

MIDLAND RESOLUTION

LEGEND

- Remediated Area
- Property

Total Yard Area:  
5949 sq. ft.

Area Excavated:  
5799 sq. ft.

Total Area Not Excavated:  
150 sq. ft.



0 15 30 60 Feet

Parcel 14-15-50-624  
Midland Resolution Soil Replacement

## Dow Midland Soils Remedy Worksheet

Site Address: 1310 Lincoln St.

Parcel: 14-15-50-624

Date: 4-Nov-13

### Initial Soil Sample

343

Soil Result (ppt)

### Soil Remedy Result:

REMEDY

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Replicate Soil Samples

--

Initial soil result (ppt)

--

Replicate result (ppt)

--

Replicate result (ppt)

### Soil Replicate

### Remedy Result:

--

--

Average (ppt)

--

Standard Deviation (ppt)

2.92

t (0.95, 2)

--

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### If Soil Remedy Required, Evaluate Indoor Dust:

343

Initial soil result or 95% UCL if replicates were required (ppt)

5949

Area of yard (ft<sup>2</sup>) (area as sampled)

150

Area not remedied (ft<sup>2</sup>)

23

Surface Weighted Average (SWA) (ppt)

3%

% Undisturbed Remaining Soil (URS)

6.53E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Kris @ Tina Granzo	Property Address: 1310 Lincoln St.
Contract Personnel: <ul style="list-style-type: none"><li>• Kappen Tree Service – 5/30/13</li><li>• M &amp; M</li><li>• Servinski</li><li>• Fisher</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Kappen: Bucket Truck, Boom Crane, Log Truck, Stinger</li><li>• M &amp; M: Stump Grinder</li><li>• Servinski: Mini Excavator, Excavator, Bobcats</li><li>• Fisher: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 6/10/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4584	Yards In: 114 * See Below	Yards Out: 170 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Laser level used to verify cut depth	Date Verified/Initial: GW 6/10/13
Describe soils remaining: An area 10ft x 24ft was not removed. Existing raspberry bushes.		

### DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was onsite 5/30/13 and removed the select trees. Wood chips and tree logs were hauled to the Allied staging area.

M & M: Ground the stumps left from the tree removal.

Servinski/Fisher: Began and completed the soils dig out. Some topsoil was imported placed and graded. Silt fence was installed at the curb line along Lincoln St.

\* Yards Out:

155yds – Soil relocated to the (Salzburg Landfill MAS Stockpile Area)

15yds – Concrete and soil hauled to (Midland City Landfill) for disposal

\* Yards In:

105yds – Topsoil

9yds - Sand

*Gary Waugh*

*6/10/13*

Field Representative Signature

Date

Weather: Cloudy, 55 – 65, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Kris @ Tina Granzo	Property Address: 1310 Lincoln St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Sugar Construction</li><li>• Reliable Plumbing</li><li>• Kokaly</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcats</li><li>• Fisher: Hand Tools</li><li>• Sugar: Hand Tools</li><li>• Reliable: Hand Tools</li><li>• Kokaly: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 6/11/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4584	Yards In: 92 * See Below	Yards Out: 0
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Laser level used to verify cut depth	Date Verified/Initial: GW 6/10/13
Describe soils remaining: An area 10ft x 24ft was not removed. Existing raspberry bushes.		

### DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the concrete for a 10ft x 10ft patio off the rear sidewalk.

Reliable Plumbing: Installed the backflow preventer and necessary plumbing to accommodate the irrigations system.

Kokaly: Installed the irrigations piping, sprinkler heads, low voltage wiring and valves.

Servinski/Fisher: Finished importing and placing the topsoil. Final grading was completed. Landscape bed were defined, edging installed, shrubs and trees planted, drainage stone and hardwood mulch placed in the appropriate beds. Silt fence was installed at the curb line along Lincoln St.

\* Yards In:  
75yds – Topsoil  
9yds – Drainage Stone  
8yds – Hardwood Mulch

*Gary Waugh*

*6/11/13*

Field Representative Signature

Date

Weather: Clear, 62 – 80, light winds.



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Kris @ Tina Granzo	Property Address: 1310 Lincoln St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcats</li><li>• Fisher: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 6/12/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4584	Yards In: 92 * See Below	Yards Out: 0
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Laser level used to verify cut depth	Date Verified/Initial: GW 6/10/13
Describe soils remaining: An area 10ft x 24ft was not removed. Existing raspberry bushes.		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Placed and trimmed sod. 1310 Lincoln is complete pending a final walk through with the property owner.

*Gary Waugh*

*6/12/13*

Field Representative Signature

Date

Weather: Clear, 62 – 77, light winds.

**Green Remediation Assurance Form**  
**Midland Resolution**

**Property Information**

Property Owner: Kris & Tina Granzo

Contract Personnel: Pat's Trucking, Servinski

Property Address: 1310 Lincoln St.

Field Person: Gary Waugh

Date: 6/11/2013

**Fuel Usage**

Low Sulfur Diesel Used:.....Yes ☒ No ☐ N/A ☐

**Equipment**

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes ☒ No ☐ N/A ☐

Equipment Shut Off When Not In Use (No Idling):.....Yes ☒ No ☐ N/A ☐

Equipment Inspected For Leaks, Seepages, ETC:.....Yes ☒ No ☐ N/A ☐

**Administrative**

Vegetation and Plants Supplied Locally:.....Yes ☒ No ☐ N/A ☐

Local Subcontractors Used:.....Yes ☒ No ☐ N/A ☐

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes ☒ No ☐ N/A ☐

**Waste Management**

Waste Generated Recycled ( 0 )%:.....Yes ☐ No ☒ N/A ☐

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawassee River Flood Plain as Barrier

Or Dust Control:.....Yes ☒ No ☐ N/A ☐

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes ☒ No ☐ N/A ☐

**Project Controls**

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes ☐ No ☐ N/A ☒

Geosynthetics Used on Property Access Area:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Trucks During Soil Removal:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Borrow Trucks:.....Yes ☒ No ☐ N/A ☐

Active Dust Management System Used:.....Yes ☐ No ☐ N/A ☒

Phosphate Free Fertilizers Used:.....Yes ☐ No ☐ N/A ☒

Removed Soil Taken to Dow Plant For Reuse in Facility:....Yes ☐ No ☒ N/A ☐

Use of Sod as the Preferred Revegetation Tool:.....Yes ☒ No ☐ N/A ☐

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes ☒ No ☐ N/A ☐

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes ☒ No ☐ N/A ☐

Reuse Existing Concrete Foundations When Possible...Yes ☐ No ☒ N/A ☐

Use Water Efficient Landscaping.....Yes ☐ No ☐ N/A ☒

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

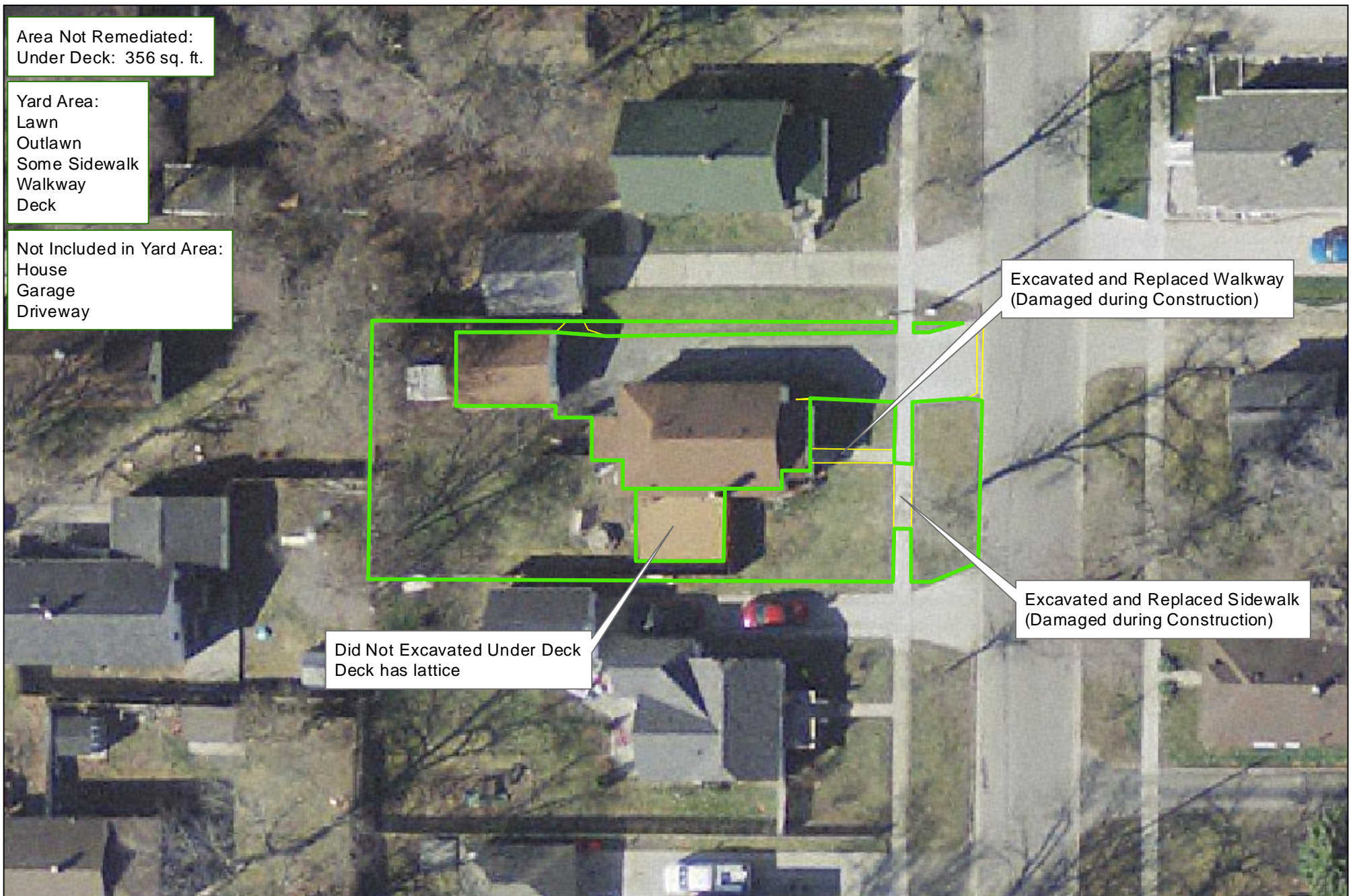
Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes ☒ No ☐ N/A ☐

Area Not Remediated:  
Under Deck: 356 sq. ft.

Yard Area:  
Lawn  
Outlawn  
Some Sidewalk  
Walkway  
Deck

Not Included in Yard Area:  
House  
Garage  
Driveway



MIDLAND RESOLUTION

LEGEND

- Remediated Area
- Property

Total Yard Area:  
5238 sq. ft.

Area Excavated:  
4882 sq. ft.

Total Area Not Excavated:  
356 sq. ft.



0 15 30 60 Feet

Parcel 14-15-50-756  
Midland Resolution Soil Replacement

## Dow Midland Soils Remedy Worksheet

Site Address: 1319 Lincoln St.

Parcel: 14-15-50-756

Date: 4-Nov-13

### Initial Soil Sample

287

Soil Result (ppt)

### Soil Remedy Result:

REMEDY

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Replicate Soil Samples

--

Initial soil result (ppt)

--

Replicate result (ppt)

--

Replicate result (ppt)

### Soil Replicate

### Remedy Result:

--

--

Average (ppt)

--

Standard Deviation (ppt)

2.92

t (0.95, 2)

--

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### If Soil Remedy Required, Evaluate Indoor Dust:

287

Initial soil result or 95% UCL if replicates were required (ppt)

5238

Area of yard (ft<sup>2</sup>) (area as sampled)

356

Area not remedied (ft<sup>2</sup>)

33

Surface Weighted Average (SWA) (ppt)

7%

% Undisturbed Remaining Soil (URS)

5.76E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Juan & Mary Coronado	Property Address: 1319 Lincoln
Contract Personnel: <ul style="list-style-type: none"><li>• Kappen Tree Service – 6/6/13</li><li>• Servinski</li><li>• Fisher</li><li>• Pats</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Kappen: Bucket Truck, Chipper, Log Truck</li><li>• Servinski: Excavator, Mini Excavator, Bobcats</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li></ul>
Field Person: Gary Waugh	Date: 6/29/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6071	Yards In: 0	Yards Out: 105 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Laser level used to verify cut depth and establish final grade	Date Verified/Initial: 6/29/13 GW/SS
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was on site 6/26/13 and removed the select trees. All wood chips and logs were hauled to the Allied staging area.

Servinski/Fisher: Began the soils dig out. The rear property line of 1319 Lincoln butts up to 1322 Jefferson. The excavated soils from the rear yard of 1319 Lincoln were hauled by Bobcats to the front yard of 1322 Jefferson and loaded into the trucks. Catch basin filters were in place and good condition. At the end of the work day silt fence was installed at the curb line along Jefferson St.

\* Yards Out:

105yds – Soils relocated to (Dow – Salzburg Landfill MAS Stockpile Area)

*Gary Waugh*

*6/29/13*

Field Representative Signature

Date

Weather: AM light rain, 62 – 73, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Juan & Mary Coronado	Property Address: 1319 Lincoln
Contract Personnel: <ul style="list-style-type: none"><li>Sugar Construction</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>Sugar: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 7/1/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6071	Yards In: 75 * See Below	Yards Out: 0
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Laser level used to verify cut depth and establish final grade	Date Verified/Initial: 6/29/13 GW/SS
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: No excavating was performed today. Some topsoil was imported and placed in the rear yard area. Catch basin filters and silt fence in good condition.

\* Yard In:  
75yds - Topsoil

Sugar Construction: Formed and poured the concrete for the replacement patio in the rear yard area.

*Gary Waugh*

*7/1/13*

Field Representative Signature

Date

Weather: Clear, 60 - 75, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Juan & Mary Coronado	Property Address: 1319 Lincoln
Contract Personnel: <ul style="list-style-type: none"> <li>Servinski</li> <li>Fisher</li> <li>Kokaly</li> <li>Reliable Plumbing</li> </ul>	Contractor Equipment: <ul style="list-style-type: none"> <li>Servinski: Bobcats, Mini Excavator</li> <li>Fisher: Hand Tools</li> <li>Kokaly: Hand Tools</li> <li>Reliable: Hand Tools</li> </ul>
Field Person: Gary Waugh	Date: 7/2/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6071	Yards In: 108 * See Below	Yards Out: 105 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Laser level used to verify cut depth and establish final grade	Date Verified/Initial: 7/2/13 GW/SS
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Completed the soils dig out in the front yard and out lawn areas. Trucks were direct loaded from Lincoln St. The remaining topsoil was imported and placed. Landscape beds were defined and edging installed. Shrubs and trees were planted. After Kokaly completed the installation of the irrigation system, the topsoil was final graded and drainage stone and hardwood mulch was placed in the appropriate landscape bed. Catch basin filters and silt fence in good condition.

**\* Yard Out:**

105yds – Soil relocated to (Dow – LEL 3 NAPL Recovery Project)

**\* Yard In:**

- 90yds – Topsoil
- 3yds – Sand (Along garage under drainage stone)
- 10yds – Drainage Stone
- 5yds – Hardwood Mulch

Reliable Plumbing: Installed the backflow preventer and necessary plumbing to accommodate the irrigations system.

Kokaly: Installed the irrigation system piping, low voltage wiring and control valves and sprinkler heads.

**CONSTRUCTION QUALITY ASSURANCE FORM  
MIDLAND RESOLUTION CENTER**

**DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:**

*Gary Waugh*

7/2/13

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Field Representative Signature

Date

Weather: Cloudy, 55 – 72, light winds



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Juan & Mary Coronado	Property Address: 1319 Lincoln
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Sugar Construction</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcats</li><li>• Fisher: Hand Tools</li><li>• Sugar: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 7/3/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6071	Yards In: 0	Yards Out: 0
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Laser level used to verify cut depth and establish final grade	Date Verified/Initial: 7/2/13 GW/SS
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the concrete for the new front service sidewalk and a section of the city sidewalk that needed to be replaced. The crew also install the new wood fence section in front of the side deck.

Servinski/Fisher: Hand raked the topsoil. Sod was placed and trimmed. A final site cleanup was performed. All catch basin filters and silt fence was removed. 1319 Lincoln is complete pending a walk through with the property owner.

*Gary Waugh*

*7/3/13*

Field Representative Signature

Date

Weather: Partly cloudy, 60 – 80, light winds

**Green Remediation Assurance Form**  
**Midland Resolution**

**Property Information**

Property Owner: Juan & Mary Coronado

Contract Personnel: Pat's Trucking, Servinski

Property Address: 1319 Lincoln St.

Field Person: Gary Waugh

Date: 7/3/2013

**Fuel Usage**

Low Sulfur Diesel Used:.....Yes ☒ No ☐ N/A ☐

**Equipment**

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes ☒ No ☐ N/A ☐

Equipment Shut Off When Not In Use (No Idling):.....Yes ☒ No ☐ N/A ☐

Equipment Inspected For Leaks, Seepages, ETC:.....Yes ☒ No ☐ N/A ☐

**Administrative**

Vegetation and Plants Supplied Locally:.....Yes ☒ No ☐ N/A ☐

Local Subcontractors Used:.....Yes ☒ No ☐ N/A ☐

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes ☒ No ☐ N/A ☐

**Waste Management**

Waste Generated Recycled ( 0 )%:.....Yes ☐ No ☒ N/A ☐

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawasse River Flood Plain as Barrier

Or Dust Control:.....Yes ☒ No ☐ N/A ☐

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes ☒ No ☐ N/A ☐

**Project Controls**

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes ☐ No ☐ N/A ☒

Geosynthetics Used on Property Access Area:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Trucks During Soil Removal:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Borrow Trucks:.....Yes ☒ No ☐ N/A ☐

Active Dust Management System Used:.....Yes ☐ No ☐ N/A ☒

Phosphate Free Fertilizers Used:.....Yes ☐ No ☐ N/A ☒

Removed Soil Taken to Dow Plant For Reuse in Facility:....Yes ☐ No ☒ N/A ☐

Use of Sod as the Preferred Revegetation Tool:.....Yes ☒ No ☐ N/A ☐

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes ☒ No ☐ N/A ☐

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes ☒ No ☐ N/A ☐

Reuse Existing Concrete Foundations When Possible...Yes ☐ No ☒ N/A ☐

Use Water Efficient Landscaping.....Yes ☐ No ☐ N/A ☒

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes ☒ No ☐ N/A ☐



MIDLAND RESOLUTION

LEGEND

- Remediated Area
- Property

Total Yard Area:  
7434 sq. ft.

Area Excavated:  
7434 sq. ft.

Total Area Not Excavated:  
0 sq. ft.



0 15 30 60 Feet

**Parcel 14-15-60-144**  
Midland Resolution Soil Replacement

## Dow Midland Soils Remedy Worksheet

Site Address: 514 Maple St.

Parcel: 14-15-60-144

Date: 4-Nov-13

### Initial Soil Sample

447

Soil Result (ppt)

### Soil Remedy Result:

REMEDY

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Replicate Soil Samples

--

Initial soil result (ppt)

--

Replicate result (ppt)

--

Replicate result (ppt)

### Soil Replicate

### Remedy Result:

--

--

Average (ppt)

--

Standard Deviation (ppt)

2.92

t (0.95, 2)

--

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### If Soil Remedy Required, Evaluate Indoor Dust:

447

Initial soil result or 95% UCL if replicates were required (ppt)

7434

Area of yard (ft<sup>2</sup>) (area as sampled)

0

Area not remedied (ft<sup>2</sup>)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

8.20E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Maier Investment Co LLC	Property Address: 514 Maple St.
Contract Personnel: <ul style="list-style-type: none"> <li>Kappen Tree Service – 10/4/13</li> <li>Servinski</li> <li>Fisher</li> <li>Pats</li> <li>Reliable Plumbing</li> </ul>	Contractor Equipment: <ul style="list-style-type: none"> <li>Kappen: Bucket Truck, Chipper</li> <li>Servinski: Excavator, Bobcats</li> <li>Fisher: Hand Tools</li> <li>Pats: Trucks</li> <li>Reliable: Hand Tools</li> </ul>
Field Person: Gary Waugh	Date: 10/8/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 3989	Yards In: 90 * See Below	Yards Out: 272 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches		
Verification Method:	Laser level was used to check depth of excavation cut	Date Verified/Initial: 10/8/13 SS/GW
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was on site 10/4/13 and cut down the trees selected for removal. Several trees in the out lawn area were trimmed. Tree logs and wood chips were hauled to the Allied staging area.

Reliable Plumbing: Was on site today and installed the backflow preventer and the necessary plumbing needed to accommodate the irrigation system.

Servinski/Fisher: The crew began and completed the soils dig out using bobcats to excavate the material and move it to the front out lawn area where it was loaded with an excavator. Once the dig out was complete some topsoil was imported placed and rough graded. There were several catch basin filters installed and silt fence was in place along Maple St. Both the filters and the silt fence were in good condition. The street sweeper was used as needed to clean the area along Maple Street during the soils load out.

**\* Yards Out:**

15yds – Debris hauled to (Midland City Landfill) for disposal

272yds – Soil relocated to (Dow MIOPS Poseyville Landfill MAS Stockpile Area)

**\* Yards In:**

90yds - Topsoil

**CONSTRUCTION QUALITY ASSURANCE FORM  
MIDLAND RESOLUTION CENTER**

**DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:**

*Gary Waugh*

*10/8/13*

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Field Representative Signature

Date

Weather: Clear, 45 – 70, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Maier Investment Co LLC	Property Address: 514 Maple St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Excavator, Bobcats</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li></ul>
Field Person: Gary Waugh	Date: 10/9/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 3989	Yards In: 120 * See Below	Yards Out: 30 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches		
Verification Method:	Laser level was used to check depth of excavation cut	Date Verified/Initial: 10/8/13 SS/GW
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: The crew finished importing, placing and grading the topsoil. The crew also removed the existing concrete driveway. (Note: The property owner formed and poured new driveway today).

\* Yards Out:

30yds – Concrete hauled to (Midland City Landfill) for disposal

\* Yards In:

120yds - Topsoil

*Gary Waugh*

10/9/13

Field Representative Signature

Date

Weather: Clear, 48 – 70, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Maier Investment Co LLC	Property Address: 514 Maple St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Kokaly</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcat</li><li>• Fisher: Hand Tools</li><li>• Kokaly: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 10/10/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 3989	Yards In: * See Below	Yards Out: 0
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches		
Verification Method:	Laser level was used to check depth of excavation cut	Date Verified/Initial: 10/8/13 SS/GW
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Kokaly: On site today and installed the irrigation system piping, low voltage wiring, valves and sprinkler heads.

Servinski/Fisher: The crew installed edging for the landscape beds, shrubs and flowers were planted and hardwood mulch and drainage stone were placed. The topsoil was final prepped and hand raked and the sod was placed and trimmed. The irrigation system was turned on programmed and adjustments were made to the heads. A final site cleanup was performed and the catch basin filters and silt fence were removed. 514 Maple is complete pending a walk through with the property owner.

\* Yards In:

8yds – Hardwood Mulch  
4yds – Drainage Stone

*Gary Waugh*

10/10/13

Field Representative Signature

Date

Weather: Clear, 48 – 71, light winds



**Green Remediation Assurance Form**  
**Midland Resolution**

**Property Information**

Property Owner: Maier Invest. Co

Contract Personnel: Pat's Trucking, Servinski

Property Address: 514 Maple

Field Person: Gary Waugh

Date: 10/9/2013

**Fuel Usage**

Low Sulfur Diesel Used:.....Yes [X] No[ ] N/A [ ]

**Equipment**

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes [X] No[ ] N/A [ ]

Equipment Shut Off When Not In Use (No Idling):.....Yes [X] No[ ] N/A [ ]

Equipment Inspected For Leaks, Seepages, ETC:.....Yes [X] No[ ] N/A [ ]

**Administrative**

Vegetation and Plants Supplied Locally:.....Yes [X] No[ ] N/A [ ]

Local Subcontractors Used:.....Yes [X] No[ ] N/A [ ]

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes [X] No[ ] N/A [ ]

**Waste Management**

Waste Generated Recycled ( 0 )%:.....Yes [ ] No[X] N/A [ ]

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawasse River Flood Plain as Barrier

Or Dust Control:.....Yes [X] No[ ] N/A [ ]

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes [X] No[ ] N/A [ ]

**Project Controls**

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes [ ] No[ ] N/A [X]

Geosynthetics Used on Property Access Area:.....Yes [X] No[ ] N/A [ ]

Tarps Used on Trucks During Soil Removal:.....Yes [X] No[ ] N/A [ ]

Tarps Used on Borrow Trucks:.....Yes [X] No[ ] N/A [ ]

Active Dust Management System Used:.....Yes [ ] No[ ] N/A [X]

Phosphate Free Fertilizers Used:.....Yes [ ] No[ ] N/A [X]

Removed Soil Taken to Dow Plant For Reuse in Facility:....Yes [ ] No[X] N/A [ ]

Use of Sod as the Preferred Revegetation Tool:.....Yes [X] No[ ] N/A [ ]

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes [X] No[ ] N/A [ ]

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes [X] No[ ] N/A [ ]

Reuse Existing Concrete Foundations When Possible...Yes [ ] No[X] N/A [ ]

Use Water Efficient Landscaping.....Yes [ ] No[ ] N/A [X]

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes [X] No[ ] N/A [ ]



MIDLAND RESOLUTION

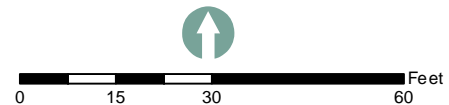
LEGEND

- Remediated Area
- Property

Total Yard Area:  
5208 sq. ft.

Area Excavated:  
5104 sq. ft.

Total Area Not Excavated:  
104 sq. ft.



Parcel 14-16-40-578  
Midland Resolution Soil Replacement

## Dow Midland Soils Remedy Worksheet

Site Address: 805 Mill St.  
Parcel: 14-16-40-578  
Date: 4-Nov-13

### Initial Soil Sample

288

Soil Result (ppt)

### Soil Remedy Result:

REMEDY

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Replicate Soil Samples

--

Initial soil result (ppt)

--

Replicate result (ppt)

--

Replicate result (ppt)

### Soil Replicate

### Remedy Result:

--

--

Average (ppt)

--

Standard Deviation (ppt)

2.92

t (0.95, 2)

--

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### If Soil Remedy Required, Evaluate Indoor Dust:

288

Initial soil result or 95% UCL if replicates were required (ppt)

5208

Area of yard (ft<sup>2</sup>) (area as sampled)

104

Area not remedied (ft<sup>2</sup>)

20

Surface Weighted Average (SWA) (ppt)

2%

% Undisturbed Remaining Soil (URS)

5.51E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Steve Hammond	Property Address: 805 Mill St.
Contract Personnel: <ul style="list-style-type: none"><li>• Kappen Tree Service 5/1/13</li><li>• Servinski</li><li>• Fisher</li><li>• Pat's Gradall</li><li>• M &amp; M</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Kappen: Bucket Truck, Log Truck, Chipper, Stinger</li><li>• Servinski: Bobcat, Mini Excavator</li><li>• Fisher: Hand Tools</li><li>• Pat's: Trucks</li><li>• M &amp; M : Stump Grinder</li></ul>
Field Person: Gary Waugh	Date: 5/2/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4806	Yards In: 90 * See Below	Yards Out: 255 *See Below
Description of Cut Depth:  All soils removed from the remediation area square footage were excavated to an average depth of 12 inches.		
Verification Method:	Random depth checks were measured with a laser level.	Date Verified/Initial: GW 5/2/13
Describe soils remaining: All soils removed except where existing structures remained in place, driveway, sidewalks and deck.		

### DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Onsite 5/1/13 removed and trimmed select trees. The branches were chipped and along with the logs were hauled to the Allied staging area.

M & M: Ground the stumps left over from the tree removal.

Servinski/Fisher: Began and completed the soils dig out. Gary Waugh verified depth cuts with a laser level and elevation rod. The contractor began bringing topsoil onsite, placing and rough grading it. The adjacent property (811 Mill St.) gravel driveway was re-graded to help convey drainage between the two driveways. A batter board was set along the driveway and new stone mix was placed and graded.

**\* Yards Out:**

75yds – Soil hauled and relocated to the Salzburg Landfill MAS Stockpile Area

165yds – Soil hauled and relocated to the Dow WIF 11<sup>th</sup> & 12<sup>th</sup>

15yds – Concrete and debris hauled to Midland City Landfill for disposal

**\* Yards In:**

90yds – Topsoil

9yds – Stone Mix (811 Mill St. – Driveway re grade)

**CONSTRUCTION QUALITY ASSURANCE FORM  
MIDLAND RESOLUTION CENTER**

**DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:**

Silt fence was installed at the curb line along Mill St and the sidewalk barricaded closed at the end of the day.

*Gary Waugh*

*5/2/13*

---

Field Representative Signature

Date

Weather: Sunny, 60 – 79, light winds.



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Steve Hammond	Property Address: 805 Mill St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pat's Gradall</li><li>• Sugar Construction</li><li>• Reliable Plumbing 5/1/13</li><li>• Kokaly</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcat, Mini Excavator</li><li>• Fisher: Hand Tools</li><li>• Pat's: Trucks</li><li>• Sugar: Hand Tools</li><li>• Reliable: Hand Tools</li><li>• Kokaly: Ditchwitch, Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 5/3/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4806	Yards In: 120 * See Below	Yards Out: 0
Description of Cut Depth:  All soils removed from the remediation area square footage were excavated to an average depth of 12 inches.		
Verification Method:	Random depth checks were measured with a laser level.	Date Verified/Initial: GW 5/2/13
Describe soils remaining: All soils removed except where existing structures remained in place, driveway, sidewalks and deck.		

### DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: A 40ft section of city sidewalk needs to be replaced. The crew formed and poured 32ft of the sidewalk. An 8ft section was not poured so equipment could have access to the rear yard. The remaining section is scheduled to be poured on 5/6/13.

Reliable Plumbing: Was onsite 5/1/13 and installed the backflow preventer and the necessary plumbing needed to accommodate the irrigation system.

Kokaly: Installed the irrigation system piping, sprinkler heads, low voltage valves and wiring.

Servinski/Fisher: Finished grading the topsoil, installed edging around the landscape beds, planted shrubs and trees and placed drainage stone and hardwood mulch.

\* Yards In:

120yds – Topsoil

Silt fence was installed at the curb line along Mill St and the sidewalk barricaded closed at the end of the day.

**CONSTRUCTION QUALITY ASSURANCE FORM  
MIDLAND RESOLUTION CENTER**

**DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:**

*Gary Waugh*

*5/3/13*

Field Representative Signature

Date

Weather: Sunny, 62 – 72, light winds.

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Steve Hammond	Property Address: 805 Mill St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcat</li><li>• Fisher: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 5/4/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4806	Yards In: 120 * See Below	Yards Out: 0
Description of Cut Depth:  See 5/3/13		
Verification Method:	See 5/3/13	Date Verified/Initial: GW 5/2/13
Describe soils remaining: See 5/3/13		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Topsoil was final prepped and sod placed and trimmed. The contractor performed site cleanup tasks and removed the silt fence. An 8ft length of city sidewalk remains to be formed and pour. This section was left open to gain access to the back yard area. Concrete is scheduled for 5/6/13.

*Gary Waugh*

Field Representative Signature

*5/4/13*

Date

Weather: Partly cloudy, 58 – 72, light winds.

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Steve Hammond	Property Address: 805 Mill St.
Contract Personnel: <ul style="list-style-type: none"><li>• Sugar Construction</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Sugar: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 5/6/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4806	Yards In: 0	Yards Out: 0
Description of Cut Depth:  See 5/2/13		
Verification Method:	See 5/2/13	Date Verified/Initial: GW 5/2/13
Describe soils remaining: See 5/2/13		

### DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Sugar formed and poured the remaining 8ft length of city sidewalk. After the forms were pulled the sod was trimmed to match the new concrete. 805 Mill is complete pending a final walk through with the property owner.

Gary Waugh

Field Representative Signature

5/6/13

Date

Weather: Sunny, 48 – 72, light winds.

**Green Remediation Assurance Form**  
**Midland Resolution**

**Property Information**

Property Owner: Steve Hammond Contract Personnel: Pat's Trucking, Servinski

Property Address: 805 Mill St.

Field Person: Gary Waugh

Date: 5/2/2013

**Fuel Usage**

Low Sulfur Diesel Used:.....Yes ☒ No ☐ N/A ☐

**Equipment**

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes ☒ No ☐ N/A ☐

Equipment Shut Off When Not In Use (No Idling):.....Yes ☒ No ☐ N/A ☐

Equipment Inspected For Leaks, Seepages, ETC:.....Yes ☒ No ☐ N/A ☐

**Administrative**

Vegetation and Plants Supplied Locally:.....Yes ☒ No ☐ N/A ☐

Local Subcontractors Used:.....Yes ☒ No ☐ N/A ☐

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes ☒ No ☐ N/A ☐

**Waste Management**

Waste Generated Recycled ( 0 )%:.....Yes ☐ No ☒ N/A ☐

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawassee River Flood Plain as Barrier

Or Dust Control:.....Yes ☒ No ☐ N/A ☐

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes ☒ No ☐ N/A ☐

**Project Controls**

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes ☐ No ☐ N/A ☒

Geosynthetics Used on Property Access Area:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Trucks During Soil Removal:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Borrow Trucks:.....Yes ☒ No ☐ N/A ☐

Active Dust Management System Used:.....Yes ☐ No ☐ N/A ☒

Phosphate Free Fertilizers Used:.....Yes ☐ No ☐ N/A ☒

Removed Soil Taken to Dow Plant For Reuse in Facility:....Yes ☐ No ☒ N/A ☐

Use of Sod as the Preferred Revegetation Tool:.....Yes ☒ No ☐ N/A ☐

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes ☒ No ☐ N/A ☐

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes ☒ No ☐ N/A ☐

Reuse Existing Concrete Foundations When Possible...Yes ☐ No ☒ N/A ☐

Use Water Efficient Landscaping.....Yes ☐ No ☐ N/A ☒

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes ☒ No ☐ N/A ☐





Area Not Remediated:  
All Excavated



Yard Area:  
Lawn  
Outlawn

Not In Yard:  
Shed  
House  
Driveway  
Sidewalks



MIDLAND RESOLUTION

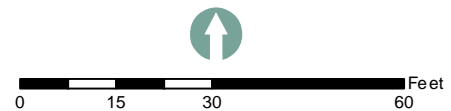
LEGEND

-  Remediated Area
-  Property

Total Yard Area:  
6231 sq. ft.

Area Excavated:  
6231 sq. ft.

Total Area Not Excavated:  
0 sq. ft.



Parcel 14-16-40-584  
Midland Resolution Soil Replacement



## Dow Midland Soils Remedy Worksheet

Site Address: 817 Mill St.  
Parcel: 14-16-40-584  
Date: 4-Nov-13

### Initial Soil Sample

313

Soil Result (ppt)

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Soil Remedy Result:

REMEDY

### Replicate Soil Samples

--

Initial soil result (ppt)

--

Replicate result (ppt)

--

Replicate result (ppt)

--

Average (ppt)

--

Standard Deviation (ppt)

2.92

t (0.95, 2)

--

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### Soil Replicate

### Remedy Result:

--

### If Soil Remedy Required, Evaluate Indoor Dust:

313

Initial soil result or 95% UCL if replicates were required (ppt)

6231

Area of yard (ft<sup>2</sup>) (area as sampled)

0

Area not remedied (ft<sup>2</sup>)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

5.83E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Micah Chism	Property Address: 817 Mill St.
Contract Personnel: <ul style="list-style-type: none"><li>• Kappen Tree Service</li><li>• Servinski</li><li>• Fisher</li><li>• Pats Gradall</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Kappen: Bucket Truck, Log Truck, Chipper</li><li>• Servinski: Bobcat, Mini Excavator</li><li>• Fisher: Hand Tools</li><li>• Pat's: Trucks</li></ul>
Field Person: Gary Waugh	Date: 5/3/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6030	Yards In: 0	Yards Out: 225 *See Below
Description of Cut Depth:  All soils within the remediation area square footage were excavated to an average depth of 12 inches, except in the out lawn area where a tree exists. The soils within a 10ft radius around the tree were excavated to an average depth of 4 inches to eliminate damage to the tree roots.		
Verification Method:	Laser level used to check depth measurements	Date Verified/Initial: GW 5/3/13
Describe soils remaining: All soils removed within the remediation area square footage		

### DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Removed and trimmed the selected trees. All the branches were chipped. The logs and wood chips were hauled to the Allied staging area.

Servinski/Fisher: Began the soil dig out. As the excavation continued Gary Waugh spot checked the cut depth using a laser level. Only soil excavation was performed today.

\*Yards Out:

30yds – Soil (Relocated to Salzburg Landfill MAS Soil Stockpile Area)

195yds – Soil (Relocated to Dow WIF 11<sup>th</sup> & 12<sup>th</sup>)

*Gary Waugh*

*5/3/13*

Field Representative Signature

Date

Weather: Partly cloudy, 62 – 72, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Micah Chism	Property Address: 817 Mill St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats Gradall</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcat, Mini Excavator</li><li>• Fisher: Hand Tools</li><li>• Pat's: Trucks</li></ul>
Field Person: Gary Waugh	Date: 5/4/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6030	Yards In: *See Below	Yards Out: 75 *See Below
Description of Cut Depth:  All soils within the remediation area square footage were excavated to an average depth of 12 inches, except in the out lawn area where a tree exists. The soils within a 10ft radius around the tree were excavated to an average depth of 4 inches to eliminate damage to the tree roots.		
Verification Method:	Laser level used to check depth measurements	Date Verified/Initial: GW 5/3/13
Describe soils remaining: All soils removed within the remediation area square footage		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Completed the soils dig out and began importing topsoil onto the site. Topsoil was placed and rough graded. The area between the driveway and the south property line soil was removed and then backfilled with stone mix. The excavated soils were hauled and relocated to the Salzburg Landfill MAS Soil Stockpile Area.

\*Yards Out:

75yds – Soil (Relocated to Salzburg Landfill MAS Soil Stockpile Area)

\*Yards In:

120yds – Topsoil

14yds – Stone Mix

At the end of the work day, silt fence was installed at the curb line and the street sweeper cleaned Mill St.

**CONSTRUCTION QUALITY ASSURANCE FORM  
MIDLAND RESOLUTION CENTER**

**DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:**

*Gary Waugh*

*5/4/13*

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Field Representative Signature

Date

Weather: Partly cloudy, 58 – 72, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Micah Chism	Property Address: 817 Mill St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats Gradall</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcat, Pre Seeder</li><li>• Fisher: Hand Tools</li><li>• Pat's: Trucks</li></ul>
Field Person: Gary Waugh	Date: 5/6/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6030	Yards In: *See Below	Yards Out: 0
Description of Cut Depth:  See 5/4/13		
Verification Method:	See 5/4/13	Date Verified/Initial: GW 5/3/13
Describe soils remaining: 5/4/13		

### DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Formed the new sidewalk (27ft) from the back entrance door to the driveway. The sub grade was prepared and concrete poured.

Servinski/Fisher: Finished the topsoil import and grading, final prepped, installed landscape edging, planted shrubs and trees and placed hardwood mulch and drainage stone.

\*Yards In:

105yds – Topsoil

7yds – Sand

9yrd – Drainage Stone

7yds – Hardwood Mulch

At the end of the work day, silt fence was installed at the curb line and the street sweeper cleaned Mill St.

*Gary Waugh*

5/6/13

Field Representative Signature

Date

Weather: Sunny, 48 – 72, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Micah Chism	Property Address: 817 Mill St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Kokaly</li><li>• Reliable Plumbing</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcat, Pre Seeder</li><li>• Fisher: Hand Tools</li><li>• Kokaly: Ditchwitch, Hand Tools</li><li>• Reliable: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 5/7/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6030	Yards In: *See Below	Yards Out: 0
Description of Cut Depth:  See 5/4/13		
Verification Method:	See 5/4/13	Date Verified/Initial: GW 5/3/13
Describe soils remaining: 5/4/13		

### DESCRIPTION OF FIELD ACTIVITIES:

Kokaly: Onsite today and installed the irrigation system piping, sprinkler heads, low voltage controller and valves.

Reliable Plumbing: Onsite today and installed the backflow preventer and necessary plumbing needed to accommodate the irrigation system.

Servinski/Fisher: Finished hand prepping the topsoil and placed and trimmed the sod. The city water is currently turned off (property owner lives out of state). It is scheduled to be turned on 5/8/13. Since water was not available to operate the sprinkler system, the contractor used a hydroseeder to water the sod. A small area of out lawn is incomplete, additional sod is scheduled for 5/8/13 to complete the sod placement.

At the end of the work day, silt fence was installed at the curb line and the street sweeper cleaned Mill St.

*Gary Waugh*

*5/7/13*

Field Representative Signature

Date

Weather: Sunny, 48 – 76, light winds



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Micah Chism	Property Address: 817 Mill St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcat, Pre Seeder</li><li>• Fisher: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 5/8/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6030	Yards In: 0	Yards Out: 0
Description of Cut Depth:  See 5/4/13		
Verification Method:	See 5/4/13	Date Verified/Initial: GW 5/3/13
Describe soils remaining: 5/4/13		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Completed the sod placement in the out lawn. The water department was onsite today and turned on the water. A water leak was discovered around the valve box. It is assumed that since the property owner lives out of state and the home has been vacant for some time, the fitting on the valve probably froze and broke during cold weather. It is scheduled for repair on 5/9/13. The lawn was watered using a hydro seeder.

*Gary Waugh*

5/8/13

Field Representative Signature

Date

Weather: Sunny, 50 – 78, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Micah Chism	Property Address: 817 Mill St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Mini Excavator</li><li>• Fisher: Hand Tools</li><li>• Pats: Truck</li></ul>
Field Person: Gary Waugh	Date: 5/9/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6030	Yards In: 10	Yards Out: 12
Description of Cut Depth:  See 5/4/13		
Verification Method:	See 5/4/13	Date Verified/Initial: GW 5/3/13
Describe soils remaining: 5/4/13		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Repaired the water leak at the valve box. The excavated soils were relocated to the Dow WIF 11<sup>th</sup> & 12<sup>th</sup> project. The excavation was backfilled with sand and 12 inches of topsoil. The irrigation system was turned on and sprinkler heads adjusted. 817 Mill is complete pending final walk through with the property owner.

\* Yards Out:

12yrds – Soil relocated to (Dow WIF 11<sup>th</sup> & 12<sup>th</sup> Project)

\* Yards In:

8yrds – Sand

2yrds - Topsoil

*Gary Waugh*

*5/9/13*

Field Representative Signature

Date

Weather: Partly cloudy, 55 – 74, light winds

**Green Remediation Assurance Form**  
**Midland Resolution**

**Property Information**

Property Owner: Micah Chism Contract Personnel: Pat's Trucking, Servinski  
Property Address: 817 Mill St.  
Field Person: Gary Waugh Date: 5/4/2013

**Fuel Usage**

Low Sulfur Diesel Used:.....Yes ☒ No ☐ N/A ☐

**Equipment**

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes ☒ No ☐ N/A ☐

Equipment Shut Off When Not In Use (No Idling):.....Yes ☒ No ☐ N/A ☐

Equipment Inspected For Leaks, Seepages, ETC:.....Yes ☒ No ☐ N/A ☐

**Administrative**

Vegetation and Plants Supplied Locally:.....Yes ☒ No ☐ N/A ☐

Local Subcontractors Used:.....Yes ☒ No ☐ N/A ☐

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes ☒ No ☐ N/A ☐

**Waste Management**

Waste Generated Recycled ( 0 )%:.....Yes ☐ No ☒ N/A ☐

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawassee River Flood Plain as Barrier

Or Dust Control:.....Yes ☒ No ☐ N/A ☐

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes ☒ No ☐ N/A ☐

**Project Controls**

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes ☐ No ☐ N/A ☒

Geosynthetics Used on Property Access Area:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Trucks During Soil Removal:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Borrow Trucks:.....Yes ☒ No ☐ N/A ☐

Active Dust Management System Used:.....Yes ☐ No ☐ N/A ☒

Phosphate Free Fertilizers Used:.....Yes ☐ No ☐ N/A ☒

Removed Soil Taken to Dow Plant For Reuse in Facility:....Yes ☐ No ☒ N/A ☐

Use of Sod as the Preferred Revegetation Tool:.....Yes ☒ No ☐ N/A ☐

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes ☒ No ☐ N/A ☐

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes ☒ No ☐ N/A ☐

Reuse Existing Concrete Foundations When Possible...Yes ☐ No ☒ N/A ☐

Use Water Efficient Landscaping.....Yes ☐ No ☐ N/A ☒

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes ☒ No ☐ N/A ☐



MIDLAND RESOLUTION

LEGEND

- Remediated Area
- Property

Total Yard Area:  
4629 sq. ft.

Area Excavated:  
4629 sq. ft.

Total Area Not Excavated:  
0 sq. ft.



0 15 30 60 Feet

Parcel 14-16-40-050  
Midland Resolution Soil Replacements



## Dow Midland Soils Remedy Worksheet

Site Address: 1107 North St.

Parcel: 14-16-40-050

Date: 6-Nov-13

### Initial Soil Sample

440

Soil Result (ppt)

### Soil Remedy Result:

REMEDY

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Replicate Soil Samples

--

Initial soil result (ppt)

--

Replicate result (ppt)

--

Replicate result (ppt)

### Soil Replicate

### Remedy Result:

--

--

Average (ppt)

--

Standard Deviation (ppt)

2.92

t (0.95, 2)

--

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### If Soil Remedy Required, Evaluate Indoor Dust:

440

Initial soil result or 95% UCL if replicates were required (ppt)

4629

Area of yard (ft<sup>2</sup>) (area as sampled)

0

Area not remedied (ft<sup>2</sup>)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

8.07E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Robert & Dawn Hartley	Property Address: 1107 North St.
Contract Personnel: <ul style="list-style-type: none"><li>• Kappen Tree Service</li><li>• M &amp; M</li><li>• Servinski</li><li>• Fisher</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Kappen: Boom Crane, Bucket Truck, Log Truck, Stinger</li><li>• M &amp;M: Stump Grinder</li><li>• Servinski: Mini Excavator, Bobcat</li><li>• Fisher: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 6/3/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4321	Yards In: 0	Yards Out: 90 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Measured depth of cut along excavation line	Date Verified/Initial: GW 6/3/13
Describe soils remaining: No remaining soils.		

### DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Removed the select trees. The wood chips and logs were hauled to the Allied staging area.

M&M: Ground the tree stumps remaining from the tree removal.

Servinski/Fisher: Began the soils dig out. The property is congested with existing landscaping. Soils in several areas will have to be removed by hand digging. Silt fence installed at the curb line along North St.

\* Yard Out:

90yds – Soil relocated to (Salzburg Landfill MAS Stockpile Area)

*Gary Waugh*

6/3/13

Field Representative Signature

Date

Weather: Clear, 40 – 65, light winds.



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Robert & Dawn Hartley	Property Address: 1107 North St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Sugar Construction</li><li>• Reliable Plumbing</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Mini Excavator, Bobcat</li><li>• Fisher: Hand Tools</li><li>• Sugar: Hand Tools</li><li>• Reliable: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 6/4/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4321	Yards In: 129 * See Below	Yards Out: 90 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Measured depth of cut along excavation line	Date Verified/Initial: GW 6/3/13
Describe soils remaining: No remaining soils.		

### DESCRIPTION OF FIELD ACTIVITIES:

Reliable Plumbing: Installed the backflow preventer and necessary plumbing to accommodate the irrigation system.

Sugar Construction: Poured a 12ft x 12ft concrete patio in the back yard area.

Servinski/Fisher: Complete the soils dig out and importing topsoil. Silt fence installed at the curb line along North St.

\* Yard Out:

90yds – Soil relocated to (Salzburg Landfill MAS Stockpile Area)

\* Yards In:

105yds – Topsoil

4yds - Sand

*Gary Waugh*

*6/4/13*

Field Representative Signature

Date

Weather: Clear, 50 – 70, light winds.

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Robert & Dawn Hartley	Property Address: 1107 North St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Mini Excavator, Bobcat</li><li>• Fisher: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 6/5/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4321	Yards In: 24 * See Below	Yards Out: 0
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Measured depth of cut along excavation line	Date Verified/Initial: GW 6/3/13
Describe soils remaining: No remaining soils.		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Final graded the topsoil, defined landscaping beds, installed edging and placed stone boarders. Drainage stone and hardwood mulch was placed in the appropriate beds and shrubs and trees were planted. Silt fence installed at the curb line along North St.

\* Yard In:

- 10yds – Drainage Stone
- 3yds – Red Limestone
- 11yds – Hardwood Mulch

*Gary Waugh*

6/5/13

Field Representative Signature

Date

Weather: Partly cloudy, 55 – 70, light winds.

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Robert & Dawn Hartley	Property Address: 1107 North St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Kokaly</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Mini Excavator, Bobcat</li><li>• Fisher: Hand Tools</li><li>• Kokaly: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 6/6/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4321	Yards In: 24 * See Below	Yards Out: 0
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Measured depth of cut along excavation line	Date Verified/Initial: GW 6/3/13
Describe soils remaining: No remaining soils.		

### DESCRIPTION OF FIELD ACTIVITIES:

Kokaly: Installed the irrigation system, piping, sprinkler heads, low voltage wiring and valves.

Servinski/Fisher: Final prepped the topsoil and planted the remaining flowers. Sod was placed and trimmed. 1107 North St. is complete pending a final walk through with the home owner.

*Gary Waugh*

6/6/13

Field Representative Signature

Date

Weather: Cloudy, 55 – 69, light winds.

**Green Remediation Assurance Form**  
**Midland Resolution**

**Property Information**

Property Owner: Robert & Dawn Hartley

Contract Personnel: Pat's Trucking, Servinski

Property Address: 1107 North St.

Field Person: Gary Waugh

Date: 6/6/2013

**Fuel Usage**

Low Sulfur Diesel Used:.....Yes ☒ No ☐ N/A ☐

**Equipment**

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes ☒ No ☐ N/A ☐

Equipment Shut Off When Not In Use (No Idling):.....Yes ☒ No ☐ N/A ☐

Equipment Inspected For Leaks, Seepages, ETC:.....Yes ☒ No ☐ N/A ☐

**Administrative**

Vegetation and Plants Supplied Locally:.....Yes ☒ No ☐ N/A ☐

Local Subcontractors Used:.....Yes ☒ No ☐ N/A ☐

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes ☒ No ☐ N/A ☐

**Waste Management**

Waste Generated Recycled ( 0 )%:.....Yes ☐ No ☒ N/A ☐

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawassee River Flood Plain as Barrier

Or Dust Control:.....Yes ☒ No ☐ N/A ☐

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes ☒ No ☐ N/A ☐

**Project Controls**

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes ☐ No ☐ N/A ☒

Geosynthetics Used on Property Access Area:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Trucks During Soil Removal:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Borrow Trucks:.....Yes ☒ No ☐ N/A ☐

Active Dust Management System Used:.....Yes ☐ No ☐ N/A ☒

Phosphate Free Fertilizers Used:.....Yes ☐ No ☐ N/A ☒

Removed Soil Taken to Dow Plant For Reuse in Facility:....Yes ☐ No ☒ N/A ☐

Use of Sod as the Preferred Revegetation Tool:.....Yes ☒ No ☐ N/A ☐

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes ☒ No ☐ N/A ☐

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes ☒ No ☐ N/A ☐

Reuse Existing Concrete Foundations When Possible...Yes ☐ No ☒ N/A ☐

Use Water Efficient Landscaping.....Yes ☐ No ☐ N/A ☒

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes ☒ No ☐ N/A ☐



MIDLAND RESOLUTION

LEGEND

- Remediated Area
- Property

Total Yard Area:  
5592 sq. ft.

Area Excavated:  
5592 sq. ft.

Total Area Not Excavated:  
0 sq. ft.



0 15 30 60 Feet

Parcel 14-16-40-056  
Midland Resolution Soil Replacements



## Dow Midland Soils Remedy Worksheet

Site Address: 1117 North St.

Parcel: 14-16-40-056

Date: 6-Nov-13

### Initial Soil Sample

286

Soil Result (ppt)

### Soil Remedy Result:

REMEDY

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Replicate Soil Samples

--

Initial soil result (ppt)

--

Replicate result (ppt)

--

Replicate result (ppt)

### Soil Replicate

### Remedy Result:

--

--

Average (ppt)

--

Standard Deviation (ppt)

2.92

t (0.95, 2)

--

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### If Soil Remedy Required, Evaluate Indoor Dust:

286

Initial soil result or 95% UCL if replicates were required (ppt)

5592

Area of yard (ft<sup>2</sup>) (area as sampled)

0

Area not remedied (ft<sup>2</sup>)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

5.36E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Lydia Moore	Property Address: 1117 North St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Excavator, Mini Excavator, Bobcat</li><li>• Fisher: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 6/6/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4321	Yards In: 135 * See Below	Yards Out: 210 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches		
Verification Method:	Measured depth of cut along excavation line	Date Verified/Initial: GW/PH 6/6/13
Describe soils remaining: All soils removed.		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: This property is located at the corner of North and Jefferson Streets. It was determined by the project team that Jefferson St would be the best location to load and dump trucks during the soils removal and importing topsoil. Due to the high volume of traffic along Jefferson St. a lane closure was necessary.

The crew began the soils dig out and importing topsoil. At the end of the day silt fence was installed at the curb line along North and Jefferson Streets.

\* Yards Out:

210yds – Soil relocated to (Salzburg Landfill MAS Stockpile Area)

\* Yards In:

135yds - Topsoil

*Gary Waugh*

6/6/13

Field Representative Signature

Date

Weather: Cloudy, 55 – 69, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Lydia Moore	Property Address: 1117 North St.
Contract Personnel: <ul style="list-style-type: none"> <li>Servinski</li> <li>Fisher</li> <li>Reliable Plumbing</li> <li>Kokaly</li> <li>Sugar Construction</li> </ul>	Contractor Equipment: <ul style="list-style-type: none"> <li>Servinski: Mini Excavator, Bobcat</li> <li>Fisher: Hand Tools</li> <li>Reliable: Hand Tools</li> <li>Kokaly: Hand Tools</li> <li>Sugar: Hand Tools</li> </ul>
Field Person: Gary Waugh	Date: 6/7/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4321	Yards In: 21 * See Below	Yards Out: 27 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches		
Verification Method:	Measured depth of cut along excavation line	Date Verified/Initial: GW/PH 6/7/13
Describe soils remaining: All soils removed.		

### DESCRIPTION OF FIELD ACTIVITIES:

Reliable Plumbing: Installed the backflow preventer and necessary plumbing to accommodate the irrigation system.

Kokaly: Installed the irrigation piping, sprinkler heads, low voltage wiring and valves.

Sugar Construction: Poured the concrete for a 10ft x 20ft patio and a small section of city sidewalk 4ft x 6ft.

Servinski/Fisher: Set up the lane closure along Jefferson St. Completed the soils dig out and importing topsoil. The topsoil was final prepped and landscape beds were defined. Edging was installed, shrubs planted and drainage stone placed. Sod was placed and trimmed. 1117 North is complete pending a final walk through with the property owner.

\* Yards Out:

27yds – Soil relocated to (Salzburg Landfill MAS Stockpile Area)

\* Yards In:

21yds – Stone Mix

10yds – Drainage Stone

**CONSTRUCTION QUALITY ASSURANCE FORM  
MIDLAND RESOLUTION CENTER**

**DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:**

*Gary Waugh*

6/7/13

---

Field Representative Signature

Date

Weather: Partly cloudy, 55 – 65, light winds

**Green Remediation Assurance Form**  
**Midland Resolution**

**Property Information**

Property Owner: Lydia Moore Contract Personnel: Pat's Trucking, Servinski

Property Address: 1117 North St.

Field Person: Gary Waugh

Date: 6/6/2013

**Fuel Usage**

Low Sulfur Diesel Used:.....Yes [X] No[ ] N/A[ ]

**Equipment**

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes [X] No[ ] N/A [ ]

Equipment Shut Off When Not In Use (No Idling):.....Yes [X] No[ ] N/A [ ]

Equipment Inspected For Leaks, Seepages, ETC:.....Yes [X] No[ ] N/A [ ]

**Administrative**

Vegetation and Plants Supplied Locally:.....Yes [X] No[ ] N/A [ ]

Local Subcontractors Used:.....Yes [X] No[ ] N/A [ ]

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes [X] No[ ] N/A [ ]

**Waste Management**

Waste Generated Recycled ( 0 )%:.....Yes [ ] No[X] N/A [ ]

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawasse River Flood Plain as Barrier

Or Dust Control:.....Yes [X] No[ ] N/A [ ]

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes [X] No[ ] N/A [ ]

**Project Controls**

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes [ ] No[ ] N/A [X]

Geosynthetics Used on Property Access Area:.....Yes [X] No[ ] N/A [ ]

Tarps Used on Trucks During Soil Removal:.....Yes [X] No[ ] N/A [ ]

Tarps Used on Borrow Trucks:.....Yes [X] No[ ] N/A [ ]

Active Dust Management System Used:.....Yes [ ] No[ ] N/A [X]

Phosphate Free Fertilizers Used:.....Yes [ ] No[ ] N/A [X]

Removed Soil Taken to Dow Plant For Reuse in Facility:....Yes [ ] No[X] N/A [ ]

Use of Sod as the Preferred Revegetation Tool:.....Yes [X] No[ ] N/A [ ]

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes [X] No[ ] N/A [ ]

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes [X] No[ ] N/A [ ]

Reuse Existing Concrete Foundations When Possible...Yes [ ] No[X] N/A [ ]

Use Water Efficient Landscaping.....Yes [ ] No[ ] N/A [X]

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes [X] No[ ] N/A [ ]



Area Not Remediated:  
All Excavated

Yard Area:  
Lawn  
Outlawn  
North Driveway  
Portions of Sidewalk

Not In Yard:  
Garage  
Driveway on South Side  
Most of Sidewalk  
House

Excavated and Replaced Sidewalk  
(Damaged during construction)



MIDLAND RESOLUTION

LEGEND

- Remediated Area
- Property

Total Yard Area:  
7504 sq. ft.

Area Excavated:  
7504 sq. ft.

Total Area Not Excavated:  
0 sq. ft.



0 15 30 60 Feet

Parcel 14-16-40-194  
Midland Resolution Soil Replacement



## Dow Midland Soils Remedy Worksheet

Site Address: 916 North St.

Parcel: 14-16-40-194

Date: 4-Nov-13

### Initial Soil Sample

288

Soil Result (ppt)

### Soil Remedy Result:

REMEDY

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Replicate Soil Samples

--

Initial soil result (ppt)

--

Replicate result (ppt)

--

Replicate result (ppt)

### Soil Replicate

### Remedy Result:

--

--

Average (ppt)

--

Standard Deviation (ppt)

2.92

t (0.95, 2)

--

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### If Soil Remedy Required, Evaluate Indoor Dust:

288

Initial soil result or 95% UCL if replicates were required (ppt)

7504

Area of yard (ft<sup>2</sup>) (area as sampled)

0

Area not remedied (ft<sup>2</sup>)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

5.39E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Dennis & Kathleen John	Property Address: 916 North
Contract Personnel: <ul style="list-style-type: none"><li>• Kappen Tree Service</li><li>• Servinski</li><li>• Pat's</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Kappen: Boom Crane, Bucket Truck, Log Truck, Chipper, Stinger</li><li>• Servinski: Mini Excavator, Bobcat</li><li>• Pat's: Dump Trucks</li></ul>
Field Person: Gary Waugh	Date: 4/22/2013

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 7541	Yards In: 105	Yards Out: 270 * See below
Description of Cut Depth: <ul style="list-style-type: none"><li>• Tree, rear of garage 10ft radius – cut 3in – 12in taper</li><li>• Tree out lawn along North St. 10ft radius – cut 3in – 12in taper</li><li>• All other soils average cut depth – 12in</li></ul>		
Verification Method:	A laser level was used to measure cut depth and determine final grade	Date Verified/Initial: SS/GW – 4/22/13
Describe soils remaining: No remaining soils except around (2) trees (See above)		

### DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Began the tree removal on 4/17/13 and completed it today. The wood chips and tree logs were hauled to Allied and staged on site.

Servinski/Fisher: Started the soils dig out with the majority of soils removed. Some topsoil was imported onto the site and rough graded.

\* Yards Out: (45) yards of concrete/debris was hauled to the Midland City Landfill for disposal and (225) yards of soil was hauled/relocated to the Salzburg Landfill MAS Stockpile Area. Silt fence was installed at the curb lines along North St and Haley St. and the sidewalks were barricaded closed for pedestrian safety.

*Gary Waugh*

*4/22/13*

Field Representative Signature

Date

Weather: Sunny, 45 – 64, calm winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Dennis & Kathleen John	Property Address: 916 North
Contract Personnel: <ul style="list-style-type: none"> <li>Servinski</li> <li>Fisher</li> <li>Pat's</li> <li>Kokaly</li> <li>Reliable Plumbing</li> <li>Sugar Construction</li> </ul>	Contractor Equipment: <ul style="list-style-type: none"> <li>Servinski: Mini Excavator, Bobcats, Loader</li> <li>Pat's: Dump Trucks</li> <li>Kokaly: Ditchwitch, Hand Tools</li> <li>Reliable: Hand Tools</li> <li>Sugar: Hand Tools</li> </ul>
Field Person: Gary Waugh	Date: 4/23/2013

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 7541	Yards In: *See Below	Yards Out: 165 * See below
Description of Cut Depth: <ul style="list-style-type: none"> <li>Tree, rear of garage 10ft radius – cut 3in – 12in taper</li> <li>Tree out lawn along North St. 10ft radius – cut 3in – 12in taper</li> <li>All other soils average cut depth – 12in</li> </ul>		
Verification Method:	A laser level was used to measure cut depth and determine final grade	Date Verified/Initial: SS/GW – 4/22/13
Describe soils remaining: No remaining soils except around (2) trees (See above)		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Completed the dig out, imported topsoil onto the site. The out lawn along Haley St. was final prepped and sod was placed. Also the out lawn along North St. from the driveway east to Haley St. was final prepped and sod was placed.

**\* Yards Out:**

30yds of concrete/debris hauled to the Midland City Landfill for disposal.

135yds soils hauled/relocated to the Salzburg Landfill MAS Stockpile Area.

**\* Yards In:**

195yds – Topsoil

25yds – Sand

Silt fence was installed at the curb line along North St. The sidewalks were barricaded closed for pedestrian safety.

Reliable Plumbing: Installed the backflow preventer and the necessary plumbing for the irrigation system.

Kokaly: Began installing the irrigation system supply lines, sprinkler heads and low voltage valves.

**CONSTRUCTION QUALITY ASSURANCE FORM  
MIDLAND RESOLUTION CENTER**

**DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:**

Sugar Construction: Formed the drive approach, driveway and sidewalk along the west side of the house.

*Gary Waugh*

*4/23/13*

---

Field Representative Signature

Date

Weather: Cloudy, 40 - 60, pm rain showers, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Dennis & Kathleen John	Property Address: 916 North
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Sugar Construction</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Mini Excavator, Bobcats, Loader</li><li>• Sugar: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 4/24/2013

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 7541	Yards In: * See below	Yards Out: 0
Description of Cut Depth: See 4/23/13.		
Verification Method:	See 4/23/13	Date Verified/Initial:
Describe soils remaining: See 4/23/13		

### DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the driveway, drive approach and the sidewalk along the west side of the house.

Servinski/Fisher: Little work was performed today. The topsoil in the back yard was saturated due to the rain overnight. Several inches of the wet topsoil was removed and hauled back to the stockpile area at Fishers. Fresh topsoil will be imported tomorrow to final grade and prepare for sod.

\* Yards In:

10yds – Sand

Silt fence was installed at the curb line along North St. The sidewalks were barricaded closed for pedestrian safety.

*Gary Waugh*

*4/24/13*

Field Representative Signature

Date

Weather: Cloudy, overnight rain, 35 - 40, light winds

### PROPERTY INFORMATION

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

Property Owner: Dennis & Kathleen John	Property Address: 916 North
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Sugar Construction</li><li>• Kokaly</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcat, Loader</li><li>• Sugar: Hand Tools</li><li>• Kokaly: Ditchwitch, Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 4/25/2013

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 7541	Yards In: * See below	Yards Out: 0
Description of Cut Depth: See 4/23/13		
Verification Method:	See 4/23/13	Date Verified/Initial:
Describe soils remaining: See 4/23/13		

### DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the city sidewalk section along North St. All concrete work is complete. The crew also set posts for the proposed chain link fence.

Kokaly: Completed the irrigation installation, piping, sprinkler heads, low voltage valves and wiring.

Servinski/Fisher: Prepared the remaining areas for sod. Placed drainage stone along the fence alignment and completed the sod. Site clean up.

\* Yards In:

3yds – Sand

6yrd – Drainage Stone

With the sod completed, all silt fence was pulled and the catch basin filters were removed. 916 North site is complete pending a final walk through with the property owners.

*Gary Waugh*

*4/25/13*

Field Representative Signature

Date

Weather: Cloudy, 36 - 48, windy

**Green Remediation Assurance Form**  
**Midland Resolution**

**Property Information**

Property Owner: Dennis & Kathleen Jahn      Contract Personnel: Pat's Trucking, Servinski

Property Address: 916 North St.

Field Person: Gary Waugh

Date: 4/24/2013

**Fuel Usage**

Low Sulfur Diesel Used:.....Yes ☒ No ☐ N/A ☐

**Equipment**

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes ☒ No ☐ N/A ☐

Equipment Shut Off When Not In Use (No Idling):.....Yes ☒ No ☐ N/A ☐

Equipment Inspected For Leaks, Seepages, ETC:.....Yes ☒ No ☐ N/A ☐

**Administrative**

Vegetation and Plants Supplied Locally:.....Yes ☒ No ☐ N/A ☐

Local Subcontractors Used:.....Yes ☒ No ☐ N/A ☐

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes ☒ No ☐ N/A ☐

**Waste Management**

Waste Generated Recycled ( 0 )%:.....Yes ☐ No ☒ N/A ☐

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawassee River Flood Plain as Barrier

Or Dust Control:.....Yes ☒ No ☐ N/A ☐

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:..... Yes ☒ No ☐ N/A ☐

**Project Controls**

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes ☐ No ☐ N/A ☒

Geosynthetics Used on Property Access Area:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Trucks During Soil Removal:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Borrow Trucks:.....Yes ☒ No ☐ N/A ☐

Active Dust Management System Used:.....Yes ☐ No ☐ N/A ☒

Phosphate Free Fertilizers Used:.....Yes ☒ No ☐ N/A ☒

Removed Soil Taken to Dow Plant For Reuse in Facility:....Yes ☐ No ☒ N/A ☐

Use of Sod as the Preferred Revegetation Tool:.....Yes ☒ No ☐ N/A ☐

Upgrading Irrigation Controls to Include a Rain Sensor:.... Yes ☒ No ☐ N/A ☐

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:..... Yes ☒ No ☐ N/A ☐

Reuse Existing Concrete Foundations When Possible.....Yes ☐ No ☐ N/A ☒

Use Water Efficient Landscaping..... Yes ☐ No ☐ N/A ☒

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,



and Trash.....Yes ☒ No ☐ N/A ☐





MIDLAND RESOLUTION

**LEGEND**

-  Remediated Area
-  Property

Total Yard Area:  
22382 sq. ft.

Area Excavated:  
22382 sq. ft.

Total Area Not Excavated:  
0 sq. ft.



0 15 30 60 Feet

**Parcel 14-23-30-394**  
Midland Resolution Soil Replacement

## Dow Midland Soils Remedy Worksheet

Site Address: 2602 Parsons Ct.

Parcel: 14-23-30-394

Date: 4-Nov-13

### Initial Soil Sample

287

Soil Result (ppt)

### Soil Remedy Result:

REMEDY

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Replicate Soil Samples

--

Initial soil result (ppt)

--

Replicate result (ppt)

--

Replicate result (ppt)

### Soil Replicate

### Remedy Result:

--

--

Average (ppt)

--

Standard Deviation (ppt)

2.92

t (0.95, 2)

--

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### If Soil Remedy Required, Evaluate Indoor Dust:

287

Initial soil result or 95% UCL if replicates were required (ppt)

22382

Area of yard (ft<sup>2</sup>) (area as sampled)

0

Area not remedied (ft<sup>2</sup>)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

5.37E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Gordon & Beulah McCann	Property Address: 2602 Parsons Ct.
Contract Personnel: <ul style="list-style-type: none"><li>• Kappen Tree Service - 9/30/13</li><li>• Servinski</li><li>• Fisher</li><li>• Pats</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Kappen: Boom Crane, Bucket Truck, Chipper</li><li>• Servinski: Excavator, Dozer, Bobcat</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li></ul>
Field Person: Gary Waugh	Date: 10/1/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 22,500	Yards In: 0	Yards Out: 120 * See Below
Description of Cut Depth:  All soils within the remediation area were excavated to an average depth of 12 inches		
Verification Method:	Measured depth of cut at the excavation line.	Date Verified/Initial: 10/1/13 GW/GC
Describe soils remaining: An area approximately 710 sq ft will be left in place. Owners request.		

### DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was on site 9/30/13 and 10/1/13 (today) and removed the selected trees. The wood chips and tree logs were hauled to the Allied staging area.

Servinski/Fisher: The crew began the soils dig out today starting in the rear of the property. An excavator was used to make an initial cut along the property lines then a dozer was used to push the soils into a pile. Trucks were loaded with the excavator from the soil pile. Access was gained through the neighboring properties driveway. The driveway is existing asphalt and will be replaced with concrete after 2602 Parsons is complete. Catch basin filters were in place along Parsons and silt fence was installed at the rear of the property, both were checked and in good condition. Water was applied to the soils during load out to control dust.

\* Yards Out:

60yds – Stumps/debris were hauled to (Midland City Landfill) for disposal

120yds – Soil relocated to (Dow MIOPS Poseyville Landfill MAS Stockpile Area)

*Gary Waugh*

*10/1/13*

Field Representative Signature

Date

Weather: Clear, 53 – 72, calm winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Gordon & Beulah McCann	Property Address: 2602 Parsons Ct.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li><li>• Sugar Construction</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Excavator, Dozer, Bobcat</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li><li>• Sugar: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 10/2/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 22,500	Yards In: 225 * See Below	Yards Out: 975 * See Below
Description of Cut Depth:  All soils within the remediation area were excavated to an average depth of 12 inches		
Verification Method:	Measured depth of cut at the excavation line.	Date Verified/Initial: 10/2/13 GW/GC
Describe soils remaining: An area approximately 710 sq ft will be left in place. Owners request.		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: The crew continued the soils dig out completing the majority of the removal. Some topsoil was imported placed and rough graded. Catch basin filters and the silt fence were in place and in good condition.

\* Yards Out:

15yrds – Stumps/debris were hauled to (Midland City Landfill) for disposal

975yrds – Soil relocated to (Dow MIOPS Poseyville Landfill MAS Stockpile Area)

\* Yards In:

225yrds - Topsoil

*Gary Waugh*

*10/2/13*

Field Representative Signature

Date

Weather: Clear, 55 – 78, calm winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Gordon & Beulah McCann	Property Address: 2602 Parsons Ct.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Excavator, Dozer, Bobcat</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li></ul>
Field Person: Gary Waugh	Date: 10/3/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 22,500	Yards In: 855 * See Below	Yards Out: 60 * See Below
Description of Cut Depth:  All soils within the remediation area were excavated to an average depth of 12 inches		
Verification Method:	Measured depth of cut at the excavation line.	Date Verified/Initial: 10/2/13 GW/GC
Describe soils remaining: An area approximately 710 sq ft will be left in place. Owners request.		

### DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Formed and poured the concrete for a replacement section of sidewalk 9ft x 11ft.

Servinski/Fisher: The crew completed the soils dig out and importing the remaining topsoil. Trees and shrubs were planted. Edging was installed around the garage and shed and drainage stone was then placed. The topsoil was final prepped and hand rake where necessary. Hydro seed was applied. 2602 Parsons is complete pending a walk through with the property owner. Note: The neighboring driveway is scheduled to be removed on Monday 10/7/13 and the concrete poured on 10/9/13.

\* Yards Out:

15yds – Stumps/debris were hauled to (Midland City Landfill) for disposal

60yds – Soil relocated to (Dow MIOPS Poseyville Landfill MAS Stockpile Area)

\* Yards In:

855yds – Topsoil

7yds – Stone Mix

*Gary Waugh*

*10/3/13*

Field Representative Signature

Date

Weather: Clear, 52 – 78, calm winds



**Green Remediation Assurance Form**  
**Midland Resolution**

**Property Information**

Property Owner: Gordon McCann

Contract Personnel: Pat's Trucking, Servinski

Property Address: 2602 Parsons Ct.

Field Person: Gary Waugh

Date: 10/2/2013

**Fuel Usage**

Low Sulfur Diesel Used:.....Yes [X] No[ ] N/A[ ]

**Equipment**

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes [X] No[ ] N/A [ ]

Equipment Shut Off When Not In Use (No Idling):.....Yes [X] No[ ] N/A [ ]

Equipment Inspected For Leaks, Seepages, ETC:.....Yes [X] No[ ] N/A [ ]

**Administrative**

Vegetation and Plants Supplied Locally:.....Yes [X] No[ ] N/A [ ]

Local Subcontractors Used:.....Yes [X] No[ ] N/A [ ]

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes [X] No[ ] N/A [ ]

**Waste Management**

Waste Generated Recycled ( 0 )%:.....Yes [ ] No[X] N/A [ ]

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawassee River Flood Plain as Barrier

Or Dust Control:.....Yes [X] No[ ] N/A [ ]

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes [X] No[ ] N/A [ ]

**Project Controls**

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes [ ] No[ ] N/A [X]

Geosynthetics Used on Property Access Area:.....Yes [X] No[ ] N/A [ ]

Tarps Used on Trucks During Soil Removal:.....Yes [X] No[ ] N/A [ ]

Tarps Used on Borrow Trucks:.....Yes [X] No[ ] N/A [ ]

Active Dust Management System Used:.....Yes [ ] No[ ] N/A [X]

Phosphate Free Fertilizers Used:.....Yes [ ] No[ ] N/A [X]

Removed Soil Taken to Dow Plant For Reuse in Facility:....Yes [ ] No[X] N/A [ ]

Use of Sod as the Preferred Revegetation Tool:.....Yes [X] No[ ] N/A [ ]

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes [X] No[ ] N/A [ ]

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes [X] No[ ] N/A [ ]

Reuse Existing Concrete Foundations When Possible...Yes [ ] No[X] N/A [ ]

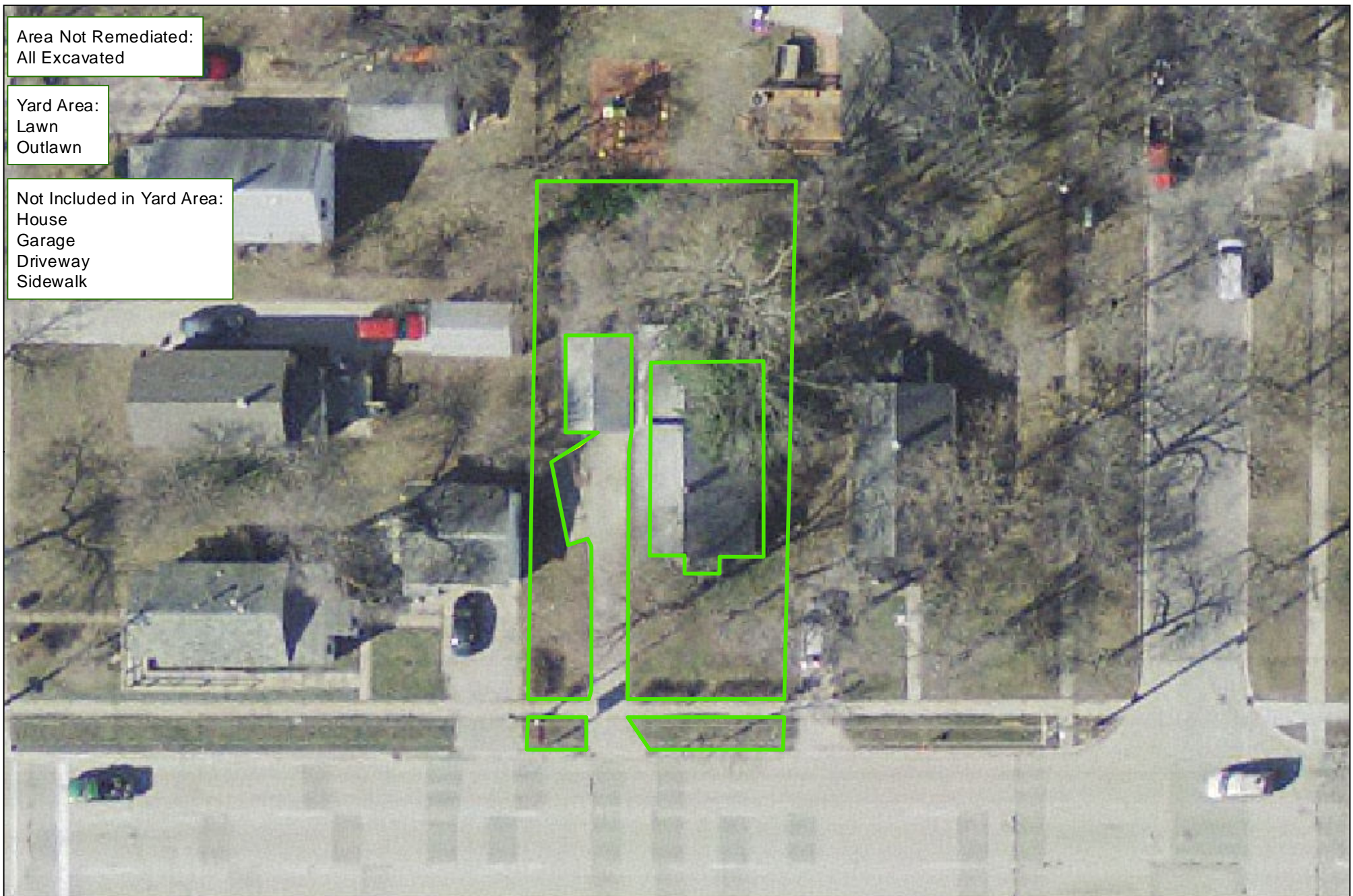
Use Water Efficient Landscaping.....Yes [ ] No[ ] N/A [X]

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes [X] No[ ] N/A [ ]





MIDLAND RESOLUTION

LEGEND

- Remediated Area
- Property

Total Yard Area:  
5237 sq. ft.

Area Excavated:  
0 sq. ft.

Total Area Not Excavated:  
0 sq. ft.



0 15 30 60 Feet

Parcel 14-15-50-748  
Midland Resolution Soil Replacements

## Dow Midland Soils Remedy Worksheet

Site Address: 111 E. Patrick Rd.

Parcel: 14-15-50-748

Date: 4-Nov-13

### Initial Soil Sample

377

Soil Result (ppt)

### Soil Remedy Result:

REMEDY

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Replicate Soil Samples

--

Initial soil result (ppt)

--

Replicate result (ppt)

--

Replicate result (ppt)

### Soil Replicate

### Remedy Result:

--

--

Average (ppt)

--

Standard Deviation (ppt)

2.92

t (0.95, 2)

--

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### If Soil Remedy Required, Evaluate Indoor Dust:

377

Initial soil result or 95% UCL if replicates were required (ppt)

5237

Area of yard (ft<sup>2</sup>) (area as sampled)

0

Area not remedied (ft<sup>2</sup>)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

6.96E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Wayne Beehr	Property Address: 111 E. Patrick
Contract Personnel: <ul style="list-style-type: none"><li>• Kappen Tree Service – 6/4/13</li><li>• Servinski</li><li>• Fisher</li><li>• M &amp; M</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Kappen: Bucket Truck, Chipper, Log Truck</li><li>• Servinski: Excavator, Mini Excavator, Dozer, Bobcats</li><li>• Fisher: Hand Tools</li><li>• M &amp; M: Stump Grinder</li></ul>
Field Person: Gary Waugh	Date: 6/18/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4935	Yards In: 30 * See Below	Yards Out: 210 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Laser level used to check cut depth	Date Verified/Initial: 6/18/13
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was on site 6/4/13 and removed the select trees and shrubs. All wood chips and logs were hauled the Allied staging area.

M & M: Onsite today and ground the stumps remaining from the tree removal.

Servinski/Fisher: Began and completed the soils dig out. Some topsoil was imported, placed and graded. At the end of the work day silt fence was installed at the curb line along Patrick Rd. The site was cleaned up and barricades placed as needed.

\* Yards Out:  
210yds – Soil relocated to (MIOPS Dow WIF project)

\* Yards In:  
30yds - Topsoil

*Gary Waugh*

*6/18/13*

Field Representative Signature

Date

Weather: Clear, 58 -71, breezy

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Wayne Beehr	Property Address: 111 E. Patrick
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Reliable Plumbing</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Excavator, Mini Excavator, Dozer, Bobcats</li><li>• Fisher: Hand Tools</li><li>• Reliable Plumbing: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 6/19/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4935	Yards In: 135 *See Below	Yards 0
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Laser level used to check cut depth	Date Verified/Initial: 6/18/13
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Reliable Plumbing: Installed the backflow preventer and necessary plumbing to accommodate the irrigations system.

Servinski/Fisher: Completed importing and grading topsoil. At the end of the work day silt fence was installed at the curb line along Patrick Rd. The site was cleaned up and barricades placed as needed.

\* Yards In:  
135yds - Topsoil

*Gary Waugh*

*6/19/13*

Field Representative Signature

Date

Weather: Clear, 45 -75, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Wayne Beehr	Property Address: 111 E. Patrick
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Kokaly</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Excavator, Mini Excavator, Dozer, Bobcats</li><li>• Fisher: Hand Tools</li><li>• Kokaly: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 6/20/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4935	Yards In: 12 *See Below	Yards 0
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Laser level used to check cut depth	Date Verified/Initial: 6/18/13
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Kokaly: Installed the irrigation system piping, wiring, low voltage valves and sprinkler heads.

Servinski/Fisher: Landscape beds were defined, edging installed and drainage stone was placed. At the end of the work day silt fence was installed at the curb line along Patrick Rd. The site was cleaned up and barricades placed as needed.

\* Yards In:  
12yds – Drainage Stone

*Gary Waugh*

*6/20/13*

Field Representative Signature

Date

Weather: Clear, 48 -80, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Wayne Beehr	Property Address: 111 E. Patrick
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Pre Seeder, bobcats</li><li>• Fisher: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 6/21/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4935	Yards In: ?? *See Below	Yards 0
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Laser level used to check cut depth	Date Verified/Initial: 6/18/13
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Landscape beds were completed. Topsoil was finish prepped and hydro seed applied. A final site cleanup was performed. 111 E. Patrick is complete pending a final walk through with the property owner.

*Gary Waugh*

*6/21/13*

Field Representative Signature

Date

Weather: Clear, 62 -85, light winds



**Green Remediation Assurance Form**  
**Midland Resolution**

**Property Information**

Property Owner: Wayne Beehr Contract Personnel: Pat's Trucking, Servinski  
Property Address: 111 E. Patrick St.  
Field Person: Gary Waugh Date: 6/20/2013

**Fuel Usage**

Low Sulfur Diesel Used:.....Yes ☒ No ☐ N/A ☐

**Equipment**

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes ☒ No ☐ N/A ☐

Equipment Shut Off When Not In Use (No Idling):.....Yes ☒ No ☐ N/A ☐

Equipment Inspected For Leaks, Seepages, ETC:.....Yes ☒ No ☐ N/A ☐

**Administrative**

Vegetation and Plants Supplied Locally:.....Yes ☒ No ☐ N/A ☐

Local Subcontractors Used:.....Yes ☒ No ☐ N/A ☐

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes ☒ No ☐ N/A ☐

**Waste Management**

Waste Generated Recycled ( 0 )%:.....Yes ☐ No ☒ N/A ☐

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawassee River Flood Plain as Barrier

Or Dust Control:.....Yes ☒ No ☐ N/A ☐

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes ☒ No ☐ N/A ☐

**Project Controls**

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes ☐ No ☐ N/A ☒

Geosynthetics Used on Property Access Area:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Trucks During Soil Removal:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Borrow Trucks:.....Yes ☒ No ☐ N/A ☐

Active Dust Management System Used:.....Yes ☐ No ☐ N/A ☒

Phosphate Free Fertilizers Used:.....Yes ☐ No ☐ N/A ☒

Removed Soil Taken to Dow Plant For Reuse in Facility:....Yes ☐ No ☒ N/A ☐

Use of Sod as the Preferred Revegetation Tool:.....Yes ☒ No ☐ N/A ☐

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes ☒ No ☐ N/A ☐

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes ☒ No ☐ N/A ☐

Reuse Existing Concrete Foundations When Possible...Yes ☐ No ☒ N/A ☐

Use Water Efficient Landscaping.....Yes ☐ No ☐ N/A ☒

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes ☒ No ☐ N/A ☐



MIDLAND RESOLUTION

LEGEND

- Remediated Area
- Property

Total Yard Area:  
8668 sq. ft.

Area Excavated:  
8668 sq. ft.

Area Not Excavated:  
0 sq. ft.



0 15 30 60 Feet

Parcel 14-15-50-750  
Midland Resolution Soil Replacement

## Dow Midland Soils Remedy Worksheet

Site Address: 115 E. Patrick Rd.

Parcel: 14-15-50-750

Date: 4-Nov-13

### Initial Soil Sample

485

Soil Result (ppt)

### Soil Remedy Result:

REMEDY

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Replicate Soil Samples

--

Initial soil result (ppt)

--

Replicate result (ppt)

--

Replicate result (ppt)

### Soil Replicate

### Remedy Result:

--

--

Average (ppt)

--

Standard Deviation (ppt)

2.92

t (0.95, 2)

--

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### If Soil Remedy Required, Evaluate Indoor Dust:

485

Initial soil result or 95% UCL if replicates were required (ppt)

8668

Area of yard (ft<sup>2</sup>) (area as sampled)

0

Area not remedied (ft<sup>2</sup>)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

8.87E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Bruce & Joanne Coates	Property Address: 115 E. Patrick
Contract Personnel: <ul style="list-style-type: none"><li>• Kappen Tree Service – 5/28/13</li><li>• Servinski</li><li>• Fisher</li><li>• Sugar Construction</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Kappen: Bucket Truck, Chipper, Log Truck</li><li>• Servinski: Excavator, Bobcats</li><li>• Fisher: Hand Tools</li><li>• Sugar: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 6/18/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6915	Yards In: 30 * See Below	Yards Out: 255 * See Below
Description of Cut Depth:  All soils removed today within the remediation area square footage were removed to an average depth of 12 inches		
Verification Method:	Laser level was used to check cut depth	Date Verified/Initial: 6/18/13 GW
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was onsite 5/28/13 and removed the select trees and shrubs. All wood chips and logs were hauled to the Allied staging area.

Sugar Construction: Formed and poured the concrete for the new driveway 11ft x 75ft.

Servinski/Fisher: Began the soils dig out. At the end of the day silt fence was installed at the curb lines along Patrick and Lincoln streets. The site was cleaned up and barricades were placed as needed.

\* Yards Out:

15yds – Concrete and debris hauled (Midland City Landfill) for disposal

240yds – Soil relocated to (MIOPS Dow WIF project)

\* Yards In:

30yds – Sand (Driveway sub grade)

*Gary Waugh*

*6/18/13*

Field Representative Signature

Date

Weather: Clear 58 – 71, breezy

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Bruce & Joanne Coates	Property Address: 115 E. Patrick
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Sugar Construction</li><li>• Reliable Plumbing</li><li>• M &amp; M</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Excavator, Bobcats</li><li>• Fisher: Hand Tools</li><li>• Sugar: Hand Tools</li><li>• Reliable: Hand Tools</li><li>• M &amp; M: Stump Grinder</li></ul>
Field Person: Gary Waugh	Date: 6/19/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6915	Yards In: 270 * See Below	Yards Out: 120 * See Below
Description of Cut Depth:  All soils removed within the remediation area square footage were removed to an average depth of 12 inches		
Verification Method:	Laser level was used to check cut depth	Date Verified/Initial: 6/19/13 GW
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Reliable Plumbing: Installed the backflow preventer and necessary plumbing to accommodate the irrigations system.

M & M: Onsite and ground the stumps remaining from the tree removal.

Sugar Construction: Formed the new driveway turn around.

Servinski/Fisher: Completed the soils dig out importing topsoil. At the end of the day silt fence was installed at the curb lines along Patrick and Lincoln streets. The site was cleaned up and barricades were placed as needed.

\* Yards Out:

120yds – Soil relocated to (MIOPS Dow WIF project)

\* Yards In:

30yds – Sand (Driveway turnaround sub grade)

240yds - Topsoil

*Gary Waugh*

*6/19/13*

Field Representative Signature

Date

Weather: Clear 46 – 75, light winds



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Bruce & Joanne Coates	Property Address: 115 E. Patrick
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Sugar Construction</li><li>• Kokaly</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Excavator, Bobcats</li><li>• Fisher: Hand Tools</li><li>• Sugar: Hand Tools</li><li>• Kokaly: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 6/20/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6915	Yards In: 0	Yards Out: 0
Description of Cut Depth:  All soils removed within the remediation area square footage were removed to an average depth of 12 inches		
Verification Method:	Laser level was used to check cut depth	Date Verified/Initial: 6/19/13 GW
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Kokaly: Installed the irrigation system piping, low voltage valves and wiring and sprinkler heads.

Sugar Construction: Poured concrete for the new driveway turn around 24ft x 4ft.

Servinski/Fisher: Installed edging around the landscape beds and planted the shrubs and trees. At the end of the day silt fence was installed at the curb lines along Patrick and Lincoln streets. The site was cleaned up and barricades were placed as needed.

*Gary Waugh*

*6/20/13*

Field Representative Signature

Date

Weather: Clear 48 – 80, light winds



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Bruce & Joanne Coates	Property Address: 115 E. Patrick
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Pre Seeder, Bobcats</li><li>• Fisher: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 6/21/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6915	Yards In: 22 * See Below	Yards Out: 0
Description of Cut Depth:  All soils removed within the remediation area square footage were removed to an average depth of 12 inches		
Verification Method:	Laser level was used to check cut depth	Date Verified/Initial: 6/19/13 GW
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Completed landscape beds. Final prepped the topsoil and hydro seed. A final site cleanup was performed. 115 E. Patrick is complete pending a walk through with the home owner.

\* Yards In:  
19yds – Drainage Stone  
2yds – Mulch  
1yrd – Stone Mix

*Gary Waugh*

6/21/13

Field Representative Signature

Date

Weather: Clear 62 – 85, light winds

**Green Remediation Assurance Form**  
**Midland Resolution**

**Property Information**

Property Owner: Bruce & Joanne Coates

Contract Personnel: Pat's Trucking, Servinski

Property Address: 115 E. Patrick St.

Field Person: Gary Waugh

Date: 6/20/2013

**Fuel Usage**

Low Sulfur Diesel Used:.....Yes ☒ No ☐ N/A ☐

**Equipment**

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes ☒ No ☐ N/A ☐

Equipment Shut Off When Not In Use (No Idling):.....Yes ☒ No ☐ N/A ☐

Equipment Inspected For Leaks, Seepages, ETC:.....Yes ☒ No ☐ N/A ☐

**Administrative**

Vegetation and Plants Supplied Locally:.....Yes ☒ No ☐ N/A ☐

Local Subcontractors Used:.....Yes ☒ No ☐ N/A ☐

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes ☒ No ☐ N/A ☐

**Waste Management**

Waste Generated Recycled ( 0 )%:.....Yes ☐ No ☒ N/A ☐

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawassee River Flood Plain as Barrier

Or Dust Control:.....Yes ☒ No ☐ N/A ☐

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes ☒ No ☐ N/A ☐

**Project Controls**

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes ☐ No ☐ N/A ☒

Geosynthetics Used on Property Access Area:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Trucks During Soil Removal:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Borrow Trucks:.....Yes ☒ No ☐ N/A ☐

Active Dust Management System Used:.....Yes ☐ No ☐ N/A ☒

Phosphate Free Fertilizers Used:.....Yes ☐ No ☐ N/A ☒

Removed Soil Taken to Dow Plant For Reuse in Facility:....Yes ☐ No ☒ N/A ☐

Use of Sod as the Preferred Revegetation Tool:.....Yes ☒ No ☐ N/A ☐

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes ☒ No ☐ N/A ☐

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes ☒ No ☐ N/A ☐

Reuse Existing Concrete Foundations When Possible...Yes ☐ No ☒ N/A ☐

Use Water Efficient Landscaping.....Yes ☐ No ☐ N/A ☒

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes ☒ No ☐ N/A ☐



MIDLAND RESOLUTION

LEGEND

- Remediated Area
- Property

Total Yard Area:  
14,730 sq. ft.

Area Excavated:  
14,730 sq. ft.

Total Area Not Excavated:  
0 sq. ft.



0 15 30 60 Feet

**Parcel 14-15-40-320**  
Midland Resolution Soil Replacement

## Dow Midland Soils Remedy Worksheet

Site Address: 1501 E. Patrick Rd.

Parcel: 14-15-40-320

Date: 4-Nov-13

### Initial Soil Sample

290

Soil Result (ppt)

### Soil Remedy Result:

REMEDY

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Replicate Soil Samples

--

Initial soil result (ppt)

--

Replicate result (ppt)

--

Replicate result (ppt)

### Soil Replicate

### Remedy Result:

--

--

Average (ppt)

--

Standard Deviation (ppt)

2.92

t (0.95, 2)

--

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### If Soil Remedy Required, Evaluate Indoor Dust:

290

Initial soil result or 95% UCL if replicates were required (ppt)

14730

Area of yard (ft<sup>2</sup>) (area as sampled)

0

Area not remedied (ft<sup>2</sup>)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

5.43E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: John Lepparen	Property Address: 1501 E. Patrick
Contract Personnel: <ul style="list-style-type: none"><li>• Kappen Tree Service – 9/13/13</li><li>• Servinski</li><li>• Fisher</li><li>• Pats</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Kappen: Bucket Truck, Chipper</li><li>• Servinski: Excavator, Bobcat, Dozer</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li></ul>
Field Person: Gary Waugh	Date: 9/23/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 16,826	Yards In:	Yards Out: 360 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Measured depth of cut at excavation line	Date Verified/Initial: 9/23/13 GW
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was onsite 9/13/13 and removed the select trees. Wood chips and logs were hauled to the Allied staging area.

Servinski/Fisher: 1501 Patrick is essentially a vacant lot with only a small garage existing on the property. No irrigation system or landscaping will be installed. The crew began the soils dig out today using an excavator and bobcat. The trucks were loaded from a side street off of Patrick. Catch basin filters and silt fence were checked and in good condition.

\* Yards Out:

360yds – Soil relocated to (Dow MIOPS Poseyville Landfill MAS Stockpile Area)

*Gary Waugh*

*9/23/13*

Field Representative Signature

Date

Weather: Clear, 50 -68, calm winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: John Lepparen	Property Address: 1501 E. Patrick
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Excavator, Bobcat, Dozer</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li></ul>
Field Person: Gary Waugh	Date: 9/24/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 16,826	Yards In:	Yards Out: 525 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Measured depth of cut at excavation line	Date Verified/Initial: 9/24/13 GW
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: The crew continued and completed the soils dig out. Catch basin filters and silt fence were checked and in good condition. The hydro seeder was used to apply water to the soil during excavation and load out to control dust.

\* Yards Out:

435yds – Soil relocated to (Dow MIOPS Poseyville Landfill MAS Stockpile Area)

90yds – Debris and concrete were hauled to (Midland City Landfill) for disposal

*Gary Waugh*

9/24/13

Field Representative Signature

Date

Weather: Clear, 45 -69, calm winds



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: John Lepparen	Property Address: 1501 E. Patrick
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li><li>• Sugar Construction</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Excavator, Bobcat, Dozer</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li><li>• Sugar: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 9/25/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 16,826	Yards In: 525 * See Below	Yards Out: 0
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Measured depth of cut at excavation line	Date Verified/Initial: 9/24/13 GW
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Formed and poured the concrete for a section of city sidewalk 4ft x 25ft.

Servinski/Fisher: The crew imported placed and graded the topsoil. The pre seeder was used to prepare the topsoil. Hydro seed was then applied. 1501 Patrick is complete pending a walk through with the property owner. The silt fence and catch basin filters will be left in place until the grass has been established.

\* Yards In:  
525yds - Topsoil

*Gary Waugh*

9/25/13

Field Representative Signature

Date

Weather: Clear, 48 -68, calm winds

**Green Remediation Assurance Form**  
**Midland Resolution**

**Property Information**

Property Owner: John Lepparen

Contract Personnel: Pat's Trucking, Servinski

Property Address: 1501 Patrick Rd.

Field Person: Gary Waugh

Date: 9/25/2013

**Fuel Usage**

Low Sulfur Diesel Used:.....Yes [X] No[ ] N/A[ ]

**Equipment**

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes [X] No[ ] N/A [ ]

Equipment Shut Off When Not In Use (No Idling):.....Yes [X] No[ ] N/A [ ]

Equipment Inspected For Leaks, Seepages, ETC:.....Yes [X] No[ ] N/A [ ]

**Administrative**

Vegetation and Plants Supplied Locally:.....Yes [X] No[ ] N/A [ ]

Local Subcontractors Used:.....Yes [X] No[ ] N/A [ ]

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes [X] No[ ] N/A [ ]

**Waste Management**

Waste Generated Recycled ( 0 )%:.....Yes [ ] No[X] N/A [ ]

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawassee River Flood Plain as Barrier

Or Dust Control:.....Yes [X] No[ ] N/A [ ]

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes [X] No[ ] N/A [ ]

**Project Controls**

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes [ ] No[ ] N/A [X]

Geosynthetics Used on Property Access Area:.....Yes [X] No[ ] N/A [ ]

Tarps Used on Trucks During Soil Removal:.....Yes [X] No[ ] N/A [ ]

Tarps Used on Borrow Trucks:.....Yes [X] No[ ] N/A [ ]

Active Dust Management System Used:.....Yes [ ] No[ ] N/A [X]

Phosphate Free Fertilizers Used:.....Yes [ ] No[ ] N/A [X]

Removed Soil Taken to Dow Plant For Reuse in Facility:....Yes [ ] No[X] N/A [ ]

Use of Sod as the Preferred Revegetation Tool:.....Yes [X] No[ ] N/A [ ]

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes [X] No[ ] N/A [ ]

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes [X] No[ ] N/A [ ]

Reuse Existing Concrete Foundations When Possible...Yes [ ] No[X] N/A [ ]

Use Water Efficient Landscaping.....Yes [ ] No[ ] N/A [X]

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes [X] No[ ] N/A [ ]



MIDLAND RESOLUTION

LEGEND

- Remediated Area
- Property

Total Yard Area:  
8018 sq. ft.

Area Excavated:  
8018 sq. ft.

Area Not Excavated:  
0 sq. ft.



0 15 30 60 Feet

Parcel 14-15-50-626  
Midland Resolution Soil Replacement

## Dow Midland Soils Remedy Worksheet

Site Address: 201 E. Patrick Rd.

Parcel: 14-15-50-626

Date: 4-Nov-13

### Initial Soil Sample

300

Soil Result (ppt)

### Soil Remedy Result:

REMEDY

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Replicate Soil Samples

--

Initial soil result (ppt)

--

Replicate result (ppt)

--

Replicate result (ppt)

### Soil Replicate

### Remedy Result:

--

--

Average (ppt)

--

Standard Deviation (ppt)

2.92

t (0.95, 2)

--

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### If Soil Remedy Required, Evaluate Indoor Dust:

300

Initial soil result or 95% UCL if replicates were required (ppt)

8018

Area of yard (ft<sup>2</sup>) (area as sampled)

0

Area not remedied (ft<sup>2</sup>)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

5.60E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Dawn Hockaday	Property Address: 201 E. Patrick
Contract Personnel: <ul style="list-style-type: none"><li>• Kappen Tree Service – 5/31/13</li><li>• Servinski</li><li>• Fisher</li><li>• M &amp; M</li><li>• Reliable Plumbing</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Kappen: Bucket Truck, Chipper, Log Truck, Stinger</li><li>• Servinski: Mini Excavator, Excavator, Bobcats</li><li>• Fisher: Hand Tools</li><li>• M &amp; M: Stump Grinder</li><li>• Reliable: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 6/10/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 8735	Yards In: 6 * See Below	Yards Out: 30 * See Below
Description of Cut Depth:		
Verification Method:		Date Verified/Initial:
Describe soils remaining:		

### DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was onsite 5/31/13 and removed the select trees. Wood chips and logs were hauled to the Allied staging area.

M & M: Onsite and ground the stumps remaining from the tree removal.

Reliable Plumbing: Installed the backflow preventer and plumbing to accommodate the irrigation system.

Servinski/Fisher: Began the soils dig out. Silt fence was installed at the curb line along Patrick and Lincoln Streets.

\* Yards Out:

30yds – Soil relocated to (Salzburg Landfill MAS Stockpile Area)

\* Yard In:

6yds – Stone Mix

*Gary Waugh*

*6/10/13*

Field Representative Signature

Date

Weather: Cloudy, 55 – 65, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Dawn Hockaday	Property Address: 201 E. Patrick
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Sugar Construction</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Mini Excavator, Excavator, Bobcats</li><li>• Fisher: Hand Tools</li><li>• Sugar: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 6/11/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 8735	Yards In: 313 * See Below	Yards Out: 315 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Laser level used to verify cut depth	Date Verified/Initial: GW/PH 6/1/13
Describe soils remaining: All soils removed.		

### DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Constructed the landscape timber wall between the shed and east property line.

Servinski/Fisher: Completed the soils dig out and imported some topsoil. Silt fence was installed at the curb line along Patrick and Lincoln Streets.

\* Yards Out:

315yds – Soil relocated to (Salzburg Landfill MAS Stockpile Area)

\* Yard In:

285yds – Topsoil

25yds – Stone Mix

3yds – Drainage Stone

*Gary Waugh*

6/11/13

Field Representative Signature

Date

Weather: Clear, 62 – 80, light winds



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Dawn Hockaday	Property Address: 201 E. Patrick
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Kokaly</li><li>• Sugar Construction</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Mini Excavator, Bobcat</li><li>• Fisher: Hand Tools</li><li>• Kokaly: Hand Tools</li><li>• Sugar: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 6/12/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 8735	Yards In: 103 * See Below	Yards Out: 0
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Laser level used to verify cut depth	Date Verified/Initial: GW/PH 6/1/13
Describe soils remaining: All soils removed.		

### DESCRIPTION OF FIELD ACTIVITIES:

Kokaly: Installed the irrigation system piping, sprinkler heads, low voltage wiring and valves.

Sugar Construction: Poured the concrete for the service walk 4ft x 36ft.

Servinski/Fisher: Finished importing placing and grading topsoil. Landscape beds were defined and edging was installed. Shrubs and trees were planted. Drainage stone and hardwood mulch placed in the appropriate bed. Silt fence was installed at the curb line along Patrick and Lincoln Streets.

\* Yards In:

75yds – Topsoil

11yds – Drainage Stone

8yds - Sand

9yds – Hardwood Mulch

*Gary Waugh*

*6/12/13*

Field Representative Signature

Date

Weather: Clear, 63 – 77, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Dawn Hockaday	Property Address: 201 E. Patrick
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcat</li><li>• Fisher: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 6/13/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 8735	Yards In: 0	Yards Out: 0
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Laser level used to verify cut depth	Date Verified/Initial: GW/PH 6/1/13
Describe soils remaining: All soils removed.		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Final prepped the topsoil, placed and trimmed sod. 201 E. Patrick is complete pending a final walk through with the property owner.

*Gary Waugh*

*6/13/13*

Field Representative Signature

Date

Weather: Clear, 63 – 78, light winds

**Green Remediation Assurance Form**  
**Midland Resolution**

**Property Information**

Property Owner: Dawn Hockaday Contract Personnel: Pat's Trucking, Servinski  
Property Address: 201 E. Patrick  
Field Person: Gary Waugh Date: 6/12/2013

**Fuel Usage**

Low Sulfur Diesel Used:.....Yes [X] No[ ] N/A [ ]

**Equipment**

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes [X] No[ ] N/A [ ]

Equipment Shut Off When Not In Use (No Idling):.....Yes [X] No[ ] N/A [ ]

Equipment Inspected For Leaks, Seepages, ETC:.....Yes [X] No[ ] N/A [ ]

**Administrative**

Vegetation and Plants Supplied Locally:.....Yes [X] No[ ] N/A [ ]

Local Subcontractors Used:.....Yes [X] No[ ] N/A [ ]

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes [X] No[ ] N/A [ ]

**Waste Management**

Waste Generated Recycled ( 0 )%:.....Yes [ ] No[X] N/A [ ]

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawassee River Flood Plain as Barrier

Or Dust Control:.....Yes [X] No[ ] N/A [ ]

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes [X] No[ ] N/A [ ]

**Project Controls**

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes [ ] No[ ] N/A [X]

Geosynthetics Used on Property Access Area:.....Yes [X] No[ ] N/A [ ]

Tarps Used on Trucks During Soil Removal:.....Yes [X] No[ ] N/A [ ]

Tarps Used on Borrow Trucks:.....Yes [X] No[ ] N/A [ ]

Active Dust Management System Used:.....Yes [ ] No[ ] N/A [X]

Phosphate Free Fertilizers Used:.....Yes [ ] No[ ] N/A [X]

Removed Soil Taken to Dow Plant For Reuse in Facility:....Yes [ ] No[X] N/A [ ]

Use of Sod as the Preferred Revegetation Tool:.....Yes [X] No[ ] N/A [ ]

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes [X] No[ ] N/A [ ]

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes [X] No[ ] N/A [ ]

Reuse Existing Concrete Foundations When Possible...Yes [ ] No[X] N/A [ ]

Use Water Efficient Landscaping.....Yes [ ] No[ ] N/A [X]

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes [X] No[ ] N/A [ ]

Area Not Remediated:  
All Excavated

Yard Area:  
Entire Parcel



Not Included in Yard Area:  
Nothing

Excavated Entire Parcel



MIDLAND RESOLUTION

LEGEND

-  Remediated Area
-  Property

Total Yard Area:  
15617 sq. ft.

Area Excavated:  
15617 sq. ft.

Total Area Not Excavated:  
0 sq. ft.



0 15 30 60 Feet

Parcel 14-15-50-660  
Midland Resolution Soil Replacement

## Dow Midland Soils Remedy Worksheet

Site Address: 311 E. Patrick Rd

Parcel: 14-15-50-660

Date: 4-Nov-13

### Initial Soil Sample

289

Soil Result (ppt)

### Soil Remedy Result:

REMEDY

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Replicate Soil Samples

--

Initial soil result (ppt)

--

Replicate result (ppt)

--

Replicate result (ppt)

### Soil Replicate

### Remedy Result:

--

--

Average (ppt)

--

Standard Deviation (ppt)

2.92

t (0.95, 2)

--

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### If Soil Remedy Required, Evaluate Indoor Dust:

289

Initial soil result or 95% UCL if replicates were required (ppt)

15617

Area of yard (ft<sup>2</sup>) (area as sampled)

0

Area not remedied (ft<sup>2</sup>)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

5.41E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Rapanos	Property Address: 311 Patrick Rd.
Contract Personnel: <ul style="list-style-type: none"><li>• Kappen Tree Service – 7/27/13</li><li>• Servinski</li><li>• Fisher</li><li>• Pats</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Kappen: Bucket Truck, Chipper, Log Truck</li><li>• Servinski: Excavator, Dozer</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li></ul>
Field Person: Gary Waugh	Date: 8/14/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 12,544	Yards In: 0	Yards Out: * See Below
Description of Cut Depth:  All soils within the remediation square footage area were removed to an average depth of 12 inches.		
Verification Method:	Measured cut depth at excavation line to verify depth	Date Verified/Initial: 8/14/13 GW
Describe soils remaining: The out lawn area (896 sq ft) will not be removed.		

### DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was onsite 7/27/13 and removed the select trees and brush. Wood chips and logs were hauled to the Allied staging area.

Servinski/Fisher: 311 Patrick is a vacant lot that will not require any landscaping other than grading topsoil and hydro seeding. The crew began the soils dig out. Trucks were able to back into the lot where they were direct loaded during the excavation of soils. Filters were placed in the catch basins within 100ft of the site. No silt fence is required as the out lawn area will not be disturbed and the lot elevation is adequately lower than Patrick Rd.

\* Yards Out:

30yds – On 8/2/13 - brush and debris were hauled to (Midland City Landfill) for disposal  
525yds – Soil relocated to (Dow Poseyville Landfill MAS Stockpile Area)

*Gary Waugh*

*8/14/13*

Field Representative Signature

Date

Weather: Clear, 48 – 70, light winds



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Rapanos	Property Address: 311 Patrick Rd.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Excavator, Dozer</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li></ul>
Field Person: Gary Waugh	Date: 8/15/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 12,544	Yards In: * See Below	Yards Out: * See Below
Description of Cut Depth:  All soils within the remediation square footage area were removed to an average depth of 12 inches.		
Verification Method:	Measured cut depth at excavation line to verify depth	Date Verified/Initial: 8/15/13 GW
Describe soils remaining: The out lawn area (896 sq ft) will not be removed.		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Continued and completed the soils dig out and importing and placing topsoil. Catch basin filters were checked and in good condition.

\* Yards Out:

30yds – On 8/2/13 - brush and debris were hauled to (Midland City Landfill) for disposal  
60yds – Soil relocated to (Dow Poseyville Landfill MAS Stockpile Area)  
522yds – Soil relocated to (Dow 610 Pond Re grading Project)

\* Yards In:

855yds - Topsoil

*Gary Waugh*

*8/15/13*

Field Representative Signature

Date

Weather: Clear, 55 – 73, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Rapanos	Property Address: 311 Patrick Rd.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Dozer, Pre seeder</li><li>• Fisher: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 8/16/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 12,544	Yards In: 0	Yards Out: 0
Description of Cut Depth:  All soils within the remediation square footage area were removed to an average depth of 12 inches.		
Verification Method:	Measured cut depth at excavation line to verify depth	Date Verified/Initial: 8/15/13 GW
Describe soils remaining: The out lawn area (896 sq ft) will not be removed.		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Final graded the topsoil and pre seeded. Hydro seed was applied. A final site cleanup was performed and catch basin filters removed. 311 Patrick is complete pending a walk through with the property owner.

*Gary Waugh*

*8/16/13*

Field Representative Signature

Date

Weather: Clear, 54 – 75, light winds

**Green Remediation Assurance Form**  
**Midland Resolution**

**Property Information**

Property Owner: Rapanos

Contract Personnel: Pat's Trucking, Servinski

Property Address: 311 Patrick Rd.

Field Person: Gary Waugh

Date: 8/16/2013

**Fuel Usage**

Low Sulfur Diesel Used:.....Yes ☒ No ☐ N/A ☐

**Equipment**

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes ☒ No ☐ N/A ☐

Equipment Shut Off When Not In Use (No Idling):.....Yes ☒ No ☐ N/A ☐

Equipment Inspected For Leaks, Seepages, ETC:.....Yes ☒ No ☐ N/A ☐

**Administrative**

Vegetation and Plants Supplied Locally:.....Yes ☒ No ☐ N/A ☐

Local Subcontractors Used:.....Yes ☒ No ☐ N/A ☐

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes ☒ No ☐ N/A ☐

**Waste Management**

Waste Generated Recycled ( 0 )%:.....Yes ☐ No ☒ N/A ☐

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawassee River Flood Plain as Barrier

Or Dust Control:.....Yes ☒ No ☐ N/A ☐

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes ☒ No ☐ N/A ☐

**Project Controls**

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes ☐ No ☐ N/A ☒

Geosynthetics Used on Property Access Area:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Trucks During Soil Removal:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Borrow Trucks:.....Yes ☒ No ☐ N/A ☐

Active Dust Management System Used:.....Yes ☐ No ☐ N/A ☒

Phosphate Free Fertilizers Used:.....Yes ☐ No ☐ N/A ☒

Removed Soil Taken to Dow Plant For Reuse in Facility:....Yes ☐ No ☒ N/A ☐

Use of Sod as the Preferred Revegetation Tool:.....Yes ☒ No ☐ N/A ☐

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes ☒ No ☐ N/A ☐

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes ☒ No ☐ N/A ☐

Reuse Existing Concrete Foundations When Possible... Yes ☐ No ☒ N/A ☐

Use Water Efficient Landscaping.....Yes ☐ No ☐ N/A ☒

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes ☒ No ☐ N/A ☐



MIDLAND RESOLUTION

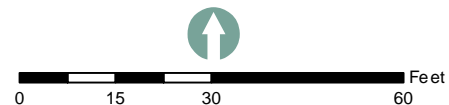
LEGEND

- Remediated Area
- Property

Total Yard Area:  
5008 sq. ft.

Area Excavated:  
3528 sq. ft.

Total Area Not Excavated:  
1480 sq. ft.



Parcel 14-16-40-458  
Midland Resolution Soil Replacement



## Dow Midland Soils Remedy Worksheet

Site Address: 701 E. Pine St.

Parcel: 14-16-40-458

Date: 4-Nov-13

### Initial Soil Sample

284

Soil Result (ppt)

### Soil Remedy Result:

REMEDY

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Replicate Soil Samples

--

Initial soil result (ppt)

--

Replicate result (ppt)

--

Replicate result (ppt)

--

Average (ppt)

--

Standard Deviation (ppt)

2.92

t (0.95, 2)

--

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### Soil Replicate

### Remedy Result:

--

### If Soil Remedy Required, Evaluate Indoor Dust:

284

Initial soil result or 95% UCL if replicates were required (ppt)

5008

Area of yard (ft<sup>2</sup>) (area as sampled)

1480

Area not remedied (ft<sup>2</sup>)

94

Surface Weighted Average (SWA) (ppt)

30%

% Undisturbed Remaining Soil (URS)

6.98E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Wendy Burgess	Property Address: 701 E. Pine St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li><li>• Reliable Plumbing – 4/23/13</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Mini Excavator, Bobcat</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li><li>• Reliable: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 4/24/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 3900	Yards In: 120	Yards Out: 165
Description of Cut Depth: No soils were removed from the existing landscape beds. Only the existing mulch was removed and replaced with new cypress mulch.  All other soils were excavated to an average depth of 12 inches.  String lines were pulled between landscape beds to measure cut depths.		
Verification Method:	See above	Date Verified/Initial: GW 4/24/13
Describe soils remaining: See above		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Removed the wood mulch from the existing landscape beds. The mulch was replaced with new cypress mulch per the owner's instruction. The remaining lawn areas were excavated to an average depth of 12 inches. The excavated soils and the existing mulch were hauled/relocated to the Salzburg Landfill MAS Stockpile Area. To gain access to the back yard plywood was placed over an existing landscape bed to protect it from the excavation equipment. Topsoil was imported onto the site, placed and rough graded. Silt fence was installed at the curb line along E. Pine St. with returns on each end.

Reliable Plumbing: On 4/23/13 installed the backflow preventer and necessary plumbing needed for the irrigation system.

*Gary Waugh*

*4/24/13*

Field Representative Signature

Date

Weather: Cloudy, overnight rain, 35 – 40, light winds



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Wendy Burgess	Property Address: 701 E. Pine St.
Contract Personnel: <ul style="list-style-type: none"> <li>Servinski</li> <li>Fisher</li> <li>Pats</li> <li>Kokaly</li> <li>Sugar Construction</li> </ul>	Contractor Equipment: <ul style="list-style-type: none"> <li>Servinski: Bobcat</li> <li>Fisher: Hand Tools</li> <li>Pats: Trucks</li> <li>Kokaly: Ditchwitch, Hand Tools</li> <li>Sugar: Hand Tools</li> </ul>
Field Person: Gary Waugh	Date: 4/25/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 3900	Yards In: 0	Yards Out: *See below
Description of Cut Depth: See 4/24/13		
Verification Method:	See above	Date Verified/Initial:
Describe soils remaining: See above		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Final prepped the topsoil using the pre seeder and hand rakes. Sod placed and trimmed. The crew also removed the section of city sidewalk that needs to be replaced. The concrete was hauled to the Midland City Landfill.

\*Yards Out:

15yds - Concrete

Kokaly: Installed the irrigation system, piping, sprinkler heads and necessary low voltage wiring and valves. There was an existing drip irrigation line trough out the landscape beds. Since the beds were not part of the soil removal remedy the existing drip irrigation lines were left in place and tied into the new irrigation system.

Sugar Construction: Formed the city sidewalk section. Concrete is scheduled for 4/26/13.

*Gary Waugh*

4/25/13

Field Representative Signature

Date

Weather: Cloudy, 36 – 48, windy

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Wendy Burgess	Property Address: 701 E. Pine St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Sugar Construction</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcat</li><li>• Fisher: Hand Tools</li><li>• Sugar: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 4/26/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 3900	Yards In: * See below	Yards Out: 0
Description of Cut Depth: See 4/24/13		
Verification Method:	See above	Date Verified/Initial:
Describe soils remaining: See above		

### DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Prepared the sand sub grade for the city sidewalk section. Poured and finished the concrete.

Servinski/Fisher: Assisted the Sugar crew with the city sidewalk section and site cleanup. 701 E Pine site is complete pending a final walk through with the property owner.

\*Yards Out:

2yds - Sand

*Gary Waugh*

*4/26/13*

Field Representative Signature

Date

Weather: Partly cloudy, 40 – 60, light winds.

**Green Remediation Assurance Form**  
**Midland Resolution**

**Property Information**

Property Owner: Wendy Burgess Contract Personnel: Pat's Trucking, Servinski

Property Address: 701 E. Pine St.

Field Person: Gary Waugh

Date: 4/24/2013

**Fuel Usage**

Low Sulfur Diesel Used:.....Yes ☒ No ☐ N/A ☐

**Equipment**

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes ☒ No ☐ N/A ☐

Equipment Shut Off When Not In Use (No Idling):.....Yes ☒ No ☐ N/A ☐

Equipment Inspected For Leaks, Seepages, ETC:.....Yes ☒ No ☐ N/A ☐

**Administrative**

Vegetation and Plants Supplied Locally:.....Yes ☒ No ☐ N/A ☐

Local Subcontractors Used:.....Yes ☒ No ☐ N/A ☐

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes ☒ No ☐ N/A ☐

**Waste Management**

Waste Generated Recycled ( 0 )%:.....Yes ☐ No ☒ N/A ☐

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawasse River Flood Plain as Barrier

Or Dust Control:.....Yes ☒ No ☐ N/A ☐

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes ☒ No ☐ N/A ☐

**Project Controls**

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes ☐ No ☐ N/A ☒

Geosynthetics Used on Property Access Area:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Trucks During Soil Removal:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Borrow Trucks:.....Yes ☒ No ☐ N/A ☐

Active Dust Management System Used:.....Yes ☐ No ☐ N/A ☒

Phosphate Free Fertilizers Used:.....Yes ☐ No ☐ N/A ☒

Removed Soil Taken to Dow Plant For Reuse in Facility:.....Yes ☐ No ☒ N/A ☐

Use of Sod as the Preferred Revegetation Tool:.....Yes ☒ No ☐ N/A ☐

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes ☒ No ☐ N/A ☐

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes ☒ No ☐ N/A ☐

Reuse Existing Concrete Foundations When Possible... Yes ☐ No ☒ N/A ☐

Use Water Efficient Landscaping.....Yes ☐ No ☐ N/A ☒

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes ☒ No ☐ N/A ☐



MIDLAND RESOLUTION

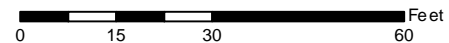
LEGEND

- Remediated Area
- Property

Total Yard Area:  
6349 sq. ft.

Area Excavated:  
6349 sq. ft.

Total Area Not Excavated:  
0 sq. ft.



Parcel 14-16-40-428  
Midland Resolution Soil Replacement



## Dow Midland Soils Remedy Worksheet

Site Address: 716 E. Pine St.

Parcel: 14-16-40-428

Date: 41582

### Initial Soil Sample

237

Soil Result (ppt)

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Soil Remedy Result:

TEST REPLICATES

### Replicate Soil Samples

193

Initial soil result (ppt)

188

Replicate result (ppt)

262

Replicate result (ppt)

214

Average (ppt)

41

Standard Deviation (ppt)

2.92

t (0.95, 2)

284

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### Soil Replicate

### Remedy Result:

REMEDY

### If Soil Remedy Required, Evaluate Indoor Dust:

284

Initial soil result or 95% UCL if replicates were required (ppt)

6349

Area of yard (ft<sup>2</sup>) (area as sampled)

0

Area not remedied (ft<sup>2</sup>)

15

Surface Weighted Average (SWA) (ppt)

0

% Undisturbed Remaining Soil (URS)

5.32E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Jason Humphrey	Property Address: 716E Pine St
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li><li>• Reliable Plumbing</li><li>• M &amp; M</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Mini Excavator, Bobcat</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li><li>• Reliable: Hand Tools</li><li>• M &amp; M: Stump Grinder</li></ul>
Field Person: Gary Waugh	Date: 5/6/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 7072	Yards In: *See Below	Yards Out: 330 *See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches		
Verification Method:	Laser level to check cut depths	Date Verified/Initial: GW/SS 5/6/13
Describe soils remaining: All soils removed except around several existing trees in the out lawn area that are very close to the city sidewalk. The soils around the trees within a 3ft radius were left in place and hand graded to protect the roots.		

### DESCRIPTION OF FIELD ACTIVITIES:

M & M: Ground the stumps that were left from the tree removal.

Reliable Plumbing: Installed the backflow preventer and necessary plumbing needed to accommodate the irrigation system.

Servinski/Fisher: Began and completed the soil dig out. 716 E. Pine is a corner lot with underground utilities along two sides of the property. Extra time was needed to locate all the underground utilities. Due to limited space between the house and the west property line this area had to be excavated by hand digging and wheel barrows to move the soil to the front yard. Throughout the day as the excavating progressed Gary Waugh or Steve Servinski verified the cut depth with the use of a laser level. At the end of the work day sidewalks were barricaded and silt fence was installed at the curb lines along E. Pine and State.

#### \*Yards Out:

105yrs – Soil (Relocated to the Salzburg Landfill MAS Soil Stockpile Area)

225yrs – Soil (Relocated to the Dow WIF 11<sup>th</sup> & 12<sup>th</sup>)

#### \*Yards In:

4yrs - Sand



**CONSTRUCTION QUALITY ASSURANCE FORM  
MIDLAND RESOLUTION CENTER**

**DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:**

*Gary Waugh*

5/6/13

---

Field Representative Signature

Date

Weather: Sunny 48 – 72, light winds.

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Jason Humphrey	Property Address: 716E Pine St
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li><li>• Kokaly</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Mini Excavator, Bobcat</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li><li>• Kokaly</li></ul>
Field Person: Gary Waugh	Date: 5/7/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 7072	Yards In: 207* See below	Yards Out: *See Below
Description of Cut Depth:  See 5/6/13		
Verification Method:	See 5/6/13	Date Verified/Initial: GW/SS 5/6/13
Describe soils remaining: See 5/6/13		

### DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Sugar formed and poured several sections of concrete; South side of driveway 3ft x 18ft; North side of driveway 9ft x 21ft; South entrance door pad 6ft x 4ft; and 39ft length of city sidewalk along Pine St.

Kokaly: Installed the irrigation system piping, sprinkler heads, low voltage controller and valves.

Servinski/Fisher: Began and completed importing topsoil, placing and rough grading. Landscape beds were laid out.

\*Yards Out:

15yds – Soil Concrete, debris and soil (Midland City Landfill for disposal)

\*Yards In:

207yds – Topsoil

Silt fence was installed at the curb lines along Pine and State Streets. The sidewalk along Pine St was barricaded closed.

*Gary Waugh*

5/7/13

Field Representative Signature

Date

Weather: Sunny 48 – 76, light winds.

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Jason Humphrey	Property Address: 716E Pine St
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcat</li><li>• Fisher: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 5/8/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 7072	Yards In: 14* See below	Yards Out: *See Below
Description of Cut Depth:  See 5/6/13		
Verification Method:	See 5/6/13	Date Verified/Initial: GW/SS 5/6/13
Describe soils remaining: See 5/6/13		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Installed landscape beds, planted shrubs and bushes, placed drainage stone and hardwood mulch. Sod was placed and trimmed. The irrigation system was turned on and programmed and the sprinkler heads were adjusted. 716 E. Pine is complete pending a final walk through with the property owner.

\* Yard In:

4yds – Drainage Stone

10yds – Hardwood Mulch

*Gary Waugh*

*5/8/13*

Field Representative Signature

Date

Weather: Sunny 50 – 78, light winds.

**Green Remediation Assurance Form**  
**Midland Resolution**

**Property Information**

Property Owner: Jason Humphrey Contract Personnel: Pat's Trucking, Servinski

Property Address: 716 E Pine St.

Field Person: Gary Waugh

Date: 5/7/2013

**Fuel Usage**

Low Sulfur Diesel Used:.....Yes ☒ No ☐ N/A ☐

**Equipment**

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes ☒ No ☐ N/A ☐

Equipment Shut Off When Not In Use (No Idling):.....Yes ☒ No ☐ N/A ☐

Equipment Inspected For Leaks, Seepages, ETC:.....Yes ☒ No ☐ N/A ☐

**Administrative**

Vegetation and Plants Supplied Locally:.....Yes ☒ No ☐ N/A ☐

Local Subcontractors Used:.....Yes ☒ No ☐ N/A ☐

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes ☒ No ☐ N/A ☐

**Waste Management**

Waste Generated Recycled ( 0 )%:.....Yes ☐ No ☒ N/A ☐

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawassee River Flood Plain as Barrier

Or Dust Control:.....Yes ☒ No ☐ N/A ☐

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes ☒ No ☐ N/A ☐

**Project Controls**

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes ☐ No ☐ N/A ☒

Geosynthetics Used on Property Access Area:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Trucks During Soil Removal:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Borrow Trucks:.....Yes ☒ No ☐ N/A ☐

Active Dust Management System Used:.....Yes ☐ No ☐ N/A ☒

Phosphate Free Fertilizers Used:.....Yes ☐ No ☐ N/A ☒

Removed Soil Taken to Dow Plant For Reuse in Facility:.....Yes ☐ No ☒ N/A ☐

Use of Sod as the Preferred Revegetation Tool:.....Yes ☒ No ☐ N/A ☐

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes ☒ No ☐ N/A ☐

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes ☒ No ☐ N/A ☐

Reuse Existing Concrete Foundations When Possible...Yes ☐ No ☒ N/A ☐

Use Water Efficient Landscaping.....Yes ☐ No ☐ N/A ☒

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes ☒ No ☐ N/A ☐



MIDLAND RESOLUTION

LEGEND

- Remediated Area
- Property

Total Yard Area: 4600 sq. ft.  
Area Excavated: 4154 sq. ft.  
Total Area Not Excavated: 446 sq. ft.  
(Includes small section of neighbors yard)



0 15 30 60 Feet

**Parcel 14-16-40-291**  
Midland Resolution Soil Replacement



## Dow Midland Soils Remedy Worksheet

Site Address: 618 Reardon Ct.

Parcel: 14-16-40-291

Date: 6-Nov-13

### Initial Soil Sample

230

Soil Result (ppt)

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Soil Remedy Result:

TEST REPLICATES

### Replicate Soil Samples

210

Initial soil result (ppt)

136

Replicate result (ppt)

232

Replicate result (ppt)

193

Average (ppt)

50.3

Standard Deviation (ppt)

2.92

t (0.95, 2)

277

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### Soil Replicate

### Remedy Result:

REMEDY

### If Soil Remedy Required, Evaluate Indoor Dust:

277

Initial soil result or 95% UCL if replicates were required (ppt)

4600

Area of yard (ft<sup>2</sup>) (area as sampled)

446

Area not remedied (ft<sup>2</sup>)

40

Surface Weighted Average (SWA) (ppt)

10%

% Undisturbed Remaining Soil (URS)

5.73E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Michael Burrell	Property Address: 618 Reardon Ct.
Contract Personnel: <ul style="list-style-type: none"><li>• Kappen Tree Service – 8/23/13</li><li>• Servinski</li><li>• Fisher</li><li>• Pats</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Kappen: Bucket Truck, Chipper</li><li>• Servinski: Mini Excavator, Bobcats</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li></ul>
Field Person: Gary Waugh	Date: 8/26/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 3542	Yards In:	Yards Out: 210 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Measured cut depth at the excavation line	Date Verified/Initial: 8/26/13 GW
Describe soils remaining: Approximately 433sq ft of area was not excavated. The area has existing landscaping that the owner did not want removed.		

### DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was on site 8/23/13 and removed the select trees. Wood chips were hauled to the Allied staging area.

Servinski/Fisher: Began the soils dig out. The mini excavator was used due to limited property space. A bobcat was used to load the excavated soils. Catch basin filters were not needed as there were no catch basins within 100ft of the property. Silt fence was installed at the curb line along Reardon Ct. Water was applied to the excavated soils during load out.

\* Yards Out:

210yds – Soil relocated to (Dow MIOPS Poseyville Landfill MAS Stockpile Area)

*Gary Waugh*

*8/26/13*

Field Representative Signature

Date

Weather: Clear, 68 -85, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Michael Burrell	Property Address: 618 Reardon Ct.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li><li>• Reliable Plumbing</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Mini Excavator, Bobcats</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li><li>• Reliable: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 8/27/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 3542	Yards In: 90 * See Below	Yards Out: 21 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Measured cut depth at the excavation line	Date Verified/Initial: 8/27/13 GW
Describe soils remaining: Approximately 433sq ft of area was not excavated. The area has existing landscaping that the owner did not want removed.		

### DESCRIPTION OF FIELD ACTIVITIES:

Reliable Plumbing: Was on site today and installed the backflow preventer and the necessary plumbing to accommodate the irrigations system.

Servinski/Fisher: Completed the soils dig out and began importing placing and grading topsoil. Silt fence was inspected and found to be in good condition. Rain began mid afternoon. The site was secured and work stopped for the day.

\* Yards Out:

21yds – Soil relocated to (Dow MIOPS Poseyville Landfill MAS Stockpile Area)

\* Yards In:

90yds - Topsoil

*Gary Waugh*

*8/27/13*

Field Representative Signature

Date

Weather: Cloudy, afternoon rain, 70 -85, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Michael Burrell	Property Address: 618 Reardon Ct.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li><li>• Kokaly</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Mini Excavator, Bobcats</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li><li>• Kokaly: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 8/28/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 3542	Yards In: 145 * See Below	Yards Out: * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Measured cut depth at the excavation line	Date Verified/Initial: 8/27/13 GW
Describe soils remaining: Approximately 433sq ft of area was not excavated. The area has existing landscaping that the owner did not want removed.		

### DESCRIPTION OF FIELD ACTIVITIES:

Kokaly: Installed the irrigation system piping, low voltage wiring, valves and sprinkler heads. The crew also performed a system function check.

Servinski/Fisher: The crew completed importing placing and grading topsoil. Landscape beds were laid out and the edging was installed. Trees, shrubs and flowers were planted and hardwood mulch placed in the beds. The crew also restored the adjoining properties gravel driveway (property owner agreed to allow access of driveway). Silt fence was inspected and found to be in good condition.

**\* Yards Out:**

75yds – Mixed gravel and sand relocated (Dow MIOPS Poseyville Landfill MAS Stockpile Area) adjoining properties driveway material

**\* Yards In:**

105yds – Topsoil

30yds – Stone Mix (adjoining properties driveway restoration)

10yds – Hardwood Mulch

**CONSTRUCTION QUALITY ASSURANCE FORM**  
**MIDLAND RESOLUTION CENTER**

**DESCRIPTION OF FIELD ACTIVITIES CONTINUED:**

*Gary Waugh*

*8/28/13*

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Field Representative Signature

Date

Weather: Clear, 70 -88, light winds

**Green Remediation Assurance Form**  
Midland Resolution

**Property Information**

Property Owner: Michael Burrell  
Property Address: 618 Reardon  
Field Person: Gary Waugh

Contract Personnel: Pat's Trucking, Servinski

Date: 8/27/2013

**Fuel Usage**

Low Sulfur Diesel Used:.....Yes ☒ No ☐ N/A ☐

**Equipment**

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes ☒ No ☐ N/A ☐

Equipment Shut Off When Not In Use (No Idling):.....Yes ☒ No ☐ N/A ☐

Equipment Inspected For Leaks, Seepages, ETC:.....Yes ☒ No ☐ N/A ☐

**Administrative**

Vegetation and Plants Supplied Locally:.....Yes ☒ No ☐ N/A ☐

Local Subcontractors Used:.....Yes ☒ No ☐ N/A ☐

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes ☒ No ☐ N/A ☐

**Waste Management**

Waste Generated Recycled ( 0 )%:.....Yes ☐ No ☒ N/A ☐

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawasse River Flood Plain as Barrier

Or Dust Control:.....Yes ☒ No ☐ N/A ☐

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes ☒ No ☐ N/A ☐

**Project Controls**

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes ☐ No ☐ N/A ☒

Geosynthetics Used on Property Access Area:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Trucks During Soil Removal:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Borrow Trucks:.....Yes ☒ No ☐ N/A ☐

Active Dust Management System Used:.....Yes ☐ No ☐ N/A ☒

Phosphate Free Fertilizers Used:.....Yes ☐ No ☐ N/A ☒

Removed Soil Taken to Dow Plant For Reuse in Facility:....Yes ☐ No ☒ N/A ☐

Use of Sod as the Preferred Revegetation Tool:.....Yes ☒ No ☐ N/A ☐

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes ☒ No ☐ N/A ☐

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes ☒ No ☐ N/A ☐

Reuse Existing Concrete Foundations When Possible... Yes ☐ No ☒ N/A ☐

Use Water Efficient Landscaping.....Yes ☐ No ☐ N/A ☒

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes ☒ No ☐ N/A ☐





MIDLAND RESOLUTION

LEGEND

- Remediated Area
- Property

Total Yard Area:  
6298 sq. ft.

Area Excavated:  
6298 sq. ft.

Total Area Not Excavated:  
0 sq. ft.



0 15 30 60 Feet

Parcel 14-16-50-260  
Midland Resolution Soil Replacement



## Dow Midland Soils Remedy Worksheet

Site Address: 708 Rodd St.

Parcel: 14-16-50-260

Date: 4-Nov-13

### Initial Soil Sample

350

Soil Result (ppt)

### Soil Remedy Result:

REMEDY

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Replicate Soil Samples

--

Initial soil result (ppt)

--

Replicate result (ppt)

--

Replicate result (ppt)

### Soil Replicate

### Remedy Result:

--

--

Average (ppt)

--

Standard Deviation (ppt)

2.92

t (0.95, 2)

--

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### If Soil Remedy Required, Evaluate Indoor Dust:

350

Initial soil result or 95% UCL if replicates were required (ppt)

6298

Area of yard (ft<sup>2</sup>) (area as sampled)

0

Area not remedied (ft<sup>2</sup>)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

6.48E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: John Selby Contract Personnel: <ul style="list-style-type: none"> <li>Servinski</li> <li>Fisher</li> <li>Sugar Construction</li> <li>Pats</li> </ul>	Property Address: 708 Rodd St. Contractor Equipment: <ul style="list-style-type: none"> <li>Servinski: Bobcat, Excavator, Mini Excavator</li> <li>Fisher: Hand Tools</li> <li>Sugar: Hand Tools</li> <li>Pats: Trucks</li> </ul>
Field Person: Gary Waugh	Date: 5/13/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5642	Yards In: 150 *See Below	Yards Out: 300 *See Below
Description of Cut Depth:  <p style="margin-left: 20px;">All soils within the remediation area square footage were removed to an average depth of 12 inches.</p>		
Verification Method:	Measured depth along excavation cut	Date Verified/Initial: GW 5/13/13
Describe soils remaining: All soils removed.		

### DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Formed a section of city sidewalk 4ft x 12ft and a 4ft x 6ft pad for the north entrance door to the house. Concrete is scheduled for 5/14/13.

Servinski/Fisher: Began and completed the soil dig out. Gary Waugh measured depth cut as the excavation progressed. Some topsoil was imported placed and rough graded. Sand and stone mix was imported and placed for the driveway.

**\* Yard Out:**

15yds – Concrete, debris and soil hauled to (Midland City Landfill – For disposal)  
 285yds – Soil relocated to (Salzburg MAS Soil Stockpile Area)

**\* Yards In:**

120yds – Topsoil  
 15yds – Sand  
 15yds – Stone mix

Silt fence was installed at the curb line along Rodd St. The city sidewalk was barricaded closed and the street sweeper cleaned Rodd St.

**CONSTRUCTION QUALITY ASSURANCE FORM  
MIDLAND RESOLUTION CENTER**

**DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:**

*Gary Waugh*

*5/13/13*

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Field Representative Signature

Date

Weather: Partly cloudy, 32 – 55, windy.

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: John Selby Contract Personnel: <ul style="list-style-type: none"> <li>Servinski</li> <li>Fisher</li> <li>Sugar Construction</li> <li>Pats</li> <li>Kokaly</li> <li>Reliable Plumbing</li> </ul>	Property Address: 708 Rodd St. Contractor Equipment: <ul style="list-style-type: none"> <li>Servinski: Bobcat</li> <li>Fisher: Hand Tools</li> <li>Sugar: Hand Tools</li> <li>Pats: Trucks</li> <li>Kokaly: Ditchwitch, Hand Tools</li> <li>Reliable: Hand Tools</li> </ul>
Field Person: Gary Waugh	Date: 5/14/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5642	Yards In: *See Below	Yards Out: * See Below
Description of Cut Depth:  See 5/13/13		
Verification Method:	See 5/13/13	Date Verified/Initial: GW 5/13/13
Describe soils remaining: See 5/13/13		

### DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured a section of city sidewalk 4ft x 12ft and a 4ft x 6ft pad for the north entrance door to the house. The contractor also replaced several sections of chain link fence that had grown into or damaged by the trees that were removed. The remaining section of city sidewalk and drive approach to be poured is scheduled for 5/16/13.

Reliable Plumbing: Was onsite and installed the backflow preventer and necessary plumbing needed to accommodate the irrigation system.

Kokaly: Installed the irrigation system piping, sprinkler heads, low voltage wiring and valves.

Servinski/Fisher: Completed the topsoil import and placement. Landscape bed defined, edging installed and shrubs and bushes planted. Drainage stone and hardwood mulch was placed in the appropriate bed. Stone mix for the driveway was hauled in, placed and graded.

#### \* Yard Out:

15yds – Concrete, debris and soil hauled to (Midland City Landfill – For disposal)

#### \* Yards In:

45yds – Topsoil

30yds – Stone Mix

9yds – Drainage Stone

10yds - Mulch

**CONSTRUCTION QUALITY ASSURANCE FORM  
MIDLAND RESOLUTION CENTER**

**DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:**

Silt fence was installed at the curb line along Rodd St. The city sidewalk was barricaded closed and the street sweeper cleaned Rodd St.

*Gary Waugh*

*5/14/13*

---

Field Representative Signature

Date

Weather: Cloudy, 45 – 63, light winds.

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: John Selby	Property Address: 708 Rodd St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcat</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li></ul>
Field Person: Gary Waugh	Date: 5/15/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5642	Yards In: 0	Yards Out: 0
Description of Cut Depth:  See 5/13/13		
Verification Method:	See 5/13/13	Date Verified/Initial: GW 5/13/13
Describe soils remaining: See 5/13/13		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Completed hand prepping the topsoil. Sod was placed and trimmed. Final clean up and punch list items are scheduled for 5/16/13.

*Gary Waugh*

*5/15/13*

Field Representative Signature

Date

Weather: Clear, 55 – 75, light winds.



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: John Selby	Property Address: 708 Rodd St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcat</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li></ul>
Field Person: Gary Waugh	Date: 5/16/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5642	Yards In: 0	Yards Out: 0
Description of Cut Depth:  See 5/13/13		
Verification Method:	See 5/13/13	Date Verified/Initial: GW 5/13/13
Describe soils remaining: See 5/13/13		

### DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the remaining city sidewalk section 4ft x 20ft and the drive approach 5ft x 18ft with flare.

Servinski/Fisher: Performed final site cleanup. 708 Rodd is complete pending a final walk through with the property owner.

*Gary Waugh*

5/16/13

Field Representative Signature

Date

Weather: Clear, 50 – 76, light winds.

**Green Remediation Assurance Form**  
**Midland Resolution**

**Property Information**

Property Owner: John Selby Contract Personnel: Pat's Trucking, Servinski

Property Address: 708 Rodd St.

Field Person: Gary Waugh

Date: 5/14/2013

**Fuel Usage**

Low Sulfur Diesel Used:.....Yes ☒ No ☐ N/A ☐

**Equipment**

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes ☒ No ☐ N/A ☐

Equipment Shut Off When Not In Use (No Idling):.....Yes ☒ No ☐ N/A ☐

Equipment Inspected For Leaks, Seepages, ETC:.....Yes ☒ No ☐ N/A ☐

**Administrative**

Vegetation and Plants Supplied Locally:.....Yes ☒ No ☐ N/A ☐

Local Subcontractors Used:.....Yes ☒ No ☐ N/A ☐

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes ☒ No ☐ N/A ☐

**Waste Management**

Waste Generated Recycled ( 0 )%:.....Yes ☐ No ☒ N/A ☐

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawassee River Flood Plain as Barrier

Or Dust Control:.....Yes ☒ No ☐ N/A ☐

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes ☒ No ☐ N/A ☐

**Project Controls**

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes ☐ No ☐ N/A ☒

Geosynthetics Used on Property Access Area:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Trucks During Soil Removal:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Borrow Trucks:.....Yes ☒ No ☐ N/A ☐

Active Dust Management System Used:.....Yes ☐ No ☐ N/A ☒

Phosphate Free Fertilizers Used:.....Yes ☐ No ☐ N/A ☒

Removed Soil Taken to Dow Plant For Reuse in Facility:....Yes ☐ No ☒ N/A ☐

Use of Sod as the Preferred Revegetation Tool:.....Yes ☒ No ☐ N/A ☐

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes ☒ No ☐ N/A ☐

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes ☒ No ☐ N/A ☐

Reuse Existing Concrete Foundations When Possible...Yes ☐ No ☒ N/A ☐

Use Water Efficient Landscaping.....Yes ☐ No ☐ N/A ☒

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes ☒ No ☐ N/A ☐



MIDLAND RESOLUTION

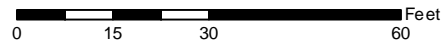
LEGEND

- Remediated Area
- Property

Total Yard Area:  
5078 sq. ft.

Area Excavated:  
5078 sq. ft.

Total Area Not Excavated:  
0 sq. ft.



Parcel 14-16-40-600  
Midland Resolution Soil Replacement

## Dow Midland Soils Remedy Worksheet

Site Address: 1004 State St.

Parcel: 14-16-40-600

Date: 4-Nov-13

### Initial Soil Sample

352

Soil Result (ppt)

### Soil Remedy Result:

REMEDY

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Replicate Soil Samples

--

Initial soil result (ppt)

--

Replicate result (ppt)

--

Replicate result (ppt)

### Soil Replicate

### Remedy Result:

--

--

Average (ppt)

--

Standard Deviation (ppt)

2.92

t (0.95, 2)

--

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### If Soil Remedy Required, Evaluate Indoor Dust:

352

Initial soil result or 95% UCL if replicates were required (ppt)

5078

Area of yard (ft<sup>2</sup>) (area as sampled)

0

Area not remedied (ft<sup>2</sup>)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

6.52E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Tom & Amber Van Pelt	Property Address: 1004 State St.
Contract Personnel: <ul style="list-style-type: none"> <li>Kappen Tree Service 4/25/13</li> <li>M &amp; M Stump Grinding</li> <li>Servinski</li> <li>Fisher</li> </ul>	Contractor Equipment: <ul style="list-style-type: none"> <li>Kappen: Boom Crane, Bucket Truck, Chipper, Log Truck, Stinger</li> <li>M &amp; M: Stump Grinder</li> <li>Servinski: Mini Excavator, Bobcat</li> <li>Fisher: Hand Tools</li> </ul>
Field Person: Gary Waugh	Date: 4/29/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5188	Yards In: 175 * See Below	Yards Out: 285 * See Below
Description of Cut Depth:  <p>All soils were excavated to an average depth of 12 inches except where the existing concrete driveway and patio were not removed. The out lawn area was excavated to an average depth of only 8 inches to eliminate damage to the roots of an existing tree.</p>		
Verification Method:	A laser level was used to check cut depths and determine finish grades.	Date Verified/Initial: GW 4/29/13
Describe soils remaining: See above Description of Cut Depth		

### DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: On 4/25/13 cut and removed the selected trees. All logs and wood chips were hauled to the Allied staging area.

M & M: Performed stump grinding.

Servinski/Fisher: Completed the majority of the dig out. A small area of soil remains where a portion of city sidewalk will be removed at a later date at which time the soils will also be excavated. The contractor also began placing and rough grading imported topsoil. Excavated soil was hauled and relocated to the Salzburg Landfill MAS Stockpile Area. Concrete and debris was hauled to the Midland City Landfill for disposal.

Yards Out:

255yds – Soil

30yds – Concrete, soil and debris

Yard In:

175yrs – Topsoil

**CONSTRUCTION QUALITY ASSURANCE FORM  
MIDLAND RESOLUTION CENTER**

**DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:**

Silt fence was installed at the curb line along State St. at the end of day. The city sidewalk was barricaded closed and site cleanup performed.

*Gary Waugh*

*4/29/13*

---

Field Representative Signature

Date

Weather: Partly cloudy, 48 – 70, light winds.



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Tom & Amber Van Pelt	Property Address: 1004 State St.
Contract Personnel: <ul style="list-style-type: none"> <li>Servinski</li> <li>Fisher</li> <li>Reliable Plumbing</li> </ul>	Contractor Equipment: <ul style="list-style-type: none"> <li>Servinski: Mini Excavator, Bobcat</li> <li>Fisher: Hand Tools</li> <li>Reliable: Hand Tools</li> </ul>
Field Person: Gary Waugh	Date: 4/30/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5188	Yards In: * See Below	Yards Out: 0
Description of Cut Depth:  See 4/29/13		
Verification Method:	See 4/29/13	Date Verified/Initial:
Describe soils remaining: See 4/29/13		

### DESCRIPTION OF FIELD ACTIVITIES:

Reliable Plumbing: Installed the backflow preventer and necessary plumbing to accommodate the irrigation system.

Servinski/Fisher: Placed and rough graded imported topsoil. Sand was also placed for the proposed property sidewalks. Rain began around mid morning and lasted until noon. The topsoil was already relatively wet and along with the morning rain it was now saturated and was not able to be graded. In the afternoon the weather improved with clearing skies and sun. To continue working the contractor skimmed or removed several inches of the saturated topsoil and replaced it with fresh to be able to grade the topsoil. Though this process worked, discussions with the contractor later in the day determined that it probably would have been better not to continue importing topsoil knowing that rain was expected.

Yards In:

90yds – Topsoil

7yds – Sand

Silt fence was installed at the curb line along State St. at the end of day. The city sidewalk was barricaded closed and site cleanup performed.

**CONSTRUCTION QUALITY ASSURANCE FORM  
MIDLAND RESOLUTION CENTER**

**DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:**

*Gary Waugh*

*4/30/13*

---

Field Representative Signature

Date

Weather: AM rain showers, PM clearing sunny, 55 – 75, light winds.

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Tom & Amber Van Pelt	Property Address: 1004 State St.
Contract Personnel: <ul style="list-style-type: none"> <li>Servinski</li> <li>Fisher</li> <li>Kokaly</li> <li>Sugar Construction</li> </ul>	Contractor Equipment: <ul style="list-style-type: none"> <li>Servinski: Mini Excavator, Bobcat</li> <li>Fisher: Hand Tools</li> <li>Kokaly: Ditchwitch, Hand Tools</li> <li>Sugar: Hand Tools</li> </ul>
Field Person: Gary Waugh	Date: 5/1/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5188	Yards In: * See Below	Yards Out: * See Below
Description of Cut Depth:  See 4/29/13		
Verification Method:	See 4/29/13	Date Verified/Initial:
Describe soils remaining: See 4/29/13		

### DESCRIPTION OF FIELD ACTIVITIES:

Kokaly: Installed the irrigation system, piping, sprinkler heads, low voltage wiring and valves.

Sugar Construction: Formed and poured several sidewalk sections; the existing 4ft x 16ft section between the house and city sidewalk; a new section between the driveway and the previously mentioned section. The contractor also replaced a 3ft x 15ft section of the driveway that was damaged during the soil dig out. The city sidewalk section to be formed and poured is scheduled for 5/2/13.

Servinski/Fisher: Completed the topsoil placement and final grading, installed the landscape edging, planted shrubs, trees and bushes and began placing hardwood mulch. The contractor also removed the section of city sidewalk that has to be replaced. The concrete was hauled to the Midland City Landfill for disposal.

\*Yards Out:

15yds – Concrete and soil

\*Yards In:

15yds – Topsoil

16yds – Hardwood Mulch

Silt fence was installed at the curb line along State St. at the end of day. The city sidewalk was barricaded closed and site cleanup performed.

**CONSTRUCTION QUALITY ASSURANCE FORM  
MIDLAND RESOLUTION CENTER**

**DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:**

*Gary Waugh*

5/1//13

---

Field Representative Signature

Date

Weather: Sunny, 58 – 82, light winds.

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Tom & Amber Van Pelt	Property Address: 1004 State St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Sugar Construction</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcat, Hand Tools</li><li>• Fisher: Hand Tools</li><li>• Sugar: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 5/2/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5188	Yards In: * See Below	Yards Out: 0
Description of Cut Depth:  See 4/29/13		
Verification Method:	See 4/29/13	Date Verified/Initial:
Describe soils remaining: See 4/29/13		

### DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Formed and poured 52ft of city sidewalk.

Servinski/Fisher: Finished the landscape beds, placed drainage stone along the garage, prepared the topsoil for sod. Sod placed and trimmed as needed. The site was cleaned up and all the silt fence removed. 1004 State is complete pending a final walk through with the property owner.

\*Yards In:

4yds – Drainage Stone

*Gary Waugh*

*5/2//13*

Field Representative Signature

Date

Weather: Sunny, 60 – 79, light winds.

**Green Remediation Assurance Form**  
**Midland Resolution**

**Property Information**

Property Owner: Tom & Amber Van Pelt Contract Personnel: Pat's Trucking, Servinski  
Property Address: 1004 State St.  
Field Person: Gary Waugh Date: 5/01/2013

**Fuel Usage**

Low Sulfur Diesel Used:.....Yes ☒ No ☐ N/A ☐

**Equipment**

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes ☒ No ☐ N/A ☐

Equipment Shut Off When Not In Use (No Idling):.....Yes ☒ No ☐ N/A ☐

Equipment Inspected For Leaks, Seepages, ETC:.....Yes ☒ No ☐ N/A ☐

**Administrative**

Vegetation and Plants Supplied Locally:.....Yes ☒ No ☐ N/A ☐

Local Subcontractors Used:.....Yes ☒ No ☐ N/A ☐

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes ☒ No ☐ N/A ☐

**Waste Management**

Waste Generated Recycled ( 0 )%:.....Yes ☐ No ☒ N/A ☐

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawasse River Flood Plain as Barrier

Or Dust Control:.....Yes ☒ No ☐ N/A ☐

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes ☒ No ☐ N/A ☐

**Project Controls**

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes ☐ No ☐ N/A ☒

Geosynthetics Used on Property Access Area:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Trucks During Soil Removal:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Borrow Trucks:.....Yes ☒ No ☐ N/A ☐

Active Dust Management System Used:.....Yes ☐ No ☐ N/A ☒

Phosphate Free Fertilizers Used:.....Yes ☐ No ☐ N/A ☒

Removed Soil Taken to Dow Plant For Reuse in Facility:....Yes ☐ No ☒ N/A ☐

Use of Sod as the Preferred Revegetation Tool:.....Yes ☒ No ☐ N/A ☐

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes ☒ No ☐ N/A ☐

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes ☒ No ☐ N/A ☐

Reuse Existing Concrete Foundations When Possible...Yes ☐ No ☒ N/A ☐

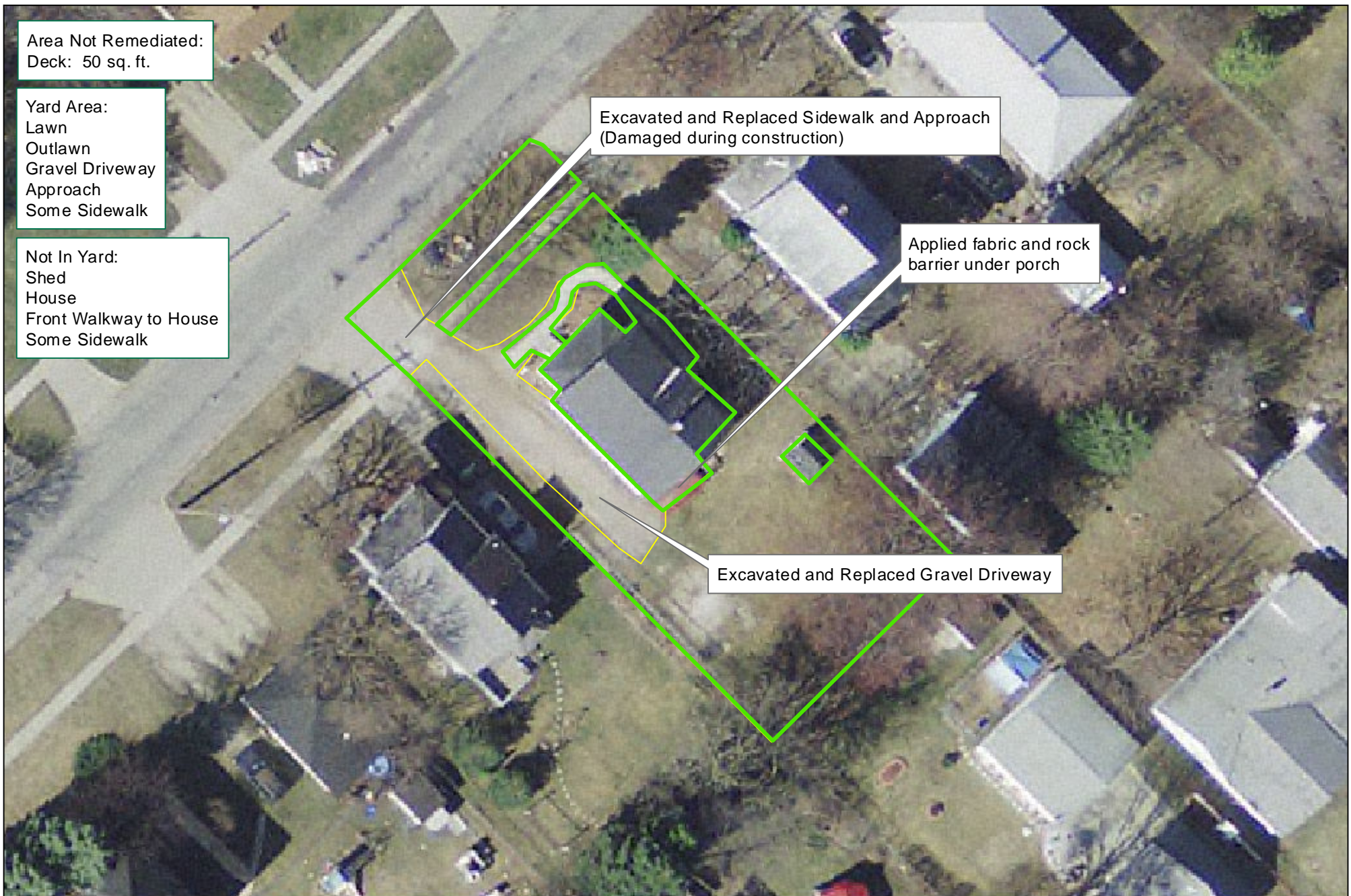
Use Water Efficient Landscaping.....Yes ☐ No ☐ N/A ☒

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes ☒ No ☐ N/A ☐





MIDLAND RESOLUTION

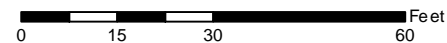
LEGEND

- Remediated Area
- Property

Total Yard Area:  
6409 sq. ft.

Area Excavated:  
6359 sq. ft.

Total Area Not Excavated:  
50 sq. ft.



Parcel 14-16-40-258  
Midland Resolution Soil Replacement

## Dow Midland Soils Remedy Worksheet

Site Address: 1114 State St.

Parcel: 14-16-40-258

Date: 4-Nov-13

### Initial Soil Sample

311

Soil Result (ppt)

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Soil Remedy Result:

**NO REMEDY**

\*Sample result used for conservative evaluation is the 6-12" calculated soil value, which had a higher result than the 6" sample.

### Replicate Soil Samples

--

Initial soil result (ppt)

--

Replicate result (ppt)

--

Replicate result (ppt)

--

Average (ppt)

--

Standard Deviation (ppt)

2.92

t (0.95, 2)

--

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### Soil Replicate

### Remedy Result:

--

### If Soil Remedy Required, Evaluate Indoor Dust:

311

Initial soil result or 95% UCL if replicates were required (ppt)

6409

Area of yard (ft<sup>2</sup>) (area as sampled)

50

Area not remedied (ft<sup>2</sup>)

17

Surface Weighted Average (SWA) (ppt)

1%

% Undisturbed Remaining Soil (URS)

**5.85E-06**

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust Remedy Result:

**NO REMEDY**

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Tim Groninger	Property Address: 1114 State St.
Contract Personnel: <ul style="list-style-type: none"> <li>Kappen Tree Service – 4/22/13 &amp; 4/23/13</li> <li>Servinski</li> <li>Fisher</li> <li>Pat's</li> <li>M &amp; M – 4/24/13 &amp; 4/25/13</li> </ul>	Contractor Equipment: <ul style="list-style-type: none"> <li>Kappen: Boom Crane, Bucket Truck, Log Truck, Chipper, Stinger</li> <li>Servinski: Mini Excavators, Bobcats</li> <li>Fisher: Hand Tools</li> <li>Pats: Trucks</li> <li>M&amp;M: Stump Grinder</li> </ul>
Field Person: Gary Waugh	Date: 4/25/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6406	Yards In: 135 * See below	Yards Out: 210 * See below
Description of Cut Depth: <ul style="list-style-type: none"> <li>An area on the north side of the house ~ 8ft x 45ft had to be excavated to an average depth of 20in to remove roots from the (5) trees removed by Kappen. This area will be replanted with Arbervitaes.</li> <li>All other Remediation Area (Sq Ft) was excavated to an average depth of 12 inches.</li> </ul>		
Verification Method:	Laser level was used to spot check cut depths	Date Verified/Initial: 4/25/13 SS/GW
Describe soils remaining: All soils removed except under existing sidewalks and the drive approach.		

### DESCRIPTION OF FIELD ACTIVITIES:

**Kappen Tree Service:** Was onsite 4/22 and 4/23 to remove/trim selected trees. Brush and small limbs were chipped. The logs and wood chips were hauled to the Allied staging area.

**M & M:** Was onsite 4/24 and 4/25 to grind the stumps from the tree removal.

**Servinski/Fisher:** Began the soil dig out starting in the rear of the property working forward. As the soil was hauled out topsoil was imported and rough graded. Concrete and debris was hauled to the Midland City Landfill for disposal and the excavated soil was hauled/relocated to the Salzburg Landfill MAS Stockpile Area.

\*Yards Out:

30yds – Concrete/Debris

180yds - Soils

\*Yards In:

135yrs – Topsoil

**CONSTRUCTION QUALITY ASSURANCE FORM  
MIDLAND RESOLUTION CENTER**

**DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:**

Silt fence was installed at the curb line along State St. Catch basin filters were checked and the street sweeper cleaned State St.

*Gary Waugh*

*4/25/13*

---

Field Representative Signature

Date

Weather: Cloudy, some rain showers, 36 – 48, windy.

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Tim Groninger	Property Address: 1114 State St.
Contract Personnel: <ul style="list-style-type: none"> <li>Servinski</li> <li>Fisher</li> <li>Pat's</li> <li>Sugar Construction</li> </ul>	Contractor Equipment: <ul style="list-style-type: none"> <li>Servinski: Mini Excavators, Bobcats</li> <li>Fisher: Hand Tools</li> <li>Pats: Trucks</li> <li>Sugar: Hand Tools</li> </ul>
Field Person: Gary Waugh	Date: 4/26/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6406	Yards In: 135 * See below	Yards Out: 135 * See below
Description of Cut Depth: See 4/25/13		
Verification Method:	See 4/25/13	Date Verified/Initial:
Describe soils remaining: See 4/25/13		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Completed the dig out and removed the existing concrete driveway. Topsoil was imported and rough graded. Concrete and debris was hauled to the Midland City Landfill for disposal and the excavated soil was hauled/relocated to the Salzburg Landfill MAS Stockpile Area.

**\*Yards Out:**

60yds – Concrete/Debris

75yds - Soils

**\*Yards In:**

135yrs – Topsoil

Silt fence was installed at the curb line along State St. Catch basin filters were checked and the street sweeper cleaned State St.

Sugar Construction: Formed the driveway and drive approach and prepared the sub grade for concrete.

**CONSTRUCTION QUALITY ASSURANCE FORM  
MIDLAND RESOLUTION CENTER**

**DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:**

*Gary Waugh*

4/26/13

---

Field Representative Signature

Date

Weather: Partly cloudy, 40 – 60, light winds.



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Tim Groninger	Property Address: 1114 State St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Mini Excavators, Bobcats</li><li>• Fisher: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 4/27/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6406	Yards In: * See below	Yards Out: 0
Description of Cut Depth: See 4/25/13		
Verification Method:	See 4/25/13	Date Verified/Initial:
Describe soils remaining: See 4/25/13		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Final graded the topsoil and prepared it for sod. Installed edging around the proposed landscape beds, planted shrubs and flowers. Drainage stone and mulch was imported onto the site and placed in the appropriate landscape bed.

\*Yards In:

- 10yds – Drainage Stone
- 8yds – Hardwood Mulch
- 6yds – Red Mulch

Silt fence was installed at the curb line along State St. Catch basin filters were checked and the street sweeper cleaned State St.

*Gary Waugh*

4/27/13

Field Representative Signature

Date

Weather: Sunny, 50 – 70, light winds.

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Tim Groninger	Property Address: 1114 State St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Sugar Construction</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Mini Excavators, Bobcats</li><li>• Fisher: Hand Tools</li><li>• Sugar: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 4/29/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6406	Yards In 0	Yards Out: 0
Description of Cut Depth: See 4/25/13		
Verification Method:	See 4/25/13	Date Verified/Initial:
Describe soils remaining: See 4/25/13		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Placed sod and performed final site cleanup. All the silt fence and catch basin filters were removed. Sugar Construction scheduled to form and pour city sidewalk section and drive approach.

*Gary Waugh*

*4/29/13*

Field Representative Signature

Date

Weather: Sunny, 48 – 70, light winds.

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Tim Groninger	Property Address: 1114 State St.
Contract Personnel: <ul style="list-style-type: none"><li>Sugar Construction</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>Sugar: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 4/30/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6406	Yards In 0	Yards Out: 15 * See below
Description of Cut Depth: See 4/25/13		
Verification Method:	See 4/25/13	Date Verified/Initial:
Describe soils remaining: See 4/25/13		

### DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Formed and poured the new concrete drive approach and the city sidewalk section.

\* Yards Out:

15yds – Concrete/Soil

The old concrete was hauled to the Midland City Landfill for disposal. The form boards were removed after the concrete had hardened. The sod was repositioned to the new concrete edge. 1114 State site is complete pending final walk through with the property owner.

*Gary Waugh*

*4/30/13*

Field Representative Signature

Date

Weather: Morning showers, clearing with sun in the pm, 55 – 75, light winds.

**Green Remediation Assurance Form**  
**Midland Resolution**

**Property Information**

Property Owner: Tim Groninger      Contract Personnel: Pat's Trucking, Servinski  
Property Address: 1114 State St.  
Field Person: Gary Waugh      Date: 4/25/2013

**Fuel Usage**

Low Sulfur Diesel Used:.....Yes ☒ No ☐ N/A ☐

**Equipment**

Tier 3 and Tier 4 Diesel Motors Manufactured  
After 2006:.....Yes ☒ No ☐ N/A ☐  
Equipment Shut Off When Not In Use (No Idling):.....Yes ☒ No ☐ N/A ☐  
Equipment Inspected For Leaks, Seepages, ETC:.....Yes ☒ No ☐ N/A ☐

**Administrative**

Vegetation and Plants Supplied Locally:.....Yes ☒ No ☐ N/A ☐  
Local Subcontractors Used:.....Yes ☒ No ☐ N/A ☐  
Borrow Pit Source Selected Closer to Project but Within  
Mandated Radius Criteria:.....Yes ☒ No ☐ N/A ☐

**Waste Management**

Waste Generated Recycled ( 0 )%:.....Yes ☐ No ☒ N/A ☐  
Wood/Tree's Removed Chipped and Staged for Use  
Along Tittabawasse River Flood Plain as Barrier  
Or Dust Control:.....Yes ☒ No ☐ N/A ☐  
Landscaping/Perennial Plants Brought to Site in  
Recyclable Pots that Will Be Collected and Reused  
By Supplier:.....Yes ☒ No ☐ N/A ☐

**Project Controls**

Recycled Newspaper Used as Binder for Hydroseeding  
Portions:.....Yes ☐ No ☐ N/A ☒  
Geosynthetics Used on Property Access Area:.....Yes ☒ No ☐ N/A ☐  
Tarps Used on Trucks During Soil Removal:.....Yes ☒ No ☐ N/A ☐  
Tarps Used on Borrow Trucks:.....Yes ☒ No ☐ N/A ☐  
Active Dust Management System Used:.....Yes ☐ No ☐ N/A ☒  
Phosphate Free Fertilizers Used:.....Yes ☐ No ☐ N/A ☒  
Removed Soil Taken to Dow Plant For Reuse in Facility:....Yes ☐ No ☒ N/A ☐  
Use of Sod as the Preferred Revegetation Tool:.....Yes ☒ No ☐ N/A ☐  
Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes ☒ No ☐ N/A ☐  
Preprogramming Irrigation System to Water Only at  
Prescribed Rates and Times:.....Yes ☒ No ☐ N/A ☐  
Reuse Existing Concrete Foundations When Possible...Yes ☐ No ☒ N/A ☐  
Use Water Efficient Landscaping.....Yes ☐ No ☐ N/A ☒  
Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,  
Gratings, and Frames of Construction Debris, Dirt,  
and Trash.....Yes ☒ No ☐ N/A ☐



MIDLAND RESOLUTION

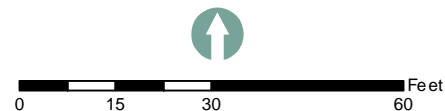
**LEGEND**

- Remediated Area
- Property

Total Yard Area:  
8902 sq. ft.

Area Excavated:  
6536 sq. ft.

Total Area Not Excavated:  
2366 sq. ft.



**Parcel 14-16-40-322**  
 Midland Resolution Soil Replacement



## Dow Midland Soils Remedy Worksheet

Site Address: 1119 State St.

Parcel: 14-16-40-322

Date: 6-Nov-13

### Initial Soil Sample

547

Soil Result (ppt)

### Soil Remedy Result:

REMEDY

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Replicate Soil Samples

--

Initial soil result (ppt)

--

Replicate result (ppt)

--

Replicate result (ppt)

### Soil Replicate

### Remedy Result:

--

--

Average (ppt)

--

Standard Deviation (ppt)

2.92

t (0.95, 2)

--

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### If Soil Remedy Required, Evaluate Indoor Dust:

547

Initial soil result or 95% UCL if replicates were required (ppt)

8902

Area of yard (ft<sup>2</sup>) (area as sampled)

2366

Area not remedied (ft<sup>2</sup>)

156

Surface Weighted Average (SWA) (ppt)

27%

% Undisturbed Remaining Soil (URS)

1.29E-05

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

REMEDY



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Randy Grandsen	Property Address: 1119 State St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li><li>• Sugar Construction</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Excavator, Mini Excavator, Bobcats</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li><li>• Sugar: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 9/9/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4867	Yards In: 0	Yards Out: 225 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Cut depth was measured at the excavation line.	Date Verified/Initial: 9/9/13 GW/SS
Describe soils remaining: Approximately 1200 sq ft of existing landscape beds were not disturbed – Soils left in place.		

### DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: The crew removed a section of privacy fence to gain access to the rear yard area.

Servinski/Fisher: Began the soils dig out in the rear yard area using the mini excavator and a bobcat. The soils were moved by the bobcat to the front yard out lawn where they were loaded into dump trucks. Water was sprayed onto the soils during excavation and load out to control dust. Catch basin filters were in place and in good condition. At the end of the work day silt fence was installed at the curb line along State St. and the street was cleaned with the sweeper truck.

\* Yards Out:

225yds – Soil relocated to (Dow MIOPS Poseyville Landfill MAS Stockpile Area)

*Gary Waugh*

9/9/13

Field Representative Signature

Date

Weather: Clear, 60 - 78, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Randy Grandsen	Property Address: 1119 State St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li><li>• Reliable Plumbing</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Excavator, Mini Excavator, Bobcats</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li><li>• Reliable: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 9/10/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4867	Yards In: 30 * See Below	Yards Out: 30 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Cut depth was measured at the excavation line.	Date Verified/Initial: 9/10/13 GW/SS
Describe soils remaining: Approximately 1200 sq ft of existing landscape beds were not disturbed – Soils left in place.		

### DESCRIPTION OF FIELD ACTIVITIES:

Reliable Plumbing: Installed the backflow preventer and the necessary plumbing to accommodate the irrigation system.

Servinski/Fisher: The crew completed the soils dig out and began importing, placing and grading topsoil. Catch basin filters were in place and in good condition. At the end of the work day silt fence was installed at the curb line along State St. and the street was cleaned with the sweeper truck.

\* Yards Out:

30yds – Soil relocated to (Dow MIOPS Poseyville Landfill MAS Stockpile Area)

\* Yards In:

30yds - Topsoil

*Gary Waugh*

*9/10/13*

Field Representative Signature

Date

Weather: Clear, 75 - 95, breezy

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Randy Grandsen	Property Address: 1119 State St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcats</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li></ul>
Field Person: Gary Waugh	Date: 9/11/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4867	Yards In: 90 * See Below	Yards Out: 0
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Cut depth was measured at the excavation line.	Date Verified/Initial: 9/10/13 GW/SS
Describe soils remaining: Approximately 1200 sq ft of existing landscape beds were not disturbed – Soils left in place.		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: The crew completed importing, placing and grading topsoil. Catch basin filters were in place and in good condition. At the end of the work day silt fence was reinstalled at the curb line along State St. and the street was cleaned with the sweeper truck.

\* Yards In:  
90yds - Topsoil

*Gary Waugh*

9/11/13

Field Representative Signature

Date

Weather: Clear, 70 - 85, breezy

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Randy Grandsen	Property Address: 1119 State St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Kokaly</li><li>• Sugar Construction</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcats</li><li>• Fisher: Hand Tools</li><li>• Kokaly: Hand Tools</li><li>• Sugar: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 9/12/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4867	Yards In: 20 * See Below	Yards Out: 0
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Cut depth was measured at the excavation line.	Date Verified/Initial: 9/10/13 GW/SS
Describe soils remaining: Approximately 1200 sq ft of existing landscape beds were not disturbed – Soils left in place.		

### DESCRIPTION OF FIELD ACTIVITIES:

Kokaly: Installed the irrigation system piping, low voltage wiring, valves and sprinkler heads. The crew also performed a system function check. Final adjustments will be made after the sod is placed and the system is turned on.

Sugar Construction: Formed and poured a section of city sidewalk 4ft x 27ft.

Servinski/Fisher: The crew final prepped and hand raked the topsoil. Landscape beds were laid out and the edging was installed. Shrubs and flowers were planted and drainage stone and hardwood mulch were placed in the appropriate bed. Catch basin filters were in place and in good condition. At the end of the work day silt fence was reinstalled at the curb line along State St. and the street was cleaned with the sweeper truck.

\* Yards In:  
20yds – Hardwood Mulch

*Gary Waugh*

9/12/13

Field Representative Signature

Date

Weather: Clear, 65 - 75, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Randy Grandsen	Property Address: 1119 State St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcat</li><li>• Fisher: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 9/13/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4867	Yards In: 0	Yards Out: 0
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Cut depth was measured at the excavation line.	Date Verified/Initial: 9/10/13 GW/SS
Describe soils remaining: Approximately 1200 sq ft of existing landscape beds were not disturbed – Soils left in place.		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Topsoil was hand raked and sod was placed and trimmed. The irrigation system was turned on, adjustments were made to the sprinkler heads and the clock was programmed. Catch basin filters and the silt fence were removed. A final site cleanup was performed. 1119 State St. is complete pending a walk through with the property owner.

*Gary Waugh*

*9/13/13*

Field Representative Signature

Date

Weather: Clear, 52 - 62, breezy

**Green Remediation Assurance Form**  
**Midland Resolution**

**Property Information**

Property Owner: Randy Grandsen  
Property Address: 1119 State St.  
Field Person: Gary Waugh

Contract Personnel: Pat's Trucking, Servinski

Date: 9/10/2013

**Fuel Usage**

Low Sulfur Diesel Used:.....Yes ☒ No ☐ N/A ☐

**Equipment**

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes ☒ No ☐ N/A ☐

Equipment Shut Off When Not In Use (No Idling):.....Yes ☒ No ☐ N/A ☐

Equipment Inspected For Leaks, Seepages, ETC:.....Yes ☒ No ☐ N/A ☐

**Administrative**

Vegetation and Plants Supplied Locally:.....Yes ☒ No ☐ N/A ☐

Local Subcontractors Used:.....Yes ☒ No ☐ N/A ☐

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes ☒ No ☐ N/A ☐

**Waste Management**

Waste Generated Recycled ( 0 )%:.....Yes ☐ No ☒ N/A ☐

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawassee River Flood Plain as Barrier

Or Dust Control:.....Yes ☒ No ☐ N/A ☐

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes ☒ No ☐ N/A ☐

**Project Controls**

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes ☐ No ☐ N/A ☒

Geosynthetics Used on Property Access Area:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Trucks During Soil Removal:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Borrow Trucks:.....Yes ☒ No ☐ N/A ☐

Active Dust Management System Used:.....Yes ☐ No ☐ N/A ☒

Phosphate Free Fertilizers Used:.....Yes ☐ No ☐ N/A ☒

Removed Soil Taken to Dow Plant For Reuse in Facility:....Yes ☐ No ☒ N/A ☐

Use of Sod as the Preferred Revegetation Tool:.....Yes ☒ No ☐ N/A ☐

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes ☒ No ☐ N/A ☐

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes ☒ No ☐ N/A ☐

Reuse Existing Concrete Foundations When Possible... Yes ☐ No ☒ N/A ☐

Use Water Efficient Landscaping.....Yes ☐ No ☐ N/A ☒

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes ☒ No ☐ N/A ☐





Area Not Remediated:  
All Excavated

Yard Area:  
Lawn  
Outlawn  
Driveway

Not In Yard:  
House  
Garage

Excavated and Replaced Walkway  
(Damaged during construction)

Replaced Concrete Driveway and Approach  
(Owner elected to do this during construction)

## Dow Midland Soils Remedy Worksheet

Site Address: 1120 State St.

Parcel: 14-16-40-256

Date: 4-Nov-13

### Initial Soil Sample

282

Soil Result (ppt)

### Soil Remedy Result:

REMEDY

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Replicate Soil Samples

--

Initial soil result (ppt)

--

Replicate result (ppt)

--

Replicate result (ppt)

--

Average (ppt)

--

Standard Deviation (ppt)

2.92

t (0.95, 2)

--

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### Soil Replicate

### Remedy Result:

--

### If Soil Remedy Required, Evaluate Indoor Dust:

282

Initial soil result or 95% UCL if replicates were required (ppt)

6379

Area of yard (ft<sup>2</sup>) (area as sampled)

0

Area not remedied (ft<sup>2</sup>)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

5.29E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

<b>Property Owner:</b> <b>Contract Personnel:</b> <ul style="list-style-type: none"> <li>Kappen Tree Service – 4/22/13 &amp; 4/23/13</li> <li>Servinski</li> <li>Fisher</li> <li>Pat's</li> <li>M &amp; M – 4/24/13 &amp; 4/25/13</li> </ul>	<b>Property Address:</b> 1120 State St. <b>Contractor Equipment:</b> <ul style="list-style-type: none"> <li>Kappen: Boom Crane, Bucket Truck, Log Truck, Chipper, Stinger</li> <li>Servinski: Mini Excavators, Bobcats</li> <li>Fisher: Hand Tools</li> <li>Pats: Trucks</li> <li>M&amp;M: Stump Grinder</li> </ul>
<b>Field Person:</b> Gary Waugh	<b>Date:</b> 4/25/13

### DESCRIPTION OF SOILS REMOVAL

<b>Remediation Area (Sq Ft):</b> 8825	<b>Yards In:</b> 120 * See below	<b>Yards Out:</b> 135 * See below
<b>Description of Cut Depth:</b> <ul style="list-style-type: none"> <li>All Remediation Area (Sq Ft) was excavated to an average depth of 12 inches.</li> </ul>		
<b>Verification Method:</b>	Laser level was used to spot check cut depths	<b>Date Verified/Initial:</b> 4/25/13 SS/GW
<b>Describe soils remaining:</b> All soils removed.		

### DESCRIPTION OF FIELD ACTIVITIES:

**Kappen Tree Service:** Was onsite 4/22 and 4/23 to remove/trim selected trees. Brush and small limbs were chipped. The logs and wood chips were hauled to the Allied staging area.

**M & M:** Was onsite 4/24 and 4/25 to grind the stumps from the tree removal.

**Servinski/Fisher:** Began the soil dig out starting in the rear of the property working forward. As the soil was hauled out topsoil was imported and rough graded. Concrete and debris was hauled to the Midland City Landfill for disposal and the excavated soil was hauled/relocated to the Salzburg Landfill MAS Stockpile Area.

**\*Yards Out:**

15yds – Concrete/Debris  
120yds - Soils

**\*Yards In:**

120yrs – Topsoil

**CONSTRUCTION QUALITY ASSURANCE FORM  
MIDLAND RESOLUTION CENTER**

**DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:**

Silt fence was installed at the curb line along State St. Catch basin filters were checked and the street sweeper cleaned State St.

*Gary Waugh*

*4/25/13*

---

Field Representative Signature

Date

Weather: Cloudy, some rain showers, 36 – 48, windy.

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner:	Property Address: 1120 State St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pat's</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Mini Excavators, Bobcats</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li></ul>
Field Person: Gary Waugh	Date: 4/26/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 8825	Yards In: 90 * See below	Yards Out: 15 * See below
Description of Cut Depth: See 4/25/13		
Verification Method:	See 4/25/13	Date Verified/Initial:
Describe soils remaining: See 4/25/13		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Completed the dig out and imported the remaining topsoil. The excavated soil was hauled/relocated to the Salzburg Landfill MAS Stockpile Area. The topsoil was placed and rough graded

\*Yards Out:

15yds – Soil

\*Yards In:

90yrs – Topsoil

Silt fence was installed at the curb line along State St. Catch basin filters were checked and the street sweeper cleaned State St.

*Gary Waugh*

4/26/13

Field Representative Signature

Date

Weather: Partly cloudy, 40 – 60, light winds.

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner:	Property Address: 1120 State St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Hand Tools</li><li>• Fisher: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 4/29/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 8825	Yards In: 0	Yards Out: 0
Description of Cut Depth: See 4/25/13		
Verification Method:	See 4/25/13	Date Verified/Initial:
Describe soils remaining: See 4/25/13		

### DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the concrete driveway and drive approach. The concrete was bull floated, hand edged and broom finished. The forms were removed once the concrete was given time to harden.

Servinski/Fisher: Placed sod and a site cleanup performed. All silt fence was removed along with the catch basin filters. 1120 State site is complete pending final walk through with the property owner.

*Gary Waugh*

*4/27/13*

Field Representative Signature

Date

Weather: Sunny, 48 – 70, light winds.



**Green Remediation Assurance Form**  
**Midland Resolution**

**Property Information**

Property Owner:      Contract Personnel: Pat's Trucking, Servinski

Property Address: 1120 State St.

Field Person: Gary Waugh

Date: 4/25/2013

**Fuel Usage**

Low Sulfur Diesel Used:.....Yes ☒ No ☐ N/A ☐

**Equipment**

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes ☒ No ☐ N/A ☐

Equipment Shut Off When Not In Use (No Idling):.....Yes ☒ No ☐ N/A ☐

Equipment Inspected For Leaks, Seepages, ETC:.....Yes ☒ No ☐ N/A ☐

**Administrative**

Vegetation and Plants Supplied Locally:.....Yes ☒ No ☐ N/A ☐

Local Subcontractors Used:.....Yes ☒ No ☐ N/A ☐

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes ☒ No ☐ N/A ☐

**Waste Management**

Waste Generated Recycled ( 0 )%:.....Yes ☐ No ☒ N/A ☐

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawasse River Flood Plain as Barrier

Or Dust Control:.....Yes ☒ No ☐ N/A ☐

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes ☒ No ☐ N/A ☐

**Project Controls**

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes ☐ No ☐ N/A ☒

Geosynthetics Used on Property Access Area:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Trucks During Soil Removal:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Borrow Trucks:.....Yes ☒ No ☐ N/A ☐

Active Dust Management System Used:.....Yes ☐ No ☐ N/A ☒

Phosphate Free Fertilizers Used:.....Yes ☐ No ☐ N/A ☒

Removed Soil Taken to Dow Plant For Reuse in Facility:.....Yes ☐ No ☒ N/A ☐

Use of Sod as the Preferred Revegetation Tool:.....Yes ☒ No ☐ N/A ☐

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes ☒ No ☐ N/A ☐

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes ☒ No ☐ N/A ☐

Reuse Existing Concrete Foundations When Possible...Yes ☐ No ☒ N/A ☐

Use Water Efficient Landscaping.....Yes ☐ No ☐ N/A ☒

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes ☒ No ☐ N/A ☐



MIDLAND RESOLUTION

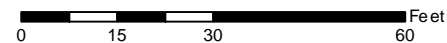
LEGEND

- Remediated Area
- Property

Total Yard Area:  
5981 sq. ft.

Area Excavated:  
5981 sq. ft.

Total Area Not Excavated:  
0 sq. ft.



**Parcel 14-16-40-324**  
Midland Resolution Soil Replacement

## Dow Midland Soils Remedy Worksheet

Site Address: 1301 State St.

Parcel: 14-16-40-324

Date: 6-Nov-13

### Initial Soil Sample

293

Soil Result (ppt)

### Soil Remedy Result:

REMEDY

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Replicate Soil Samples

--

Initial soil result (ppt)

--

Replicate result (ppt)

--

Replicate result (ppt)

### Soil Replicate

### Remedy Result:

--

--

Average (ppt)

--

Standard Deviation (ppt)

2.92

t (0.95, 2)

--

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### If Soil Remedy Required, Evaluate Indoor Dust:

293

Initial soil result or 95% UCL if replicates were required (ppt)

5981

Area of yard (ft<sup>2</sup>) (area as sampled)

0

Area not remedied (ft<sup>2</sup>)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

5.48E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Edwin & Mary Beth Coons	Property Address: 1301 State St.
Contract Personnel: <ul style="list-style-type: none"><li>• Kappen Tree Service – 8/22/13</li><li>• Servinski</li><li>• Fisher</li><li>• Pats</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Kappen: Boom Crane, Bucket Truck, Chipper, Log Truck</li><li>• Servinski: Excavator, Mini Excavator, Bobcats</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li></ul>
Field Person: Gary Waugh	Date: 9/9/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5226	Yards In: 0	Yards Out: 225 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Cut depth was measured at the excavation line.	Date Verified/Initial: 9/9/13 GW/SS
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was on 8/22/13 and removed the select trees. Log and wood chips were hauled to the Allied staging area.

Servinski/Fisher: Began the soils dig out in the rear yard area using the mini excavator and a bobcat. The soils were moved by the bobcat to the front yard out lawn where they were loaded into dump trucks. Water was sprayed onto the soils during excavation and load out to control dust. Catch basin filters were in place and in good condition. At the end of the work day silt fence was installed at the curb line along State St. and the street was cleaned with the sweeper truck.

\* Yards Out:

225yds – Soil relocated to (Dow MIOPS Poseyville Landfill MAS Stockpile Area)

*Gary Waugh*

*9/9/13*

Field Representative Signature

Date

Weather: Clear, 60 - 78, light winds



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Edwin & Mary Beth Coons	Property Address: 1301 State St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li><li>• Reliable Plumbing</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Excavator, Mini Excavator, Bobcats</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li><li>• Reliable: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 9/10/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5226	Yards In: 120 * See Below	Yards Out: 49 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Cut depth was measured at the excavation line.	Date Verified/Initial: 9/10/13 GW/SS
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Reliable Plumbing: Installed the backflow preventer and the necessary plumbing to accommodate the irrigation system.

Servinski/Fisher: The crew completed the soils dig out and began importing, placing and grading topsoil. Catch basin filters were in place and in good condition. At the end of the work day silt fence was installed at the curb line along State St. and the street was cleaned with the sweeper truck.

\* Yards Out:

49yds – Soil relocated to (Dow MIOPS Poseyville Landfill MAS Stockpile Area)

\* Yards In:

120yds - Topsoil

*Gary Waugh*

*9/10/13*

Field Representative Signature

Date

Weather: Clear, 75 - 95, breezy

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Edwin & Mary Beth Coons	Property Address: 1301 State St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcats</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li></ul>
Field Person: Gary Waugh	Date: 9/11/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5226	Yards In: 180 * See Below	Yards Out: 0
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Cut depth was measured at the excavation line.	Date Verified/Initial: 9/10/13 GW/SS
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: The crew completed importing, placing and grading topsoil. Catch basin filters were in place and in good condition. At the end of the work day silt fence was reinstalled at the curb line along State St. and the street was cleaned with the sweeper truck.

\* Yards In:  
180yds - Topsoil

*Gary Waugh*

*9/11/13*

Field Representative Signature

Date

Weather: Clear, 70 - 85, breezy



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Edwin & Mary Beth Coons	Property Address: 1301 State St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Kokaly</li><li>• Sugar Construction</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcats</li><li>• Fisher: Hand Tools</li><li>• Kokaly: Hand Tools</li><li>• Sugar: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 9/12/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5226	Yards In: 23 * See Below	Yards Out: 0
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Cut depth was measured at the excavation line.	Date Verified/Initial: 9/10/13 GW/SS
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Kokaly: Installed the irrigation system piping, low voltage wiring, valves and sprinkler heads. The crew also performed a system function check. Final adjustments will be made after the sod is placed and the system is turned on.

Sugar Construction: Formed and poured a section of city sidewalk 4ft x 27ft.

Servinski/Fisher: The crew final prepped and hand raked the topsoil. Landscape beds were laid out and the edging was installed. Shrubs and flowers were planted and drainage stone and hardwood mulch were placed in the appropriate bed. Catch basin filters were in place and in good condition. At the end of the work day silt fence was reinstalled at the curb line along State St. and the street was cleaned with the sweeper truck.

\* Yards In:

- 16yds – Drainage Stone
- 7yds – Hardwood Mulch

*Gary Waugh*

9/12/13

Field Representative Signature

Date

Weather: Clear, 65 - 75, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Edwin & Mary Beth Coons	Property Address: 1301 State St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcat</li><li>• Fisher: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 9/12/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5226	Yards In: 0	Yards Out: 0
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Cut depth was measured at the excavation line.	Date Verified/Initial: 9/10/13 GW/SS
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Topsoil was hand raked and sod was placed and trimmed. The irrigation system was turned on, adjustments were made to the sprinkler heads and the clock was programmed. Catch basin filters and the silt fence were removed. A final site cleanup was performed. 1301 State St. is complete pending a walk through with the property owner.

*Gary Waugh*

*9/13/13*

Field Representative Signature

Date

Weather: Clear, 52 - 62, breezy

## Green Remediation Assurance Form

### Midland Resolution

#### Property Information

Property Owner: Edwin Coons

Contract Personnel: Pat's Trucking, Servinski

Property Address: 1301 State St.

Field Person: Gary Waugh

Date: 9/10/2013

#### Fuel Usage

Low Sulfur Diesel Used:.....Yes ☒ No ☐ N/A ☐

#### Equipment

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes ☒ No ☐ N/A ☐

Equipment Shut Off When Not In Use (No Idling):.....Yes ☒ No ☐ N/A ☐

Equipment Inspected For Leaks, Seepages, ETC:.....Yes ☒ No ☐ N/A ☐

#### Administrative

Vegetation and Plants Supplied Locally:.....Yes ☒ No ☐ N/A ☐

Local Subcontractors Used:.....Yes ☒ No ☐ N/A ☐

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes ☒ No ☐ N/A ☐

#### Waste Management

Waste Generated Recycled ( 0 )%:.....Yes ☐ No ☒ N/A ☐

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawassee River Flood Plain as Barrier

Or Dust Control:.....Yes ☒ No ☐ N/A ☐

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes ☒ No ☐ N/A ☐

#### Project Controls

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes ☐ No ☐ N/A ☒

Geosynthetics Used on Property Access Area:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Trucks During Soil Removal:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Borrow Trucks:.....Yes ☒ No ☐ N/A ☐

Active Dust Management System Used:.....Yes ☐ No ☐ N/A ☒

Phosphate Free Fertilizers Used:.....Yes ☐ No ☐ N/A ☒

Removed Soil Taken to Dow Plant For Reuse in Facility:....Yes ☐ No ☒ N/A ☐

Use of Sod as the Preferred Revegetation Tool:.....Yes ☒ No ☐ N/A ☐

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes ☒ No ☐ N/A ☐

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes ☒ No ☐ N/A ☐

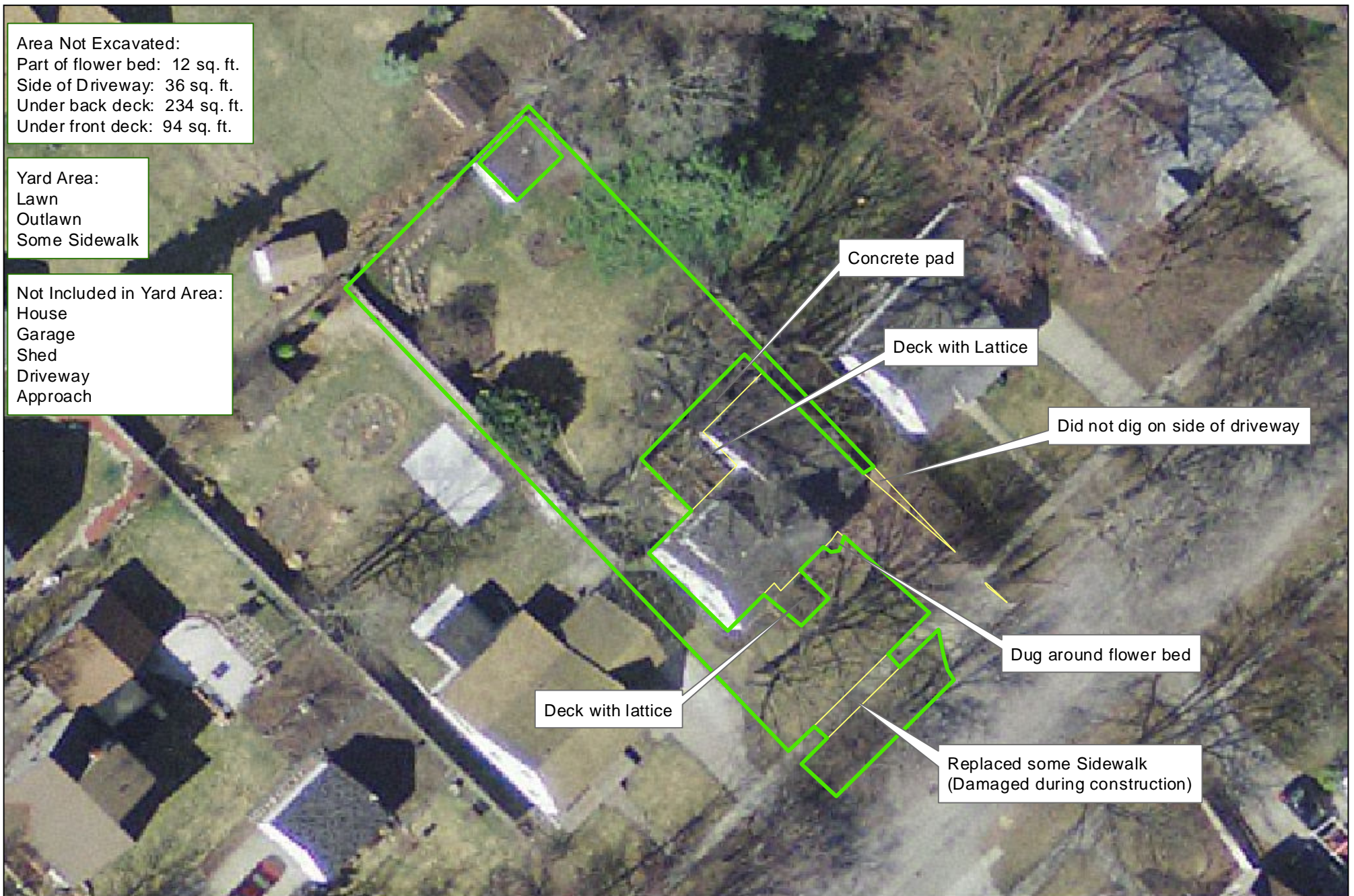
Reuse Existing Concrete Foundations When Possible...Yes ☐ No ☒ N/A ☐

Use Water Efficient Landscaping.....Yes ☐ No ☐ N/A ☒

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes ☒ No ☐ N/A ☐



MIDLAND RESOLUTION

LEGEND

- Remediated Area
- Property

Total Yard Area:  
7460 sq. ft.

Area Excavated:  
7084 sq. ft.

Total Area Not Excavated:  
376 sq. ft.



0 15 30 60 Feet

**Parcel 14-16-30-482**  
Midland Resolution Soil Replacement



## Dow Midland Soils Remedy Worksheet

Site Address: 1413 State St.

Parcel: 14-16-30-482

Date: 4-Nov-13

### Initial Soil Sample

252

Soil Result (ppt)

### Soil Remedy Result:

TEST REPLICATES

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Replicate Soil Samples

244

Initial soil result (ppt)

260

Replicate result (ppt)

259

Replicate result (ppt)

### Soil Replicate

### Remedy Result:

REMEDY

254

Average (ppt)

9.0

Standard Deviation (ppt)

2.92

t (0.95, 2)

269

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### If Soil Remedy Required, Evaluate Indoor Dust:

269

Initial soil result or 95% UCL if replicates were required (ppt)

7460

Area of yard (ft<sup>2</sup>) (area as sampled)

376

Area not remedied (ft<sup>2</sup>)

28

Surface Weighted Average (SWA) (ppt)

5%

% Undisturbed Remaining Soil (URS)

5.32E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Joan Foljann	Property Address: 1413 State St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li><li>• Reliable Plumbing</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Excavator, Mini Excavator, Bobcats</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li><li>• Reliable: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 9/17/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5632	Yards In: 0	Yards Out: 135 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	A laser level was used to check cut depth	Date Verified/Initial: 9/17/13 GW/SS
Describe soils remaining: No remaining soils.		

### DESCRIPTION OF FIELD ACTIVITIES:

Reliable Plumbing: Installed the backflow preventer and necessary plumbing to accommodate the irrigation system.

Servinski/Fisher: Access to the rear yard area was obtained through the neighboring property to the south. Several privacy fence panels and posts had to be removed to gain access to the rear property. The fence will be reinstalled after the work is complete. The crew began the soils dig out starting in the rear yard area. Bobcats were used to excavate and move the soil to the front out lawn area where it was loaded into trucks. Catch basin filters and silt fence were checked and in good condition.

\* Yards Out:

15yds – Concrete and debris were hauled to (Midland City Landfill) for disposal

120yds – Soil relocated to (Dow MIOPS Poseyville Landfill MAS Stockpile Area)

*Gary Waugh*

*9/17/13*

Field Representative Signature

Date

Weather: Clear, 48 – 68, light winds



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Joan Foljann	Property Address: 1413 State St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Excavator, Mini Excavator, Bobcats</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li></ul>
Field Person: Gary Waugh	Date: 9/18/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5632	Yards In: 165 * See Below	Yards Out: 135 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	A laser level was used to check cut depth	Date Verified/Initial: 9/17/13 GW/SS
Describe soils remaining: No remaining soils.		

### DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Completed the soils dig out in the rear yard area. Topsoil was imported, placed and graded. The crew also constructed a raised landscape bed along the rear property line. This bed replaces the existing bed that was removed during the soils dig out. Shrubs, trees and flowers were also planted in the bed. Catch basin filters and silt fence were checked and in good condition.

\* Yards Out

135yds – Soil relocated to (Dow MIOPS Poseyville Landfill MAS Stockpile Area)

\* Yards In:

165yds - Topsoil

*Gary Waugh*

*9/18/13*

Field Representative Signature

Date

Weather: Clear, 50 – 72, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Joan Foljann	Property Address: 1413 State St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li><li>• Kokaly</li><li>• Sugar Construction</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Excavator, Mini Excavator, Bobcats</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li><li>• Kokaly: Hand Tools</li><li>• Sugar: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 9/19/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5632	Yards In: 15 * See Below	Yards Out: 45 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	A laser level was used to check cut depth	Date Verified/Initial: 9/17/13 GW/SS
Describe soils remaining: No remaining soils.		

### DESCRIPTION OF FIELD ACTIVITIES:

Kokaly: Installed the irrigation system piping, low voltage wiring and valves in the rear yard area.

Sugar Construction: Began working on the staked timber flower bed next to the rear patio. The crew also formed and poured the concrete for the new rear patio 13ft x 18ft.

Servinski/Fisher: The crew completed the soils dig out and imported some topsoil in the front yard area. After Kokaly installed the irrigation in the rear yard, topsoil was prepped and hand raked. Sod was placed and trimmed in the rear yard area. Catch basin filters and silt fence were checked and in good condition.

\* Yards Out

135yds – Soil relocated to (Dow MIOPS Poseyville Landfill MAS Stockpile Area)

\* Yards In:

15yds – Hardwood Mulch

*Gary Waugh*

*9/19/13*

Field Representative Signature

Date

Weather: Clear, 50 – 72, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Joan Foljann	Property Address: 1413 State St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li><li>• Kokaly</li><li>• Sugar Construction</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Bobcats</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li><li>• Kokaly: Hand Tools</li><li>• Sugar: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 9/19/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5632	Yards In: 94 * See Below	Yards Out: 0
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	A laser level was used to check cut depth	Date Verified/Initial: 9/17/13 GW/SS
Describe soils remaining: No remaining soils.		

### DESCRIPTION OF FIELD ACTIVITIES:

Kokaly: Installed the irrigation system piping, low voltage wiring and valves in the front yard area.

Sugar Construction: Completed the timber flower bed and formed the new section of city sidewalk 4ft x 15ft.

Servinski/Fisher: The crew completed importing topsoil for the front yard area. After Kokaly installed the irrigation system in the front yard the topsoil was prepped and hand raked. Sod was placed and trimmed. The irrigation system was turned on and adjusted as necessary. A final site cleanup was performed. 1413 State is complete pending a walk through with the property owner.

\* Yards In:

8yds – Hardwood Mulch

60yds – Topsoil

9yds – Sand

17yds – Drainage Stone

*Gary Waugh*

*9/20/13*

Field Representative Signature

Date

Weather: Cloudy, 68– 75, light winds

## Green Remediation Assurance Form

### Midland Resolution

#### Property Information

Property Owner: Joan Foljann

Contract Personnel: Pat's Trucking, Servinski

Property Address: 1413 State St.

Field Person: Gary Waugh

Date: 9/18/2013

#### Fuel Usage

Low Sulfur Diesel Used:.....Yes ☒ No ☐ N/A ☐

#### Equipment

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes ☒ No ☐ N/A ☐

Equipment Shut Off When Not In Use (No Idling):.....Yes ☒ No ☐ N/A ☐

Equipment Inspected For Leaks, Seepages, ETC:.....Yes ☒ No ☐ N/A ☐

#### Administrative

Vegetation and Plants Supplied Locally:.....Yes ☒ No ☐ N/A ☐

Local Subcontractors Used:.....Yes ☒ No ☐ N/A ☐

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes ☒ No ☐ N/A ☐

#### Waste Management

Waste Generated Recycled ( 0 )%:.....Yes ☐ No ☒ N/A ☐

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawassee River Flood Plain as Barrier

Or Dust Control:.....Yes ☒ No ☐ N/A ☐

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes ☒ No ☐ N/A ☐

#### Project Controls

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes ☐ No ☐ N/A ☒

Geosynthetics Used on Property Access Area:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Trucks During Soil Removal:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Borrow Trucks:.....Yes ☒ No ☐ N/A ☐

Active Dust Management System Used:.....Yes ☐ No ☐ N/A ☒

Phosphate Free Fertilizers Used:.....Yes ☐ No ☐ N/A ☒

Removed Soil Taken to Dow Plant For Reuse in Facility:....Yes ☐ No ☒ N/A ☐

Use of Sod as the Preferred Revegetation Tool:.....Yes ☒ No ☐ N/A ☐

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes ☒ No ☐ N/A ☐

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes ☒ No ☐ N/A ☐

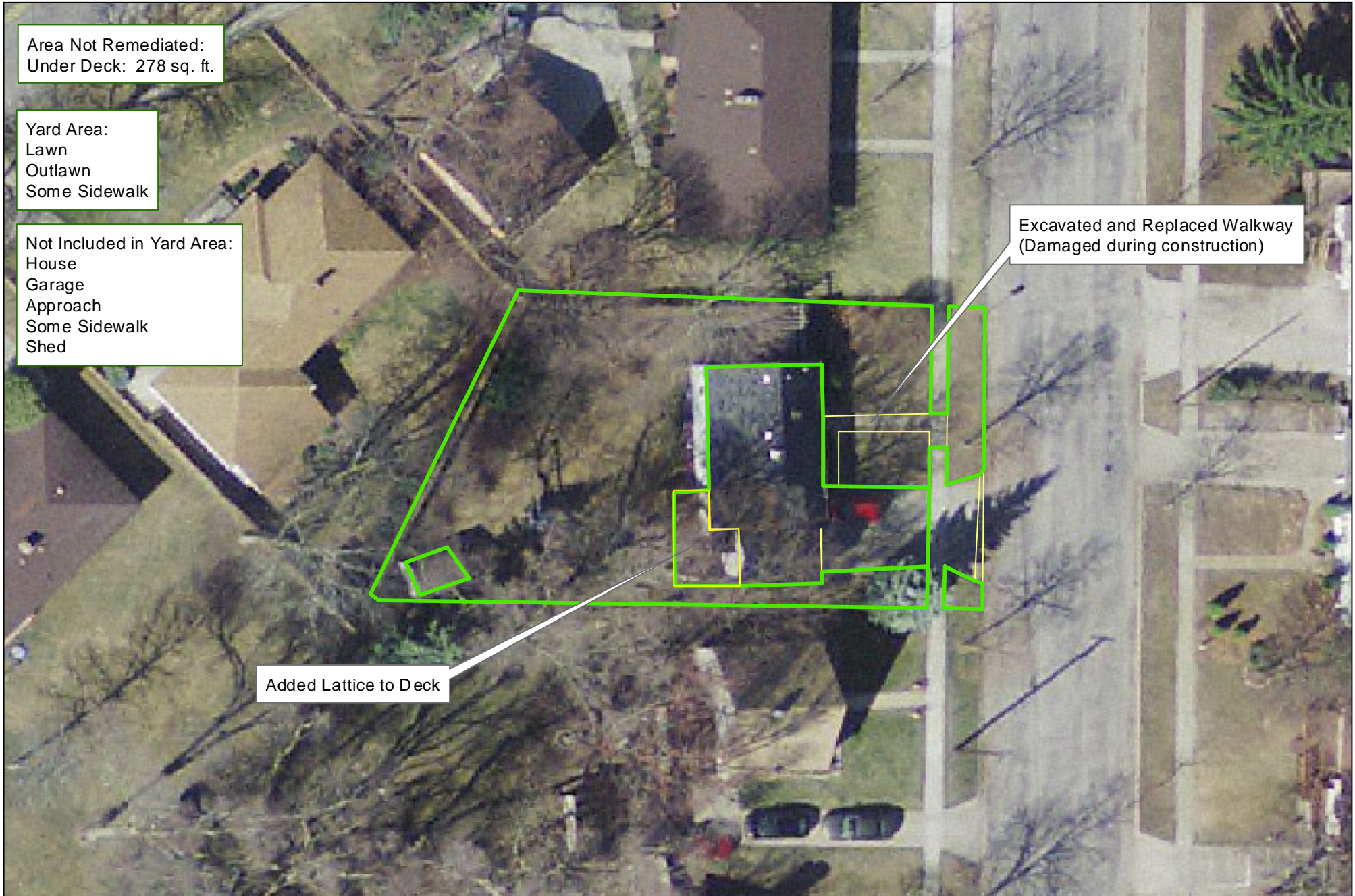
Reuse Existing Concrete Foundations When Possible...Yes ☐ No ☒ N/A ☐

Use Water Efficient Landscaping.....Yes ☐ No ☐ N/A ☒

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes ☒ No ☐ N/A ☐



MIDLAND RESOLUTION

LEGEND

- Remediated Area
- Property

Total Yard Area:  
7229 sq. ft.

Area Excavated:  
6951 sq. ft.

Total Area Not Excavated:  
278 sq. ft.



0 15 30 60 Feet

**Parcel 14-16-30-492**  
Midland Resolution Soil Replacement



## Dow Midland Soils Remedy Worksheet

Site Address: 1609 State St.

Parcel: 14-16-30-492

Date: 6-Nov-13

### Initial Soil Sample

306

Soil Result (ppt)

### Soil Remedy Result:

REMEDY

*If < or = 220, No Remedy*

*If > 280, Remedy*

*If >220 but < or = 280, Test Replicates*

### Replicate Soil Samples

--

Initial soil result (ppt)

--

Replicate result (ppt)

--

Replicate result (ppt)

### Soil Replicate

### Remedy Result:

--

--

Average (ppt)

--

Standard Deviation (ppt)

2.92

t (0.95, 2)

--

95% UCL (Student's t Upper Confidence Limit)

*If > 250, Remedy*

*If < or = 250, No Remedy*

### If Soil Remedy Required, Evaluate Indoor Dust:

306

Initial soil result or 95% UCL if replicates were required (ppt)

7229

Area of yard (ft<sup>2</sup>) (area as sampled)

278

Area not remedied (ft<sup>2</sup>)

26

Surface Weighted Average (SWA) (ppt)

4%

% Undisturbed Remaining Soil (URS)

5.94E-06

*Risk is acceptable if < or = 10<sup>-5</sup>*

### Indoor Dust

### Remedy Result:

NO REMEDY



# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Brandon & Alisha Toyzan	Property Address: 1609 State St.
Contract Personnel: <ul style="list-style-type: none"> <li>Kappen Tree Service – 8/27/13</li> <li>Servinski</li> <li>Fisher</li> <li>Pats</li> <li>Sugar Construction</li> </ul>	Contractor Equipment: <ul style="list-style-type: none"> <li>Kappen: Bucket Truck, Chipper, Log Truck</li> <li>Servinski: Excavator, Mini Excavator, Bobcat</li> <li>Fisher: Hand Tools</li> <li>Pats: Trucks</li> <li>Sugar: Hand Tools</li> </ul>
Field Person: Gary Waugh	Date: 9/3/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5339	Yards In: 0	Yards Out: 245 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Measurement were taken at the excavation cut line	Date Verified/Initial: 9/3/13 GW
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was on site 8/27/13 and removed the select trees. The wood chips and logs were hauled to the Allied staging area.

Sugar Construction: The crew removed the existing wire fence along the south property line and the existing privacy fence between the house and north property line. The crew also disassembled and moved an existing wood play set. Note the play set will not be reassembled – owner is giving it to a neighbor.

Servinski\Fisher: The crew began the soils dig out using bobcats to remove and move the soils to the front yard area along State St. where the trucks were loaded. Water was applied to the soils during excavation and load out to control dust. Filters were installed in catch basins within 100ft of the property and silt fence was installed at the curb line along State St. The street sweeper cleaned along State St. at the end of the day.

\* Yards Out:

15yds – Concrete and debris were hauled to (Midland City Landfill) for disposal

230yds – Soil relocated to (MIOPS Poseyville Landfill MAS Stockpile Area)

*Gary Waugh*

*9/3/13*

Field Representative Signature

Date

Weather: Partly cloudy, 58 – 78, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Brandon & Alisha Toyzan	Property Address: 1609 State St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Pats</li><li>• Sugar Construction</li><li>• Reliable Plumbing</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Excavator, Mini Excavator, Bobcat</li><li>• Fisher: Hand Tools</li><li>• Pats: Trucks</li><li>• Sugar: Hand Tools</li><li>• Reliable: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 9/4/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5339	Yards In: 244 * See Below	Yards Out: 30 * See Below
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Measurement were taken at the excavation cut line	Date Verified/Initial: 9/3/13 GW
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Reliable Plumbing: Checked the operation of the existing backflow preventer. No repairs were needed. Note: 1609 State St. had an existing irrigation system.

Sugar Construction: The crew set new wood fence posts for the proposed privacy fence along the south property line.

Servinski\Fisher: The crew completed the soils dig out. Topsoil was imported placed and graded. The crew also assisted the Sugar Construction crew as needed throughout the day. Catch basin filters and the silt fence was in place and in good condition. The street sweeper cleaned along State St. at the end of the day.

\* Yards Out:

15yrs – Concrete and debris were hauled to (Midland City Landfill) for disposal

15yrs – Soil relocated to (MIOPS Poseyville Landfill MAS Stockpile Area)

\* Yards In:

244yrs - Topsoil

*Gary Waugh*

9/4/13

Field Representative Signature

Date

Weather: Clear, 56 – 80, light winds

# CONSTRUCTION QUALITY ASSURANCE FORM

## MIDLAND RESOLUTION CENTER

### PROPERTY INFORMATION

Property Owner: Brandon & Alisha Toyzan	Property Address: 1609 State St.
Contract Personnel: <ul style="list-style-type: none"><li>• Servinski</li><li>• Fisher</li><li>• Sugar Construction</li><li>• Kokaly</li></ul>	Contractor Equipment: <ul style="list-style-type: none"><li>• Servinski: Excavator, Mini Excavator, Bobcat</li><li>• Fisher: Hand Tools</li><li>• Sugar: Hand Tools</li><li>• Kokaly: Hand Tools</li></ul>
Field Person: Gary Waugh	Date: 9/5/13

### DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5339	Yards In: 22 * See Below	Yards Out: 0
Description of Cut Depth:  All soils within the remediation area square footage were removed to an average depth of 12 inches.		
Verification Method:	Measurement were taken at the excavation cut line	Date Verified/Initial: 9/3/13 GW
Describe soils remaining: No remaining soils		

### DESCRIPTION OF FIELD ACTIVITIES:

Kokaly: On site and installed the irrigation system piping, low voltage wiring, valves and sprinkler heads. The crew also performed a function check of the system.

Sugar Construction: Formed and poured a section of city side walk 4ft x 20ft and the new front sidewalk 4ft x 20ft. The crew also installed the new privacy fence panels along the south property line.

Servinski\Fisher: The crew final prepped and hand raked the topsoil. Landscape beds were defined and edging was installed. The trees, shrubs and flowers were planted and drainage stone and hardwood mulch were placed in the appropriate bed. Sod was placed and trimmed. The irrigation system was turned on and adjustments were made to the system. A final site cleanup was performed and the catch basin filters and silt fencing was removed. 1609 State is complete pending a walk through with the property owner.

\* Yards In:

11yds – Drainage Stone

10yds – Hardwood Mulch

*Gary Waugh*

*9/5/13*

Field Representative Signature

Date

Weather: Clear, 53 – 71, light winds

## Green Remediation Assurance Form

### Midland Resolution

#### Property Information

Property Owner: Brandon Toyzan

Contract Personnel: Pat's Trucking, Servinski

Property Address: 1609 State St.

Field Person: Gary Waugh

Date: 9/4/2013

#### Fuel Usage

Low Sulfur Diesel Used:.....Yes ☒ No ☐ N/A ☐

#### Equipment

Tier 3 and Tier 4 Diesel Motors Manufactured

After 2006:.....Yes ☒ No ☐ N/A ☐

Equipment Shut Off When Not In Use (No Idling):.....Yes ☒ No ☐ N/A ☐

Equipment Inspected For Leaks, Seepages, ETC:.....Yes ☒ No ☐ N/A ☐

#### Administrative

Vegetation and Plants Supplied Locally:.....Yes ☒ No ☐ N/A ☐

Local Subcontractors Used:.....Yes ☒ No ☐ N/A ☐

Borrow Pit Source Selected Closer to Project but Within

Mandated Radius Criteria:.....Yes ☒ No ☐ N/A ☐

#### Waste Management

Waste Generated Recycled ( 0 )%:.....Yes ☐ No ☒ N/A ☐

Wood/Tree's Removed Chipped and Staged for Use

Along Tittabawassee River Flood Plain as Barrier

Or Dust Control:.....Yes ☒ No ☐ N/A ☐

Landscaping/Perennial Plants Brought to Site in

Recyclable Pots that Will Be Collected and Reused

By Supplier:.....Yes ☒ No ☐ N/A ☐

#### Project Controls

Recycled Newspaper Used as Binder for Hydroseeding

Portions:.....Yes ☐ No ☐ N/A ☒

Geosynthetics Used on Property Access Area:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Trucks During Soil Removal:.....Yes ☒ No ☐ N/A ☐

Tarps Used on Borrow Trucks:.....Yes ☒ No ☐ N/A ☐

Active Dust Management System Used:.....Yes ☐ No ☐ N/A ☒

Phosphate Free Fertilizers Used:.....Yes ☐ No ☐ N/A ☒

Removed Soil Taken to Dow Plant For Reuse in Facility:....Yes ☐ No ☒ N/A ☐

Use of Sod as the Preferred Revegetation Tool:.....Yes ☒ No ☐ N/A ☐

Upgrading Irrigation Controls to Include a Rain Sensor:.....Yes ☒ No ☐ N/A ☐

Preprogramming Irrigation System to Water Only at

Prescribed Rates and Times:.....Yes ☒ No ☐ N/A ☐

Reuse Existing Concrete Foundations When Possible... Yes ☐ No ☒ N/A ☐

Use Water Efficient Landscaping.....Yes ☐ No ☐ N/A ☒

Clean Manholes, Curb Inlets, Drop Inlets, Trench Drains,

Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes ☒ No ☐ N/A ☐