

Exhibit B-22: Environmental
protection plan (received September
21, 2017)

Miles Sand & Gravel Company

SAND AND GRAVEL GENERAL PERMIT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM AND STATE WASTE DISCHARGE GENERAL PERMIT ENVIRONMENTAL PROTECTION PLANS

**Grip Road Mine – WAG 50 –
Grip Road
Sedro-Woolley, WA 98284**

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IN THE EVENT OF A SPILL OR POTENTIAL POLLUTION PROBLEM EMERGENCY PHONE NUMBERS

OFFICE	MOBILE	HOME
Jesse Fike, Site Manager		
DAN COX, General Manager		

IN THE EVENT OF A SPILL, NOTIFY ANY OF THE ABOVE LISTED PEOPLE. THEY WILL NOTIFY APPROPRIATE AGENCIES.

Spills on the job site and at Miles Sand & Gravel facilities cannot be ignored. We have a responsibility to clean up any spills created by accident or through negligence. Laws are in place requiring the clean-up of spills and proper disposal of clean up materials. The following is an emergency spill plan to be implemented in the event of a spill.

Miles Sand & Gravel Emergency Spill Plan For Mobile Units and Sites

Spills originating from your vehicle or through your negligence are your responsibility. In case of a spill or leak the following steps will be taken.

- υ **Stop and contain spill with spill kit or other diking material.**
- υ **Notify dispatch of your situation and inform them if help is needed.**
- υ **Only leave spill site after spill has been completely cleaned up or an authorized employee has taken over clean up responsibilities.**
- υ **All contaminated clean up materials and contaminated soils will be taken to a Miles Sand & Gravel facility for proper disposal.**
- υ **Contact your supervisor or the Burlington office for replacement spill kit materials.**

S6. SMP SECTION 1: EROSION AND SEIMENT CONTROL PLAN (ESCP)

- A. Stabilization BMP's: Will be initiated as soon as practicable on portions of the site where mining activities have temporarily or permanently ceased.
- i. All soils shall be stabilized and protected from erosion by the timely application of effective BMPs.
 - ii. Existing vegetation should be preserved where feasible. Areas that are not to be disturbed will be permanently marked.
 - iii. Cut slopes and fill slopes shall be designed and constructed in a manner that will minimize erosion.
 - iv. Stabilization shall be provided at the outlets of all conveyance systems to prevent erosion.
- B. Runoff Conveyance and Treatment BMPs:
- i. Adjacent properties are protected from erosion and sedimentation related to the facility.
 - ii. Sediment ponds and traps, perimeter dikes, sediment barriers, and other BMPs intended to trap sediment on site are utilized as needed during operation.
 - iii. Our goal is to use BMPs to maintain separation of Type 2 stormwater from Type 3 stormwater. If commingling occurs, the most restrictive permit requirements shall be met.

Operator Approval

The designated persons responsible for implementation of the SWPPP, including oil spill prevention, erosion and sedimentation control, emergency procedures reporting and employee training at this facility are:

Signature

Name: Dan Cox
Title: Envr. / Land Use
Date:

Signature

Jesse Fike
Site Manager
Date:

Management Approval

This Storm Water Pollution Prevention Plan will be implemented as herein described.

Name: Dan Cox

Title: GM
Miles Sand & Gravel

Signature:

Date:

S7. SMP SECTION 2: MONITORING PLAN

Sand and Gravel General Permit No. WAG 50- – Grip Road Mine

1. NAICS Codes Representing Activities:

NAICS 212321 Construction Sand and Gravel

S-1: NAICS 212321: stormwater to ground active mine area

2. Monitoring Requirements - Parameters to be monitored and frequency:

All discharges at this site are to **Groundwater**.

a. S2. NAICS 212321- Daily for Oil Sheen

b. S4.F.2.a - Oil/Water separators once per month during the wet season (Oct 1 – April 30) and rain events equal to or greater than 1 inch per 24 hours.

c. S4.F.2.b - Weekly – All operationally related equipment and vehicles for leaking fluids such as oi, hydraulic fluid, antifreeze etc.

d. S4.F.2.c - Daily – Oil sheen at all groundwater discharge points.

e. S4.F.3 Stormwater Inspections: Twice yearly, (Wet and Dry Season) see attached instructions and form.

