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# Wetland Delineation

## PORT OF EAST ST. LOUIS
## ST. CLAIR COUNTY, ILLINOIS

**May 24, 2012**
**Revised June 22, 2012**

**Prepared for:**

**SLAY INDUSTRIES**

**SCI No. 2011-3213.31**

SCI ENGINEERING, INC.
CONSULTANTS IN DEVELOPMENT, DESIGN AND CONSTRUCTION
GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

June 22, 2012

Mr. Glen Slay
Slay Industries
1441 Hampton Avenue
St. Louis, Missouri 63139

RE: Wetland Delineation – Revised
Port of East St. Louis
East St. Louis, Illinois
SCI No. 2011-3213.31

Dear Mr. Slay:

We are pleased to submit our report entitled *Wetland Delineation – PORT OF EAST ST. LOUIS – EAST ST. LOUIS, ILLINOIS,* dated May 2012, Revised June 2012. Our May site assessment identified two wetlands within the project boundaries. It is likely the U. S. Army Corps of Engineers (CE) would classify these areas as waters of the United States. The CE requires a Section 404 Permit for the development of a site that contains or impacts jurisdictional wetlands or waterbodies. Likewise, a Section 401 Water Quality Certification from the Illinois Environmental Protection Agency (IEPA) is typically required for a project that also requires a Section 404 Permit. However, the CE has the sole authority to determine if any of the features we identified would be under their jurisdiction.

To initiate the permitting process, a development plan should be sent to the CE along with a delineation report, permit application, and other associated documents and figures. An impact assessment would be conducted based on the development plan to determine if the project would impact any waters of the United States. We are available to assist you throughout the permitting process.

If you have any questions or comments, please contact us at (636) 949-8200.

Respectfully,

**SCI ENGINEERING, INC.**

Jane A. Farrington
Project Scientist

Scott D. Harding, CPSS/SC
Vice President

JAF/SDH/lf

Enclosure

One copy and one electronic version submitted.

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## APPENDICES

**Wetland Delineation**

**PORT OF EAST ST. LOUIS**
**EAST ST. LOUIS, ILLINOIS**

## 1.0 INTRODUCTION

SCI Engineering, Inc. (SCI) was retained by Mr. Glen Slay of Slay Industries to conduct a wetland delineation on the referenced site. The scope of the study included performing site reconnaissance to characterize the soils, vegetation, and hydrology for delineation of wetlands and waterbodies. Our services were provided in general accordance with our proposal dated April 24, 2012.

The area delineated is approximately 59 acres. The site contains a previously-delineated emergent wetland of approximately 10.6 acres and a newly-identified wetland of approximately 0.65 acre. These two wetlands are likely to be considered waters of the United States as identified under the definitions described in Section 328.3 of the *Code of Federal Regulations* (33CFR). Any impact to waters of the United States, including draining, filling, piping, rerouting, crossing, and discharging to will require a *Section 404 Permit* from the U.S. Army Corps of Engineers (CE) and *Section 401 Water Quality Certification* from the Illinois Environmental Protection Agency (IEPA). Based on their physical characteristics and location in proximity to the Mississippi River, the wetlands will likely be considered waters of the United States.

## 2.0 SITE LOCATION

The site is located south of Interstates 55/70/64 at the Poplar Street Bridge and west of Mississippi Avenue (Route 3) in East St. Louis, St. Clair County, Illinois. Monsanto Avenue borders the site to the south and an elevated access road and levee borders the site to the west. West of the levee is undeveloped land along with the Mississippi River. An elevated railroad line borders much of the site to the east. This facility will be known as the Port of East St. Louis. The proposed current development consists of construction of a rail spur within the northern portion of the property and the construction of a new road entrance from Route 3. All development will be within the delineated area (Township 2 North, Range 10 West, Section 23). The Vicinity Map is enclosed as Figure 1.

## 3.0 SOIL SURVEY AND TOPOGRAPHIC RESEARCH

According to the *Soil Survey of St. Clair County, Illinois*, prepared by the Natural Resources Conservation Service (NRCS), and dated 1999, the site is mapped as Orthents loamy steep and Urban land with symbols indicating dumps and other similar non-soil areas. These soils are not listed as hydric

soils on the *NRCS National Hydric Soils List: Hydric Soils of the United States* or the St. Clair County Hydric Soils List.

The *USGS Topographic Map* and *National Wetlands Inventory (NWI) map* were reviewed for information concerning the site. The USGS map is a reproduction of a portion of the USGS topographic map for the *Granite City, Illinois-Missouri* quadrangle dated 1993 (photorevised 1998) and the *Cahokia, Illinois-Missouri* quadrangle, dated 1993 (photorevised 1998). According to this map, the topography of the site is relatively level and drains toward the northeast. These maps indicate the presence of a temporarily flooded emergent wetland and a seasonally flooded emergent wetland on the subject site. Surface topography observed on the date of the site reconnaissance appeared to generally coincide with the topography depicted on the USGS map. Fill has been placed for the levee and the railroad line, as well as in the northwest portion of the site. Copies of the USGS topographic and NWI maps are enclosed as Figures 1 and 2, respectively.

## 4.0 SITE RECONNAISSANCE AND CONDITION SUMMARY

In May 2012, an SCI Natural Resource Scientist performed a field exploration of the subject site to delineate the extent of existing waterbodies and wetlands. Suspect areas on the site were explored for wetland and waterbody characteristics. A photographic summary of the representative site conditions is included as Appendix A. Included in Appendix B are the *Routine Wetland Determination Data Forms* for suspect wetland areas. The conditions summarized below are mapped on the *Wetland Delineation and Aerial Photograph*, enclosed as Figure 3.

The subject site is mainly undeveloped with the exception of a pump station located along the site's western boundary. An elevated railroad line borders the site to the southeast and runs through the center of the site on the northern portion. Site surrounding adjacent properties are a mix of undeveloped and industrial.

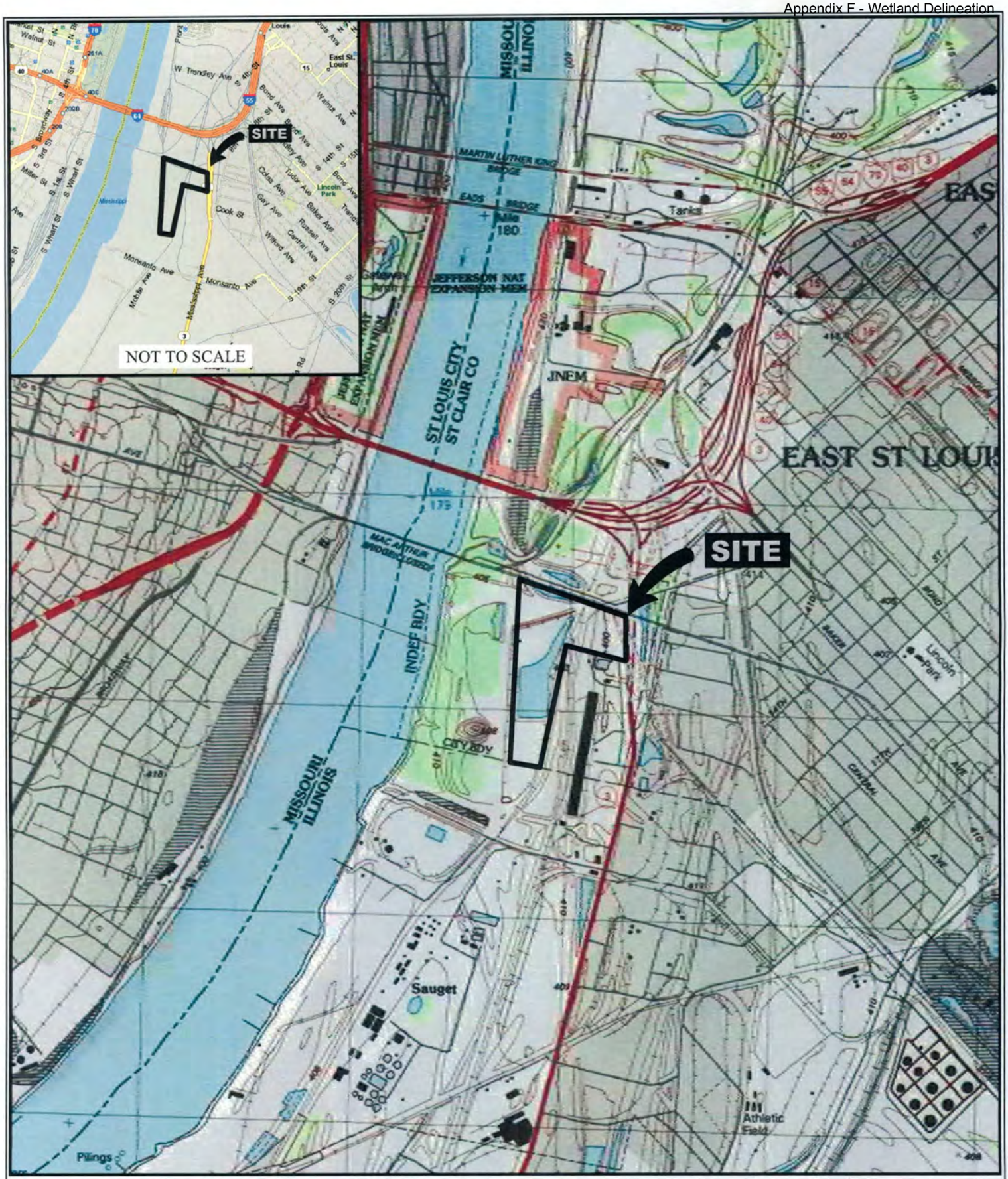
Our site visit confirmed the presence of the previously-identified and above-mentioned emergent wetland. This wetland (Wetland 1) exists as a depressed area surrounded by fill slopes, and the boundaries are defined by railroad tracks to the east, a levee and access road fill to the west, and an obvious change in site topography to the south. The wetland is approximately 10.6 acres. Vegetation consists of *Asclepias incarnate, Packera glabella,* and *Ambrosia trifida.* Hydrology was provided by levee relief wells and the runoff from adjacent slopes.

We identified another emergent wetland (Wetland 2) located on the northern portion of the site toward the center. It abuts the western slope of the elevated railroad line and is approximately 0.65 acre. Vegetation consists of *Salix nigra, Populus deltoids, Polygonum sp., Carex sp.,* and *Packera glabella.*

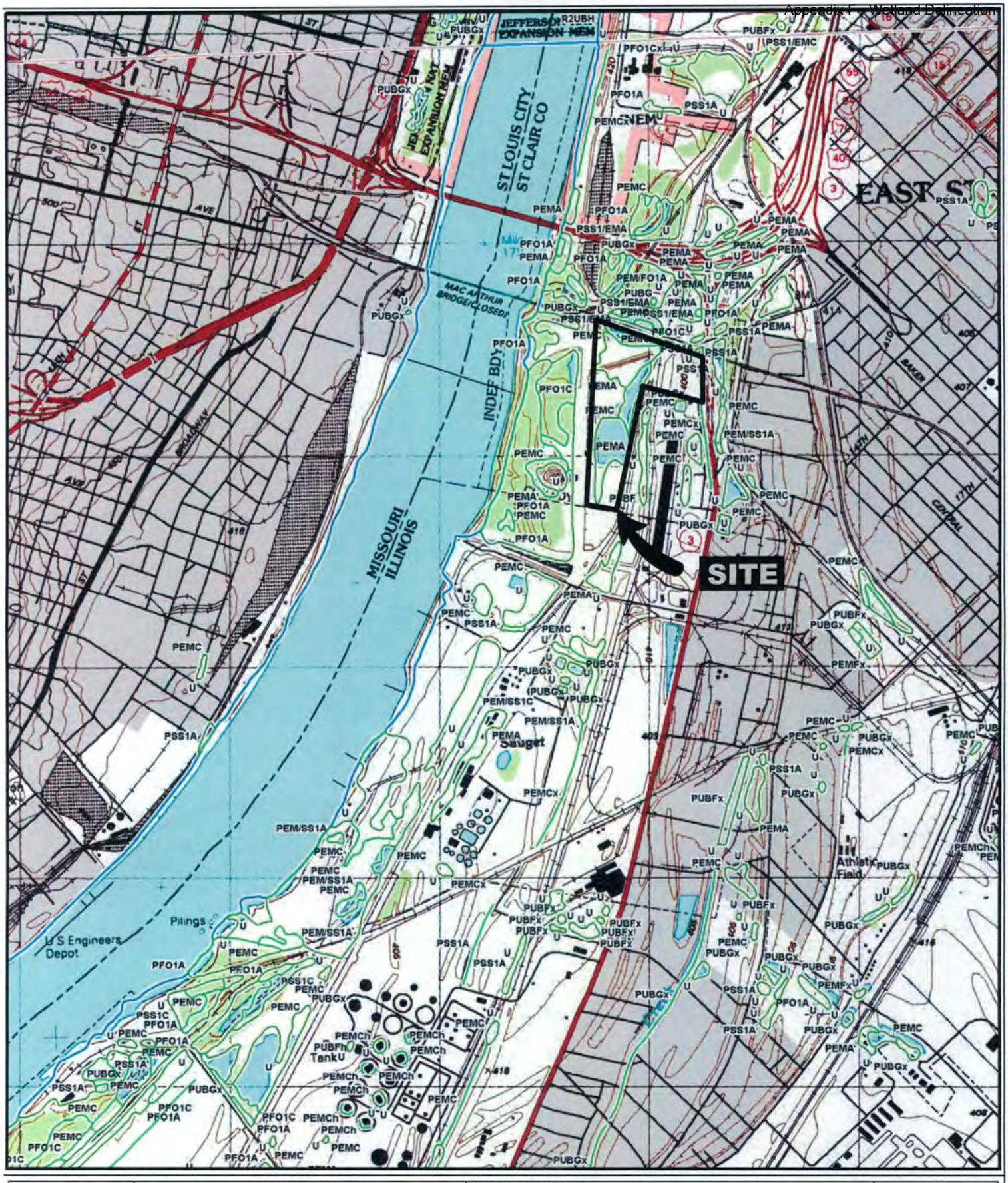
## 5.0 CONCLUSION

Based on our May 2012 field exploration, the two emergent wetlands identified would likely be considered under the jurisdiction of the CE due to their location within the 100-year floodplain. Therefore, a permit would be required before development can occur. However, the CE has the sole authority to determine if any of the features identified would be under their jurisdiction.

The CE requires a *Section 404 Permit* for the development of a site that impacts jurisdictional waterbodies. Likewise, a *Section 401 Water Quality Certification* from the IEPA is typically required for a project that requires a *Section 404 Permit*. The CE generally requires a preliminary development plan along with an impact assessment before issuing any formal authorization regarding a permit. We are available to assist you with satisfying the requirements of the CE and/or IEPA as you advance in your planning for this development.




| | | | | |
|---|---|---|---|---|
| SCI | PROJECT NAME<br>PORT OF EAST SAINT LOUIS - RAIL LOOP<br>EAST SAINT LOUIS, ILLINOIS | General Notes/Legend<br>USGS TOPOGRAPHIC MAP<br>GRANITE CITY, ILLINOIS - MISSOURI QUADRANGLE<br>DATED 1993<br>PHOTO REVISED 1998<br>10' CONTOURS<br>CAHOKIA, ILLINOIS - MISSOURI QUADRANGLE<br>DATED 1993<br>PHOTO REVISED 1998<br>10' CONTOURS | N<br>W E<br>S | |
| | VICINITY AND TOPOGRAPHIC MAP | | | SCALE 1" = 2000'<br>FIGURE 1 |
| | DRAWN BY RCV<br>CHECKED BY SDH | DATE 05/2012 | JOB NUMBER 2011-3213.31 | |

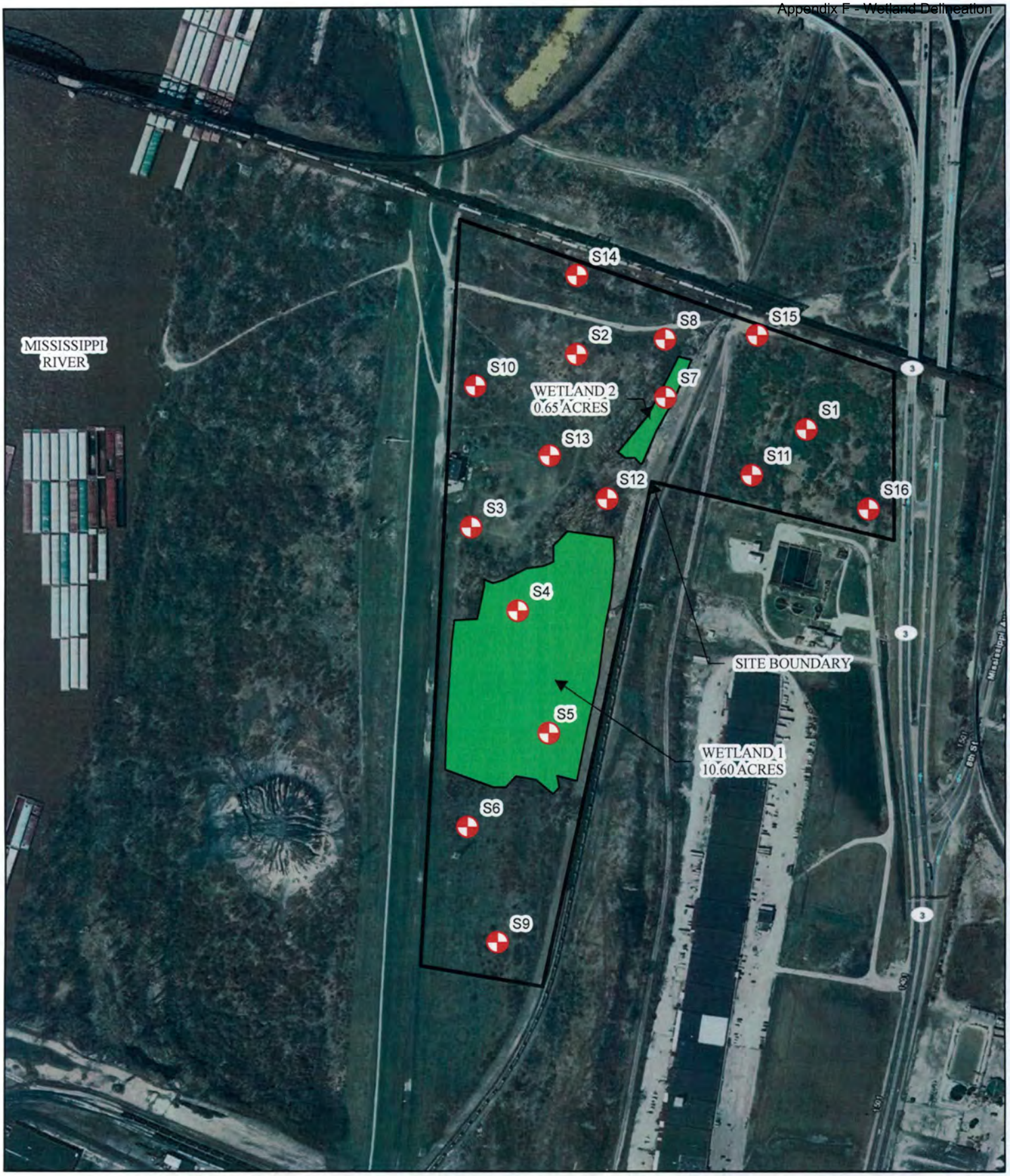



| | | | | |
|---|---|---|---|---|
| PROJECT NAME | | | | General Notes/Legend |
| PORT OF EAST SAINT LOUIS - RAIL LOOP<br>EAST SAINT LOUIS, ILLINOIS | | | | NATIONAL WETLANDS INVENTORY MAP<br>CAHOKIA, ILLINOIS - MISSOURI QUADRANGLE<br>DATED OCTOBER 13, 2008<br>10' CONTOURS |
| NATIONAL WETLANDS INVENTORY MAP | | | | |
| DRAWN BY | RCV | DATE | JOB NUMBER | |
| CHECKED BY | SDH | 05/2012 | 2011-3213.31 | |

N W E S

SCALE 1" = 2000'

FIGURE 2




| | | | | | |
|---|---|---|---|---|---|
| SCI | PROJECT NAME<br>PORT OF EAST SAINT LOUIS<br>EAST SAINT LOUIS, ILLINOIS | | | GENERAL NOTES/LEGEND<br>INDICATES APPROXIMATE SOIL BORING LOCATION | N<br>W E<br>S |
| | WETLAND DELINEATION AND AERIAL PHOTOGRAPH | | | | SCALE 1" = 500' |
| | DRAWN BY RCV | DATE 06/2012 | JOB NUMBER 2011-3213.31 | DIMENSIONS AND LOCATIONS ARE APPROXIMATE; ACTUAL MAY VARY. DRAWING SHALL NOT BE USED OUTSIDE THE CONTEXT OF THE REPORT FOR WHICH IT WAS GENERATED. | FIGURE 3 |
| | CHECKED BY SDH | | | | |

# Appendix A

Photo 1. Facing west in northeastern portion of site; non-wetland. 5

Photo 2. Facing north in northwestern portion of site; non-wetland, near location of data form S10. 16

Photo 3. Facing south in northwestern portion of site; non-wetland, area of fill, near location of data form S10. 18

