



Environmental Protection Measures for Construction Sites Hierarchy



Issues

Management

- Assignment of responsibilities
- Communication of Site EMP requirements to employees e.g. induction's, toolbox meetings, informal events
- Training
- Inspections and maintenance regimes

Noise

- Selection of less noisy equipment
- Machinery retrofits
- Machinery maintenance

Dust

- Retain vegetation
- Employ stabilisation methods e.g. stabilisation matting, temporary grassing, mulch, progressive revegetation
- Roughen soil surface
- Protect stockpiles
- Restrict vehicle movements
- Protect loads during transport
- Wind breaks

Erosion and Sediment

Run-off Management

- Stage works
- Divert flows from entering site and on site exposed areas
- Employ stabilisation methods
- Protect stockpiles

Dewatering

- Re-use water on site

Mud/Dirt on Roads

- Minimise the number of site access points
- Restrict wet weather site access
- Stabilize the site access

Waste

- Reduce e.g. don't over-order materials, negotiate with suppliers to take back excess product, use prefabricated products
- Re-use e.g. chip trees for mulch, use captured run-off instead of potable water, reuse topsoil
- Recycle e.g. recycle waste, purchase recycled products

Chemicals

- Off site chemical storage

Other Site Specific Issues

- As identified to mitigate risk for site

Preventative Measures

- Restrict working hours
- Schedule noisy activities for less sensitive times of the day
- Noise barriers
- Locate noisy works away from neighbors
- Inform neighbors of out of hours, noisy works in advance e.g. letter drops

- Wet the soil e.g. water cart, sprinklers, hand held hose
- Dust suppressants

- Perimeter controls
- Velocity slowing structures
- Sediment traps
- In-stream control measures
- Drainage structure protection (Above consist of rock, geotextile and other synthetic filters, straw bales and other natural filters, earth and vegetation)

- Check quality of water is compliant with requirements for discharge
- Treat water if necessary
- Ensure correct method of pumping
- Pump to land in preference to water
- Supervise

- Clean vehicles prior to them leaving site e.g. driving length of stabilised access track, rumble/vibration grid, physical scrape of material, wheel wash

- Contain waste so it cannot escape the site e.g. stockpile solid waste, lidded bins for general litter, bunded wash-up areas for washings, residues, slurries etc.
- Disposal in accordance with EPA Publication 448 Classification of Waste

- Chemical storage areas with following characteristics: locate away from sensitive areas, bunding, impervious liners
- Refueling/maintenance area with chemical storage characteristics
- Spill kit on site where chemicals are stored
- Spill kit on fuel truck

- As identified to mitigate risk for site

Control Measures

- Halt works if exceeding noise requirements, until sufficient preventative or control measures are implemented

- Restrict dust generating activities (e.g. earthworks, vehicle movements) where dust generation cannot be sufficiently controlled
- Where significant dust is being generated, works may need to be halted for employee OH&S considerations

- Discharge should be halted from exiting the site in the event that the water is too turbid to discharge (particularly relevant if discharge from site is through a sediment basin)

- Where water cannot be remediated on site to a suitable quality for discharge, water should disposed of to sewer or a suitable licensed EPA waste disposal facility
- Clean the road e.g. Street sweeper, physical sweep. (Where above will not suffice and road requires washing, drainage inlets must be protected)

- Temporary fencing can provide a secondary containment measure for waste
- Litter pick-ups

- Immediate clean up and correct disposal of spills, material contaminated by the spill and material used to clean up the spill

- As identified to mitigate risk for site

Contingencies

The development of this document has been assisted with funding from the Victorian Government, through EPA Victoria, as part of the Victorian Stormwater Action Program. This document has been developed as part of the 'Subdivision Construction Project', coordinated by: