Stormwater Pollution Prevention Plan

For:

PERGOLA PARK 5TH PLAT 3200 SW PERGOLA PARK LEE'S SUMMIT, MO 64081

Operator(s):

NLV DEVELOPMENT COMPANY, LLC ATTN: RUSSELL G. PEARSON 3152 SW GRANDSTAND CIRCLE LEE'S SUMMIT, MO 64081 816-589-4415 RPEARSON@BOXDEVCO.COM

SWPPP Contact(s):

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SWPPP Preparation Date:

03 / 30 / 2022

Estimated Project Dates:

Project Start Date: 04 / 15 / 2022 Project Completion Date: 09 / 01 / 2023

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Appendix G – SWPPP Amendment Log (or in Part 6.2)

Appendix H – Subcontractor Certifications/Agreements

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SECTION 1: SITE EVALUATION, ASSESSMENT, AND PLANNING

1.1 Project/Site Information

Project/Site Name: PERGOLA PARK 5 TH PLA	<u>1 T</u>	
Project Street/Location: 3200 SW PERGOLA P.	<u>ARK</u>	
City: <i>LEE'S SUMMIT</i>	State: <u>MO</u>	ZIP Code:
County or Similar Subdivision: <u>JACKSON COU</u>	<u>NTY</u>	
Latitude/Longitude (Use one of three possible for	ormats, and specify m	ethod)
Latitude:	Longitude:	
1. 38°54'7.23"N (degrees, minutes, seconds)	194°26'52.18"W (degre	ees, minutes, seconds)
2 °' N (degrees, minutes, decimal)	2 °' W (degr	ees, minutes, decimal)
3 ° N (decimal)	3 · ° W (decin	nal)
Method for determining latitude/longitude: ☐ USGS topographic map (specify scale:	<u>5</u>) ☐ EPA	Web site GPS
Is the project located in Indian country? Yes	⊠ No	
If yes, name of Reservation, or if not part of a R $\underline{\text{N/A}}$	eservation, indicate "r	not applicable."
Is this project considered a federal facility?	Yes	⊠ No
MDNR project or permit tracking number*: <u>MOR</u> *(This is the unique identifying number assigned authority after you have applied for coverage un Discharge Elimination System (NPDES) constru	d to your project by yo der the appropriate N	lational Pollutant

1.2 Contact Information / Responsible Parties

Owner(s):
NLV DEVELOPMENT COMPANY, LLC
ATTN: RUSSELL G. PEARSON
3152 SW GRANDSTAND CIRCLE
LEE'S SUMMIT, MO 64081
816-589-4415
RPEARSON@BOXDEVCO.COM
Insert area of control (if more than one operator at site):
Operator(s):
NLV DEVELOPMENT COMPANY, LLC
ATTN: RUSSELL G. PEARSON
3152 SW GRANDSTAND CIRCLE
LEE'S SUMMIT, MO 64081
816-589-4415
RPEARSON@BOXDEVCO.COM
Insert area of control (if more than one operator at site): Responsible Party - Project Manager or Site Supervisor: Insert Company or Organization Name:
Insert Name:
Insert Address:
Insert City, State, Zip Code:
Insert Telephone Number:
Insert Fax/Email:
Insert area of control (if more than one operator at site) :
This SWPPP was prepared by:
(Preparer is Not Contracted for SWP2 compliance documentation) Schlagel & Associates, P.A.
Mark A. Breuer, P.E.
14920 West107th Street
Lenexa, KS 66215
913-492-5158

mab@schlagelassociates.com

Subcontractor(s): See Appendix H for Subcontractor Certifications

Subcontractor Responsibility: GRADING/STREET CONTRACTOR
Company:
Project Superintendant:
Address:
City, State, Zip Code:
Telephone Number:
Subcontractor Responsibility: <u>SANITARY SEWER CONTRACTOR</u>
Company:
Project Superintendant:
Address:
City, State, Zip Code:
Telephone Number:
Subsentrator Pennancibility: OTHER CONTRACTOR
Subcontractor Responsibility: OTHER CONTRACTOR
Company:Project Superintendant:
Address:
Address:
City, State, Zip Code:
Telephone Number:
Subcontractor Responsibility: OTHER CONTRACTOR
Company:
Project Superintendant:
Address:
City, State, Zip Code:
Telephone Number:
Cub contractor Books in Hills a INCRECTOR
Subcontractor Responsibility: INSPECTOR
Company:
Project Superintendant:
Address:
City, State, Zip Code:
Telephone Number:

1.3 Nature and Sequence of Construction Activity

Describe the general scope of the work for the project, major phases of construction, etc.:

The scope of this project is limited to site grading for RESIDENTIAL development. See erosion and sediment control staging chart on attached erosion and sediment control plan.

What is the function of the construction activity?

Residential Commercial Industrial Road Construction Linear Utility

Other (please specify):

Estimated Project Start Date: 04 / 15 / 2022
Estimated Project Completion Date: 09 / 01 / 2023

1.4 Soils, Slopes, Vegetation, and Current Drainage Patterns

Soil type(s):

SEE ENCLOSED SOILS REPORT

Slopes (describe current slopes and note any changes due to grading or fill activities):

SEE ENCLOSED SOILS REPORT

Drainage Patterns (describe current drainage patterns and note any changes dues to grading or fill activities):

The drainage pattern is generally north to south and will not change based on grading Vegetation:

The vegetation is native prairie and weedy

Other:

N/A

1.5 Construction Site Estimates

The following are estimates of the construction site.

Total project area:

Construction site area to be disturbed:

Percentage impervious area before construction:

Runoff coefficient before construction:

Percentage impervious area after construction:

Runoff coefficient after construction:

0.30

Runoff coefficient after construction:

0.66

1.6 Receiving Waters

Description of receiving waters:

Old Longview Lake

Description of storm sewer systems:

City of Lee's Summit Storm Sewer System

Description of impaired waters or waters subject to TMDLs:

Other:

Description of unique features that are to be preserved:

Existing pond to the south

Describe measures to protect these features:

Silt fence and rock ditch checks (see Erosion Control Plan)

1.7 Site Features and Sensitive Areas to be protected

Sensitive or Protected Areas (50' from stream/defined channel)

None

Describe measures to protect these features (if applicable):

N/A

1.8 Potential Sources of Pollution

Potential sources of sediment to stormwater runoff:

Potential pollutants and sources, other than sediment, to stormwater runoff:

- Combined Staging Area small fueling activities, minor equipment maintenance, sanitary facilities, and hazardous waste storage.
- Materials Storage Area general building materials, solvents, adhesives, paving materials, paints, aggregates, trash, and so on.
- Construction Activity paving, curb/gutter installation, concrete pouring/mortar/stucco, and building construction.
- Concrete Washout Area.

For all potential construction site pollutants, see Table 2 – next page.

Table 2. Potential Construction Site Pollutants

Material	Physical Description	Stormwater Pollutants	Location*
Pesticides secticides, fungicides, herbicides, rodenticides)	Various colored to colorless liquid, powder, pellets, or grains	Chlorinated hydrocarbons, organophosphates, carbamates, arsenic	Herbicides used for noxious weed control
Fertilizer	Liquid or solid grains	Nitrogen, phosphorous	Newly seeded areas
Plaster	White granules or powder	Calcium sulphate, calcium carbonate, sulfuric acid	Building construction
Cleaning solvents	Colorless, blue, or yellow-green liquid	Perchloroethylene, methylene chloride, trichloroethylene, petroleum distillates	No equipment cleaning allowed in project limits
Asphalt	Black solid	Oil, petroleum distillates	Streets and roofing
Concrete	White solid/grey liquid	Limestone, sand, pH, chromium	Curb and gutter, building construction
Glue, adhesives	White or yellow liquid	Polymers, epoxies	Building construction
Paints	Various colored liquid	Metal oxides, Stoddard solvent, talc, calcium carbonate, arsenic	Building construction
Curing compounds	Creamy white liquid	Naphtha	Curb and gutter
Wood preservatives	Clear amber or dark brown liquid	Stoddard solvent, petroleum distillates, arsenic, copper, chromium	Timber pads and building construction
Hydraulic oil/fluids	Brown oily petroleum hydrocarbon	Mineral oil	Leaks or broken hoses from equipment
Gasoline	Colorless, pale brown or pink petroleum hydrocarbon	Benzene, ethyl benzene, toluene, xylene, MTBE	Secondary containment/staging area
Diesel Fuel	Clear, blue-green to yellow liquid	Petroleum distillate, oil & grease, naphthalene, xylenes	Second containment/staging area
Kerosene	Pale yellow liquid petroleum hydrocarbon	Coal oil, petroleum distillates	Secondary containment/staging area
Antifreeze / coolant	Clear green/yellow liquid	Ehtylene glycol, propylene glycol, heavy metals (copper, lead, zinc)	Leaks or broken hoses from equipment
Sanitary toilets	Various colored liquid	Bacteria, parasites, and viruses	Staging area

1.9 Endangered Species Certification

Are endangered or threatened species and critical habitats on or near the project area? ☐ Yes ☐ Possible
Describe how this determination was made:
The Missouri Department of Conservation was contacted. MDC issued a Natural Heritage Review Level 3 Report indicating Species Listed Under the Federal Endangered Species Act is a designated Natural Area. Please contact MDC Natural Area Coordinator 573-751-4115 for more information.
Please refer to the Project Type Recommendations in the attached report and coordinate with MDC as needed.
If yes, describe the species and/or critical habitat:
 Possible Endangered Species – Indiana Bats and Northern long-eared Bats may occur near the project area. During project activities avoid degrading stream quality and where possible leave snags standing and preserve mature forest canopy.
Possible Invasive exotic species.
Streams and Wetlands
Please refer to the Level 3 report for more information and contact MDC.
If yes, describe or refer to documentation that determines the likelihood of an impact of identified species and/or habitat and the steps taken to address that impact. (Note, species are on or near your project site, EPA strongly recommends that the site operator work closely with the appropriate field office of the U.S. Fish and Wildlife Service or National Marine Fisheries Service. For concerns related to state or tribal listing of species, please contact a state or tribal official.)
1.10 Historic Preservation
1.10 HIStoric Freservation
Are there any historic sites on or near the construction site? ☐ Yes ☐ No Describe how this determination was made:
If yes, describe or refer to documentation that determines the likelihood of an impact on this historic site and the steps taken to address that impact. N/A

1.11 Applicable Federal, Tribal, State or Local Programs

N/A

1.12 Maps

See Appendix B – Site Maps

SECTION 2: EROSION AND SEDIMENT CONTROL BMPS

The SWPPP Operator or Delegated Authority must identify the responsible staff for each BMP as either himself/herself or provide the responsible staff, along with their qualifications.

The required BMP devices proposed for this SWPPP, as well as their design specifications, installation, maintenance, and inspection requirements are provided on the attached Erosion Control Plan. The sections below describe the general categories of the BMPs, and identify the Responsible party for each category.

2.1 Minimize Disturbed Area and Protect Natural Features and Soil

Top Soil

BMP Description:

Topsoil stripped from the site will be stockpiled as identified on the site map. Protect existing vegetation and other natural feature areas as indicated on the site map. Establish perimeter sediment controls prior to grading activities per Section 2.7.

Installation Schedule:	See attached Erosion and Sediment Control Plan.		
Maintenance and Inspection:	Inspect weekly for erosion and after storm events. Maintenance and inspections procedures are described in Section 2.		
Responsible Staff:			

Phase Construction

BMP Description:

This project is intended to take place in one phase, due to the nature of the construction. Once the fills have been placed, the site is to be immediately stabilized with permanent vegetation, as defined by this document.

Installation Schedule:	See attached Erosion and Sediment Control Plan.	
Maintenance and Inspection:	Inspect weekly for erosion and after storm events. Maintenance and inspections procedures are described in Section 2.	
Responsible Staff:		

Existing Vegetation

BMP Description:

The preserved area of vegetation, as identified on the site map, will be surrounded by a temporary orange colored plastic mesh fence. Clearing and grubbing within 50 feet of a defined drainage channel should be avoided, if feasible. The fencing shall be at least three feet tall and the openings shall not be larger than 2 inches by 2 inches. The fencing shall be installed at the drip lines of the trees and undergrowth vegetation to be protected.

Installation Schedule:	Prior to construction activities
Maintenance and Inspection:	Inspect weekly to ensure fence is intact and visible.
Responsible Staff:	

2.2 Phase Construction Activity

See Section 1.3 for Sequence of Construction Activity

REFER TO CONSTRUCTION PHASING FROM PLANS

BMP Description:			
	to take place in one phase, due to the nature of the		
	s have been placed, the site is to be immediately stabilized		
	as defined by this document.		
Installation Schedule:	See attached Erosion and Sediment Control Plan		
Maintenance and			
Inspection:			
Responsible Staff:			
2.3 Control Stormwater Flowing onto and through the Project Vegetated Swale – N/A			
BMP Description:			
Installation Schedule:			
Maintenance and Inspection:			
Responsible Staff:			
2.3 Stabilize Soils			
Temporary Stabilization			
BMP Description: Topsoil stock piles and disturbed portions of the site where construction activity temporarily ceases for more than 14 days will be stabilized with temporary seed and mulch no more than 14 days from the last construction activity in that area. The temporary seed shall be as specified below. After seeding, each area shall be mulched with 2,000 pounds per acre of straw. The straw mulch is to be tacked into place by a disk with blades set nearly straight. Seeding Rate: Dec. 1 - March 1 80 lbs/acre oat grain			
	1 - Dec. 1 80 lbs/acre cereal rye or wheat		
Permanent			
	• •		

Installation Schedule:	Portions of the site where construction activities have ceased for more than 14 days.	
Maintenance and Inspection:	Weekly and after rain events. If washout, breakage, or erosion occurs, the area will be repaired and re-seeded and mulched.	
Responsible Staff:		

Permanent Stabilization

BMP Description: Stabilization shall be initiated immediately at disturbed portions of the site where construction activities have permanently ceased. The permanent seed mix shall consist of 80 lbs/acre tall fescue, and 40 lbs/acre kobe lespedeza or another mix as determined by the Landscape Architect. After seeding, each area shall be mulched with 4,000 pounds per acre of straw. The straw mulch is to be tacked into place by a disk with blades set nearly straight.

	☐ Temporary
Installation Schedule:	Permanent stabilization shall be initiated immediately where construction has permanently ceased.
Maintenance and Inspection:	Weekly and after rain events until a dense cover of vegetation is established. If failure is noticed, the area will be reseeded, fertilized, and mulched immediately.
Responsible Staff:	

Dust Control

BMP Description: Dust from the site will be controlled by using a mobile pressure-type distributor truck to apply potable water to disturbed areas. The mobile unit will apply water at a rate of 300 gallons per acre and minimized as necessary to prevent runoff and ponding.

Installation Schedule:	Dust control will be implemented as needed once site grading has been initiated and during windy conditions (forecasted or actual wind conditions of 20 mph or greater) while site grading is occurring. Spraying of potable water will be performed no more than three times a day during the months of May-September and
Maintenance and Inspection:	
Responsible Staff:	

2.5 Protect Slopes - N/A

BMP Description:	
Installation Schedule:	
Maintenance and Inspection:	
Responsible Staff:	

2.6 Protect Storm Drain Inlets

Existing Storm Drain Inlets

BMP Description:

Existing storm drain inlets, as indicated on the site plan, will be protected from sediment by gravel bag filters or other approved commercially available protection devices. Proposed inlets will be protected during site grading activities as well as after street construction using the BMP identified on the site plan.

Installation Schedule:	See attached Erosion and Sediment Control Plan
Maintenance and Inspection:	The catch basin inserts will be inspected weekly and immediately after storm events. If the basin insert becomes clogged with sediment, the insert will be removed and cleaned or replaced per the manufacturer's recommendations. See attached Erosion and Sediment Control Plan
Responsible Staff:	INSERT INFORMATION
BMP Description:	
Installation Schedule:	
Maintenance and Inspection:	
Responsible Staff:	

2.7 Establish Perimeter Controls and Sediment Barriers

Silt Fence

BMP Description:

Silt fences will be installed along the perimeters of the site and around the topsoil stockpile. Mulch berms may also be used where acceptable. See attached Erosion and Sediment Control Plan.

Installation Schedule:	See attached Erosion and Sediment Control Plan.
Maintenance and	Silt fences will be inspected weekly and immediately after

Inspection:	storm events to ensure it is intact and that there are no gaps where the fence meets the ground or tears along the length of the fence. If gaps or tears are found during the inspection, the fabric will be repaired or replaced immediately. Accumulated sediment will be removed from the fence base if it reaches one-third the height of the silt fence and hauled off-site for disposal at an approved landfill. If accumulated sediment is creating noticeable strain on the fabric and the fence might fail from a sudden storm event, the sediment will be removed more frequently. Before the fence is removed from the project area, the sediment will be removed. The anticipated life span of the silt fence is 6 months and will likely need to be replaced after this period. See attached Erosion and Sediment Control Plan
Responsible Staff:	INSERT INFORMATION
BMP Description:	
Installation Schedule:	
Maintenance and Inspection:	
Responsible Staff:	

2.8 Retain Sediment On-Site

Sediment Trap - N/A

BMP Description:	
Installation Schedule:	
Maintenance and Inspection:	
Responsible Staff:	

2.9 Establish Stabilized Construction Exits

Stabilized Construction Exits

BMP Description:

Construction exits will be installed at locations indicated on the site plan. The construction exits will be at least 50 feet long, a minimum of 10 feet wide, flared at the end closest to the paved road, and will consist of a 6-inch-thick layer of crushed stone (2 inches in diameter). The crushed stone will be placed over a layer of geotextile filter fabric to reduce the mitigation of sediment from the underlying soil. For design specifications, see erosion control details attached.

Installation Schedule:	The stabilized exits will be installed before construction begins on the site. The stone will remain in place until the subgrade of pavement is installed at the site. See attached Erosion and Sediment Control Plan
Maintenance and Inspection:	The exits will be inspected weekly and after storm events or heavy use. The exits will be maintained in a condition that will prevent tracking or flowing of sediment onto adjacent streets. This could require adding additional crushed stone to the exit. All sediment tracked, spilled, dropped, or washed onto and adjacent streets will be swept up immediately and hauled off-site for disposal at an approved landfill. If excess sediment has clogged the pad, the exit will be topdressed with new crushed stone. Replacement of the entire pad might be necessary when the pad becomes completely filled with sediment. The pad will be reshaped as needed for drainage and runoff control. Broken road pavement as a result of construction activities on roadways immediately adjacent to the project site will be repaired immediately. The stone anti-tracking pad will be removed before the subgrade of pavement is applied to the

	parking lot.
Responsible Staff:	INSERT INFORMATION
BMP Description:	
Installation Schedule:	
Maintenance and Inspection:	
Responsible Staff:	

2.10 Additional BMPs

Additional BMPs may be required as the project progresses, or if any of the proposed devices are determined to be inadequate. These BMPs will be provided below.

BMP Description:	
Installation Schedule:	
Maintenance and Inspection:	
Responsible Staff:	
BMP Description:	
Installation Schedule:	
Maintenance and Inspection:	
Responsible Staff:	

SECTION 3: GOOD HOUSEKEEPING BMPS

3.1 Material Handling and Waste Management

Waste Materials

BMP Description:

All waste materials will be collected and disposed of into two metal trash dumpsters in the materials storage area. Dumpsters will have a secure watertight lid, be placed away from stormwater conveyances and drains, and meet all federal, state, and municipal regulations. Only trash and construction debris from the site will be deposited in the dumpster.

Installation Schedule: Trash dumpsters will be installed once the materials

	storage area has been established
Maintenance and Inspection:	The dumpsters will be inspected weekly and immediately after storm events. The dumpster will be emptied weekly and taken to an approved sanitary landfill. If trash and construction debris are exceeding the dumpster's capacity, the dumpsters will be emptied more frequently.
Responsible Staff:	

Hazardous Waste Materials

BMP Description:

All hazardous waste materials such as oil filters, petroleum products, paint, and equipment maintenance fluids will be stored in structurally sound and sealed shipping containers, within the hazardous materials storage area. Hazardous waste materials will be stored in appropriate and clearly marked containers and segregated from other non-waste materials. Secondary containment will be provided for all waste materials in the hazardous materials storage area and will consist of commercially available spill pallets. Additionally, all hazardous waste materials will be disposed of in accordance with federal, state, and municipal regulations. Hazardous waste materials will not be disposed of into the on-site dumpsters. All personnel will be instructed, during tailgate training sessions, regarding property procedures for hazardous waste disposal. Notices that state these procedures will be posted in the office trailer and the individual who managers day-to-day site operations will be responsible for seeing that these procedures are followed.

•	
Installation Schedule:	Shipping containers used to store hazardous waste materials will be installed once the site materials storage area has been installed.
Maintenance and Inspection:	The hazardous waste material storage areas will be inspected weekly and after storm events. The storage areas will be kept clean, well organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Material safety data sheets, material inventory, and emergency contact numbers will be maintained in the office trailer.
Responsible Staff:	

Sanitary Waste

BMP Description:

Two temporary sanitary facilities (portable toilets) will be provided at the site throughout the construction phase. The toilets will be in the staging area. The portable toilets will be located away from a concentrated flow paths and traffic flow and will have collection pans underneath as secondary containment.

Installation Schedule:	The portable toilets will be brought to the site once the staging area has been established.
Maintenance and Inspection:	All sanitary waste will be collected from the portable facilities a minimum of three times per week by a licensed sanitary waste management contractor. The portable toilets will be inspected weekly for evidence of leaking holding tanks. Toilets with leaking holding tanks will be removed from the site and replaced with new portable toilets.
Responsible Staff:	

Recycling - N/A

3.2 Establish Proper Building Material Staging Areas

Materials Storage Area

BMP Description: Construction equipment and maintenance materials will be stored at the combined staging area and materials storage areas. Gravel bag berms will be installed around the perimeter to designate the staging and materials storage area. A watertight shipping container will be used to store hand tools, small parts, and other construction materials. Non-hazardous building materials such as packaging material (wood, plastic, and glass), and construction scrap material (brick, wood, steel, metal scraps, and pipe cuttings) will be stored in a separate covered storage facility adjacent to the shipping container. All hazardous-waste materials such as oil filters, petroleum products, paint, and equipment maintenance fluids will be stored in structurally sound and sealed containers under cover within the hazardous materials storage area.

Installation Schedule:	The materials storage area will be installed after grading and before any infrastructure is constructed at the site.
Maintenance and Inspection:	The storage area will be inspected weekly and after storm events. The storage area will be kept clean, well organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls,

	containment structures, covers, and liners will be repaired or replaced as needed to maintain proper function
Responsible Staff:	
BMP Description:	
Installation Schedule:	
Maintenance and Inspection:	
Responsible Staff:	

3.3 Designate Washout Areas

Concrete Washout

BMP Description:

A designated temporary, above-grade concrete washout area will be constructed as detailed on the site map. The temporary concrete washout area will have a a recommended minimum length and minimum width of 10 feet, but with sufficient quantity and volume to contain all liquid and concrete waste generated by washout operations. The washout area will be lined with plastic sheeting at least 10 mils thick and free of any holes or tears. Signs will be posted marking the location of the washout area to ensure that concrete equipment operators use the proper facility.

Concrete pours will not be conducted will not be conducted during or before an anticipated storm event. Concrete mixer trucks and chutes will be washed in the designated area or concrete wastes will be properly disposed of off-site. When the temporary washout area is no longer needed for the construction project, the hardened concrete and materials used to construct the area will be removed and disposed of according to the maintenance section below, and the area will be stabilized.

Installation Schedule:	The washout area will be constructed before concrete pours occur at the site.
Maintenance and Inspection:	The washout areas will be inspected daily to ensure that all concrete washing is being discharged into the washout area, no leaks or tears are present, and to identify when concrete wastes need to be removed. The washout areas will be cleaned out once the area is filled to 75 percent of the holding capacity. Once the area's holding capacity has been reached, the concrete wastes will be allowed to harden; the concrete will be broken up, removed, and taken to an approved landfill for disposal. The plastic sheeting will be replaced if tears occur during removal of concrete wastes from the washout area.
Responsible Staff:	
BMP Description:	
Installation Schedule:	
Maintenance and Inspection:	
Responsible Staff:	

3.4 Establish Proper Equipment/Vehicle Fueling and Maintenance Practices

Vehicle/Equipment Fueling and Maintenance

BMP Description:

Several types of vehicles and equipment will be used on-site throughout the project, including graders, scrapers, excavators, loaders, paving equipment, rollers, trucks and trailers, backhoes, and forklifts. All major equipment/vehicle fueling and maintenance will be performed off-site. Only minor equipment maintenance will occur on-site. All equipment fluids generated from maintenance activities will be disposed of into designated drums stored on spill pallets in accordance with Part 3.1. Absorbent, spill-cleanup materials and spill kits will be available at the combined staging and materials storage area. Drip pans will be placed under all equipment receiving maintenance and vehicles and equipment parked overnight.

Installation Schedule:	BMPs implemented for equipment and vehicle maintenance and fueling activities will begin at the start of the project.
Maintenance and Inspection:	Inspect equipment/vehicle storage areas and fuel tank weekly and after storm events. Vehicles and equipment will be inspected on each day of use. Leaks will be repaired immediately, or the problem vehicle(s) or equipment will be removed from the project site. Keep ample supply of spill-cleanup materials on-site and immediately clean up spills and dispose of materials properly.
Responsible Staff:	
BMP Description:	
Installation Schedule:	
Maintenance and Inspection:	
Responsible Staff:	

3.5 Control Equipment/Vehicle Washing

BMP Description:		
All equipment and vehicle washing will be performed off-site		
Installation Schedule:	n/a	
Maintenance and Inspection:	n/a	
Responsible Staff:		
BMP Description:		
Installation Schedule:		
Maintenance and Inspection:		
Responsible Staff:		

3.6 Spill Prevention and Control Plan

Spill Prevention and Control Procedures

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff.

Hazardous Materials

BMP Description: The following good housekeeping practices will be followed on-site during the construction period.

- An effort will be made to store only enough product required to do the job.
- All materials stored onsite will be stored in a neat, orderly manner in their appropriate containers and, if possible, under a roof or other enclosure.
- Products will be kept in their original containers with the original manufacturer's label.
- Substances will not be mixed with one another unless recommended by the manufacturer.
- Manufacturer's recommendations for proper use and disposal will be followed.
- The site superintendent will inspect daily to ensure proper use and disposal of materials onsite.

These practices are used to reduce the risks associated with hazardous materials.

- Products will be kept in original containers unless they are not resealable.
- Original labels and material safety data will be retained; they contain important product information.

If surplus product must be disposed of, manufacturers' or local and State recommended methods for proper disposal will be followed.

Installation Schedule:	The spill prevention and control procedures will be implemented once construction begins on-site.
Maintenance and Inspection:	All personnel will be instructed, during tailgate training sessions, regarding the correct procedures for spill prevention and control. Notices that state these practices will be posed in the office trailer, and the individual who manages day-to-day site operations will be responsible for seeing that these procedures are followed.
Responsible Staff:	

Product Specific Practices

The following product specification will be followed onsite:

Petroleum Products

BMP Description:

All onsite vehicles will be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled. Any asphalt substances used onsite will be applied according to the manufacturer's recommendations.

Installation Schedule:	n/a
Maintenance and	n/a
Inspection:	
Responsible Staff:	n/a

Fertilizers

BMP Description:

Fertilizers, used will be applied only in the minimum amounts as recommended by the manufacturer. Once applied, fertilizer will be worked into the soil to limit exposure to storm water. Storage will be in a covered shed. The contents of any partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid spills.

Installation Schedule:	n/a
Maintenance and	n/a
Inspection:	
Responsible Staff:	n/a

Concrete Trucks

BMP Description:

Concrete trucks are limited to designated controlled area to wash out or discharge surplus concrete or drum wash water on the site. Proper signage shall be installed and maintained on site defining directions to and locations of the specified wash out area. If a wash out area cannot be designated or maintained on site, concrete wash out and disposal may be prohibited at the owner's discretion.

Installation Schedule:	n/a
Maintenance and Inspection:	n/a
Responsible Staff:	n/a

3.7 Any Additional BMPs

BMP Description: No addi	itional BMPs were identified
Installation Schedule:	
Maintenance and Inspection:	
Responsible Staff:	
BMP Description:	
Installation Schedule:	
Maintenance and Inspection:	
Responsible Staff:	

3.8 Allowable Non-Stormwater Discharge Management

List allowable non-stormwater discharges and the measures used to eliminate or reduce them and to prevent them from becoming contaminated:

Type of Authorized Non-Stormwater Discharges	Likely to be Present at Your Site?
Discharges from emergency fire-fighting activities	☐ Yes ⊠ No
Fire hydrant flushings	
Landscape irrigation	
Waters used to wash vehicles and equipment (soaps/solvents are not used and external surfaces do not contain hazardous substances)	☐ Yes ☒ No
Water used to control dust	
Potable water including uncontaminated water line flushings	
External building washdown (soaps/solvents are not used and external surfaces do not contain hazardous substances)	☐ Yes ☒ No
Pavement wash waters (soaps/solvents are not used and external surfaces do not contain hazardous substances)	☐ Yes ☒ No
Uncontaminated air conditioning or compressor condensate	☐ Yes ☒ No
Uncontaminated, non-turbid discharges of ground water or spring water	
Foundation or footing drains	
Construction dewatering water	

SECTION 4: INSPECTIONS

4.1 Inspections

. Inspection Personnel: Identify the person(s) who will be responsible for conducting inspections and describe their qualifications (person meeting all loca state, and federal requirements:	ıl,
RIMARY INSPECTOR - NAME:QUALIFICATIONS	
•	
In absence of the primary inspector will conduct inspection	IS.
SECONDARY INSPECTOR - NAME:QUALIFICATIONS	
•	

2. Inspection Schedule and Procedures:

Describe the inspection schedules and procedures you have developed for your site (include frequency of inspections for each BMP or group of BMPs, indicate when you will inspect, e.g., before/during/and after rain events, spot inspections):

Describe the general procedures for correcting problems when they are identified. Include responsible staff and time frames for making corrections:

Attach a copy of the inspection report you will use for your site. REFERENCE ATTACHMENT

4.2 Delegation of Authority

Duly Authorized Representative(s) or Position(s):

Insert Company or Organization Name:

Insert Name:

Insert Position:

Insert Address:

Insert City, State, Zip Code:

Insert Telephone Number:

Insert Fax/Email:

(Attach a copy of the signed delegation of authority form in Appendix K.)

4.3 Corrective Action Log

Corrective Action Log:

See Appendix "F"

SECTION 5: RECORDKEEPING AND TRAINING

5.1 Recordkeeping

Records will be retained for a minimum period of at least 3 years after the permit is terminated.

Date(s) when major grading activities occur:

INSERT LOG HERE or REFERENCE ATTACHMENT

Date(s) when construction activities temporarily or permanently cease on a portion of the site:

INSERT LOG HERE or REFERENCE ATTACHMENT

Date(s) when an area is either temporarily or permanently stabilized:

INSERT LOG HERE or REFERENCE ATTACHMENT

5.2 Log of Changes to the SWPPP

Log of changes and updates to the SWPPP See Appendix "G"

5.3 Training

Individual(s) Responsible for Training:

See Appendix "J"

Describe Training Conducted:

- General stormwater and BMP awareness training for staff and subcontractors:
- Detailed training for staff and subcontractors with specific stormwater responsibilities:
- As required to address deficiencies.

SECTION 8: CERTIFICATION AND NOTIFICATION

Certification Statement

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Permittee			
Print	Print		
Name:	Title:		
Permittee Signature		Date:	

Repeat as needed for multiple construction operators at the site

SWPPP APPENDICES

Attach the following documentation to the SWPPP:

Appendix A – General Location Map

Appendix B - Site Maps

Appendix C – Construction General Permit

Appendix D – NOI and Acknowledgement Letter from EPA/State

Appendix E – Inspection Reports

Appendix F – Corrective Action Log (or in Part 5.3)

Appendix G – SWPPP Amendment Log (or in Part 6.2)

Appendix H – Subcontractor Certifications/Agreements

Appendix I – Grading and Stabilization Activities Log (or in Part 6.1)

Appendix J - Training Log

Appendix K – Delegation of Authority

Appendix L – Additional Information (i.e., Endangered Species and Historic Preservation Documentation)

Appendix A: General Location Map

Appendix B: Site Maps

Appendix C: Construction General Permit

Appendix D: NOI and Acknowledgement Letters

Appendix E: Sample Inspection Report

When conducting the inspection, walk the site by following your site map and numbered BMPs/areas for inspection. Also note whether the overall site issues have been addressed (customize this list according to the conditions at your site). Note any required corrective actions and the date and responsible person for the correction in the Corrective Action Log.

Stormwater Construction Site Inspection Report

General Information				
Project Name				
NPDES Tracking No.	Location			
Date of Inspection	Start/End T	ime		
Inspector's Name(s)		·		
Inspector's Title(s)				
Inspector's Contact Information	Address:City, State, Zip Code:			
	Telephone: Em	ail:		
Inspector's Qualifications				
Describe present phase of construction				
Type of Inspection: ☐ Regular ☐ Pre-storm event	☐ During storm event ☐ Post-s	torm event		
Weather Information				
Has there been a storm event since the last inspection? □Yes □No If yes, provide: Storm Start Date & Time: Storm Duration (hrs): Approximate Amount of Precipitation (in):				
Weather at time of this inspection? □ Clear □ Cloudy □ Rain □ Sleet □ Fog □ Snowing □ High Winds □ Other: Temperature:				
Have any discharges occurred since the last inspection? □Yes □No If yes, describe:				
Are there any discharges at the tin If yes, describe:	Are there any discharges at the time of inspection? □Yes □No If yes, describe:			

Site-specific BMPs

- Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required BMPs at your site.
- Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.

	BMP	BMP	BMP	Corrective Action Needed and Notes
		Installed?	Maintenance	
			Required?	
1		□Yes □No	□Yes □No	
2		□Yes □No	□Yes □No	
3		□Yes □No	□Yes □No	
4		□Yes □No	□Yes □No	
5		□Yes □No	□Yes □No	

	BMP	BMP	BMP	Corrective Action Needed and Notes
		Installed?	Maintenance	
			Required?	
6		□Yes □No	□Yes □No	
7		□Yes □No	□Yes □No	
8		□Yes □No	□Yes □No	
9		□Yes □No	□Yes □No	
10		□Yes □No	□Yes □No	
11		□Yes □No	□Yes □No	
12		□Yes □No	□Yes □No	
13		□Yes □No	□Yes □No	
14		□Yes □No	□Yes □No	
15		□Yes □No	□Yes □No	
16		□Yes □No	□Yes □No	
17		□Yes □No	□Yes □No	
18		□Yes □No	□Yes □No	
19		□Yes □No	□Yes □No	
20		□Yes □No	□Yes □No	

Overall Site Issues

Below are some general site issues that should be assessed during inspections. Customize this list as needed for conditions at your site.

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	□Yes □No	□Yes □No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	□Yes □No	□Yes □No	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	□Yes □No	□Yes □No	
4	Are discharge points and receiving waters free of any sediment deposits?	□Yes □No	□Yes □No	
5	Are storm drain inlets properly protected?	□Yes □No	□Yes □No	
6	Is the construction exit preventing sediment from being tracked into the street?	□Yes □No	□Yes □No	
7	Is trash/litter from work areas collected and	□Yes □No	□Yes □No	

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
	placed in covered dumpsters?			
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	□Yes □No	□Yes □No	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	□Yes □No	□Yes □No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	□Yes □No	□Yes □No	
11	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	□Yes □No	□Yes □No	
12	(Other)	□Yes □No	□Yes □No	
			Non-Compli	ance
Des	cribe any incidents of non-c	compliance not des	scribed above:	
		e or at the record	s storage location	of the inspection. Permittee shall maintain site identified in the NOI. The Permittee shall EPA upon request.
	Inspector Print name and title:			
	Inspector Signature:		<i>A Y</i>	Date:
	(Signed by	person performin	g the Inspection)	

Appendix F – Sample Corrective Action Log

Project Name: SWPPP Contact:

Inspection Date	Inspector Name(s)	Description of BMP Deficiency	Corrective Action Needed (including planned date/responsible person)	Date Action Taken/Responsible person

Appendix G – Sample SWPPP Amendment Log

Project Name: SWPPP Contact:

Amendment No.	Description of the Amendment	Date of Amendment	Amendment Prepared by [Name(s) and Title]

Appendix H – Sample Subcontractor Certifications/Agreements

SUBCONTRACTOR CERTIFICATION STORMWATER POLLUTION PREVENTION PLAN

EPA SWPPP Template, Version 1.1, September 17, 2007

Appendix I – Sample Grading and Stabilization Activities Log

Project Name: SWPPP Contact:

Date Grading Activity Initiated	Description of Grading Activity	Date Grading Activity Ceased (Indicate Temporary or Permanent)	Date When Stabilization Measures are Initiated	Description of Stabilization Measure and Location

Appendix J – Sample SWPPP Training Log

Stormwater Pollution Prevention Training Log

Proje	ect Name:					
Proje	Project Location:					
Instr	uctor's Name(s):					
Instr	uctor's Title(s):					
Cour	se Location:			Date:		
Cour	se Length (hours):					
Storr	mwater Training Topic: (chec	k as appropria	ate)		
□ E	Erosion Control BMPs		Emergency	Procedures		
	Sediment Control		Good House	ekeeping BMPs		
	Non-Stormwater BMPs					
Atter	ndee Roster: <i>(attach add</i>	litiona	al pages as ne	ecessary)		
No.	Name of Attendee			Company		
1						
2						
3						
4 5						
5 6						
7						
8						
9						
10						

Appendix K – Sample Delegation of Authority Form

Delegation of Authority

(name), hereby designate the person or specifically escribed position below to be a duly authorized representative for the purpose of verseeing compliance with environmental requirements, including the Construction eneral Permit, at the construction site. he designee is authorized to sign any reports, stormwater pollution prevention plans and all other documents required by the permit.
(name of person or position) (company) (address) (city, state, zip) (phone)
y signing this authorization, I confirm that I meet the requirements to make such a esignation as set forth in (Reference tate Permit), and that the designee above meets the definition of a "duly authorized epresentative" as set forth in (Reference tate Permit).
certify under penalty of law that this document and all attachments were prepared order my direction or supervision in accordance with a system designed to assure that ualified personnel properly gathered and evaluated the information submitted. Based or my inquiry of the person or persons who manage the system, or those persons rectly responsible for gathering the information, the information submitted is, to the lest of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
ame:
ompany:
itle:
ignature:
ate:

Appendix L: Additional Information