Photo 4. Facing north near location of data form S3. 22

Photo 5. Facing east in 10.6-acre wetland; near location of data form S4. 35

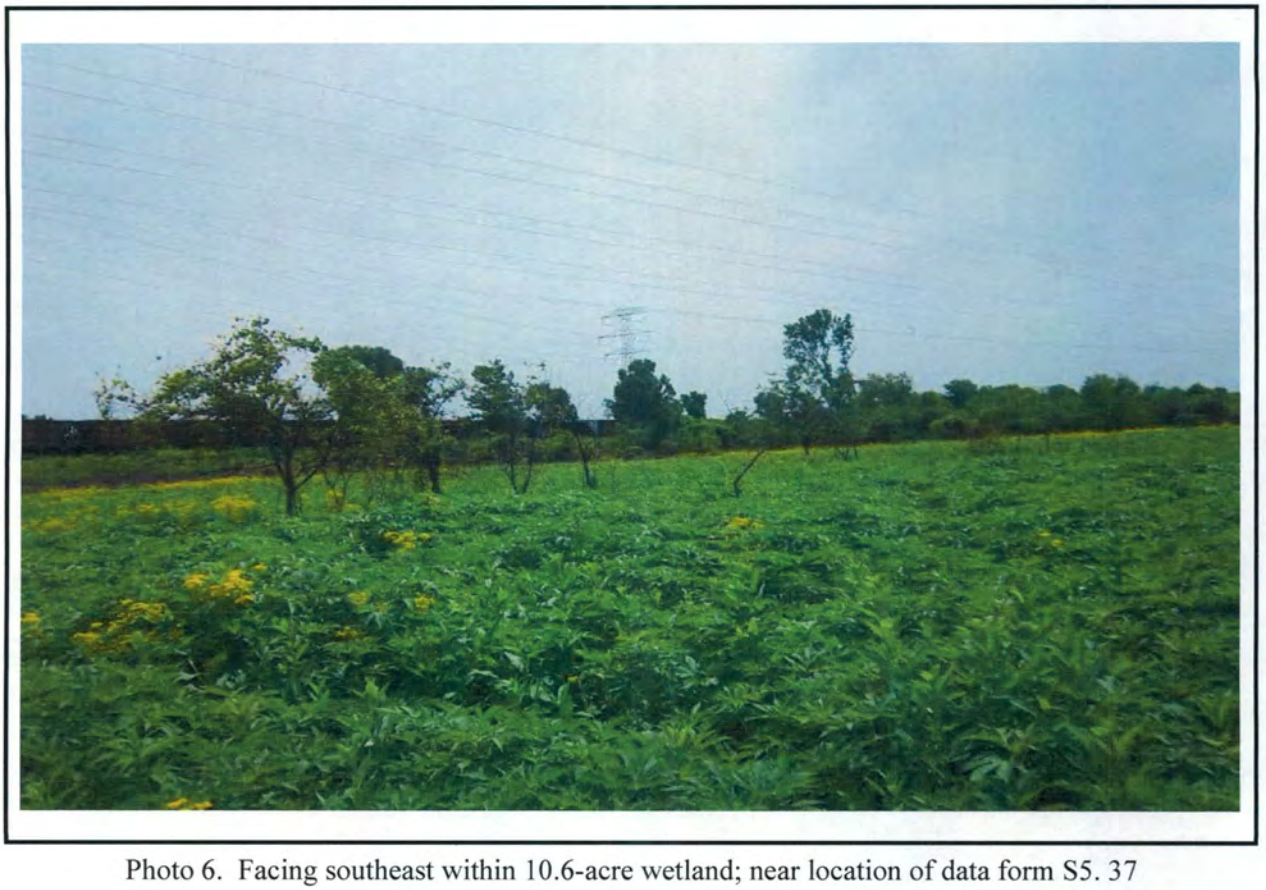


Photo 6. Facing southeast within 10.6-acre wetland; near location of data form S5. 37

Photo 7. Facing northwest in 10.6-acre wetland. 38

Photo 8. Facing south; near location of data form S6; non-wetland.

Photo 9. Facing northeast within 0.65-acre wetland; near location of data form S7.

# Appendix B

## WETLAND DETERMINATION DATA FORM – Midwest Region

| | | | | | |
|---|---|---|---|---|---|
| Project/Site: | Port of East St. Louis | City/County: | East St. Louis; St. Clair | Sampling Date: | 05-08-2012 |
| Applicant/Owner: | Slay Industires | State: | Illinois | Sampling Point: | S1 |
| Investigator(s): | SCI Engineering, Inc. | | Section, Township, Range: | S23 T2N R10W | |
| Landform (hillslope, terrace, etc.): | _____ | | Local relief (concave, convex, none): | _____ | |
| Slope (%): | _____ | Lat: _____ | Long: _____ | Datum: | _____ |
| Soil Map Unit Name: | _____ | | NWI classification: | _____ | |
| Are climatic/hydrologic conditions on the site typical for this time of year? | | Yes ☒ No ☐ (If no, explain in Remarks.) | | | |
| Are Vegetation N, Soil Y, or Hydrology N significantly disturbed? | | Are "Normal Circumstances" present? | | Yes ☒ No ☐ | |
| Are Vegetation N, Soil N, or Hydrology N naturally problematic? | | (If needed, explain any answers in Remarks.) | | | |

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| | | | |
|---|---|---|---|
| Hydrophytic Vegetation Present: | Yes ☐ No ☒ | **Is the Sampled Area within a Wetland?** | **Yes ☐ No ☒** |
| Hydric Soil Present: | Yes ☐ No ☒ | | |
| Wetland Hydrology Present: | Yes ☐ No ☒ | | |
| Remarks: Area of fill. | | | |

## VEGETATION – Use scientific names of plants.

| Tree Stratum (Plot size: _____) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. _____ | | | |
| 2. _____ | | | |
| 3. _____ | | | |
| 4. _____ | | | |
| 5. _____ | | | |
| | _____ = Total Cover | | |
| Sapling/Shrub Stratum (Plot size: _____) | | | |
| 1. *Lonicera maackii* | 50 | X | NI |
| 2. _____ | | | |
| 3. _____ | | | |
| 4. _____ | | | |
| 5. _____ | | | |
| | 50 = Total Cover | | |
| Herb Stratum (Plot size: _____) | | | |
| 1. *Sorghum halepense* | 25 | X | FACU |
| 2. *Rumex crispus* | 15 | | FAC |
| 3. *Galium aparine* | 5 | | FACU |
| 4. *Asclepias syriaca* | 10 | | NI |
| 5. *poa pratensis* | 75 | X | FAC |
| | 130 = Total Cover | | |
| Woody Vine Stratum (Plot size: _____) | | | |
| 1. _____ | | | |
| 2. _____ | | | |
| | _____ = Total Cover | | |

**Dominance Test worksheet:**

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species across all Strata: 3 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 33 (A/B)

**Prevalence Index Worksheet:**

| Total % Cover of: | Multiply by: |
|---|---|
| OBL species _____ | x1 = _____ |
| FACW species _____ | x2 = _____ |
| FAC species 90 | x3 = 270 |
| FACU species 30 | x4 = 120 |
| UPL species _____ | x5 = _____ |
| Column Totals: 120 (A) | 390 (B) |

Prevalence Index = B/A = 3.25

**Hydrophytic Vegetation Indicators:**

_____ Dominance Test is >50%

_____ Prevalence Index is ≤3.0[1]

_____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation1 (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes ☐ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: S1

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|
| | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epidedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: _____

Depth (inches): _____

**Hydric Soil Present?** Yes ☐ No ☒

Remarks: Soil too rocky for soil sample (fill soils)

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D2)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ☐ No ☒ Depth (inches): None

Water Table Present? Yes ☐ No ☒ Depth (inches): ≥2

Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): ≥2

**Wetland Hydrology Present?** Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

## WETLAND DETERMINATION DATA FORM – Midwest Region

| | | | | | |
|---|---|---|---|---|---|
| Project/Site: | Port of East St. Louis | City/County: | East St. Louis; St. Clair | Sampling Date: | 05-08-2012 |
| Applicant/Owner: | Slay Industires | State: | Illinois | Sampling Point: | S2 |
| Investigator(s): | SCI Engineering, Inc. | | Section, Township, Range: | S23 T2N R10W | |
| Landform (hillslope, terrace, etc.): | _____ | | Local relief (concave, convex, none): | _____ | |
| Slope (%): | _____ | Lat: _____ | Long: _____ | Datum: | _____ |
| Soil Map Unit Name: | _____ | | NWI classification: | _____ | |
| Are climatic/hydrologic conditions on the site typical for this time of year? | | Yes ☒ No ☐ (If no, explain in Remarks.) | | | |
| Are Vegetation Y, Soil N, or Hydrology Y significantly disturbed? | | | Are "Normal Circumstances" present? | Yes ☒ No ☐ | |
| Are Vegetation N, Soil N, or Hydrology N naturally problematic? | | | (If needed, explain any answers in Remarks.) | | |

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| | | | |
|---|---|---|---|
| Hydrophytic Vegetation Present: | Yes ☐ No ☒ | **Is the Sampled Area within a Wetland?** | **Yes ☐ No ☒** |
| Hydric Soil Present: | Yes ☐ No ☒ | | |
| Wetland Hydrology Present: | Yes ☐ No ☒ | | |
| Remarks: Area of fill. | | | |

## VEGETATION – Use scientific names of plants.

| Tree Stratum (Plot size: _____) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. _____ | | | |
| 2. _____ | | | |
| 3. _____ | | | |
| 4. _____ | | | |
| 5. _____ | | | |
| | _____ = Total Cover | | |
| Sapling/Shrub Stratum (Plot size: _____) | | | |
| 1. _____ | | | |
| 2. _____ | | | |
| 3. _____ | | | |
| 4. _____ | | | |
| 5. _____ | | | |
| | _____ = Total Cover | | |
| Herb Stratum (Plot size: _____) | | | |
| 1. *Conyza canadensis* | 25 | | FAC |
| 2. *Rumex crispus* | 3 | | FAC |
| 3. *Galium aparine* | 5 | | FAC |
| 4. *Ambrosia trifida* | 10 | | NI |
| 5. *Festuca subverticillata* | 95 | X | FACU |
| | 138 = Total Cover | | |
| Woody Vine Stratum (Plot size: _____) | | | |
| 1. _____ | | | |
| 2. _____ | | | |
| | _____ = Total Cover | | |

**Dominance Test worksheet:**

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species across all Strata: 1 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 0 (A/B)

**Prevalence Index Worksheet:**

| Total % Cover of: | Multiply by: |
|---|---|
| OBL species _____ | x1 = _____ |
| FACW species _____ | x2 = _____ |
| FAC species 33 | x3 = 99 |
| FACU species 95 | x4 = 380 |
| UPL species _____ | x5 = _____ |
| Column Totals: 128 (A) | 479 (B) |

Prevalence Index = B/A = 3.7

**Hydrophytic Vegetation Indicators:**

N Dominance Test is >50%

N Prevalence Index is ≤3.0[1]

_____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation1 (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes ☐ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: S2

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|
| | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epidedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: Rock

Depth (inches): Surface

**Hydric Soil Present?** Yes ☐ No ☒

Remarks: Soil too rocky for soil sample (fill soils)

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D2)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ☐ No ☒ Depth (inches): None

Water Table Present? Yes ☐ No ☒ Depth (inches): ≥2

Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): ≥2

**Wetland Hydrology Present?** Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

# WETLAND DETERMINATION DATA FORM – Midwest Region

| | | | | | |
|---|---|---|---|---|---|
| Project/Site: | Port of East St. Louis | City/County: | East St. Louis; St. Clair | Sampling Date: | 05-08-2012 |
| Applicant/Owner: | Slay Industires | State: | Illinois | Sampling Point: | S3 |
| Investigator(s): | SCI Engineering, Inc. | | Section, Township, Range: | S23 T2N R10W | |
| Landform (hillslope, terrace, etc.): | _____ | | Local relief (concave, convex, none): | _____ | |
| Slope (%): | _____ | Lat: _____ | Long: _____ | Datum: | _____ |
| Soil Map Unit Name: | _____ | | NWI classification: | _____ | |
| Are climatic/hydrologic conditions on the site typical for this time of year? | | Yes ☒ | No ☐ (If no, explain in Remarks.) | | |
| Are Vegetation Y, Soil N, or Hydrology Y significantly disturbed? | | Are "Normal Circumstances" present? | | Yes ☒ | No ☐ |
| Are Vegetation N, Soil N, or Hydrology N naturally problematic? | | (If needed, explain any answers in Remarks.) | | | |

