

One part of a comprehensive construction site management program.

Disposal Procedures

Education

Quality Control

Requirements

LIMITATIONS

Only addresses non-hazardous solid waste.

The hazardous waste management BMP addresses the problem of storm water polluted with hazardous waste through spills or other forms of contact. The objective of the Management Program is to minimize the potential of stormwater contamination from common construction site hazardous wastes through appropriate recognition, handling, storage and disposal practices. it is not the intent of this Management Program to supersede or replace normal site assessment and remediation procedures. Significant spills and/or contamination warrant immediate response by trained professionals. Suspected job-site contamination should be immediately reported to regulatory authorities and protective actions taken. The General Permit requires reporting of significant spills to the National Response Center (NRC) at (800) 424-8802. PRIMARY USE These management practices along with applicable OSHA and EPA guidelines should be incorporated at all construction sites which use or generate hazardous wastes. Many wastes such as fuel, oil, grease, fertilizer and pesticide are present at most construction sites. INSTALLATION, APPLICATION AND DISPOSAL CRITERIA The hazardous waste management techniques presented here are based on proper recognition, handling, and disposal practices by construction workers and supervisors. Key elements of the management program are education, proper disposal practices, as well as provisions for safe storage and disposal. Following are lists describing the targeted materials and ommended procedures: Hazardous Waste Materials Fuels & lube oils Lead based paints (Demolition Wherever possible, minimize use of hazardous materials. Minimize generation of hazardous wastes on the job-site. Segregate potentially hazardous waste from non-hazardous construction site debris.

Hazardous Waste Management

Applications

Appiloanons	Concrete waste Management	
Perimeter Control		Perimeter Control
Slope Protection	DESCRIPTION Concrete waste at construction sites comes in two forms; 1) excess fresh	Slope Protection
Sediment Trapping	concrete mix including truck and equipment washing, and 2) concrete dust	Sediment Trapping
Channel Protection	and concrete debris resulting from demolition. Both forms have the	Channel Protection
Temporary Stabilization	potential to impact water quality through storm water runoff contact with the waste.	Temporary Stabilization
Permanent Stabilization	DRIMARYLICE	Permanent Stabilization
Waste Management	PRIMARY USE Concrete waste is present at most construction sites. This BMP should be	Waste Management
Housekeeping Practices	utilized at sites in which concrete waste is present.	Housekeeping Practices
Targeted Constituents	APPLICATIONS	Targeted Constituents
O Sediment	A number of water quality parameters can be affected by introduction of concrete - especially fresh concrete. Concrete affects the pH of runoff,	O Sediment
Nutrients Toxic Materials	causing significant chemical changes in water bodies and harming aquatic life. Suspended solids in the form of both cement and aggregate dust are	O Nutrients Toxic Materials
Oil & Grease	also generated from both fresh and demolished concrete waste.	O Oil & Grease
O Floatable Materials	Current Unacceptable Waste Concrete Disposal Practices	O Floatable Materials
Other Construction	- Dumping in vacant areas on the job-site - Illicit dumping off-jobsite	Other Construction
Wastes	- Dumping into ditches or drainage facilities	Wastes
Implementation Requirements	Recommended Disposal Practices	Implementation Requirements
● Capital Costs	 Avoid unacceptable disposal practices listed above. 	
	 Develop pre-determined, safe concrete disposal areas. Provide a washout area with a minimum of 6 cubic feet of 	
⊖ Training	containment area volume for every 10 cubic yards of concrete	● Training
O Suitability for	poured Never dump waste concrete illicitly or without property owners	O Suitability for
Slopes >5%	knowledge and consent.	Slopes >5%
<u>Legend</u>	 Treat runoff from storage areas through the use of structural controls as required. 	Legend
 Significant Impact 	Controls as required.	Significant Impact
Medium Impact	Education	Medium Impact
O Low Impact	Drivers and equipment operators should be instructed on proper	O Low Impact
? Unknown or	disposal and equipment washing practices (see above).	? Unknown or
Questionable impact	- Supervisors must be made aware of the potential environmental consequences of improperly handled concrete waste.	Questionable impact
BMP	Enforcement	ВМР
23	- The construction site manager or foreman must ensure that	24
	employees and pre-mix companies follow proper procedures for concrete disposal and equipment washing.	
City of Baton Rouge	- Employees violating disposal or equipment cleaning directives must	City of Baton Rouge Parish of
Parish of East Baton Rouge	be re-educated or disciplined if necessary.	East Baton Rouge
Department of		Department of
		I was a second

Concrete Waste Management

Solid Waste Management		Hazardous Waste Management		
Keep solid waste materials under cover in either a closed dumpster or other enclosed trash container that limits contact with rain and runoff. Store waste materials away from drainage ditches, swales and catch basins. Do not allow trash containers to overflow. Do not allow waste materials to accumulate on the ground. Prohibit littering by workers and visitors. Police site daily for litter and debris. Enforce solid waste handling and storage procedures. posal Procedures If feasible, segregate recyclable wastes from non-recyclable waste materials and dispose of properly. General construction debris may be hauled to a licensed construction debris landfill (typically less expensive than a sanitary landfill). Use waste facilities approved by local jurisdiction. Runoff which comes into contact with unprotected waste shall be directed into structural treatment such as silt fence to remove debris.		 Designate a foreman or supervisor to oversee hazardous materials handling procedures. Keep liquid or semi-liquid hazardous waste in appropriate containers (closed drums or similar) and under cover. Store waste materials away from drainage ditches, swales and catch basins. Use containment berms in fueling and maintenance areas and where the potential for spills is high. Ensure that adequate hazardous waste storage volume is available. Ensure that hazardous waste collection containers are conveniently located, Do not allow potentially hazardous waste materials to accumulate on the ground. Enforce hazardous waste handling and disposal procedures. Clearly mark on all hazardous waste containers which materials are acceptable for the container. Disposal Procedures Regularly schedule hazardous waste removal to minimize on-site storage. Use only reputable, licensed hazardous waste haulers. 		
Educate all workers on solid waste storage and disposal procedures. Instruct workers in identification of solid waste and hazardous waste. Have regular meetings to discuss and reinforce disposal procedures (incorporate in regular safety seminars). Clearly mark on all solid waste containers which materials are acceptable.		Education Instruct workers in identification of hazardous waste Educate workers of potential dangers to humans and the environment from hazardous wastes Instruct workers on safety procedures for common construction site hazardous wastes Educate all workers on hazardous waste storage and disposal procedures Have regular meetings to discuss and reinforce identification, handling and disposal procedures (incorporate in regular safety seminars)		
Foreman and/or construction supervisor shall monitor on-site solid waste storage and disposal procedures. Discipline workers who repeatedly violate procedures. quirements Job-site waste handling and disposal education and awareness program. Commitment by management to implement and enforce Solid Waste Management Program. Compliance by workers. Sufficient and appropriate waste storage containers, Timely removal of stored solid waste materials. Possible modest cost impact for additional waste storage containers. Small cost impact for training and monitoring Minimal overall cost impact.		 Establish a continuing education program to indoctrinate new employees. Quality Assurance Foreman and/or construction supervisor shall monitor on-site hazardous waste storage and disposal procedures. Educate and if necessary, discipline workers who violate procedures. Ensure that the hazardous waste disposal contractor is reputable and licensed. Requirements Job-site hazardous waste handling and disposal education and awareness program. Commitment by management to implement hazardous waste management practices. Compliance by workers. Sufficient and appropriate hazardous waste storage containers. Timely removal of stored hazardous waste materials. 		
IITATIONS ly addresses non-hazardous solid waste.	вмР 22	Costs - Possible modest cost impact for additional hazardous storage containers. BMP 23		
e part of a comprehensive construction site management program.	Department of Public Works	- Small cost impact for training and monitoring Potential cost impact for hazardous waste collection and disposal by licensed hauler - actual cost depends on type of material and Public Works		

Concrete Waste Management Monitor weather and wind direction to ensure concrete dust is not entering drainage structures and surface waters. other types of sediment detention devices Where appropriate, construct s downstream of demolition activities. Use a pre-determined disposal site(s) approved by LADEQ for waste concrete (See BMP 22 Solid Waste Management). Inform PROGRAM MANAGER of selected disposal site(s). Prohibit dumping waste concrete anywhere but pre-determined areas. Assign pre-determined truck and equipment washing areas. Educate drivers and operators on proper disposal and equipment cleaning procedures. Minimal cost impact for training and monitoring. Concrete disposal cost depends on availability and distance to suitable disposal areas Additional costs involved in equipment washing could be significant. This concrete waste management program is one part of a comprehensive construction site waste management program.

Applications

Public Works

Department of

Public Works

PROJECT NO.

SHEET

STANDARD PLAN NO. FEBRUARY 25, 2008 8 OF 11 903-01

STORM WATER POLLUTION PREVENTION PLAN BEST MANAGEMENT PRACTICES

ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE DESIGNED DRAWN CHECKED APPROVED

903-01

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