number

Email

52. CBI. In what state is the ultimate parent company organized as a legal entity?

53. CBI. Does your ultimate parent company have operations in foreign countries that are a source of international revenue?

Yes

No

54. CBI. Is your ultimate parent company a small business? The Small Business Administration (SBA) defines businesses as "small" based on a revenue threshold that is specific to each NAICS code. Please see the Glossary for common NAICS codes and SBA small business definitions for the construction industry to help answer this question. If you are unable to locate your NAICS code in the Glossary, please consult the [Small Business Administration's web site: http://www.sba.gov/contractingopportunities/officials/size/summaryofssi/index.html](http://www.sba.gov/contractingopportunities/officials/size/summaryofssi/index.html). In determining whether your ultimate parent is a small business, consider only revenue from domestic sources. Base your determination on the most recent fiscal year for which revenue is available.

Yes (continue to the next question)

No (***you have completed the questionnaire. Sign the Certification Statement and refer to instructions for mailing the questionnaire back to the United States Environmental Protection Agency***)

55. CBI. Complete the table below with the ***ultimate parent company's*** total annual revenue for 2005-2009. Provide values in dollars and fill in all values; you may round values to the nearest thousand dollars. If the ultimate parent company was not in business for one or more of the years, enter "N/A" for those years. If the ultimate parent company is a multinational firm, limit revenue estimates to domestic sources.

Ultimate Parent Company Total Annual Revenue (Dollars; may round to nearest thousand)				
Year				
2005	2006	2007	2008	2009

Once you have completed the above table for ultimate parent company revenue, you have completed the questionnaire. Sign the Certification Statement and refer to instructions for mailing the questionnaire back to the United States Environmental Protection Agency. Thank you.

Certification Statement

The individual responsible for directing or supervising the preparation of the enclosed *Stormwater Discharges from Developed Sites Owner/Developer Long Questionnaire* must read and sign the Certification Statement below before returning both documents to the U.S. Environmental Protection Agency. The certifying official must be a duly authorized representative. The Certification Statement must be completed and submitted in accordance with the requirements contained in the *Code of Federal Regulations* at 40. CFR 122.22.

I certify under penalty of law that the attached questionnaire was prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information submitted. The information submitted is, to the best of my knowledge and belief, accurate and complete. In those cases where we did not possess the requested information, we have provided best engineering and/or financial estimates or judgments where possible. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment as explained in Section 308 of the Clean Water Act (33 U.S.C., Section 1318).

Signature of Certifying Official

Date

Printed Name of Certifying Official

(_____)_____
Telephone Number

Title of Certifying Official