Stormwater Pollution Prevention Plan (SWPPP)

For Construction Activities At:

University of Missouri – St. Louis
1 University Blvd.
St. Louis, MO 63121
(314) 516-6100

SWPPP Preparation Date:

02/15/2023

Estimated Project Dates:

Project Start Date: 04/15/2023

Project Completion Date: 06/30/2026

Contents

SECTION 1: CONTACT INFORMATION/RESPONSIBLE PARTIES

1.1 Operator(s) / Subcontractor(s)

Operator(s):

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)

[Repeat as necessary.]

Subcontractor(s):

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)

[Repeat as necessary.]

Emergency 24-Hour Contact:

University of Missouri – St. Louis Police Department
Dispatch
(314) 516-5155

1.2 Contacts

Stormwater Team

Name and/or Position, and Contact	Responsibilities
Matt Prsha Facilities Director (314) 516-6340 mprsha@umsl.edu	UMSL Facilities Director
Blake Sutter Assistant Director of Planning and Design (314) 516-6100 pbsy9f@umsl.edu	UMSL Assistant Director, Planning and Design • Install controls • Implement housekeeping programs • Maintain BMPs • Communicate SWPPP requirements to persons working on site
Michael Martin CSM Project Manager (314) 516-4436 mcmz72@umsystem.edu	UMSL Project Manager • Install controls • Implement housekeeping programs • Maintain BMPs • Communicate SWPPP requirements to persons working on site
Bobby Spence Construction Manager (314) 516-6423 spenceb@umsl.edu	UMSL Construction Manager • Install controls • Implement housekeeping programs • Maintain BMPs • Communicate SWPPP requirements to personas working on site
Brian Ferris EHSS Manager (314) 516-6300 Insert Email	UMSL EHSS Manager • Environmental oversight
Rachel Henken Insert Position (314) 516-6367 rachel.henken@umsl.edu	UMSL EHSS • Permit coordinator • Document changes to SWPPP • Quarterly reports to MOGEM • Maintains documents

Stormwater Inspectors

Name and/or Position and Contact	Training(s) Received	Date Training(s) Completed	If Training is a Non-EPA Training, Confirm that it Satisfies the Minimum Elements of CGP Part 6.3.b
Insert Name of Responsible Person Insert Position Insert Telephone Number Insert Email	Insert Title of Training Received	Date: Click here to enter a date.	☐ Principles and practices of erosion and sediment control and pollution prevention practices at construction sites ☐ Proper installation and maintenance of erosion and sediment controls and pollution prevention practices used at construction sites ☐ Performance of inspections, including the proper completion of required reports and documentation, consistent with the requirements of Part 4
Insert Name of Responsible Person Insert Position Insert Telephone Number Insert Email	Insert Title of Training Received	Date: Click here to enter a date.	☐ Principles and practices of erosion and sediment control and pollution prevention practices at construction sites ☐ Proper installation and maintenance of erosion and sediment controls and pollution prevention practices used at construction sites ☐ Performance of inspections, including the proper completion of required reports and documentation, consistent with the requirements of Part 4
Insert Name of Responsible Person Insert Position Insert Telephone Number Insert Email	Insert Title of Training Received	Date: Click here to enter a date.	☐ Principles and practices of erosion and sediment control and pollution prevention practices at construction sites ☐ Proper installation and maintenance of erosion and sediment controls and pollution prevention practices used at construction sites ☐ Performance of inspections, including the proper completion of required reports and documentation, consistent with the requirements of Part 4

SECTION 2: SITE EVALUATION, ASSESSMENT, AND PLANNING

2.1 Project/Site Information

Project Name and Address

Project/Site Name: University of Missouri-St. Louis
Street/Location: 1 University Blvd.
City: St. Louis
State: Missouri
ZIP Code: 63121

Additional Project Location Information
The University of Missouri-St. Louis (UMSL) is located at 1 University Blvd., St. Louis, Missouri in St. Louis County. UMSL is located in Section 28, Township 64N, Range 6E. The North Campus is bordered on the north by University Place Drive, on the east by University Blvd, on the south by Natural Bridge Road, and on the west by West Drive.

2.2 Discharge Information

Storm Sewer Outfalls - Last Updated February 2023				
Outfall #	*Coordinates*		*Location Details*	*Receiving Water Body*
1	38.711675	-90.312231	W of West Drive, across from S. edge of Express Scripts Hall	Maline Creek
2	38.710123	-90.313159	W of West Drive, across from S. edge of WDPG entrance	Maline Creek
3	38.708447	-90.314374	W of West Drive, across from S. edge of Benton Dock driveway	Maline Creek
4	38.707764	-90.314761	W of West Drive, across from S. edge of SLB parking lot driveway	Maline Creek
5	38.703301	-90.308757	W of Marillac Dr. just N of University Meadows entrance	Engleholm Creek
6	38.70172	-90.307781	NE corner of wooded property S. of University Meadows	Engleholm Creek
7	38.701726	-90.307323	W of South Dr. across from N. edge of Provincial House Chapel	Engleholm Creek
8	38.701474	-90.307091	W of South Dr. across from S. edge of Provincial House Chapel	Engleholm Creek

2.3 Nature of the Construction Activities

Project List

Location	*Acreage Disturbed*	*Project Type*
Post Office	1.25	Demolition
SSB Elevator/SSB Tower	0.75	Addition of exterior elevator and demolition of tower building
Welcome Center	1.25	Demolition and construction of new building
Sassen Building	1.75	Demolition
Marillac Hall, South Campus Computer Classroom, South Campus Classroom, Education Administration Building	5.00	Demolition
Music Building	2.00	Demolition
West Dr. Basin	4.50	Expansion

Pollutant-Generating Activities

Source	Storm Water Pollutant(s)
Clearing, grading, excavating	• Sediment • Trash and debris
Construction truck traffic	• Sediment • Oil & Grease • Antifreeze / coolant • Windshield washer fluid • Brake fluid • Gasoline / Diesel fuel • Transmission fluid • Battery acid
Washout	• Sediment • pH • Metals
Construction equipment	• Sediment • Oil & Grease • Antifreeze / coolant • Windshield washer fluid • Brake fluid • Gasoline / Diesel fuel • Transmission fluid • Battery acid
Material delivery and lay down area	• Metals • pH • Oil & Grease • Herbicides and pesticides • Trash and debris
Final landscaping	• Sediment • Nutrients • Trash and debris

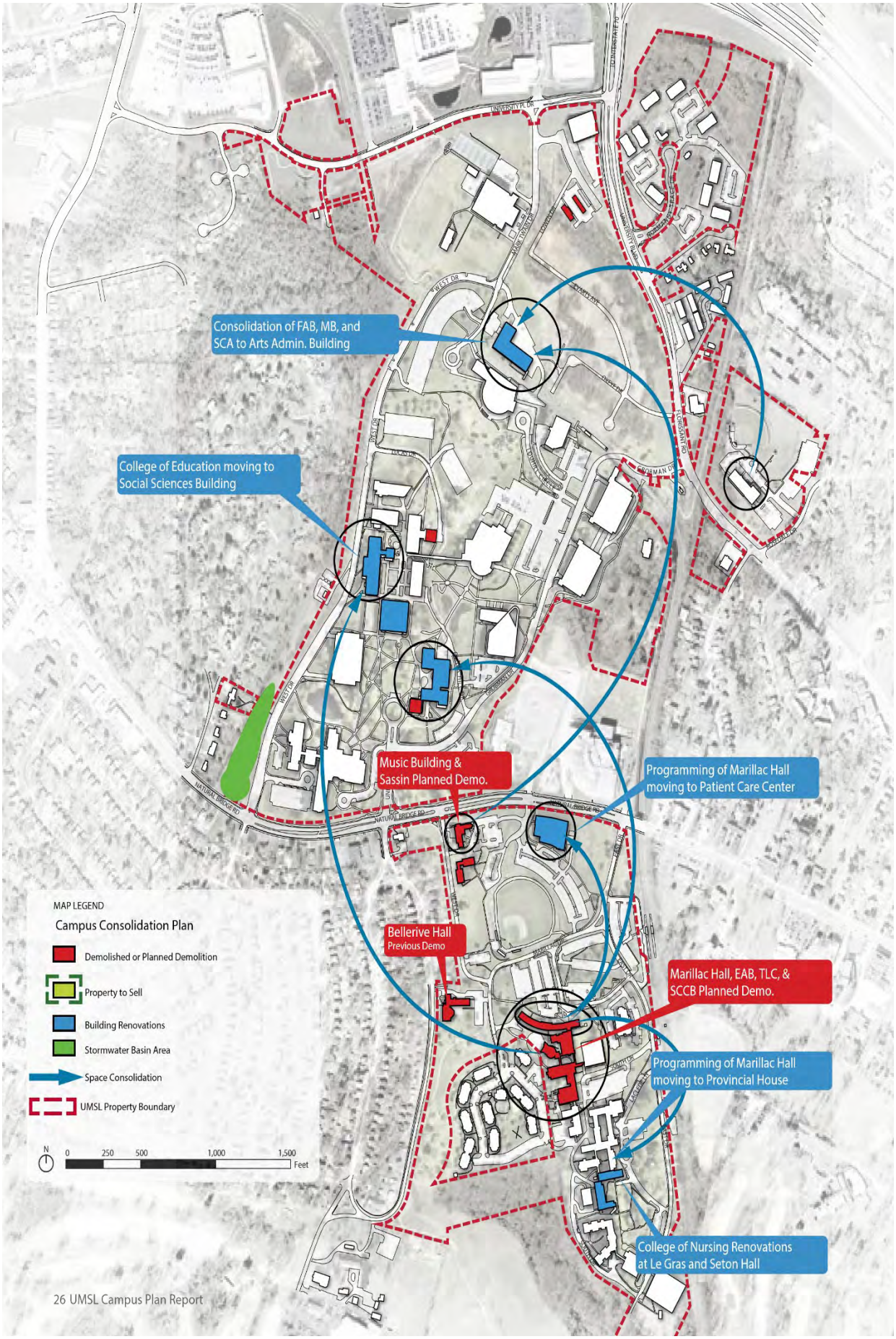
2.4 Sequence and Estimated Dates of Construction Activities

2.5 Authorized Non-Stormwater Discharges

List of Authorized Non-Stormwater Discharges Present at the Site

1. Discharges from emergency fire-fighting activities
2. Hydrant flushing and water line flushing, provided the discharged water is managed to avoid instream water quality impacts
3. Landscape watering, including to establish vegetation
4. Water used to control dust
5. Waters used to rinse vehicles and equipment, provided there is no discharge of soaps, solvents, or detergents used for such purposes
6. External building washdown, provided soaps, solvents, and detergents are not used, and external surfaces do not contain hazardous substances (e.g., paint or caulk containing polychlorinated biphenyls (PCBs)
7. Pavement wash waters, provided spills or leaks of toxic or hazardous substances have not occurred (unless all spill material has been removed) and where soaps, solvents, and detergents are not used. Directing pavement wash waters directly into any water of the state, storm drain inlet, or stormwater conveyance (constructed or natural site drainage features), unless the conveyance is connected to an effective control, is prohibited
8. Uncontaminated air conditioning or compressor condensate
9. Uncontaminated, non-turbid discharges of ground water or spring water
10. Foundation or footing drains where flows are not contaminated with process materials
11. Uncontaminated construction dewatering water discharged in accordance with requirements found in this permit for specific dewatering activities.

2.6 *Site Maps*


Consolidation of FAB, MB, and SCA to Arts Admin. Building
College of Education moving to Social Sciences Building
Music Building & Sassin Planned Demo.
Programming of Marillac Hall moving to Patient Care Center
Bellerive Hall
Previous Demo
Marillac Hall, EAB, TLC, & SCCB Planned Demo.
Programming of Marillac Hall moving to Provincial House
College of Nursing Renovations at Le Gras and Seton Hall
MAP LEGEND
Campus Consolidation Plan
Demolished or Planned Demolition
Property to Sell
Building Renovations
Stormwater Basin Area
Space Consolidation
UMSL Property Boundary
N
0
250
500
1,000
1,500
Feet
26 UMSL Campus Plan Report

SECTION 3: BEST MANAGEMENT PRACTICES

3.1 Best Management Practices

BMPs are governed by UM-System policies, Consultant Procedures & Design Guidelines, Division 01, 2016.01, including, but not limited to 33 4000, Storm Drainage System and 310000 Earthwork. BMPs for storm water management are identified on the project construction drawings and include the following:

- Silt Fencing: Silt fencing will serve as perimeter control.
- Sewer Drain Inlet Protection: Sediment Traps will be installed and maintained around all sewer inlet grates. There are no storm water treatment practices in place at UMSL.
- Soil Stabilization: Disturbed areas will be proof rolled at the close of each work day, as practicable. When grading activities have ceased, temporary cover will be provided to minimize erosion. Permanent cover will be provided after all soil disturbance is complete.
- Entry and Exit Control: Entry and exit from the construction area will be through the concrete area between West Drive and the Q Parking Lot. No other entry or exit points shall be in use.
- Proper Waste Management
- Proper Materials Handling and Staging
- Designated Washout

SECTION 4: INSPECTION, MAINTENANCE, AND CORRECTIVE ACTION

4.1 Inspection Procedures

Site Inspection Schedule

Standard Frequency:
☐ Every 7 calendar days ☐ Every 14 calendar days and within 24 hours of either: ▪ A storm event that produces 0.25 inches or more of rain within a 24-hour period (including when there are multiple, smaller storms that alone produce less than 0.25 inches but together produce 0.25 inches or more in 24 hours), or ▪ A storm event that produces 0.25 inches or more of rain within a 24-hour period on the first day of a storm and continues to produce 0.25 inches or more of rain on subsequent days (you conduct an inspection within 24 hours of the first day of the storm and within 24 hours after the last day of the storm that produces 0.25 inches or more of rain (i.e., only two inspections would be required for such a storm event)), or ▪ A discharge caused by snowmelt from a storm event that produces 3.25 inches or more of snow within a 24-hour period.
Reduced Frequency (if applicable)
For stabilized areas ☐ Twice during first month, no more than 14 calendar days apart; then once per month after first month until permit coverage is terminated consistent with Part 9 in any area of your site where the stabilization steps in 2.2.14.a have been completed. ▪ Specify locations where stabilization steps have been completed ▪ Insert date that they were completed

For stabilized areas on "linear construction sites" (as defined in Appendix A)

☐ Twice during first month, no more than 14 calendar days apart; then once more within 24 hours of a storm event that produces 0.25 inches or more of rain within a 24-hour period, or within 24 hours of a snowmelt discharge from a storm event that produces 3.25 inches or more of snow within a 24-hour period

- Specify locations where stabilization steps have been completed
- Insert date that they were completed

For frozen conditions where construction activities are suspended

☐ Inspections are temporarily suspended

Insert beginning and ending dates of frozen conditions on your site:

- Beginning date of frozen conditions: Insert approximate date
- Ending date of frozen conditions: Insert approximate date

Dewatering Inspection Schedule

Dewatering Inspection
☐ Once per day on which the discharge of dewatering water occurs.

University of Missouri

SWPPP and Land Disturbance Inspection Checklist

This form is used by assigned inspection staff to conduct SWPPP and stormwater inspections. A copy of this checklist is to be forwarded to the Contractor (or responsible party in charge) and filed in the projects' Building Inspection file folder.

Date of inspection:_____ Campus (circle one): **UMKC MU S&T UMSL**

Inspection performed by: _____

Project name/location:_____

Project #:_____ Contractors Rep: _____

Phase of Construction (check one):

Clearing and Grubbing (Site prep)	
Mass Grading/Underground Utilities	
Building Construction/Fine Grading	
Final Stabilization	

Type of Inspection (check one):

Regular	
Rain event (Amt:)	
Complaint	
Final	
Other_____	

SWPPP REVIEW	Adequate?	Needs Maintenance	N/A	Corrective Action
1. SWPPP is on site and updated with records attached?				
2. Training on stormwater issues for on site staff?				
3. Inspection log is posted at construction site?				
4. Inspections performed weekly and after rain events?				
5. Inspections performed by a qualified professional?				

Best Management Practices (BMP's)	Adequate?	Needs Maintenance	N/A	Corrective action
6. Streets and other property free of sediment?				
7. Construction debris and trash properly disposed?				
8. Perimeter controls properly installed/constructed?				
9. Perimeter controls properly maintained?				
10. Disturbed areas stabilized after activity has ceased for 14 days?				
11. Erosion and sediment controls properly installed/constructed per SWPPP?				
12. Erosion and sediment controls properly maintained?				
13. Stockpiles stabilized or contained by a BMP?				
14. Are permanent stormwater controls being implemented?				

15. Temporary BMP's no longer needed are removed?				

Other Management Practices	Adequate?	Needs Maintenance	N/A	Corrective Action
16. Fuel storage areas have secondary containment?				
17. Solvents, paints, fertilizers, etc. stored in a manner prohibiting exposure to rain/runoff?				
18. Streams/sinkholes protected from sediment?				
19. Dewatering operations filtering sediment/pollutants?				
20. Dust controls being utilized?				
21.				
22. Stream buffer free of waste products/no products stored within buffer?				
23. Inlet protection properly installed/maintained?				

Additional comments:_____
_____
_____
_____

Photos attached? YES NO

Actions taken:	Description	YES	NO	Date of action
Verbal Warning	Informed Contractor of potential stormwater pollution violations.			
Written Warning	Gave Contractor written directive (other than this report).			
Other:				
Stop Work Order issued	Issued a stop work order to cease project areas until corrections are made.			

Inspector's signature: _____

SECTION 5: CERTIFICATION AND NOTIFICATION

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 have no personal knowledge that the information submitted is other than 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.

Name: _____ Title: _____

Signature: _____ Date: _____

SWPPP APPENDICES

Appendix A – Site Maps

Appendix B – Copy of 2022 Area Wide Land Disturbance Permit)

Appendix C – SWPPP Amendment Log

Appendix A – Site Maps

Appendix B – Copy of Area Wide Land Disturbance Permit

Appendix C –SWPPP Amendment Log

No.	Description of the Amendment	Date of Amendment	Amendment Prepared by [Name(s) and Title]
1	Updated SWPP with current contact info and projects	3/15/2023	Rachel Henken, EHS
2	Converted to EPA template w/changes to outfalls, inspection template, project lists, etc to meet requirement of land disturbance permit	5/26/2023	Rachel Henken, EHS
		INSERT DATE	
		INSERT DATE	
		INSERT DATE	
		INSERT DATE	
		INSERT DATE	
		INSERT DATE	