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| | | | |
|---|---|---|---|
| Hydrophytic Vegetation Present: | Yes ☐ No ☒ | **Is the Sampled Area within a Wetland?** | **Yes ☐ No ☒** |
| Hydric Soil Present: | Yes ☐ No ☒ | | |
| Wetland Hydrology Present: | Yes ☐ No ☒ | | |
| Remarks: Area surrounding MSD building - mowed and maintained | | | |

## VEGETATION – Use scientific names of plants.

| Tree Stratum (Plot size: _____) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. _____ | | | |
| 2. _____ | | | |
| 3. _____ | | | |
| 4. _____ | | | |
| 5. _____ | | | |
| | _____ = Total Cover | | |
| Sapling/Shrub Stratum (Plot size: _____) | | | |
| 1. _____ | | | |
| 2. _____ | | | |
| 3. _____ | | | |
| 4. _____ | | | |
| 5. _____ | | | |
| | _____ = Total Cover | | |
| Herb Stratum (Plot size: _____) | | | |
| 1. *Ranunculus repens* | 75 | X | FACU |
| 2. *Rumex crispus* | 3 | | FAC |
| 3. *Poa pratensis* | 75 | X | FAC |
| 4. _____ | | | |
| 5. _____ | | | |
| | _____ = Total Cover | | |
| Woody Vine Stratum (Plot size: _____) | | | |
| 1. _____ | | | |
| 2. _____ | | | |
| | _____ = Total Cover | | |

**Dominance Test worksheet:**

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species across all Strata: 2 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 50 (A/B)

**Prevalence Index Worksheet:**

| Total % Cover of: | Multiply by: |
|---|---|
| OBL species _____ | x1 = _____ |
| FACW species _____ | x2 = _____ |
| FAC species 78 | x3 = 234 |
| FACU species 75 | x4 = 300 |
| UPL species _____ | x5 = _____ |
| Column Totals: 153 (A) | 534 (B) |

Prevalence Index = B/A = 3.5

**Hydrophytic Vegetation Indicators:**

N Dominance Test is >50%

N Prevalence Index is ≤3.0[1]

_____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation1 (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes ☐ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: S3

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|
| | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: Rock

Depth (inches): Surface

**Hydric Soil Present?** Yes ☐ No ☒

Remarks: Soil too rocky for soil sample (fill soils)

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D2)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ☐ No ☒ Depth (inches): None

Water Table Present? Yes ☐ No ☒ Depth (inches): >15

Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): >15

**Wetland Hydrology Present?** Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

# WETLAND DETERMINATION DATA FORM – Midwest Region

| | | | | | |
|---|---|---|---|---|---|
| Project/Site: | Port of East St. Louis | City/County: | East St. Louis; St. Clair | Sampling Date: | 05-08-2012 |
| Applicant/Owner: | Slay Industires | State: | Illinois | Sampling Point: | S4 |
| Investigator(s): | SCI Engineering, Inc. | | Section, Township, Range: | S23 T2N R10W | |
| Landform (hillslope, terrace, etc.): | ____ | | Local relief (concave, convex, none): | ____ | |
| Slope (%): | ____ | Lat: ____ | Long: ____ | Datum: | ____ |
| Soil Map Unit Name: | ____ | | NWI classification: | PEMA, PEMC | |
| Are climatic/hydrologic conditions on the site typical for this time of year? | | Yes ☒ No ☐ (If no, explain in Remarks.) | | | |
| Are Vegetation Y, Soil N, or Hydrology Y significantly disturbed? | | Are "Normal Circumstances" present? | | Yes ☒ No ☐ | |
| Are Vegetation N, Soil N, or Hydrology N naturally problematic? | | (If needed, explain any answers in Remarks.) | | | |

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| | | | |
|---|---|---|---|
| Hydrophytic Vegetation Present: | Yes ☒ No ☐ | **Is the Sampled Area within a Wetland?** | **Yes ☒ No ☐** |
| Hydric Soil Present: | Yes ☒ No ☐ | | |
| Wetland Hydrology Present: | Yes ☒ No ☐ | | |
| Remarks: Wetland hydrology provided by levee relief wells. | | | |

## VEGETATION – Use scientific names of plants.

| Tree Stratum (Plot size: ____) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Salix nigra* | 3 | | OBL |
| 2. *Forestiera acuminata* | 5 | | OBL |
| 3. *Populus deltoides* | 1 | | FAC |
| 4. ____ | | | |
| 5. ____ | | | |
| | 9 = Total Cover | | |
| Sapling/Shrub Stratum (Plot size: ____) | | | |
| 1. ____ | | | |
| 2. ____ | | | |
| 3. ____ | | | |
| 4. ____ | | | |
| 5. ____ | | | |
| | ____ = Total Cover | | |
| Herb Stratum (Plot size: ____) | | | |
| 1. *Vitis vulpina* | 3 | | FACW |
| 2. *Asclepias incarnata* | 20 | X | OBL |
| 3. *Ambrosia trifida* | 50 | X | FAC |
| 4. *Impatiens capensis* | 3 | | FACW |
| 5. *Packera glabella* | 50 | X | OBL |
| | 126 = Total Cover | | |
| Woody Vine Stratum (Plot size: ____) | | | |
| 1. ____ | | | |
| 2. ____ | | | |
| | ____ = Total Cover | | |

**Dominance Test worksheet:**

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species across all Strata: 3 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 100 (A/B)

**Prevalence Index Worksheet:**

| Total % Cover of: | Multiply by: |
|---|---|
| OBL species 78 | x1 = 78 |
| FACW species 6 | x2 = 12 |
| FAC species 51 | x3 = 153 |
| FACU species ____ | x4 = ____ |
| UPL species ____ | x5 = ____ |
| Column Totals: 135 (A) | 243 (B) |

Prevalence Index = B/A = 1.8

**Hydrophytic Vegetation Indicators:**

Y Dominance Test is >50%

Y Prevalence Index is ≤3.0[1]

____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation1 (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes ☒ No ☐

Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: S4

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0-15 | 10YR 4/1 | 55 | 10YR 4/4 | 5 | | | sicl | |
| | 10YR 3/2 | 40 | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epidedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: _____

Depth (inches): _____

**Hydric Soil Present?** Yes ☒ No ☐

Remarks:

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☒ Drift Deposits (B3)
- ☒ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D2)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ☐ No ☒ Depth (inches): None

Water Table Present? Yes ☐ No ☒ Depth (inches): ≥15

Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): ≥15

**Wetland Hydrology Present?** Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Wetland hydrology provided by levee relief wells.

# WETLAND DETERMINATION DATA FORM – Midwest Region

| | | | | | |
|---|---|---|---|---|---|
| Project/Site: | Port of East St. Louis | City/County: | East St. Louis; St. Clair | Sampling Date: | 05-10-2012 |
| Applicant/Owner: | Slay Industires | State: | Illinois | Sampling Point: | S5 |
| Investigator(s): | SCI Engineering, Inc. | | Section, Township, Range: | S23 T2N R10W | |
| Landform (hillslope, terrace, etc.): | ____ | | Local relief (concave, convex, none): | ____ | |
| Slope (%): | ____ | Lat: ____ | Long: ____ | Datum: | ____ |
| Soil Map Unit Name: | ____ | | NWI classification: | ____ | |
| Are climatic/hydrologic conditions on the site typical for this time of year? | | | Yes ☒ No ☐ (If no, explain in Remarks.) | | |
| Are Vegetation Y, Soil N, or Hydrology Y significantly disturbed? | | | Are "Normal Circumstances" present? | Yes ☒ No ☐ | |
| Are Vegetation N, Soil N, or Hydrology N naturally problematic? | | | (If needed, explain any answers in Remarks.) | | |

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| | | | |
|---|---|---|---|
| Hydrophytic Vegetation Present: | Yes ☒ No ☐ | **Is the Sampled Area within a Wetland?** | **Yes ☒ No ☐** |
| Hydric Soil Present: | Yes ☒ No ☐ | | |
| Wetland Hydrology Present: | Yes ☒ No ☐ | | |
| Remarks: Area is at lower elevation than surrouding areas. Bordered to the east by railroad grade | | | |

## VEGETATION – Use scientific names of plants.

| Tree Stratum (Plot size: ____) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Salix nigra* | 3 | | OBL |
| 2. *Populus deltoides* | 3 | | FAC |
| 3. ____ | | | |
| 4. ____ | | | |
| 5. ____ | | | |
| | 6 = Total Cover | | |
| Sapling/Shrub Stratum (Plot size: ____) | | | |
| 1. ____ | | | |
| 2. ____ | | | |
| 3. ____ | | | |
| 4. ____ | | | |
| 5. ____ | | | |
| | ____ = Total Cover | | |
| Herb Stratum (Plot size: ____) | | | |
| 1. *Ambrosia artemisiifolia* | 25 | X | FACU |
| 2. *Polygonum pensylvanicum* | 25 | X | FACW |
| 3. *Carex sp.* | 10 | | FACW |
| 4. *Humulus japonicus* | 6 | | FACU |
| 5. *Packera glabella* | 25 | X | OBL |
| | 91 = Total Cover | | |
| Woody Vine Stratum (Plot size: ____) | | | |
| 1. ____ | | | |
| 2. ____ | | | |
| | ____ = Total Cover | | |

**Dominance Test worksheet:**

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species across all Strata: 3 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 67 (A/B)

**Prevalence Index Worksheet:**

| Total % Cover of: | Multiply by: |
|---|---|
| OBL species 28 | x1 = 28 |
| FACW species 35 | x2 = 70 |
| FAC species 3 | x3 = 9 |
| FACU species 31 | x4 = 124 |
| UPL species ____ | x5 = ____ |
| Column Totals: 97 (A) | 231 (B) |

Prevalence Index = B/A = 2.38

**Hydrophytic Vegetation Indicators:**

Y Dominance Test is >50%

Y Prevalence Index is ≤3.0[1]

____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation1 (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes ☒ No ☐

Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: S5

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0-15 | 10YR 4/1 | 85 | 10YR 4/3 | 10 | | | sicl | |
| | | | 10YR 2/1 | 5 | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epidedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: _____

Depth (inches): _____

**Hydric Soil Present?** Yes ☒ No ☐

Remarks:

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☒ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☒ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D2)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ☒ No ☐ Depth (inches): 3

Water Table Present? Yes ☒ No ☐ Depth (inches): surface

Saturation Present? (includes capillary fringe) Yes ☒ No ☐ Depth (inches): surface

**Wetland Hydrology Present?** Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Surface water observed in centeral portion of wetland in lower areas.

# WETLAND DETERMINATION DATA FORM – Midwest Region

| | | | | | |
|---|---|---|---|---|---|
| Project/Site: | Port of East St. Louis | City/County: | East St. Louis; St. Clair | Sampling Date: | 05-08-2012 |
| Applicant/Owner: | Slay Industires | State: | Illinois | Sampling Point: | S6 |
| Investigator(s): | SCI Engineering, Inc. | | Section, Township, Range: | S23 T2N R10W | |
| Landform (hillslope, terrace, etc.): | _____ | | Local relief (concave, convex, none): | _____ | |
| Slope (%): | _____ | Lat: _____ | Long: _____ | Datum: | _____ |
| Soil Map Unit Name: | _____ | | NWI classification: | PEMA | |
| Are climatic/hydrologic conditions on the site typical for this time of year? | | Yes ☒ | No ☐ (If no, explain in Remarks.) | | |
| Are Vegetation Y, Soil N, or Hydrology Y significantly disturbed? | | Are "Normal Circumstances" present? | | Yes ☒ | No ☐ |
| Are Vegetation N, Soil N, or Hydrology N naturally problematic? | | (If needed, explain any answers in Remarks.) | | | |

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| | | | |
|---|---|---|---|
| Hydrophytic Vegetation Present: | Yes ☐ No ☒ | **Is the Sampled Area within a Wetland?** | **Yes ☐ No ☒** |
| Hydric Soil Present: | Yes ☐ No ☒ | | |
| Wetland Hydrology Present: | Yes ☐ No ☒ | | |
| Remarks: Area at higher elevation than adjacent wetland. | | | |

## VEGETATION – Use scientific names of plants.

| Tree Stratum (Plot size: _____) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. _____ | | | |
| 2. _____ | | | |
| 3. _____ | | | |
| 4. _____ | | | |
| 5. _____ | | | |
| | _____ = Total Cover | | |
| Sapling/Shrub Stratum (Plot size: _____) | | | |
| 1. _____ | | | |
| 2. _____ | | | |
| 3. _____ | | | |
| 4. _____ | | | |
| 5. _____ | | | |
| | _____ = Total Cover | | |
| Herb Stratum (Plot size: _____) | | | |
| 1. *Conyza canadensis* | 20 | | FAC |
| 2. *Galium aparine* | 5 | | FACU |
| 3. *Verbascum thapsus* | 5 | | NI |
| 4. *Asclepias syriaca* | 20 | | NI |
| 5. *Festuca subverticillata* | 95 | X | FACU |
| | 145 = Total Cover | | |
| Woody Vine Stratum (Plot size: _____) | | | |
| 1. _____ | | | |
| 2. _____ | | | |
| | _____ = Total Cover | | |

**Dominance Test worksheet:**

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species across all Strata: 1 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 0 (A/B)

**Prevalence Index Worksheet:**

| Total % Cover of: | Multiply by: |
|---|---|
| OBL species _____ | x1 = _____ |
| FACW species _____ | x2 = _____ |
| FAC species 20 | x3 = 60 |
| FACU species 100 | x4 = 400 |
| UPL species _____ | x5 = _____ |
| Column Totals: 120 (A) | 460 (B) |

Prevalence Index = B/A = 3.8

**Hydrophytic Vegetation Indicators:**

N Dominance Test is >50%

N Prevalence Index is ≤3.0[1]

_____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation1 (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes ☐ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: S6

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0-6 | 10YR 3/1 | 55 | | | | | sicl | |
| | 10YR 3/2 | 45 | | | | | | |
| 6-15 | 10YR 3/1 | 45 | | | | | sicl | significant sand layer |
| | 10YR 3/2 | 40 | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epidedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: _____

Depth (inches): _____

**Hydric Soil Present?** Yes ☐ No ☒

Remarks:

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D2)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ☐ No ☒ Depth (inches): None

Water Table Present? Yes ☐ No ☒ Depth (inches): >15

Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): >15

**Wetland Hydrology Present?** Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

# WETLAND DETERMINATION DATA FORM – Midwest Region

| | | | | | |
|---|---|---|---|---|---|
| Project/Site: | Port of East St. Louis | City/County: | East St. Louis; St. Clair | Sampling Date: | 05-10-2012 |
| Applicant/Owner: | Slay Industires | State: | Illinois | Sampling Point: | S7 |
| Investigator(s): | SCI Engineering, Inc. | | Section, Township, Range: | S23 T2N R10W | |
| Landform (hillslope, terrace, etc.): | ____ | | Local relief (concave, convex, none): | ____ | |
| Slope (%): | ____ | Lat: ____ | Long: ____ | Datum: | ____ |
| Soil Map Unit Name: | ____ | | NWI classification: | ____ | |
| Are climatic/hydrologic conditions on the site typical for this time of year? | | | Yes ☒ No ☐ (If no, explain in Remarks.) | | |
| Are Vegetation N, Soil Y, or Hydrology N significantly disturbed? | | | Are "Normal Circumstances" present? | Yes ☒ No ☐ | |
| Are Vegetation N, Soil N, or Hydrology N naturally problematic? | | | (If needed, explain any answers in Remarks.) | | |

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| | | | |
|---|---|---|---|
| Hydrophytic Vegetation Present: | Yes ☒ No ☐ | **Is the Sampled Area within a Wetland?** | **Yes ☒ No ☐** |
| Hydric Soil Present: | Yes ☒ No ☐ | | |
| Wetland Hydrology Present: | Yes ☒ No ☐ | | |
| Remarks: Area is at lower elevation than surrouding areas and is located just west of elevated railroad facility. | | | |

## VEGETATION – Use scientific names of plants.

| Tree Stratum (Plot size: ____) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Salix nigra* | 3 | | OBL |
| 2. *Populus deltoides* | 3 | | FAC |
| 3. ____ | | | |
| 4. ____ | | | |
| 5. ____ | | | |
| | 6 = Total Cover | | |
| Sapling/Shrub Stratum (Plot size: ____) | | | |
| 1. ____ | | | |
| 2. ____ | | | |
| 3. ____ | | | |
| 4. ____ | | | |
| 5. ____ | | | |
| | ____ = Total Cover | | |
| Herb Stratum (Plot size: ____) | | | |
| 1. *Ambrosia artemisiifolia* | 25 | X | FACU |
| 2. *Polygonum pensylvanicum* | 25 | X | FACW |
| 3. *Carex sp.* | 10 | | FACW |
| 4. *Humulus japonicus* | 6 | | FACU |
| 5. *Packera glabella* | 25 | X | OBL |
| | 91 = Total Cover | | |
| Woody Vine Stratum (Plot size: ____) | | | |
| 1. ____ | | | |
| 2. ____ | | | |
| | ____ = Total Cover | | |

**Dominance Test worksheet:**

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species across all Strata: 3 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 67 (A/B)

**Prevalence Index Worksheet:**

| Total % Cover of: | Multiply by: |
|---|---|
| OBL species 28 | x1 = 28 |
| FACW species 35 | x2 = 70 |
| FAC species 3 | x3 = 9 |
| FACU species 31 | x4 = 124 |
| UPL species ____ | x5 = ____ |
| Column Totals: 97 (A) | 231 (B) |

Prevalence Index = B/A = 2.38

**Hydrophytic Vegetation Indicators:**

Y Dominance Test is >50%

Y Prevalence Index is ≤3.0[1]

____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation1 (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes ☒ No ☐

Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: S7

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0-15 | 10YR 4/1 | 90 | 10YR 4/3 | 10 | | | s cl | |
| | | | 10YR 2/1 | 10 | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epidedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☒ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: _____

Depth (inches): _____

**Hydric Soil Present?** Yes ☒ No ☐

Remarks:

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☒ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☒ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D2)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ☒ No ☐ Depth (inches): 3

Water Table Present? Yes ☒ No ☐ Depth (inches): surface

Saturation Present? (includes capillary fringe) Yes ☒ No ☐ Depth (inches): surface

**Wetland Hydrology Present?** Yes ☒ No ☐

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Surface water observed in central portion of wetland.

# WETLAND DETERMINATION DATA FORM – Midwest Region

| | | | | | |
|---|---|---|---|---|---|
| Project/Site: | Port of East St. Louis | City/County: | East St. Louis; St. Clair | Sampling Date: | 05-08-2012 |
| Applicant/Owner: | Slay Industires | State: | Illinois | Sampling Point: | S8 |
| Investigator(s): | SCI Engineering, Inc. | | Section, Township, Range: | S23 T2N R10W | |
| Landform (hillslope, terrace, etc.): | ____ | | Local relief (concave, convex, none): | ____ | |
| Slope (%): | ____ | Lat: ____ | Long: ____ | Datum: | ____ |
| Soil Map Unit Name: | ____ | | NWI classification: | ____ | |
| Are climatic/hydrologic conditions on the site typical for this time of year? | | | Yes ☒ No ☐ (If no, explain in Remarks.) | | |
| Are Vegetation Y, Soil N, or Hydrology Y significantly disturbed? | | | Are "Normal Circumstances" present? | Yes ☒ No ☐ | |
| Are Vegetation N, Soil N, or Hydrology N naturally problematic? | | | (If needed, explain any answers in Remarks.) | | |

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| | | | |
|---|---|---|---|
| Hydrophytic Vegetation Present: | Yes ☐ No ☒ | **Is the Sampled Area within a Wetland?** | **Yes ☐ No ☒** |
| Hydric Soil Present: | Yes ☐ No ☒ | | |
| Wetland Hydrology Present: | Yes ☐ No ☒ | | |
| Remarks: Fill area. | | | |

## VEGETATION – Use scientific names of plants.

| Tree Stratum (Plot size: ____) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. ____ | | | |
| 2. ____ | | | |
| 3. ____ | | | |
| 4. ____ | | | |
| 5. ____ | | | |
| | ____ = Total Cover | | |
| Sapling/Shrub Stratum (Plot size: ____) | | | |
| 1. *Lonicera maackii* | 50 | X | NI |
| 2. ____ | | | |
| 3. ____ | | | |
| 4. ____ | | | |
| 5. ____ | | | |
| | 50 = Total Cover | | |
| Herb Stratum (Plot size: ____) | | | |
| 1. *Sorghum halepense* | 25 | | FACU |
| 2. *Rumex crispus* | 15 | | FAC |
| 3. *Galium aparine* | 5 | | FACU |
| 4. *Asclepias syriaca* | 10 | | NI |
| 5. *poa pratensis* | 75 | X | FAC |
| | 130 = Total Cover | | |
| Woody Vine Stratum (Plot size: ____) | | | |
| 1. ____ | | | |
| 2. ____ | | | |
| | ____ = Total Cover | | |
| Remarks: (Include photo numbers here or on a separate sheet.) | | | |

**Dominance Test worksheet:**

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species across all Strata: 2 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 50 (A/B)

**Prevalence Index Worksheet:**

| Total % Cover of: | Multiply by: |
|---|---|
| OBL species ____ | x1 = ____ |
| FACW species ____ | x2 = ____ |
| FAC species 90 | x3 = 270 |
| FACU species 30 | x4 = 120 |
| UPL species ____ | x5 = ____ |
| Column Totals: 120 (A) | 390 (B) |

Prevalence Index = B/A = 3.25

**Hydrophytic Vegetation Indicators:**

____ Dominance Test is >50%

____ Prevalence Index is ≤3.0[1]

____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation1 (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes ☐ No ☒

## SOIL

Sampling Point: S8

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|
| | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: Rock