3. Site Map – identifies monitoring points, and is located in the front cover of the three ring binder.

4. Sampling Procedures:

a. Methods: How to Do Stormwater Sampling – A guide for industrial facilities (Ecology Publication 02-10-071) – or equivalent sampling methods.

5. Non-compliance notification procedures and contact numbers: In the event of non-compliance, please use contact information in SMP Section 4.

S7. SMP SECTION 3: STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

NPDES Permit Number WAG - 50-

A. Measures to Prevent Commingling

Every effort is made to prevent the commingling of stormwater with process water. Stormwater that commingles with process water is considered process water and is managed as such under this permit.

B. Runoff Conveyance and Treatment BMPs

As operations dictate, runoff conveyance BMPs at this site may include, but are not limited to:

- a. Interceptor dikes,
- b. Swales,
- c. Channel lining,
- d. Pipe slope drains, and
- e. Outlet protection

Treatment BMPs at this site may include, but are not limited to:

- a. Oil/water separators,
- b. Biofiltration swales,
- c. Infiltration or detention basins,
- d. Sediment traps,
- e. Chemical treatment systems, and
- f. Constructed wetlands

C. Innovative BMPs

As innovative BMP's become available they may be utilized on this site. We are utilizing standard/required BMP's associated with this type of facility. When an innovative BMP is utilized on this site, all of the relevant sections of this binder will be updated.

Operational BMP's include:

- 1) Assignment of a Pollution Prevention Team including the Plant Manager and the Operations Managers.
- 2) Good Housekeeping: ongoing maintenance and cleanup of those areas that may contribute pollutants to stormwater.

- 3) Preventive Maintenance: Including keeping equipment in good working condition.
- 4) Employee Training: Each responsible employee at the site will receive training on Pollution Prevention and implementation and documentation of the Storm Water Pollution Prevention Plan prepared for this site. Annually this information and training will be repeated and updated as appropriate for the site employees.
- 5) Inspection and Record Keeping: The permittee will identify those persons responsible for site inspections and record keeping.

D. Inventory of Materials

Raw materials at this site include unprocessed sand and gravel.

For a list of other materials kept onsite, please refer to Spill Control Plan, S9B.2.

E. Source Control BMPs may include (items in bold used at this site):

The SWPPP must include the following source control BMPs in order to achieve AKART and compliance with the stormwater discharge limits in [S2](#) and [S3](#). The Permittee may omit individual BMPs if site conditions render the BMP unnecessary, infeasible, or if the Permittee provides alternative and equally effective BMPs. The Permittee must note the rationale for omission or substitution in the SWPPP. The Permittee must:

1. Store all **chemical liquids, fluids, and petroleum products** (except bitumen), in double-walled tanks or in secondary containment. Secondary containment includes an impervious surface surrounded with a containment berm or dike that is capable of containing 10% of the total enclosed tank volume or 110% of the volume contained in the largest tank, whichever is greater.
 - a. To prevent precipitation from accumulating in secondary containment provide a roof or equivalent structure.
 - b. If cover is not practicable, the SWPPP must include a description of how accumulated water will be managed and disposed of.
2. Label **containers** (e.g., "Used Oil," "Spent Solvents," "Fertilizers and Pesticides").
3. Fully drain and cap **empty containers**. Minimize the number of empty containers on site.

4. Fit all **dumpsters** containing leachable materials with a lid that must remain closed when not in use, or alternatively keep the dumpster under cover.
5. Locate **spill kits** at all stationary fueling stations, fuel transfer stations, mobile fueling units, and used oil storage/transfer stations.
6. Use drip pans or equivalent containment measures during all **petroleum transfer operations**.
7. Conduct all vehicle and equipment cleaning operations per the following:
 - a. Permittees may use low pressure (under 100 psi) cold water to rinse mud off of vehicles and equipment provided no soap is used. Route rinse water to an on-site sediment treatment structure (e.g. sediment trap, catch basin with gravity separator, or treatment pond).
 - b. Conduct all other vehicle and equipment cleaning operations under cover or in a bermed area to prevent commingling of wash water and stormwater.
 - i. This wash water must drain to a proper collection system (i.e., not the stormwater drainage system).
 - ii. Do not discharge any wastewater from concrete truck wash-out areas or from concrete trucks directly to surface water or groundwater. Treat this wastewater in a lined impoundment.
8. Store unhardened concrete, any type of concrete solids (does not include fully cured or recycled concrete), returned asphalt, and cold mix asphalt on a bermed impervious surface. This includes comeback concrete, ecology blocks, septic tanks, jersey barriers, and other cast concrete products. Treat all stormwater that contacts these materials in a lined impoundment. Discharge of this water is subject to the effluent limitations in [S2](#) and must not cause a violation of water quality standards.
9. Store lead acid batteries under cover.
10. Take **leaking equipment** out of service and prevent it from leaking on the ground until repaired. Repair all leaks before putting equipment back into service on the site.
11. Manage paving equipment to prevent stormwater contamination.
12. Manage **sediment track out** to paved off-site roads to prevent the tracked sediment from delivering to surface water or storm drain systems. Discharges to surface waters, public storm drain systems, or both are subject to permit limits for turbidity and must be included in the Permittee's Monitoring Plan whenever track out onto an off-site roadway is evident. Measures recommended to control or prevent track out include:
 - a. Limit vehicle access and exit to one route, if possible.

- b. Stabilize access points with a pad of quarry spalls, crushed rock, or other equivalent BMP, as necessary to minimize the tracking of sediment onto off-site roads.
 - c. Locate a closed loop wheel wash or tire baths (or equivalent BMP) on site, if the stabilized construction entrance is not effective in preventing sediment from being tracked onto off-site roads. Wheel wash and tire bath wastewater is process water and is subject to the effluent limitations and monitoring requirements in Special Condition [S2](#), [Table 2](#), and [S4](#) and must not cause a violation of water quality standards.
 - d. Clean off-site roads thoroughly at the end of each day or more frequently during wet weather if sediment is tracked off site. Clean sediment from roads by shoveling or pickup sweeping and transport to a controlled sediment disposal area.
 - e. Only wash streets after sediment is removed in accordance with condition d above. Street wash wastewater must be controlled by pumping back on site or otherwise be prevented from discharging into systems tributary to waters of the state.
13. The Permittee must use **source control BMPs** in the following areas and during the following activities as necessary to control pollutants:
- a. Fueling at Dedicated Stations
 - b. Mobile Fueling
 - c. Loading and Unloading Areas
 - d. Storage of Liquid in Permanent Above-ground Tanks
 - c. Dust Control

S9. SMP SECTION 4: SPILL CONTROL PLAN (SPC)

General Information

Facility: Grip, WAG 50 -

Type of Facility: NAICS 212321 Construction Sand and Gravel

Location of Facility: Grip Road, Sedro-Woolley, WA

Operator: Miles Sand & Gravel
P.O. Box 280
Mount Vernon, WA 98273

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Federal Law (PL-92-500) requires that all oil and petroleum spills into surface waters be reported immediately.

Report the following information:

- 1) Company Name and Location.
- 2) Name of person reporting, Job Title and Phone Number
- 3) Location of Spill
- 4) Material Spilled
- 5) Estimated Quantity
- 6) Action taken for containment and clean up
- 7) Water bodies, Streams, Drainage Ditch or Sewer Involved

1. Reporting Guide

- 1) Miles Sand & Gravel

- 1) Jesse Fike, Site Manager

Business:

Mobile:

Home:

- 2) Dan Cox, Environmental / Land Use

Business:

Mobile:

Home :

- 2) Regional Department of Ecology: (425) 649-7000
- 3) When Federal Waters are involved:
US Coast Guard: (206) 286-5540
1(800) 592-9911
- 4) Skagit County Department
Of Emergency Management: (360) 428-3250
or Emergency: 911

2. Equipment / Materials On-Site

Facility Tank and Drum Capacity in Gallons

None at this time.

In addition to the above listed materials, equipment on site typically includes: Front End Loader(s), Dump Trucks, Excavator(s), and other miscellaneous mining equipment. 3. Description of Preventive Measures and Facilities:

The Grip Road site includes above ground mining.

Potential Spills: Considering local drainage patterns and facility storage and/or handling capacity, the predicted direction, rate of flow and total quantity of oil and solvents which could be spilled due to a major failure or accident is as follows:

The goal of our facility design is to first prevent, then contain and finally treat any spill of material, as appropriate. The mining process will create a containment basin that doesn't allow a discharge to surface waters from the site. Every effort would be made to contain a spill at the highest elevation or ditching to lessen the spill footprint.

In the event of a spill, the procedure shall be as follows:

- 1) Determine the nature of the product spilled and stop the flow.
- 2) Call for any emergency response or aid needed.
- 3) Contain spill using absorbent booms (onsite).
- 4) Take immediate action to recover product spilled.
- 5) Report per SCP Plan Attachment 1.

4. Handling Procedures and Storage Requirements:

A. Personnel Training and Spill Prevention Procedures:

- 1) Personnel shall be properly instructed as to the applicable pollution control laws, rules and regulations and in the operation and maintenance of equipment to prevent oil spills.
- 2) All spills must be reported as described in this plan.
- 3) Prevention briefings for the operating personnel shall be conducted not less than once a year to ensure adequate understanding of the SCP Plan.

B. Inspections and Records:

- 1) The written procedures and a record of inspections, signed by the appropriate supervisor or inspector, are attached.

Spill record - See Attachment 1

- 2) These records shall be maintained for a period of three years unless the inspection interval is greater than three years, in which case at least two inspections, (the most recent and the previous) shall be maintained as part of this SCP Plan.

C. Security:

- 1) This site has entrance gates that shall be locked when the facility is unattended.
- 2) Any valves which permit direct outward flow of a tank's contents shall be locked closed when in non-operating status.
- 3) Starter controls on all oil pumps in non-operating or standby status are located at the site accessible to authorized personnel and shall be locked when the facility is unattended.

D. Storage Requirements:

- a. All onsite tanks are plastic or welded steel construction. The containment areas are sized in conformance with state and federal laws.
- b. Drainage from fuel containment areas is directed into oil/water separators prior to discharge.
- c. Facility tank truck unloading: a) Unloading procedures shall meet the minimum requirements and regulations of WSDOT (Washington State Department of Transportation); b) Secondary containment is provided in the onsite dike and

conveyance systems; and c) Unloading of the transports into the storage tanks shall be done under the direct supervision of the drivers.

Operator Approval

The designated persons responsible for oil spill prevention, emergency procedures reporting and employee training at this facility are:

Signature

Name: Dan Cox
Title: Envr. / Land Use
Date:

Signature

Jesse Fike
Site Manager
Date:

Management Approval

This SCP Plan will be implemented as herein described.

Name: Dan Cox

Title: GM, Miles Sand & Gravel

Signature

Date

SCP PLAN ATTACHMENT 1

SPILL RECORD

For each spill of fuel, grease or other contaminants the following information must be provided:

- 1) Date, Time and Location of Spill.
- 2) Name of person reporting, Job Title and Phone Number
- 3) Material Spilled
- 4) Estimated Quantity
- 5) Action taken for containment and clean-up
- 6) Water bodies, Streams, Drainage Ditch or Sewer Involved

This sheet can be copied to provide a spill record for each incident.

Date: _____ Time: _____ Location of Spill: _____

Person Reporting the Spill:

Material Spilled:	Estimated Quantity:
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Action taken for containment and clean-up:

Receiving Waters:

STORMWATER INSPECTIONS (Condition S4.F.3(a & b))

REQUIREMENTS:

Conduct two inspections for Type 3 storm water annually.

Dry Season Inspection - between May 1 and September 30.

Wet Season Inspection - between October 1 and April 30.

The wet season inspection will be conducted during a rainfall event adequate to verify:

- 1) Description of potential pollution sources is accurate.
- 2) Site map has been updated or modified to reflect current conditions.
- 3) Controls to reduce pollutants in stormwater discharges are being implemented and are adequate.

Fill out attached Inspection Report to include the following for stormwater discharges only:

	Wet Season	Dry Season
Observations:	Note the presence and location of; Floating Materials Suspended Solids Oil and Grease Discoloration Turbidity Odor Were samples taken? If so, list the results.	Are there any process water discharges in the stormwater system?
Actions:	What actions were taken to reduce pollutants in the stormwater discharges? Describe.	
Incidents:	Were there any incidents, such as oil or chemical spills that required agency notification under the SCP Plan? Describe the details of the spill and the corrective measures taken.	

Inspection Reports: A report on each inspection will be prepared and retained as part of the SWPPP. The report will summarize the scope of the inspection, the personnel conducting the inspection, the date(s) of the inspection, major observations relating to the implementation of the SWPPP and any action taken. The report shall be signed in conformance with General Condition 20 and shall certify that the discharge of stormwater has been investigated for the presence of non-stormwater discharge.

Stormwater Inspection Form

Date of Inspection: _____ Inspector: _____

Observations:

[illegible]

Actions:

Incidents:

Signature of Inspector:
Date: