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| **JOB SAFETY ANALYSIS** | **Job Task: Clearing a Clogged Storm Drain**  | **Date: 6/29/2012** | **Analysis Performed By:**Uwchlan Township |
| **SEQUENCE OF BASIC JOB STEPS** | **POTENTIAL HAZARDS** | **RECOMMENDED ACTION/PROCEDURE** |
| 1. Visually determine location of drain. | Tripping/falling. | Mark location of drain inlets prior to flooding with signs, posts, etc. |
| 2. Assess scene to discover any additional hazards. | Tripping/falling. Electrocution. Exposure to chemicals. | Check area to look for any downed wires, evidence of sheen on water from spilled liquids. Branches, etc could cause added clogs. |
| 3. If standing water is deeper than 6 inches, utilize machine to open drain. | Water deeper than 6” may hide items under the surface. Clearing the clog in deep water could pull/trip worker. | Utilize back-hoe, skid steer, or tractor to remove debris whenever possible. |
| 4. If drain is located in or along roadway, establish proper safety zone. | Worker could be struck by passing vehicles. |  Utilize signs/vehicles to properly protect operation from passing vehicles, especially during inclimate weather. |
| 5. Don proper safety equipment and utilize appropriate hand tools. Worker should position themselves beyond curb/above drain if possible.  | Struck by vehicles, exposure. | Wear proper gloves, high-visibility safety vests, boots. Worker behind the curbline may keep them out of flooded area. |
| 6. Remove debris from storm drain and discard into dumptruck. | Back injuries. Struck by debris. | Use proper tools (rake, pitchfork, shovel) to clear drain. Never use hands to clear items below water surface. Use legs when lifting debris by hand or with tools into truck. Remove debris to truck to prevent additional clogs. |
| 7. Properly secure debris in truck. | Items falling out of vehicle and striking others. | Use straps to secure branches, large items. Use tarps to prevent small debris from falling out of vehicle during transport. |
| 8. Break down operation and return all equipment to proper storage areas. | Lost equipment. Returning damaged equipment to service without repairs. | Break down safety zone and inspect equipment prior to stowing. This assures equipment is ready for use. |