Depth (inches): Surface

**Hydric Soil Present?** Yes ☐ No ☒

Remarks: Soil rocky for soil sample (fill soils)

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D2)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ☐ No ☒ Depth (inches): None

Water Table Present? Yes ☐ No ☒ Depth (inches): >15

Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): >15

**Wetland Hydrology Present?** Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: Just south of access road

# WETLAND DETERMINATION DATA FORM – Midwest Region

| | | | | | |
|---|---|---|---|---|---|
| Project/Site: | Port of East St. Louis | City/County: | East St. Louis; St. Clair | Sampling Date: | 05-08-2012 |
| Applicant/Owner: | Slay Industires | State: | Illinois | Sampling Point: | S9 |
| Investigator(s): | SCI Engineering, Inc. | | Section, Township, Range: | S23 T2N R10W | |
| Landform (hillslope, terrace, etc.): | _____ | | Local relief (concave, convex, none): | | _____ |
| Slope (%): | _____ | Lat: _____ | Long: _____ | Datum: | _____ |
| Soil Map Unit Name: | _____ | | NWI classification: | PEMA | |
| Are climatic/hydrologic conditions on the site typical for this time of year? | | Yes ☒ | No ☐ (If no, explain in Remarks.) | | |
| Are Vegetation Y, Soil N, or Hydrology Y significantly disturbed? | | Are "Normal Circumstances" present? | | Yes ☒ | No ☐ |
| Are Vegetation N, Soil N, or Hydrology N naturally problematic? | | (If needed, explain any answers in Remarks.) | | | |

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| | | | |
|---|---|---|---|
| Hydrophytic Vegetation Present: | Yes ☐ No ☒ | **Is the Sampled Area within a Wetland?** | **Yes ☐ No ☒** |
| Hydric Soil Present: | Yes ☐ No ☒ | | |
| Wetland Hydrology Present: | Yes ☐ No ☒ | | |
| Remarks: Area at higher elevation than adjacent wetland. | | | |

## VEGETATION – Use scientific names of plants.

| Tree Stratum (Plot size: _____) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. _____ | | | |
| 2. _____ | | | |
| 3. _____ | | | |
| 4. _____ | | | |
| 5. _____ | | | |
| | _____ = Total Cover | | |
| Sapling/Shrub Stratum (Plot size: _____) | | | |
| 1. _____ | | | |
| 2. _____ | | | |
| 3. _____ | | | |
| 4. _____ | | | |
| 5. _____ | | | |
| | _____ = Total Cover | | |
| Herb Stratum (Plot size: _____) | | | |
| 1. *Conyza canadensis* | 20 | | FAC |
| 2. *Galium aparine* | 5 | | FACU |
| 3. *Verbascum thapsus* | 5 | | NI |
| 4. *Asclepias syriaca* | 20 | | NI |
| 5. *Festuca subverticillata* | 95 | X | FACU |
| | 145 = Total Cover | | |
| Woody Vine Stratum (Plot size: _____) | | | |
| 1. _____ | | | |
| 2. _____ | | | |
| | _____ = Total Cover | | |

**Dominance Test worksheet:**

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species across all Strata: 1 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 0 (A/B)

**Prevalence Index Worksheet:**

| Total % Cover of: | Multiply by: |
|---|---|
| OBL species _____ | x1 = _____ |
| FACW species _____ | x2 = _____ |
| FAC species 20 | x3 = 60 |
| FACU species 100 | x4 = 400 |
| UPL species _____ | x5 = _____ |
| Column Totals: 120 (A) | 460 (B) |

Prevalence Index = B/A = 3.8

**Hydrophytic Vegetation Indicators:**

N Dominance Test is >50%

N Prevalence Index is ≤3.0[1]

_____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation1 (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes ☐ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: S9

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0-6 | 10YR 3/1 | 55 | | | | | sicl | |
| | 10YR 3/2 | 45 | | | | | | |
| 6-15 | 10YR 3/1 | 45 | | | | | sicl | significant sand layer |
| | 10YR 3/2 | 40 | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epidedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: _____

Depth (inches): _____

**Hydric Soil Present?** Yes ☐ No ☒

Remarks:

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D2)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ☐ No ☒ Depth (inches): None

Water Table Present? Yes ☐ No ☒ Depth (inches): >15

Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): >15

**Wetland Hydrology Present?** Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

# WETLAND DETERMINATION DATA FORM – Midwest Region

| | | | | | |
|---|---|---|---|---|---|
| Project/Site: | Port of East St. Louis | City/County: | East St. Louis; St. Clair | Sampling Date: | 05-08-2012 |
| Applicant/Owner: | Slay Industires | State: | Illinois | Sampling Point: | S10 |
| Investigator(s): | SCI Engineering, Inc. | | Section, Township, Range: | S23 T2N R10W | |
| Landform (hillslope, terrace, etc.): | _____ | | Local relief (concave, convex, none): | | _____ |
| Slope (%): | _____ | Lat: _____ | Long: _____ | Datum: | _____ |
| Soil Map Unit Name: | _____ | | NWI classification: | _____ | |
| Are climatic/hydrologic conditions on the site typical for this time of year? | | Yes ☒ | No ☐ (If no, explain in Remarks.) | | |
| Are Vegetation Y, Soil N, or Hydrology Y significantly disturbed? | | Are "Normal Circumstances" present? | | Yes ☒ | No ☐ |
| Are Vegetation N, Soil N, or Hydrology N naturally problematic? | | (If needed, explain any answers in Remarks.) | | | |

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| | | | |
|---|---|---|---|
| Hydrophytic Vegetation Present: | Yes ☐ No ☒ | **Is the Sampled Area within a Wetland?** | **Yes ☐ No ☒** |
| Hydric Soil Present: | Yes ☐ No ☒ | | |
| Wetland Hydrology Present: | Yes ☐ No ☒ | | |
| Remarks: Area of fill. | | | |

## VEGETATION – Use scientific names of plants.

| Tree Stratum (Plot size: _____) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. _____ | | | |
| 2. _____ | | | |
| 3. _____ | | | |
| 4. _____ | | | |
| 5. _____ | | | |
| | _____ = Total Cover | | |
| Sapling/Shrub Stratum (Plot size: _____) | | | |
| 1. _____ | | | |
| 2. _____ | | | |
| 3. _____ | | | |
| 4. _____ | | | |
| 5. _____ | | | |
| | _____ = Total Cover | | |
| Herb Stratum (Plot size: _____) | | | |
| 1. *Conyza canadensis* | 25 | | FAC |
| 2. *Rumex crispus* | 3 | | FAC |
| 3. *Galium aparine* | 5 | | FAC |
| 4. *Ambrosia trifida* | 10 | | NI |
| 5. *Festuca subverticillata* | 95 | X | FACU |
| | 138 = Total Cover | | |
| Woody Vine Stratum (Plot size: _____) | | | |
| 1. _____ | | | |
| 2. _____ | | | |
| | _____ = Total Cover | | |

**Dominance Test worksheet:**

Number of Dominant Species that are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species across all Strata: 1 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 0 (A/B)

**Prevalence Index Worksheet:**

| Total % Cover of: | Multiply by: |
|---|---|
| OBL species _____ | x1 = _____ |
| FACW species _____ | x2 = _____ |
| FAC species 33 | x3 = 99 |
| FACU species 95 | x4 = 380 |
| UPL species _____ | x5 = _____ |
| Column Totals: 128 (A) | 479 (B) |

Prevalence Index = B/A = 3.7

**Hydrophytic Vegetation Indicators:**

N Dominance Test is >50%

N Prevalence Index is ≤3.0[1]

_____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation1 (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes ☐ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: S10

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|
| | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: Rock

Depth (inches): Surface

**Hydric Soil Present?** Yes ☐ No ☒

Remarks: Soil too rocky for soil sample (fill soils)

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D2)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ☐ No ☒ Depth (inches): None

Water Table Present? Yes ☐ No ☒ Depth (inches): ≥2

Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): ≥2

**Wetland Hydrology Present?** Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

# WETLAND DETERMINATION DATA FORM – Midwest Region

| | | | | | |
|---|---|---|---|---|---|
| Project/Site: | Port of East St. Louis | City/County: | East St. Louis; St. Clair | Sampling Date: | 05-08-2012 |
| Applicant/Owner: | Slay Industires | State: | Illinois | Sampling Point: | S11 |
| Investigator(s): | SCI Engineering, Inc. | | Section, Township, Range: | S23 T2N R10W | |
| Landform (hillslope, terrace, etc.): | _____ | | Local relief (concave, convex, none): | _____ | |
| Slope (%): | _____ | Lat: _____ | Long: _____ | Datum: | _____ |
| Soil Map Unit Name: | _____ | | NWI classification: | _____ | |
| Are climatic/hydrologic conditions on the site typical for this time of year? | | Yes ☒ No ☐ (If no, explain in Remarks.) | | | |
| Are Vegetation Y, Soil N, or Hydrology Y significantly disturbed? | | Are "Normal Circumstances" present? | | Yes ☒ No ☐ | |
| Are Vegetation N, Soil N, or Hydrology N naturally problematic? | | (If needed, explain any answers in Remarks.) | | | |

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| | | | |
|---|---|---|---|
| Hydrophytic Vegetation Present: | Yes ☐ No ☒ | **Is the Sampled Area within a Wetland?** | **Yes ☐ No ☒** |
| Hydric Soil Present: | Yes ☐ No ☒ | | |
| Wetland Hydrology Present: | Yes ☐ No ☒ | | |
| Remarks: Area of fill. | | | |

## VEGETATION – Use scientific names of plants.

| Tree Stratum (Plot size: _____) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. _____ | | | |
| 2. _____ | | | |
| 3. _____ | | | |
| 4. _____ | | | |
| 5. _____ | | | |
| | _____ = Total Cover | | |
| Sapling/Shrub Stratum (Plot size: _____) | | | |
| 1. *Lonicera maackii* | 50 | X | NI |
| 2. _____ | | | |
| 3. _____ | | | |
| 4. _____ | | | |
| 5. _____ | | | |
| | 50 = Total Cover | | |
| Herb Stratum (Plot size: _____) | | | |
| 1. *Sorghum halepense* | 25 | | FACU |
| 2. *Rumex crispus* | 15 | | FAC |
| 3. *Galium aparine* | 5 | | FACU |
| 4. *Asclepias syriaca* | 10 | | NI |
| 5. *Poa pratensis* | 75 | X | FAC |
| | 130 = Total Cover | | |
| Woody Vine Stratum (Plot size: _____) | | | |
| 1. _____ | | | |
| 2. _____ | | | |
| | _____ = Total Cover | | |

**Dominance Test worksheet:**

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species across all Strata: 2 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 50 (A/B)

**Prevalence Index Worksheet:**

| Total % Cover of: | Multiply by: |
|---|---|
| OBL species _____ | x1 = _____ |
| FACW species _____ | x2 = _____ |
| FAC species 90 | x3 = 270 |
| FACU species 30 | x4 = 120 |
| UPL species _____ | x5 = _____ |
| Column Totals: 120 (A) | 390 (B) |

Prevalence Index = B/A = 3.25

**Hydrophytic Vegetation Indicators:**

_____ Dominance Test is >50%

_____ Prevalence Index is ≤3.0[1]

_____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation1 (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes ☐ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: S11

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|
| | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epidedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: Rock

Depth (inches): Surface

**Hydric Soil Present?** Yes ☐ No ☒

Remarks: Soil too rocky for soil sample (fill soils)

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D2)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ☐ No ☒ Depth (inches): None

Water Table Present? Yes ☐ No ☒ Depth (inches): ≥2

Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): ≥2

**Wetland Hydrology Present?** Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

# WETLAND DETERMINATION DATA FORM – Midwest Region

| | | | | | |
|---|---|---|---|---|---|
| Project/Site: | Port of East St. Louis | City/County: | East St. Louis; St. Clair | Sampling Date: | 06-19-2012 |
| Applicant/Owner: | Slay Industries | State: | Illinois | Sampling Point: | S12 |
| Investigator(s): | SCI Engineering, Inc. | | Section, Township, Range: | | S23 T2N R10W |
| Landform (hillslope, terrace, etc.): | ____ | | Local relief (concave, convex, none): | | ____ |
| Slope (%): | ____ | Lat: ____ | Long: ____ | Datum: | ____ |
| Soil Map Unit Name: | ____ | | NWI classification: | | ____ |
| Are climatic/hydrologic conditions on the site typical for this time of year? | | | Yes ☒ No ☐ (If no, explain in Remarks.) | | |
| Are Vegetation N, Soil Y, or Hydrology N significantly disturbed? | | | Are "Normal Circumstances" present? | | Yes ☒ No ☐ |
| Are Vegetation N, Soil N, or Hydrology N naturally problematic? | | | (If needed, explain any answers in Remarks.) | | |

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| | | | |
|---|---|---|---|
| Hydrophytic Vegetation Present: | Yes ☐ No ☒ | **Is the Sampled Area within a Wetland?** | **Yes ☐ No ☒** |
| Hydric Soil Present: | Yes ☐ No ☒ | | |
| Wetland Hydrology Present: | Yes ☐ No ☒ | | |
| Remarks: Potential Fill Area north of Wetland 1. | | | |

## VEGETATION – Use scientific names of plants.

| Tree Stratum (Plot size: ____) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. ____ | | | |
| 2. ____ | | | |
| 3. ____ | | | |
| 4. ____ | | | |
| 5. ____ | | | |
| | ____ = Total Cover | | |
| Sapling/Shrub Stratum (Plot size: ____) | | | |
| 1. *Lonicera maackii* | 40 | Y | NI |
| 2. ____ | | | |
| 3. ____ | | | |
| 4. ____ | | | |
| 5. ____ | | | |
| | 40 = Total Cover | | |
| Herb Stratum (Plot size: ____) | | | |
| 1. *Poa pratensis* | 60 | Y | FAC |
| 2. *Rumex crispus* | 15 | | FAC |
| 3. *Galium aparine* | 15 | | FACU |
| 4. *Asclepias syriaca* | 10 | | NI |
| 5. ____ | | | |
| | 100 = Total Cover | | |
| Woody Vine Stratum (Plot size: ____) | | | |
| 1. ____ | | | |
| 2. ____ | | | |
| | ____ = Total Cover | | |

**Dominance Test worksheet:**

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species across all Strata: 2 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 50 (A/B)

**Prevalence Index Worksheet:**

| Total % Cover of: | Multiply by: |
|---|---|
| OBL species ____ | x1 = ____ |
| FACW species ____ | x2 = ____ |
| FAC species 75 | x3 = 225 |
| FACU species 15 | x4 = 60 |
| UPL species ____ | x5 = ____ |
| Column Totals: 90 (A) | 285 (B) |

Prevalence Index = B/A = 3.16

**Hydrophytic Vegetation Indicators:**

____ Dominance Test is >50%

____ Prevalence Index is ≤3.0[1]

____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation1 (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes ☐ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: S12

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|
| | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | | |
| 0-4 | 10 YR 3/3 | 95 | | | | | sic | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: Rock

Depth (inches): 4

**Hydric Soil Present?** Yes ☐ No ☒

Remarks: Soil likely fill material based on observed characteristics.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D2)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ☐ No ☒ Depth (inches): None

Water Table Present? Yes ☐ No ☒ Depth (inches): ≥4

Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): ≥4

**Wetland Hydrology Present?** Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

# WETLAND DETERMINATION DATA FORM – Midwest Region

| | | | | | |
|---|---|---|---|---|---|
| Project/Site: | Port of East St. Louis | City/County: | East St. Louis; St. Clair | Sampling Date: | 06-19-2012 |
| Applicant/Owner: | Slay Industries | State: | Illinois | Sampling Point: | S13 |
| Investigator(s): | SCI Engineering, Inc. | | Section, Township, Range: | S23 T2N R10W | |
| Landform (hillslope, terrace, etc.): | _____ | | Local relief (concave, convex, none): | | _____ |
| Slope (%): | _____ | Lat: _____ | Long: _____ | Datum: | _____ |
| Soil Map Unit Name: | _____ | | NWI classification: | _____ | |
| Are climatic/hydrologic conditions on the site typical for this time of year? | | Yes ☒ No ☐ (If no, explain in Remarks.) | | | |
| Are Vegetation N, Soil Y, or Hydrology N significantly disturbed? | | Are "Normal Circumstances" present? | | Yes ☒ No ☐ | |
| Are Vegetation N, Soil N, or Hydrology N naturally problematic? | | (If needed, explain any answers in Remarks.) | | | |

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| | | | |
|---|---|---|---|
| Hydrophytic Vegetation Present: | Yes ☐ No ☒ | **Is the Sampled Area within a Wetland?** | **Yes ☐ No ☒** |
| Hydric Soil Present: | Yes ☐ No ☒ | | |
| Wetland Hydrology Present: | Yes ☐ No ☒ | | |
| Remarks: Potential Fill Area north of Wetland 1, directly east of a pump station. | | | |

## VEGETATION – Use scientific names of plants.

| Tree Stratum (Plot size: _____) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. _____ | | | |
| 2. _____ | | | |
| 3. _____ | | | |
| 4. _____ | | | |
| 5. _____ | | | |
| | _____ = Total Cover | | |
| Sapling/Shrub Stratum (Plot size: _____) | | | |
| 1. _____ | | | |
| 2. _____ | | | |
| 3. _____ | | | |
| 4. _____ | | | |
| 5. _____ | | | |
| | _____ = Total Cover | | |
| Herb Stratum (Plot size: _____) | | | |
| 1. *Poa pratensis* | 50 | Y | FAC |
| 2. *Conyza canadensis* | 20 | | FAC |
| 3. *Galium aparine* | 10 | | FAC |
| 4. *Ambrosia trifida* | 20 | | NI |
| 5. *Festuca subverticillata* | 50 | Y | FACU |
| | 150 = Total Cover | | |
| Woody Vine Stratum (Plot size: _____) | | | |
| 1. _____ | | | |
| 2. _____ | | | |
| | _____ = Total Cover | | |

**Dominance Test worksheet:**

Number of Dominant Species that are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species across all Strata: 2 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 50 (A/B)

**Prevalence Index Worksheet:**

| Total % Cover of: | Multiply by: |
|---|---|
| OBL species _____ | x1 = _____ |
| FACW species _____ | x2 = _____ |
| FAC species 80 | x3 = 240 |
| FACU species 50 | x4 = 200 |
| UPL species _____ | x5 = _____ |
| Column Totals: 130 (A) | 440 (B) |

Prevalence Index = B/A = 3.38

**Hydrophytic Vegetation Indicators:**

_____ Dominance Test is >50%

_____ Prevalence Index is ≤3.0[1]

_____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation1 (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes ☐ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: S13

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix | | Redox Features | | | | Texture | Remarks |
|---|---|---|---|---|---|---|---|---|
| | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | | |
| 0-2 | 10 YR 4/3 | 30 | | | | | sic | |
| | 10 YR 3/2 | 70 | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: Rock

Depth (inches): 2

**Hydric Soil Present?** Yes ☐ No ☒

Remarks: Soil likely fill material based on observed characteristics.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D2)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ☐ No ☒ Depth (inches): None

Water Table Present? Yes ☐ No ☒ Depth (inches): ≥2

Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): ≥2

**Wetland Hydrology Present?** Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

## WETLAND DETERMINATION DATA FORM – Midwest Region

| | | | | | |
|---|---|---|---|---|---|
| Project/Site: | Port of East St. Louis | City/County: | East St. Louis; St. Clair | Sampling Date: | 06-19-2012 |
| Applicant/Owner: | Slay Industries | State: | Illinois | Sampling Point: | S14 |
| Investigator(s): | SCI Engineering, Inc. | | Section, Township, Range: | S23 T2N R10W | |
| Landform (hillslope, terrace, etc.): | _____ | | Local relief (concave, convex, none): | | _____ |
| Slope (%): | _____ | Lat: _____ | Long: _____ | Datum: | _____ |
| Soil Map Unit Name: | _____ | | NWI classification: | _____ | |
| Are climatic/hydrologic conditions on the site typical for this time of year? | | Yes ☒ No ☐ (If no, explain in Remarks.) | | | |
| Are Vegetation N, Soil Y, or Hydrology N significantly disturbed? | | Are "Normal Circumstances" present? | | Yes ☒ No ☐ | |
| Are Vegetation N, Soil N, or Hydrology N naturally problematic? | | (If needed, explain any answers in Remarks.) | | | |

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| | | | |
|---|---|---|---|
| Hydrophytic Vegetation Present: | Yes ☒ No ☐ | **Is the Sampled Area within a Wetland?** | **Yes ☐ No ☒** |
| Hydric Soil Present: | Yes ☐ No ☒ | | |
| Wetland Hydrology Present: | Yes ☐ No ☒ | | |
| Remarks: Area is located south of an existing rail bed and appears to have been filled in the past. | | | |

## VEGETATION – Use scientific names of plants.

| Tree Stratum (Plot size: _____) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. _____ | | | |
| 2. _____ | | | |
| 3. _____ | | | |
| 4. _____ | | | |
| 5. _____ | | | |
| | _____ = Total Cover | | |
| Sapling/Shrub Stratum (Plot size: _____) | | | |
| 1. _____ | | | |
| 2. _____ | | | |
| 3. _____ | | | |
| 4. _____ | | | |
| 5. _____ | | | |
| | _____ = Total Cover | | |
| Herb Stratum (Plot size: _____) | | | |
| 1. *Poa pratensis* | 40 | Y | FAC |
| 2. *Conyza canadensis* | 30 | Y | FAC |
| 3. *Galium aparine* | 10 | | FAC |
| 4. *Ambrosia trifida* | 25 | Y | FAC |
| 5. *Festuca subverticillata* | 60 | Y | FACU |
| | 165 = Total Cover | | |
| Woody Vine Stratum (Plot size: _____) | | | |
| 1. _____ | | | |
| 2. _____ | | | |
| | _____ = Total Cover | | |

**Dominance Test worksheet:**

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species across all Strata: 4 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 75 (A/B)

**Prevalence Index Worksheet:**

| Total % Cover of: | Multiply by: |
|---|---|
| OBL species _____ | x1 = _____ |
| FACW species _____ | x2 = _____ |
| FAC species 105 | x3 = 315 |
| FACU species 60 | x4 = 240 |
| UPL species _____ | x5 = _____ |
| Column Totals: 165 (A) | 555 (B) |

Prevalence Index = B/A = 3.37

**Hydrophytic Vegetation Indicators:**

X Dominance Test is >50%

_____ Prevalence Index is ≤3.0[1]

_____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

_____ Problematic Hydrophytic Vegetation1 (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes ☒ No ☐

Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: S14

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0-8 | 10 YR 4/4 | 40 | | | | | sic | |
| | 10 YR 3/3 | 60 | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epidedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: Rock

Depth (inches): 8

**Hydric Soil Present?** Yes ☐ No ☒

Remarks: Soil likely fill material based on observed characteristics.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D2)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ☐ No ☒ Depth (inches): None

Water Table Present? Yes ☐ No ☒ Depth (inches): ≥8

Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): ≥8

**Wetland Hydrology Present?** Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

# WETLAND DETERMINATION DATA FORM – Midwest Region

| | | | | | |
|---|---|---|---|---|---|
| Project/Site: | Port of East St. Louis | City/County: | East St. Louis; St. Clair | Sampling Date: | 06-19-2012 |
| Applicant/Owner: | Slay Industries | State: | Illinois | Sampling Point: | S15 |
| Investigator(s): | SCI Engineering, Inc. | | Section, Township, Range: | S23 T2N R10W | |
| Landform (hillslope, terrace, etc.): | ____ | | Local relief (concave, convex, none): | ____ | |
| Slope (%): | ____ | Lat: ____ | Long: ____ | Datum: | ____ |
| Soil Map Unit Name: | ____ | | NWI classification: | ____ | |
| Are climatic/hydrologic conditions on the site typical for this time of year? | | Yes ☒ | No ☐ (If no, explain in Remarks.) | | |
| Are Vegetation N, Soil Y, or Hydrology N significantly disturbed? | | Are "Normal Circumstances" present? | | Yes ☒ | No ☐ |
| Are Vegetation N, Soil N, or Hydrology N naturally problematic? | | (If needed, explain any answers in Remarks.) | | | |

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| | | | |
|---|---|---|---|
| Hydrophytic Vegetation Present: | Yes ☐ No ☒ | **Is the Sampled Area within a Wetland?** | **Yes ☐ No ☒** |
| Hydric Soil Present: | Yes ☐ No ☒ | | |
| Wetland Hydrology Present: | Yes ☐ No ☒ | | |
| Remarks: Area is located along access road near northern boundary of the subject site. | | | |

## VEGETATION – Use scientific names of plants.

| Tree Stratum (Plot size: ____) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Populus deltoides* | 10 | | FACW |
| 2. *Acer saccharinum* | 15 | | FACW |
| 3. *Acer negundo* | 15 | | FACW |
| 4. ____ | | | |
| 5. ____ | | | |
| | 40 = Total Cover | | |
| Sapling/Shrub Stratum (Plot size: ____) | | | |
| 1. *Lonicera maackii* | 35 | Y | NI |
| 2. ____ | | | |
| 3. ____ | | | |
| 4. ____ | | | |
| 5. ____ | | | |
| | 35 = Total Cover | | |
| Herb Stratum (Plot size: ____) | | | |
| 1. *Poa pratensis* | 50 | Y | FAC |
| 2. *Conyza canadensis* | 30 | Y | FAC |
| 3. *Sorghum halepense* | 40 | Y | FACU |
| 4. *Asclepias syriaca* | 10 | | FACU |
| 5. ____ | | | |
| | 130 = Total Cover | | |
| Woody Vine Stratum (Plot size: ____) | | | |
| 1. ____ | | | |
| 2. ____ | | | |
| | ____ = Total Cover | | |

**Dominance Test worksheet:**

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species across all Strata: 4 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 50 (A/B)

**Prevalence Index Worksheet:**

| Total % Cover of: | Multiply by: |
|---|---|
| OBL species ____ | x1 = ____ |
| FACW species 40 | x2 = 80 |
| FAC species 80 | x3 = 240 |
| FACU species 50 | x4 = 200 |
| UPL species ____ | x5 = ____ |
| Column Totals: 170 (A) | 520 (B) |

Prevalence Index = B/A = 3.06

**Hydrophytic Vegetation Indicators:**

____ Dominance Test is >50%

____ Prevalence Index is ≤3.0[1]

____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation1 (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes ☐ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: S14

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epidedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: Rock

Depth (inches): Surface

**Hydric Soil Present?** Yes ☐ No ☒

Remarks: Unable to obtain soil sample based on rocky conditions.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D2)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ☐ No ☒ Depth (inches): None

Water Table Present? Yes ☐ No ☒ Depth (inches): ≥2

Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): ≥2

**Wetland Hydrology Present?** Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

## WETLAND DETERMINATION DATA FORM – Midwest Region

| | | | | | |
|---|---|---|---|---|---|
| Project/Site: | Port of East St. Louis | City/County: | East St. Louis; St. Clair | Sampling Date: | 06-19-2012 |
| Applicant/Owner: | Slay Industries | State: | Illinois | Sampling Point: | S16 |
| Investigator(s): | SCI Engineering, Inc. | | Section, Township, Range: | S23 T2N R10W | |
| Landform (hillslope, terrace, etc.): | ____ | | Local relief (concave, convex, none): | ____ | |
| Slope (%): | ____ | Lat: ____ | Long: ____ | Datum: | ____ |
| Soil Map Unit Name: | ____ | | NWI classification: | ____ | |
| Are climatic/hydrologic conditions on the site typical for this time of year? | | Yes ☒ No ☐ (If no, explain in Remarks.) | | | |
| Are Vegetation N, Soil Y, or Hydrology N significantly disturbed? | | Are "Normal Circumstances" present? | | Yes ☒ No ☐ | |
| Are Vegetation N, Soil N, or Hydrology N naturally problematic? | | (If needed, explain any answers in Remarks.) | | | |

## SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

| | | | |
|---|---|---|---|
| Hydrophytic Vegetation Present: | Yes ☐ No ☒ | **Is the Sampled Area within a Wetland?** | **Yes ☐ No ☒** |
| Hydric Soil Present: | Yes ☐ No ☒ | | |
| Wetland Hydrology Present: | Yes ☐ No ☒ | | |
| Remarks: Point taken near the northeastern boundary of the subject site. | | | |

## VEGETATION – Use scientific names of plants.

| Tree Stratum (Plot size: ____) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Populus deltoides* | 5 | | FACW |
| 2. *Acer saccharinum* | 15 | | FACW |
| 3. ____ | | | |
| 4. ____ | | | |
| 5. ____ | | | |
| | 20 = Total Cover | | |
| Sapling/Shrub Stratum (Plot size: ____) | | | |
| 1. *Lonicera maackii* | 25 | Y | NI |
| 2. ____ | | | |
| 3. ____ | | | |
| 4. ____ | | | |
| 5. ____ | | | |
| | 25 = Total Cover | | |
| Herb Stratum (Plot size: ____) | | | |
| 1. *Poa pratensis* | 35 | Y | FAC |
| 2. *Conyza canadensis* | 35 | Y | FAC |
| 3. *Sorghum halepense* | 30 | Y | FACU |
| 4. *Asclepias syriaca* | 10 | | FACU |
| 5. *Rumex crispus* | 15 | | FAC |
| | 125 = Total Cover | | |
| Woody Vine Stratum (Plot size: ____) | | | |
| 1. ____ | | | |
| 2. ____ | | | |
| | ____ = Total Cover | | |

**Dominance Test worksheet:**

Number of Dominant Species that are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species across all Strata: 4 (B)

Percent of Dominant Species that are OBL, FACW, or FAC: 50 (A/B)

**Prevalence Index Worksheet:**

| Total % Cover of: | Multiply by: |
|---|---|
| OBL species ____ | x1 = ____ |
| FACW species 40 | x2 = 80 |
| FAC species 80 | x3 = 240 |
| FACU species 50 | x4 = 200 |
| UPL species ____ | x5 = ____ |
| Column Totals: 170 (A) | 520 (B) |

Prevalence Index = B/A = 3.06

**Hydrophytic Vegetation Indicators:**

____ Dominance Test is >50%

____ Prevalence Index is ≤3.0[1]

____ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation1 (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

**Hydrophytic Vegetation Present?** Yes ☐ No ☒

Remarks: (Include photo numbers here or on a separate sheet.)

## SOIL

Sampling Point: S16

**Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)**

| Depth (inches) | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0-6 | 10 YR 3/2 | | | | | | sicl | |
| | 10 YR 3/3 | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators:**

- ☐ Histosol (A1)
- ☐ Histic Epipedon (A2)
- ☐ Black Histic (A3)
- ☐ Hydrogen Sulfide (A4)
- ☐ Stratified Layers (A5)
- ☐ 2 cm Muck (A10)
- ☐ Depleted Below Dark Surface (A11)
- ☐ Thick Dark Surface (A12)
- ☐ Sandy Mucky Mineral (S1)
- ☐ 5 cm Mucky Peat or Peat (S3)
- ☐ Sandy Gleyed Matrix (S4)
- ☐ Sandy Redox (S5)
- ☐ Stripped Matrix (S6)
- ☐ Loamy Mucky Mineral (F1)
- ☐ Loamy Gleyed Matrix (F2)
- ☐ Depleted Matrix (F3)
- ☐ Redox Dark Surface (F6)
- ☐ Depleted Dark Surface (F7)
- ☐ Redox Depressions (F8)

**Indicators for Problematic Hydric Soils[3]:**

- ☐ Coast Prairie Redox (A16)
- ☐ Iron-Manganese Masses (F12)
- ☐ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if observed):**

Type: Rock

Depth (inches): 6

**Hydric Soil Present?** Yes ☐ No ☒

Remarks: Rocky soil conditions observed at approximately 6 inches below surface. The area has likely been filled in the past based on site observations.

## HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ☐ Surface Water (A1)
- ☐ High Water Table (A2)
- ☐ Saturation (A3)
- ☐ Water Marks (B1)
- ☐ Sediment Deposits (B2)
- ☐ Drift Deposits (B3)
- ☐ Algal Mat or Crust (B4)
- ☐ Iron Deposits (B5)
- ☐ Inundation Visible on Aerial Imagery (B7)
- ☐ Sparsely Vegetated Concave Surface (B8)
- ☐ Water-Stained Leaves (B9)
- ☐ Aquatic Fauna (B13)
- ☐ True Aquatic Plants (B14)
- ☐ Hydrogen Sulfide Odor (C1)
- ☐ Oxidized Rhizospheres on Living Roots (C3)
- ☐ Presence of Reduced Iron (C4)
- ☐ Recent Iron Reduction in Tilled Soils (C6)
- ☐ Thin Muck Surface (C7)
- ☐ Gauge or Well Data (D9)
- ☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ☐ Surface Soil Cracks (B6)
- ☐ Drainage Patterns (B10)
- ☐ Dry-Season Water Table (C2)
- ☐ Crayfish Burrows (C8)
- ☐ Saturation Visible on Aerial Imagery (C9)
- ☐ Stunted or Stressed Plants (D2)
- ☐ FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes ☐ No ☒ Depth (inches): None

Water Table Present? Yes ☐ No ☒ Depth (inches): ≥6

Saturation Present? (includes capillary fringe) Yes ☐ No ☒ Depth (inches): ≥6

**Wetland Hydrology Present?** Yes ☐ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: