



MIDLAND RESOLUTION

LEGEND

- Remediated Area
- Property

Total Yard Area:
9040 sq. ft.

Area Excavated:
3812 sq. ft.

Total Area Not Excavated:
5228 sq. ft.



0 15 30 60 Feet

Parcel 14-15-50-724
Midland Resolution Soil Replacement

Dow Midland Soils Remedy Worksheet

Site Address: 116 Arbury Pl.

Parcel: 14-15-50-724

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)

--

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:

300

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

9040

Area of yard (ft²) (area as sampled)

5228

Area not remedied (ft²)

180

Surface Weighted Average (SWA) (ppt)

58%

% Undisturbed Remaining Soil (URS)

9.04E-06

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

NO REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Jean Wolfe	Property Address: 116 Arbury
Contract Personnel: <ul style="list-style-type: none">• Kappen Tree Service• Servinski• Fisher• Pats	Contractor Equipment: <ul style="list-style-type: none">• Kappen: Bucket Truck, Chipper, Log Truck• Servinski: Mini Excavator, Bobcat, Carts• Fisher: Hand Tools• Pats: Trucks
Field Person: Gary Waugh	Date: 7/15/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 3044	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 cut depth at excavation line	Date Verified/Initial: 7/15/13 GW
Describe soils remaining: Only the existing lawn area soils were removed – these total the remediation area square footage. All the existing landscape beds and garden/flower areas were not excavated.		

DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Removed two trees in the out lawn along Lincoln Street. All wood chips and tree logs were hauled to the Allied staging area.

Servinski/Fisher: Began the soils dig out. Only the existing lawn areas are to be excavated. All existing landscape beds and garden/flower areas are to remain in place undisturbed. Due to the limited access most of the remediation area will have to be removed by hand digging. The soils will be shoveled into small dump carts and transported to the out lawn area along Lincoln Street where they will be loaded into the trucks. Catch basin filter are in place and in good condition. The street sweeper cleaned along Arbury and Lincoln Streets throughout the day. The hydro seeder was used to apply water to the soil as needed to control dust. At the end of the work day silt fence was installed at the curb line along Lincoln Street. Silt fence was not needed along Arbury Street as the soils in the out lawn area will not be removed and remain undisturbed.

* Yards Out:

95yds – Soil relocated to (Dow – Poseyville Landfill MAS Stockpile Area)

**CONSTRUCTION QUALITY ASSURANCE FORM
MIDLAND RESOLUTION CENTER**

DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:

Gary Waugh

7/15/13

Field Representative Signature

Date

Weather: Clear, 70 – 92, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Jean Wolfe	Property Address: 116 Arbury
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats• Reliable Plumbing	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Mini Excavator, Bobcat, Carts• Fisher: Hand Tools• Pats: Trucks• Reliable: Hand Tools
Field Person: Gary Waugh	Date: 7/16/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 3044	Yards In:	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:	Measured cut depth at excavation line	Date Verified/Initial: 7/16/13 GW
Describe soils remaining: Only the existing lawn area soils were removed – these total the remediation area square footage. All the existing landscape beds and garden/flower areas were not excavated.		

DESCRIPTION OF FIELD ACTIVITIES:

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

Servinski/Fisher: Completed the soils dig out. Catch basin filter are in place and in good condition. The street sweeper cleaned along Arbury and Lincoln Streets throughout the day. Water was applied to the soils during excavation and load out to control dust. At the end of the work day silt fence was reinstalled at the curb line along Lincoln Street.

* Yards Out:

30yds - Soil relocated to (Dow – Poseyville Landfill MAS Stockpile Area)

Gary Waugh

7/16/13

Field Representative Signature

Date

Weather: Clear, 76 – 92, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Jean Wolfe	Property Address: 116 Arbury
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats• Kokaly	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Bobcat, Carts• Fisher: Hand Tools• Pats: Trucks• Kokaly: Hand Tools
Field Person: Gary Waugh	Date: 7/17/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 3044	Yards In: 112 * 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 cut depth at excavation line	Date Verified/Initial: 7/16/13 GW
Describe soils remaining: Only the existing lawn area soils were removed – these total the remediation area square footage. All the existing landscape beds and garden/flower areas were not excavated.		

DESCRIPTION OF FIELD ACTIVITIES:

Kokaly: Was on site today and installed the irrigation system piping, low voltage wiring and valves and sprinkler heads. A function check was performed. Final adjustments will be made once the sod is in place.

Servinski/Fisher: Began and completed importing topsoil. Like the dig out, most of the topsoil had to be placed using the small dump carts and grading by hand. Landscape beds were defined and edging installed. Trees and flowers were planted and drainage stone and hardwood mulch were placed in the appropriate bed. Catch basin filter and silt fence are in place and in good condition. The street sweeper cleaned along Arbury and Lincoln Streets throughout the day.

* Yards In:
112yds – Topsoil
8yds – Drainage Stone
7yds – Harwood Mulch

Gary Waugh

7/17/13

Field Representative Signature

Date

Weather: Clear, 75 – 94, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Jean Wolfe	Property Address: 116 Arbury
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Bobcat, Carts• Fisher: Hand Tools
Field Person: Gary Waugh	Date: 7/18/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 3044	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:	Measured cut depth at excavation line	Date Verified/Initial: 7/16/13 GW
Describe soils remaining: Only the existing lawn area soils were removed – these total the remediation area square footage. All the existing landscape beds and garden/flower areas were not excavated.		

DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: The topsoil was final prepped and hand raked. Sod was placed and trimmed. A final site cleanup was performed. Catch basin filters and silt fence removed. 116 Arbury is complete pending a walk through with the property owner.

Gary Waugh

7/18/13

Field Representative Signature

Date

Weather: Clear, 75 – 93, light winds

Green Remediation Assurance Form
Midland Resolution

Property Information

Property Owner: Jean Wolfe Contract Personnel: Pat's Trucking, Servinski

Property Address: 116 Arbury St.

Field Person: Gary Waugh

Date: 7/15/2013

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 Excavated:
All Excavated

Yard Area:
Lawn
Outlawn

Not Included in Yard Area:
House
Driveway
Approach
Sidewalk
Shed



MIDLAND RESOLUTION

LEGEND

- Remediated Area
- Property

Total Yard Area:
7071 sq. ft.

Area Excavated:
7071 sq. ft.

Total Area Not Excavated:
0 sq. ft.



0 15 30 60 Feet

Parcel 14-15-50-520
Midland Resolution Soil Replacement

Dow Midland Soils Remedy Worksheet

Site Address: 207 Arbury Place

Parcel: 14-15-50-520

Date: 4-Nov-13

Initial Soil Sample

780

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:

780

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

7071

Area of yard (ft²) (area as sampled)

0

Area not remedied (ft²)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

1.41E-05

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: KJP Sales	Property Address: 207 Arbury
Contract Personnel: <ul style="list-style-type: none">• Kappen Tree Service – 9/13/13• Servinski• Fisher• Pats	Contractor Equipment: <ul style="list-style-type: none">• Kappen: Bucket Truck, Chipper, Log Truck• Servinski: Excavator, Bobcats• Fisher: Hand Tools• Pats: Trucks
Field Person: Gary Waugh	Date: 9/30/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6193	Yards In: 0	Yards Out: 390 * 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 the excavation line	Date Verified/Initial: 9/30/13
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

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

Servinski/Fisher: The crew began the soils dig out starting in the rear yard area. Bobcats were used to excavate and move the soils to the front out lawn area where an excavator was used to load trucks. The soils dig out was completed today. Catch basin filters and silt fence were in place and in good condition.

* Yards Out:

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

375yds – Soil relocated to (Dow MIOPS Poseyville Landfill MAS Stockpile Area)

Gary Waugh

9/30/13

Field Representative Signature

Date

Weather: Partly cloudy, 54 – 70, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: KJP Sales	Property Address: 207 Arbury
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats• Reliable Plumbing	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Bobcats• Fisher: Hand Tools• Pats: Trucks• Reliable: Hand Tools
Field Person: Gary Waugh	Date: 10/1/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6193	Yards In: 350 * 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 the excavation line	Date Verified/Initial: 9/30/13
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 imported placed and rough graded the topsoil. Landscape beds were defined and the edging was installed. Catch basin filters and silt fence were in place and in good condition.

* Yards In:
350yds - Topsoil

Gary Waugh

10/1/13

Field Representative Signature

Date

Weather: Clear, 53 – 72, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: KJP Sales	Property Address: 207 Arbury
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats• Kokaly	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Bobcats• Fisher: Hand Tools• Pats: Trucks• Kokaly: Hand Tools
Field Person: Gary Waugh	Date: 10/2/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6193	Yards In: 22.5 * 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 the excavation line	Date Verified/Initial: 9/30/13
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Kokaly: Installed the irrigation system piping, low voltage wiring, valves and sprinkler heads. A system function check was performed.

Servinski/Fisher: The crew planted the shrubs and trees. Drainage stone and hardwood mulch were placed in the appropriate landscape bed. The topsoil was final prepped and hand raked. Sod was placed and trimmed and the irrigation system was turned on and adjusted. A final site cleanup was performed. 207 Arbury is complete pending a walk through with the property owner.

* Yards In:

7.5yds – Drainage Stone

9yds – Hardwood Mulch

6yds – Stone Mix

Gary Waugh

10/2/13

Field Representative Signature

Date

Weather: Clear, 53 – 78, light winds

Green Remediation Assurance Form
Midland Resolution

Property Information

Property Owner: KJP Sales

Contract Personnel: Pat's Trucking, Servinski

Property Address: 207 Arbury

Field Person: Gary Waugh

Date: 9/30/2013

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:
22164 sq. ft.

Area Excavated:
22164 sq. ft.

Total Area Not Excavated:
0 sq. ft.



0 25 50 100 Feet

Parcel 14-15-50-586
Midland Resolution Soil Replacement

Dow Midland Soils Remedy Worksheet

Site Address: 400 Arbury Pl.

Parcel: 14-15-50-586

Date: 4-Nov-13

Initial Soil Sample

353

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:

353

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

22164

Area of yard (ft²) (area as sampled)

0

Area not remedied (ft²)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

6.54E-06

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

NO REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Rhaposis	Property Address: 400 Arbury
Contract Personnel: <ul style="list-style-type: none">• Kappen Tree Service – 7/25/13• Servinski• Fisher• Pats	Contractor Equipment: <ul style="list-style-type: none">• Kappen: Bucket Truck, Chipper, Log Truck• Servinski: Excavator, Mini Excavator, Bobcat, Dozers• Fisher: Hand Tools• Pats: Trucks
Field Person: Gary Waugh	Date: 8/6/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 21,005	Yards In: 0	Yards Out: 165 * 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 excavation line	Date Verified/Initial: 8/6/13 GW/SS
Describe soils remaining: No remaining soils.		

DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was on site 7/25/13 and removed the select trees and brush. Wood chips and logs were hauled to the Allied staging area.

Servinski/Fisher: 400 Arbury is a vacant lot. No landscaping will be necessary, only several trees will be planted along the west property line and hydro seeded. The crew began excavating and hauling the soils today. Wood chips were used to build a temporary access road to the rear of the property. This allowed the trucks to back in and be direct loaded during excavation and to help manage track out. There are no catch basins within 100ft of the site so filters will not be needed. The street sweeper cleaned along Arbury throughout the day as needed.

* Yards Out:

165yds – Soil relocated to the (Dow MIOPS WIF Project)

Gary Waugh

8/6/13

Field Representative Signature

Date

Weather: Partly cloudy, 64 – 78, light winds

Green Remediation Assurance Form
Midland Resolution

Property Information

Property Owner: Rhaponas Contract Personnel: Pat's Trucking, Servinski

Property Address: 400 Arbury St.

Field Person: Gary Waugh

Date: 8/8/2013

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

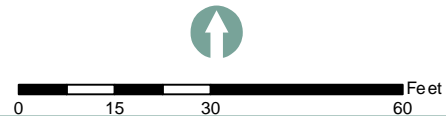
LEGEND

- Remediated Area
- Property

Total Yard Area:
11012 sq. ft.

Excavated Area:
11012 sq. ft.

Total Area Not Excavated:
0 sq. ft.



Parcel 14-23-70-050
Midland Resolution Sampling Plan

Dow Midland Soils Remedy Worksheet

Site Address: 2021 Bay City Rd.

Parcel: 14-23-70-050

Date: 4-Nov-13

Initial Soil Sample

277

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

239

Initial soil result (ppt)

282

Replicate result (ppt)

252

Replicate result (ppt)

258

Average (ppt)

22.1

Standard Deviation (ppt)

2.92

t (0.95, 2)

295

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:

295

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

11012

Area of yard (ft²) (area as sampled)

0

Area not remedied (ft²)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

5.52E-06

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

NO REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Mrs. Kent	Property Address: 2021 Bay City Rd.
Contract Personnel: <ul style="list-style-type: none">• Kappen Tree Service – 6/3/13• Servinski• Fisher• Pats	Contractor Equipment: <ul style="list-style-type: none">• Kappen: Bucket Truck, Chipper, Log Truck• Servinski: Excavator, Bobcats• Fisher: Hand Tools• Pats: Trucks
Field Person: Gary Waugh	Date: 6/20/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 11,518	Yards In: 30 * See Below	Yards Out: 285 * 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 excavation line	Date Verified/Initial: 6/20/13 GW
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was on site 6/3/13 and removed the select trees. Wood chips and logs were hauled to the Allied staging area.

Servinski/Fisher: Began the soils dig out. Some topsoil was imported and placed. Water was applied to the soil during load out to control dust. The street sweeper was used as needed. Catch basin filters were checked and in good condition. At the end of the work day silt fence was installed at the curb line along Bay City Rd and Plumber St. The site was cleaned up and barricades set as needed.

* Yards Out:

285yds – Soil relocated to (Dow - Salzburg Landfill MAS Stockpile Area)

* Yards In:

30yds - Topsoil

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: Mrs. Kent	Property Address: 2021 Bay City Rd.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Bobcats• Fisher: Hand Tools• Pats: Trucks
Field Person: Gary Waugh	Date: 6/21/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 11,518	Yards In: 310 * See Below	Yards Out: 75 * 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 excavation line	Date Verified/Initial: 6/21/13 GW
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Continued the soils dig out and importing and placing topsoil. Due to the soil being dry water was applied during load out to control dust. The street sweeper periodically cleaned the streets. Catch basin filters and silt fence in place and good condition. At the end of the work day the site was cleaned up and barricades placed as needed.

*** Yards Out:**

75yds – Soil relocated to (Dow - Salzburg Landfill MAS Stockpile Area)

*** Yards In:**

310yds - Topsoil

Gary Waugh

6/21/13

Field Representative Signature

Date

Weather: Clear, 62 – 85, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Mrs. Kent	Property Address: 2021 Bay City Rd.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats• Sugar Construction• Reliable Plumbing• Kokaly	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Bobcats• Fisher: Hand Tools• Pats: Trucks• Sugar: Hand Tools• Reliable: Hand Tools• Kokaly: Hand Tools
Field Person: Gary Waugh	Date: 6/24/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 11,518	Yards In: 165 * See Below	Yards Out: 240 * 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 excavation line	Date Verified/Initial: 6/24/13 GW
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

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

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

Sugar Construction: Poured concrete for the replacement service sidewalk 4ft x 20ft and the rear entrance pad 10ft x 10ft.

Servinski/Fisher: Completed the soils dig out and importing and placing topsoil. Landscape beds were defined and edging installed. Some shrubs and tree were planted. Catch basin filters and silt fence in good order. Bay City Rd and Plummer St were cleaned with the street sweeper. The site was cleaned up and barricades set.

* Yards Out:

225yds – Soil relocated to (Salzburg Landfill MAS Stockpile Area)

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

* Yards In:

165yds - Topsoil

**CONSTRUCTION QUALITY ASSURANCE FORM
MIDLAND RESOLUTION CENTER**

DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:

Gary Waugh

6/24/13

Field Representative Signature

Date

Weather: Partly cloudy, 70 – 88, breezy

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Mrs. Kent	Property Address: 2021 Bay City Rd.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Bobcats• Fisher: Hand Tools
Field Person: Gary Waugh	Date: 6/25/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 11,518	Yards In: 165 * See Below	Yards Out: 240 * 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 excavation line	Date Verified/Initial: 6/24/13 GW
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: The topsoil was prepped and hand raked. Sod was placed and trimmed. A complete site cleanup was performed. The street sweeper cleaned Bay City Rd and Plummer St. All catch basin filters and silt fence removed. 2021 is complete pending a final walk through with the property owner.

Gary Waugh

6/25/13

Field Representative Signature

Date

Weather: Partly cloudy, 70 – 85, light winds

Green Remediation Assurance Form
Midland Resolution

Property Information

Property Owner: Mrs. Kent Contract Personnel: Pat's Trucking, Servinski

Property Address: 2021 Bay City Rd.

Field Person: Gary Waugh

Date: 6/24/2013

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,

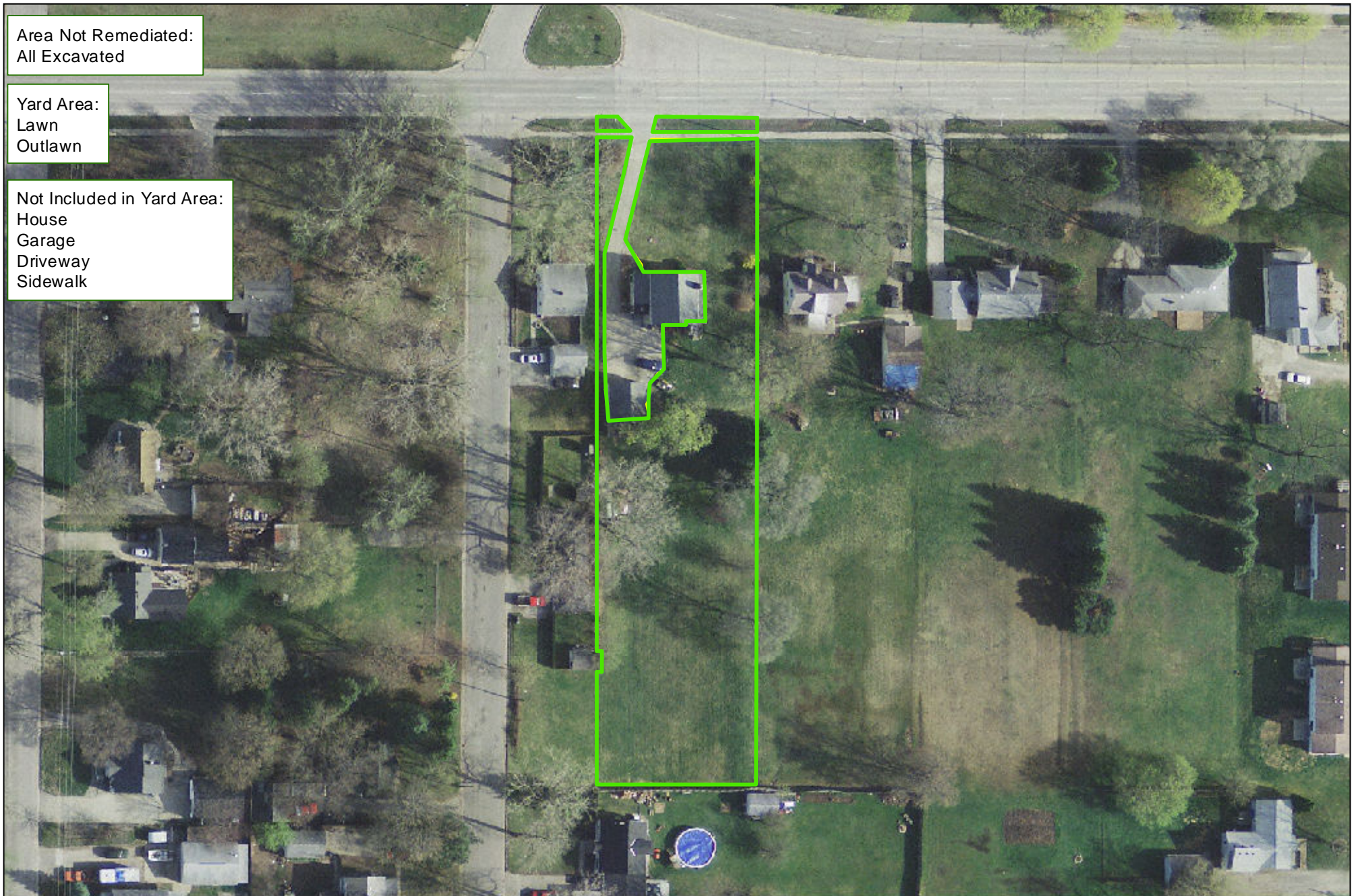
Gratings, and Frames of Construction Debris, Dirt,

and Trash.....Yes ☒ No ☐ N/A ☐

Area Not Remediated:
All Excavated

Yard Area:
Lawn
Outlawn

Not Included in Yard Area:
House
Garage
Driveway
Sidewalk



MIDLAND RESOLUTION

LEGEND

Remediated Area
Property

Total Yard Area:
35336 sq. ft.

Area Excavated:
35336 sq. ft.

Total Area Not Excavated:
0 sq. ft.



0 40 80 160 Feet

Parcel 14-23-60-052
Midland Resolution Soil Replacements

Dow Midland Soils Remedy Worksheet

Site Address: 2304 Bay City Rd.

Parcel: 14-23-60-052

Date: 4-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)

35336

Area of yard (ft²) (area as sampled)

0

Area not remedied (ft²)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

5.36E-06

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

NO REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Thomas & Dorothy Famularo	Property Address: 2304 Bay City Rd.
Contract Personnel: <ul style="list-style-type: none">• Kappen Tree Service• Servinski• Fisher• Pats	Contractor Equipment: <ul style="list-style-type: none">• Kappen: Bucket Truck, Boom Crane, Chipper, Log Truck• Servinski: Excavator, Bobcats, Dozer• Fisher: Hand Tools• Pats: Trucks
Field Person: Gary Waugh	Date: 6/24/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 27,723	Yards In: 0	Yards Out: 339 *See Below
Description of Cut Depth: All soils removed today within the remediation area were excavated to an average depth of 12 inches		
Verification Method:	Laser level used to verify cut depth	Date Verified/Initial: 6/24/13 GW/CT
Describe soils remaining: No remaining soils.		

DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Began removing the select trees. Wood chips and logs were hauled to the Allied staging area.

Servinski/Fisher: Began the soils dig out starting in the front yard area along Bay City Rd., the soil was moved to the rear yard where the trucks were loaded. A temporary haul road was built using wood chips. Catch basin filters were checked and found to be in place and good condition. At the end of the work day silt fence was installed at the curb line along Bay City Rd and the site was cleaned up and barricades placed.

* Yard Out:

330yds – Soil relocated to (Salzburg Landfill MAS Stockpile Area)

Gary Waugh

6/24/13

Field Representative Signature

Date

Weather: Partly cloudy, 70 – 88, Breezy

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Thomas & Dorothy Famularo	Property Address: 2304 Bay City Rd.
Contract Personnel: <ul style="list-style-type: none">• Kappen Tree Service• Servinski• Fisher• Pats	Contractor Equipment: <ul style="list-style-type: none">• Kappen: Bucket Truck, Boom Crane, Chipper, Log Truck• Servinski: Excavator, Bobcats, Dozer• Fisher: Hand Tools• Pats: Trucks
Field Person: Gary Waugh	Date: 6/25/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 27,723	Yards In: 330 * See Below	Yards Out: 450 *See Below
Description of Cut Depth: All soils removed today within the remediation area were excavated to an average depth of 12 inches		
Verification Method:	Laser level used to verify cut depth	Date Verified/Initial: 6/25/13 GW/CT
Describe soils remaining: No remaining soils.		

DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Continued removing the select trees. Wood chips and logs were hauled to the Allied staging area.

Servinski/Fisher: Continued the soils dig out. Some topsoil was imported, placed and graded. The street sweeper cleaned along Walter court as needed. Water was applied to the soil during the load out to control dust. Wood chips were added to the haul road as needed. Catch basin filter were in good order. At the end of the work day silt fence was installed at the curb line along Bay City Rd. The site was cleaned up and barricades placed.

* Yard Out:

450yds – Soil relocated to (Salzburg Landfill MAS Stockpile Area)

* Yard In:

330yds - Topsoil

Gary Waugh

6/25/13

Field Representative Signature

Date

Weather: Partly cloudy, 70 – 85, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Thomas & Dorothy Famularo	Property Address: 2304 Bay City Rd.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Bobcats, Dozer• Fisher: Hand Tools• Pats: Trucks
Field Person: Gary Waugh	Date: 6/26/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 27,723	Yards In: 861 * See Below	Yards Out: 717 *See Below
Description of Cut Depth: All soils removed today within the remediation area were excavated to an average depth of 12 inches		
Verification Method:	Laser level used to verify cut depth	Date Verified/Initial: 6/26/13 SM/CT
Describe soils remaining: No remaining soils.		

DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Continued the soils dig out and topsoil was imported, placed and graded. Water was applied to the soil during load out to control dust. Street sweeper in use as needed. Catch basin filters and silt fence in place and good condition. At the end of the work day the site was cleaned up and necessary barricades placed.

*** Yard Out:**

717yds – Soil relocated to (Salzburg Landfill MAS Stockpile Area)

*** Yard In:**

861yds - Topsoil

Gary Waugh

6/26/13

Field Representative Signature

Date

Weather: Clear, 66 – 87, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Thomas & Dorothy Famularo	Property Address: 2304 Bay City Rd.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Bobcats, Dozer• Fisher: Hand Tools• Pats: Trucks
Field Person: Gary Waugh	Date: 6/27/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 27,723	Yards In: 346 * See Below	Yards Out: 561 *See Below
Description of Cut Depth: All soils removed today within the remediation area were excavated to an average depth of 12 inches		
Verification Method:	Laser level used to verify cut depth	Date Verified/Initial: 6/27/13 SM/CT
Describe soils remaining: No remaining soils.		

DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Continued the soils dig out and topsoil was imported, placed and graded. The street sweeper was in use as needed. Landscape beds were defined and edging was installed. Trees and shrubs were planted and drainage stone and mulch placed. Catch basin filters and silt fence was in place and good condition. At the end of the work day the site was cleaned up and barricades placed.

*** Yard Out:**

561yds – Soil relocated to (Salzburg Landfill MAS Stockpile Area)

*** Yard In:**

30yds – Topsoil

26yds – Stone Mix

15yds – Red Mulch

55yds – Drainage Stone

Gary Waugh

6/27/13

Field Representative Signature

Date

Weather: Cloudy PM Rain, 68 – 84, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Thomas & Dorothy Famularo	Property Address: 2304 Bay City Rd.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Bobcats, Dozer• Fisher: Hand Tools• Pats: Trucks
Field Person: Scott Madill	Date: 6/28/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 27,723	Yards In: 15 * See Below	Yards Out: 0 *See Below
Description of Cut Depth: All soils removed today within the remediation area were excavated to an average depth of 12 inches		
Verification Method:	Laser level used to verify cut depth	Date Verified/Initial: 6/27/13 SM/CT
Describe soils remaining: No remaining soils.		

DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Only minimal work was performed today. Of and on rain occurred trough out the day. Approximately 1.5 inches of rain fell from last night into today. No run off or erosion was observed. The catch basin filters were cleaned several times throughout the day due to leaves and debris causing them to clog. Trees and shrubs were planted and drainage stone placed. The silt fence was checked and found to be in place and good condition.

* Yard In:

15yds – Topsoil

20yds – Drainage Stone

Gary Waugh

6/28/13

Field Representative Signature

Date

Weather: Cloudy Rain, 68 – 77, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Thomas & Dorothy Famularo	Property Address: 2304 Bay City Rd.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats• Kokaly	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Bobcats, Dozer• Fisher: Hand Tools• Pats: Trucks• Kokaly: Hand Tools
Field Person: Scott Madill	Date: 7/1/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 27,723	Yards In: 150 * See Below	Yards Out: 0 *See Below
Description of Cut Depth: All soils removed today within the remediation area were excavated to an average depth of 12 inches		
Verification Method:	Laser level used to verify cut depth	Date Verified/Initial: 6/27/13 SM/CT
Describe soils remaining: No remaining soils.		

DESCRIPTION OF FIELD ACTIVITIES:

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

Servinski/Fisher: The site was inspected yesterday 6/29/13. No erosion was observed, catch basin filters were in good condition and silt fence was in place. Servinski and Fisher completed importing and placing the topsoil today. Final grading of the topsoil and finish hand raking was performed. Sod was placed in the front and only to the rear of the garage in the back yard. Hydro seed was applied to the remaining rear yard. A final site cleanup was performed. 2304 Bay City Rd is complete pending a final walk through with the property owner.

* Yard In:
120yds – Topsoil
30yds – Sand

Gary Waugh

7/1/13

Field Representative Signature

Date

Weather: Clear, 60 – 75, light winds

Green Remediation Assurance Form
Midland Resolution

Property Information

Property Owner: Tom & Dorothy Famularo

Contract Personnel: Pat's Trucking, Servinski

Property Address: 2304 Bay City Rd.

Field Person: Gary Waugh

Date: 6/27/2013

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 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 Excavated:
All Excavated

Yard Area:
Lawn
Outlawn
Sidewalk
Concrete Slab
Gravel Driveway

Not Included in Yard Area:
House



Excavated and Replaced
Gravel Driveway

Excavated and removed concrete slab



MIDLAND RESOLUTION

LEGEND

-  Remediated Area
-  Property

Total Yard Area:
4829 sq. ft.

Area Excavated:
4829 sq. ft.

Total Area Not Excavated:
0 sq. ft.



0 15 30 60 Feet

Parcel 14-15-50-120
Midland Resolution Soil Replacement

Dow Midland Soils Remedy Worksheet

Site Address: 1312 Bayliss Street

Parcel: 14-15-50-120

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)

4829

Area of yard (ft²) (area as sampled)

0

Area not remedied (ft²)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

5.60E-06

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

NO REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Gary & Becky Dunham	Property Address: 1312 Bayliss St.
Contract Personnel: <ul style="list-style-type: none">• Kappen Tree Service – 7/15/13• Servinski• Fisher• Pats	Contractor Equipment: <ul style="list-style-type: none">• Kappen: Bucket Truck, Chipper, Log Truck• Servinski: Excavator, Bobcat• Fisher: Hand Tools• Pats: Truck
Field Person: Gary Waugh	Date: 7/16/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4506	Yards In: 30 * See Below	Yards Out: 75 * 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:	Verified cut depth by measuring along excavation line	Date Verified/Initial: 7/16/13 GW SS
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was on site 7/15/13 and removed one tree from the out lawn area. Wood chips and logs were hauled to the Allied staging area.

Servinski/Fisher: Began the soils dig out starting at the rear of the property. Trucks were backed up the existing gravel driveway and direct loaded. Some topsoil was imported placed and graded. No catch basins are within 100ft of the property, so filters are not needed. Soils in the front yard near the street have not been disturbed as of today. Silt fence not installed at this time. The street sweeper cleaned along Bayliss Street throughout the day.

* Yard Out:

75yrds – Soil relocated to (Dow – Poseyville Landfill MAS Stockpile Area)

* Yards In:

30yrds - Topsoil

Gary Waugh

7/16/13

Field Representative Signature

Date

Weather: Partly cloudy, 76 – 92, light winds

**CONSTRUCTION QUALITY ASSURANCE FORM
MIDLAND RESOLUTION CENTER**

DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:

Gary Waugh

7/17/13

Field Representative Signature

Date

Weather: Clear, 76 – 94, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Gary & Becky Dunham Contract Personnel: <ul style="list-style-type: none"> Servinski Fisher Pats Sugar Construction Kokaly 	Property Address: 1312 Bayliss St. Contractor Equipment: <ul style="list-style-type: none"> Servinski: Excavator, Bobcat Fisher: Hand Tools Pats: Truck Sugar: Hand Tools Kokaly: Hand Tools
Field Person: Gary Waugh	Date: 7/18/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4506	Yards In: 55 * See Below	Yards Out: 15 * 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:	Verified cut depth by measuring along excavation line	Date Verified/Initial: 7/17/13 GW SS
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Kokaly: Was onsite today and installed the irrigation system piping, low voltage wiring and valves and sprinkler heads. A function check was performed. Final adjustments will be made once the sod is in place.

Sugar Construction: Formed and poured the concrete for a section of city sidewalk 4ft x 30ft and the driveway approach 10ft x 12ft.

Servinski/Fisher: Completed importing, placing and grading the topsoil. The landscape beds were laid out and edging was installed. Shrubs and flowers were planted. The street sweeper cleaned along Bayliss Street throughout the day. At the end of the work day silt fence was reinstalled at the curb line along Bayliss.

*** Yard Out:**

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

*** Yards In:**

45yds – Topsoil

10yds – Stone Mix (Driveway)

**CONSTRUCTION QUALITY ASSURANCE FORM
MIDLAND RESOLUTION CENTER**

DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:

Gary Waugh

7/18/13

Field Representative Signature

Date

Weather: Clear, 75 – 93, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Gary & Becky Dunham	Property Address: 1312 Bayliss St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Bobcat• Fisher: Hand Tools
Field Person: Gary Waugh	Date: 7/19/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4506	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:	Verified cut depth by measuring along excavation line	Date Verified/Initial: 7/17/13 GW SS
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: The topsoil was final prepped and hand raked. Drainage stone and hardwood mulch were placed in the appropriate landscape bed. Sod was placed and trimmed. Final adjustments were made to the irrigations system and put into service. 1312 Bayliss is complete pending a walk through with the property owner.

* Yards In;
4yds – Drainage Stone
2yds – Hardwood Mulch

Gary Waugh

7/19/13

Field Representative Signature

Date

Weather: Clear, 81 – 93, windy

Green Remediation Assurance Form
Midland Resolution

Property Information

Property Owner: Gary & Becky Dunham Contract Personnel: Pat's Trucking, Servinski

Property Address: 1312 Bayliss St.

Field Person: Gary Waugh

Date: 7/17/2013

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
Sidewalk

Not in Yard:
House
Garage
Driveway
Approach



MIDLAND RESOLUTION

LEGEND

- Remediated Area
- Property

Total Yard Area:
3697 sq. ft.

Area Excavated:
3697 sq. ft.

Total Area Not Excavated:
0 sq. ft.



0 15 30 60 Feet

Parcel 14-15-50-118
Midland Resolution Soil Replacement

Dow Midland Soils Remedy Worksheet

Site Address: 1314 Bayliss Street

Parcel: 14-15-50-118

Date: 41582

Initial Soil Sample

294

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)

2.91998558 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:

294

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

3697

Area of yard (ft²) (area as sampled)

0

Area not remedied (ft²)

15

Surface Weighted Average (SWA) (ppt)

0

% Undisturbed Remaining Soil (URS)

5.50E-06

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

NO REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Ryan Ruszala	Property Address: 1314 Bayliss St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Bobcat• Fisher: Hand Tools• Pats: Trucks
Field Person: Gary Waugh	Date: 7/15/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 3675	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:	Measured cut depth along excavation line	Date Verified/Initial: 7/15/13 GW SS
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Began the soils dig out. The soils were direct loaded into the trucks. This method is preferred and found to be most efficient and helps to minimize dust issues. Catch basin filters were not necessary – no catch basins within 100ft of the property. The street sweeper periodically cleaned along Bayliss throughout the day. At the end of the work day silt fence was installed at the curb line along Bayliss St.

*Yards Out:

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

45yds – Concrete, debris and soil hauled to (Midland City Landfill) for disposal

Gary Waugh

7/15/13

Field Representative Signature

Date

Weather: Clear, 70 – 92, Light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Ryan Ruszala	Property Address: 1314 Bayliss St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Bobcat• Fisher: Hand Tools• Pats: Trucks
Field Person: Gary Waugh	Date: 7/16/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 3675	Yards In: 30 * 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 cut depth along excavation line	Date Verified/Initial: 7/16/13 GW SS
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Continued the soils dig out. Some topsoil was imported placed and graded. The street sweeper periodically cleaned along Bayliss throughout the day. At the end of the work day silt fence was reinstalled at the curb line along Bayliss St.

*Yards Out:

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

* Yards In:

30yds - Topsoil

Gary Waugh

7/16/13

Field Representative Signature

Date

Weather: Partly cloudy, 76 – 92, Light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Ryan Ruszala	Property Address: 1314 Bayliss St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats• Reliable Plumbing• Sugar Construction	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Bobcat• Fisher: Hand Tools• Pats: Trucks• Reliable: Hand Tools• Sugar: Hand Tools
Field Person: Gary Waugh	Date: 7/17/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 3675	Yards In: 165 * See Below	Yards Out: 75 * 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 along excavation line	Date Verified/Initial: 7/17/13 GW SS
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Reliable Plumbing: Was onsite and installed the backflow preventer and necessary plumbing needed to accommodate the irrigations system.

Sugar Construction: Formed and poured the concrete for the replacement rear service sidewalk 9ft x 21ft and the front service walk 4ft x 27ft.

Servinski/Fisher: Completed the soils dig out and importing and placing topsoil. The street sweeper periodically cleaned along Bayliss throughout the day. At the end of the work day silt fence was reinstalled at the curb line along Bayliss St.

*Yards Out:

75yds – Soil relocated to (Dow – Poseyville Landfill MAS Stockpile Area)

* Yards In:

165yds - Topsoil

Gary Waugh

7/17/13

Field Representative Signature

Date

Weather: Clear, 76 – 94, Light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Ryan Ruzala	Property Address: 1314 Bayliss St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Sugar Construction• Kokaly	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Bobcat• Fisher: Hand Tools• Sugar: Hand Tools• Kokaly
Field Person: Gary Waugh	Date: 7/18/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 3675	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:	Measured cut depth along excavation line	Date Verified/Initial: 7/17/13 GW SS
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Kokaly: Onsite today and installed the irrigation piping, low voltage wiring, valves and sprinkler heads. A function check was performed. Final adjustments will be made once the sod is in place.

Sugar Construction: Formed and poured the concrete for a replacement section of city sidewalk 4ft x 30ft.

Servinski/Fisher: Final graded and prepped the topsoil. Landscape beds were laid out and edging installed. Shrubs and flowers were planted. The street sweeper periodically cleaned along Bayliss throughout the day. At the end of the work day silt fence was reinstalled at the curb line along Bayliss St.

Gary Waugh

7/18/13

Field Representative Signature

Date

Weather: Clear, 76 – 93, Light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Ryan Ruszala	Property Address: 1314 Bayliss St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Sugar Construction• Kokaly	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Bobcat• Fisher: Hand Tools• Sugar: Hand Tools• Kokaly
Field Person: Gary Waugh	Date: 7/19/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 3675	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:	Measured cut depth along excavation line	Date Verified/Initial: 7/17/13 GW SS
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: The topsoil was had raked. Drainage stone and hardwood mulch were placed in the appropriate landscape bed. Sod was placed and trimmed. The irrigation system was turned on and final adjustment made. A final site cleanup was performed. Silt fence was removed. 1314 Bayliss is complete pending a walk through with the property owner.

* Yards In:

6yds – Drainage Stone

7yds – Hardwood Mulch

Gary Waugh

7/19/13

Field Representative Signature

Date

Weather: Clear, 81 – 93, Windy

Green Remediation Assurance Form
Midland Resolution

Property Information

Property Owner: Ryan Ruszala Contract Personnel: Pat's Trucking, Servinski

Property Address: 1314 Bayliss St.

Field Person: Gary Waugh

Date: 7/18/2013

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 ☐



Area Not Remediated:
All Excavated

Yard Area:
Lawn
Outlawn
Gravel Driveway

Not Included in Yard Area:
House
Approach
Sidewalk

Excavated and Replaced Front Walkway
(Damaged during construction)

Excavated and Replaced Gravel Driveway



MIDLAND RESOLUTION

LEGEND

- Remediated Area
- Property

Total Yard Area:
5930 sq. ft.

Area Excavated:
5930 sq. ft.

Total Area Not Excavated:
0 sq. ft.



0 15 30 60 Feet

Parcel 14-16-40-140
Midland Resolution Soil Replacement

Dow Midland Soils Remedy Worksheet

Site Address: 1009 E. Carpenter St.

Parcel: 14-16-40-140

Date: 6-Nov-13

Initial Soil Sample

341

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:

341

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

5930

Area of yard (ft²) (area as sampled)

0

Area not remedied (ft²)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

6.33E-06

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

NO REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Patricia Hackett	Property Address: 1009 Carpenter St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats• M & M• Kappen Tree Service – 5/23/13	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Bobcat, Excavator• Fisher: Hand Tools• Pats: Trucks• M & M: Stump Grinder• Kappen: Bucket Truck, Chipper, Log Truck, Stinger
Field Person: Gary Waugh	Date: 5/28/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6243	Yards In: 0	Yards Out: 42 * See Below
Description of Cut Depth: All soils within the remediation area square footage were removed to an average depth of 12 inches except around several small shrubs that were left in place. These soils were removed to a depth of 2 inches in a 2ft radius around the shrubs.		
Verification Method:	Laser level used to verify cut depth	Date Verified/Initial: GW/PH 5/28/13
Describe soils remaining: All soils removed. See above.		

DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Onsite 5/23/13 and removed the select trees. Wood chips and logs were hauled to the Allied staging area.

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

Servinski/Fisher: Began the soils dig out. Heavy rain began around noon. Work stopped for the day.

* Yards Out:

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

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

Gary Waugh

5/28/13

Field Representative Signature

Date

Weather: Cloudy, PM rain, 50 – 70, windy.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Patricia Hackett	Property Address: 1009 Carpenter St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Bobcat, Excavator• Fisher: Hand Tools• Pats: Trucks
Field Person: Gary Waugh	Date: 5/29/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6243	Yards In: 150 * See Below	Yards Out: 165 * See Below
Description of Cut Depth: All soils within the remediation area square footage were removed to an average depth of 12 inches except around several small shrubs that were left in place. These soils were removed to a depth of 2 inches in a 2ft radius around the shrubs.		
Verification Method:	Laser level used to verify cut depth	Date Verified/Initial: GW/PH 5/29/13
Describe soils remaining: All soils removed. See above.		

DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Continued the soils dig out and began importing and placing topsoil. Silt fence was installed at the curb line along Carpenter St.

* Yards Out:

165yds – Soil relocated to (Salzburg Landfill MAS Stockpile Area)

* Yards In:

150yds - Topsoil

Gary Waugh

5/29/13

Field Representative Signature

Date

Weather: Cloudy with rain showers, 62 – 82, light winds.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Patricia Hackett Contract Personnel: <ul style="list-style-type: none"> Servinski Fisher Pats Reliable Plumbing Sugar Construction 	Property Address: 1009 Carpenter St. Contractor Equipment: <ul style="list-style-type: none"> Servinski: Bobcat, Excavator Fisher: Hand Tools Pats: Trucks Reliable: Hand Tools Sugar: Hand Tools
Field Person: Gary Waugh	Date: 5/30/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6243	Yards In: 75 * See Below	Yards Out: 65 * See Below
Description of Cut Depth: All soils within the remediation area square footage were removed to an average depth of 12 inches except around several small shrubs that were left in place. These soils were removed to a depth of 2 inches in a 2ft radius around the shrubs.		
Verification Method:	Laser level used to verify cut depth	Date Verified/Initial: GW/PH 5/29/13
Describe soils remaining: All soils removed. See above.		

DESCRIPTION OF FIELD ACTIVITIES:

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

Sugar Construction: Formed the driveway and prepared the sub grade. Concrete is scheduled for 5/31/13.

Servinski/Fisher: Completed the soils dig out and importing and placing topsoil. Heavy rain began around 3 pm, silt fence was installed at the curb line along Carpenter St. Work stopped for the day.

* Yards Out:

65yds – Soil relocated to (Salzburg Landfill MAS Stockpile Area)

* Yards In:

15yds – Topsoil

60yds – Sand – Driveway sub grade

**CONSTRUCTION QUALITY ASSURANCE FORM
MIDLAND RESOLUTION CENTER**

DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:

Gary Waugh

5/30/13

Field Representative Signature

Date

Weather: Cloudy, PM rain 68 – 85, light winds.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Patricia Hackett	Property Address: 1009 Carpenter St.
Contract Personnel: <ul style="list-style-type: none">• Sugar Construction• Servinski• Fisher	Contractor Equipment: <ul style="list-style-type: none">• Sugar: Hand Tools• Servinski: Excavator• Fisher: Hand Tools
Field Person: Gary Waugh	Date: 5/31/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6243	Yards In: 0	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 except around several small shrubs that were left in place. These soils were removed to a depth of 2 inches in a 2ft radius around the shrubs.		
Verification Method:	Laser level used to verify cut depth	Date Verified/Initial: GW/PH 5/29/13
Describe soils remaining: All soils removed. See above.		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the concrete for the driveway, rear patio, service sidewalk, section of city sidewalk and drive approach.

Servinski/Fisher: Assisted the Sugar Construction crew, removing existing concrete sidewalks and drive approach. Silt fence was reinstalled at the curb line along Carpenter St.

* Yards Out:

30yrds – Concrete and soil hauled to (Midland City Landfill) for disposal.

* Yards In:

6yrds – Sand – Sidewalk sub grade

Gary Waugh

Field Representative Signature

5/31/13

Date

Weather: Partly cloudy, 68 – 80, light winds.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Patricia Hackett	Property Address: 1009 Carpenter St.
Contract Personnel: <ul style="list-style-type: none">• Sugar Construction• Servinski• Fisher• Kokaly	Contractor Equipment: <ul style="list-style-type: none">• Sugar: Hand Tools• Servinski: Excavator• Fisher: Hand Tools• Kokaly: Hand Tools
Field Person: Gary Waugh	Date: 6/3/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6243	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 except around several small shrubs that were left in place. These soils were removed to a depth of 2 inches in a 2ft radius around the shrubs.		
Verification Method:	Laser level used to verify cut depth	Date Verified/Initial: GW/PH 5/29/13
Describe soils remaining: All soils removed. See above.		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Reinstalled chain link fencing in the back yard area.

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

Servinski/Fisher: Final grading of the topsoil, landscape beds defined, edging installed, drainage stone and hardwood mulch placed and trees and shrubs planted. Sod placed and trimmed. 1009 Carpenter is complete pending a final walk through with the home owner.

* Yards In:

15yds – Topsoil

6yds – Drainage Stone

14yds – Hardwood Mulch

Gary Waugh

Field Representative Signature

6/3/13

Date

Weather: Clear, 40 – 65, light winds.

Green Remediation Assurance Form

Midland Resolution

Property Information

Property Owner: Patricia Hackett

Contract Personnel: Pat's Trucking, Servinski

Property Address: 1009 Carpenter St.

Field Person: Gary Waugh

Date: 5/31/2013

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:
6407 sq. ft.

Area Excavated:
6371 sq. ft.

Total Area Not Excavated:
36 sq. ft.



0 15 30 60 Feet

Parcel 14-16-40-262

Midland Resolution Soil Replacement

Dow Midland Soils Remedy Worksheet

Site Address: 803 E. Carpenter St.

Parcel: 14-16-40-262

Date: 6-Nov-13

Initial Soil Sample

450

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:

450

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

6407

Area of yard (ft²) (area as sampled)

36

Area not remedied (ft²)

17

Surface Weighted Average (SWA) (ppt)

1%

% Undisturbed Remaining Soil (URS)

8.30E-06

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

NO REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Bruce & Farcine Pynnonen	Property Address: 803 Carpenter St.
Contract Personnel: <ul style="list-style-type: none">• Kappen Tree Service• Servinski• Fisher• Pats	Contractor Equipment: <ul style="list-style-type: none">• Kappen: Bucket Truck, Chipper, Log Truck• Servinski: Excavator, Bobcats• Fisher: Hand Tools• Pats: Trucks
Field Person: Gary Waugh	Date: 8/20/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6174	Yards In: 0	Yards Out: 60 * 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: 8/20/13
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: On site today and removed the select trees. Wood chips and tree logs were hauled to the Allied staging area.

Servinski\Fisher: The crew began the soils dig out starting on the east side of the property between the house and existing chain link fence. Due to limited access, this area had to be excavated by hand digging and moving the soil by wheel barrows. Once the crew completed the hand digging typical excavation methods resumed using an excavator and bobcats. Filters were installed in the catch basins within 100ft of the property. Silt fence was also installed at the curb lines along Carpenter and State Streets. Water was applied as necessary to the soils during excavation and load out to control dust. The street sweeper cleaned along State St as needed throughout the day.

* Yards Out:

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

45yds – Soil relocated to (Dow MIOPS Poseyville Landfill MAS Stockpile Area)

Gary Waugh

8/20/13

Field Representative Signature

Date

Weather: Clear, 62 – 85, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Bruce & Farcine Pynnonen	Property Address: 803 Carpenter St.
Contract Personnel: <ul style="list-style-type: none"> Servinski Fisher Pats Sugar Construction Reliable Plumbing 	Contractor Equipment: <ul style="list-style-type: none"> Servinski: Excavator, Bobcats Fisher: Hand Tools Pats: Trucks Sugar: Hand Tools Reliable: Hand Tools
Field Person: Gary Waugh	Date: 8/21/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6174	Yards In: 55 * See Below	Yards Out: 285 * 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: 8/21/13
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

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

Sugar Construction: Formed and poured the new rear sidewalk 7ft x 27ft and a portion of the new driveway 20ft x 27ft.

Servinski\Fisher: The crew completed the soils dig out and began importing and placing topsoil. The crew also assisted Sugar Construction placing and grading sand for the new driveway sub grade. Catch basin filters and silt fence were checked and found in good condition. Water was applied as necessary to the soils during excavation and load out to control dust. The street sweeper cleaned along State St as needed throughout the day.

* Yards Out:

285yds – Soil relocated to (Dow MIOPS Poseyville Landfill MAS Stockpile Area)

* Yard In:

40yds – Sand (Driveway/sidewalk sub grade)

15yds - Topsoil

**CONSTRUCTION QUALITY ASSURANCE FORM
MIDLAND RESOLUTION CENTER**

DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:

Gary Waugh

8/21/13

Field Representative Signature

Date

Weather: Clear, 68 – 90, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Bruce & Farcine Pynnonen	Property Address: 803 Carpenter St.
Contract Personnel: <ul style="list-style-type: none"> Servinski Fisher Pats Sugar Construction 	Contractor Equipment: <ul style="list-style-type: none"> Servinski: Bobcats Fisher: Hand Tools Pats: Trucks Sugar: Hand Tools
Field Person: Gary Waugh	Date: 8/22/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6174	Yards In: 179 * 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: 8/21/13
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Formed and poured the remaining section of driveway 10ft x 48ft.

Servinski\Fisher: The crew completed importing, placing and grading topsoil. Landscape beds were defined and edging was installed. Shrubs, trees and flowers were planted and drainage stone and hardwood mulch were placed in the appropriate bed. The crew also assisted Sugar Construction placing and grading sand for the new driveway sub grade. Catch basin filters and silt fence were checked and found in good condition. Water was applied as necessary to the soils during excavation and load out to control dust. The street sweeper cleaned along State St as needed throughout the day.

* Yard In:

- 165yds – Topsoil
- 7yds – Drainage Stone (landscape beds)
- 4yds – Hardwood Mulch (landscape beds)
- 3yds – Stone Mix (rear of garage)

Gary Waugh

8/22/13

Field Representative Signature

Date

Weather: Clear, 65 – 82, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Bruce & Farcine Pynnonen	Property Address: 803 Carpenter St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Sugar Construction• Kokaly	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Bobcats• Fisher: Hand Tools• Sugar: Hand Tools• Kokaly: Hand Tools
Field Person: Gary Waugh	Date: 8/23/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6174	Yards In: 179 * 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: 8/21/13
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. The crew also performed a function check of the system.

Sugar Construction: Formed and poured a section of city sidewalk 4ft x 36ft.

Servinski\Fisher: The crew final prepped and hand raked the topsoil. Sod was placed and trimmed. The irrigation system was turned on and adjustments were made as needed. Due to excessive dry conditions additional water was applied to the sod using a hydro seeder. A final site cleanup was performed and catch basin filters and the silt fence were removed. 803 Carpenter is complete pending a walk through with the property owner.

Gary Waugh

8/23/13

Field Representative Signature

Date

Weather: Clear, 55 – 75, light winds

Green Remediation Assurance Form
Midland Resolution

Property Information

Property Owner: Bruce Pynnonen
Property Address: 803 Carpenter
Field Person: Gary Waugh

Contract Personnel: Pat's Trucking, Servinski

Date: 8/22/2013

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:
9271 sq. ft.

Area Excavated:
9271 sq. ft.

Total Area Not Excavated:
0 sq. ft.



0 15 30 60 Feet

Parcel 14-16-40-268
Midland Resolution Soil Replacement

Dow Midland Soils Remedy Worksheet

Site Address: 815 E. Carpenter St.

Parcel: 14-16-40-268

Date: 4-Nov-13

Initial Soil Sample

353

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:

353

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

9271

Area of yard (ft²) (area as sampled)

0

Area not remedied (ft²)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

6.54E-06

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

NO REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Jeff Kohtz	Property Address: 815 Carpenter
Contract Personnel: <ul style="list-style-type: none"> Kappen Tree Service 5/3/13 & 5/6/13 M & M Servinski Fisher Pats Reliable Plumbing 	Contractor Equipment: <ul style="list-style-type: none"> Kappen: Bucket Truck, Boom Crane, Log Truck, Chipper, Stinger M & M: Stump Grinder Servinski: Excavator, Bobcats, Mini Excavator Fisher: Hand Tools Pats: Trucks Reliable: Hand Tools
Field Person: Gary Waugh	Date: 5/7/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 9117	Yards In: 195 *See Below	Yards Out: 490 *See Below
Description of Cut Depth: All soils within the remediation area square footage were removed. The majority of the soils were excavated to an average depth of 12 inches. An area ~ 9ft x 20ft between the garage and the house, this area was excavated to a depth of 6 inches due to an overhanging roof which limited access and that the area will be restored with poured concrete. Also several trees that exist in the out lawn areas, the soils around the trees within a 3ft radius were only excavated to a depth of 3 inches to eliminate damage to the tree roots.		
Verification Method:	Laser level used to check cut depths	Date Verified/Initial: GW/SS 5/7/13
Describe soils remaining: All soils removed within the remediation area. See above.		

DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Onsite 5/3/13 and 5/16/13 and removed the selected trees from the property. All wood chips and logs were hauled to the Allied staging area.

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

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

Servinski/Fisher: Began and completed the majority of the dig out. Some topsoil was imported placed and rough graded. Gary Waugh and Steve Servinski checked cut depths as the excavation progressed. A laser level was used.

* Yards Out:

- 15yds – Concrete, debris and soil hauled to (Midland City Landfill) for disposal
- 270yds – Soil relocated to (Dow WIF 11th & 12th)
- 105yds – Soil relocated to (Salzburg Landfill MAS Soil Stockpile Area)

**CONSTRUCTION QUALITY ASSURANCE FORM
MIDLAND RESOLUTION CENTER**

DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:

* Yards In:
195yds – Topsoil

At the end of the day silt fence was installed at the curb lines along Carpenter and Mill Streets and both streets cleaned with the street sweeper.

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: Jeff Kohtz	Property Address: 815 Carpenter
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats• Sugar Construction	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Bobcats, Mini Excavator• Fisher: Hand Tools• Pats: Trucks• Sugar: Hand Tools
Field Person: Gary Waugh	Date: 5/8/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 9117	Yards In: 75 *See Below	Yards Out: 60 *See Below
Description of Cut Depth: See 5/7/13		
Verification Method:	See 5/7/13	Date Verified/Initial: GW/SS 5/7/13
Describe soils remaining: See 5/7/13		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the concrete for a 14ft x 17ft patio between the house and the garage and the replacement sidewalk between the city sidewalk and front porch, 8ft wide tapering to 4ft wide at the city sidewalk and 18ft long. The contractor also began forming the driveway and a section of sidewalk from the garage to the driveway.

Servinski/Fisher: Completed the dig out and importing topsoil. The topsoil was graded and prepped with the pre seeder. Landscape beds were laid out and edging installed.

*** Yards Out:**

60yds – Concrete, debris and soil hauled to (Midland City Landfill) for disposal

*** Yards In:**

60yds – Topsoil

15yds - Sand

At the end of the day silt fence was installed at the curb lines along Carpenter and Mill Streets and both streets cleaned with the street sweeper.

**CONSTRUCTION QUALITY ASSURANCE FORM
MIDLAND RESOLUTION CENTER**

DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:

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: Jeff Kohtz	Property Address: 815 Carpenter
Contract Personnel: <ul style="list-style-type: none"> Servinski Fisher Pats Sugar Construction 	Contractor Equipment: <ul style="list-style-type: none"> Servinski: Excavator, Bobcats, Mini Excavator Fisher: Hand Tools Pats: Trucks Sugar: Hand Tools
Field Person: Gary Waugh	Date: 5/9/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 9117	Yards In: 75 *See Below	Yards Out: 60 *See Below
Description of Cut Depth: <div style="text-align: center;">See 5/7/13</div>		
Verification Method:	See 5/7/13	Date Verified/Initial: GW/SS 5/7/13
Describe soils remaining: See 5/7/13		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the concrete for the driveway 16ft x 27ft and driveway approach 12ft x 16ft with flare and a sidewalk from the driveway to the garage entry door 3ft x 21ft. Several sections of city sidewalk remains to be poured, scheduled for 5/13/13.

Servinski/Fisher: Planted the shrubs, bushes and trees. Drainage stone and hardwood mulch placed in the selected landscape beds. Topsoil was final prepped, sod placed and trimmed. The irrigation system was turned on and sprinkler heads adjusted.

*** Yards Out:**

60yds – Concrete, debris and soil hauled to (Midland City Landfill) for disposal

*** Yards In:**

60yds – Topsoil

15yds – Sand

7yds – Drainage Stone

7yds – Hardwood Mulch

At the end of the day all the silt fence was removed and both Carpenter and Mill Streets were cleaned with the street sweeper.

**CONSTRUCTION QUALITY ASSURANCE FORM
MIDLAND RESOLUTION CENTER**

DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:

Gary Waugh

5/9/13

Field Representative Signature

Date

Weather: Partly cloudy, 55 – 74, light winds.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Jeff Kohtz	Property Address: 815 Carpenter
Contract Personnel:	Contractor Equipment:
Field Person: Gary Waugh	Date: 5/10/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 9117	Yards In: 0	Yards Out: 0
Description of Cut Depth: See 5/7/13		
Verification Method:	See 5/7/13	Date Verified/Initial: GW/SS 5/7/13
Describe soils remaining: See 5/7/13		

DESCRIPTION OF FIELD ACTIVITIES:

No remedy work performed today – Rain all day.

Gary Waugh

Field Representative Signature

5/10/13

Date

Weather: Rain, falling temps, 55 – 45, windy.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Jeff Kohtz	Property Address: 815 Carpenter
Contract Personnel: <ul style="list-style-type: none">Sugar Construction	Contractor Equipment: <ul style="list-style-type: none">Sugar: Hand Tools
Field Person: Gary Waugh	Date: 5/13/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 9117	Yards In: 0	Yards Out: 0
Description of Cut Depth: See 5/7/13		
Verification Method:	See 5/7/13	Date Verified/Initial: GW/SS 5/7/13
Describe soils remaining: See 5/7/13		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the city sidewalk sections, total 43LF x 4ft. 815 Carpenter is complete pending a final walk through with the property owner.

Gary Waugh

Field Representative Signature

5/13/13

Date

Weather: Partly cloudy, 32 – 55, windy.

Green Remediation Assurance Form
Midland Resolution

Property Information

Property Owner: Jeff Kohtz Contract Personnel: Pat's Trucking, Servinski

Property Address: 815 Carpenter 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:
7632 sq. ft.

Area Excavated:
7632 sq. ft.

Total Area Not Excavated:
0 sq. ft.



0 12.5 25 50 Feet

Parcel 14-16-40-626
Midland Resolution Soil Replacement

Dow Midland Soils Remedy Worksheet

Site Address: 916 E. Carpenter St.

Parcel: 14-16-40-626

Date: 6-Nov-13

Initial Soil Sample

265

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

240

Initial soil result (ppt)

253

Replicate result (ppt)

252

Replicate result (ppt)

248

Average (ppt)

7.2

Standard Deviation (ppt)

2.92

t (0.95, 2)

261

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:

261

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

7632

Area of yard (ft²) (area as sampled)

0

Area not remedied (ft²)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

4.92E-06

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

NO REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Nate Reed	Property Address: 916 Carpenter St.
Contract Personnel: <ul style="list-style-type: none">• Kappen Tree Service• Servinski• Fisher• Pats• Sugar Construction	Contractor Equipment: <ul style="list-style-type: none">• Kappen: Bucket Truck, Chipper, Log Truck• Servinski: Excavator, Bobcats• Fisher: Hand Tools• Pats: Trucks• Sugar: Hand Tools
Field Person: Gary Waugh	Date: 8/19/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6948	Yards In: 0	Yards Out: 158 * 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 depth of cut	Date Verified/Initial: 8/19/13 GW
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was onsite today and removed the select trees. All wood chips and logs were hauled to the Allied staging area.

Sugar Construction: Formed and poured the new rear sidewalk 4ft x 25ft from the house entrance door to the garage and driveway.

Servinski/Fisher: Began the soils dig out. An excavator was used to excavate the soils and direct load into trucks. Some hand digging was necessary along the south side of the house and the neighboring fence. The soils were moved using wheel barrows and a small utility dump cart. Filters were placed in the catch basins within 100ft of the property. Silt fence was installed at the curb lines along Carpenter & State Streets. Water was applied to the soils during excavation and load out to control dust. The street sweeper cleaned along Carpenter & State as needed throughout the day.

* Yards Out:

8yds – Concrete and debris were hauled to (Midland City Landfill) for disposal
150yds – Soil relocated to (Dow Poseyville Landfill MAS Stockpile Area)

Gary Waugh

8/19/13

Field Representative Signature

Date

Weather: Clear, 52 – 80, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Nate Reed	Property Address: 916 Carpenter St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats• Sugar Construction• Reliable Plumbing	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Bobcats• Fisher: Hand Tools• Pats: Trucks• Sugar: Hand Tools• Reliable: Hand Tools
Field Person: Gary Waugh	Date: 8/20/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6948	Yards In: 333 * See Below	Yards Out: 150 * 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 depth of cut	Date Verified/Initial: 8/20/13 GW
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

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

Sugar Construction: Formed and poured the new driveway 18ft x 54ft, a new section of city sidewalk 4ft x 48ft and the new front service walk 4ft x 13ft.

Servinski/Fisher: Completed the soils dig out. Topsoil was imported placed and graded. Catch basin filters and silt fence were checked and found to be in good condition. The street sweeper cleaned along Carpenter and State Streets as needed throughout the day.

* Yards Out:

150yds – Soil relocated to (Dow Poseyville Landfill MAS Stockpile Area)

* Yard In:

285yds – Topsoil

45yds – Sand – (Driveway sub grade)

3yds – Stone Mix

Gary Waugh

8/20/13

Field Representative Signature

Date

Weather: Clear, 62 – 85, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Nate Reed	Property Address: 916 Carpenter St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Kokaly	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Bobcats• Fisher: Hand Tools• Kokaly: Hand Tools
Field Person: Gary Waugh	Date: 8/20/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6948	Yards In: 17 * 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 depth of cut	Date Verified/Initial: 8/20/13 GW
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Kokaly: Installed the irrigation system piping, low voltage wiring, valves and sprinkler heads. A system function check was performed. After the sod was placed final adjustments were made to the system.

Servinski/Fisher: Final prepped and hand raked the topsoil. Landscape beds were laid out and edging was installed. Shrubs, tree and flowers were planted. Drainage stone and hardwood mulch were placed in the appropriate bed. Sod was placed and trimmed. Catch basin filters and the silt fence was removed. A final site cleanup was performed. 916 Carpenter is complete pending a walk through with the property owner.

* Yard In:

8yds – Drainage Stone

9yds – Hardwood Mulch

Gary Waugh

8/21/13

Field Representative Signature

Date

Weather: Clear, 68 – 90, light winds

Green Remediation Assurance Form
Midland Resolution

Property Information

Property Owner: Nate Reed

Contract Personnel: Pat's Trucking, Servinski

Property Address: 916 Carpenter

Field Person: Gary Waugh

Date: 8/20/2013

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 ☐

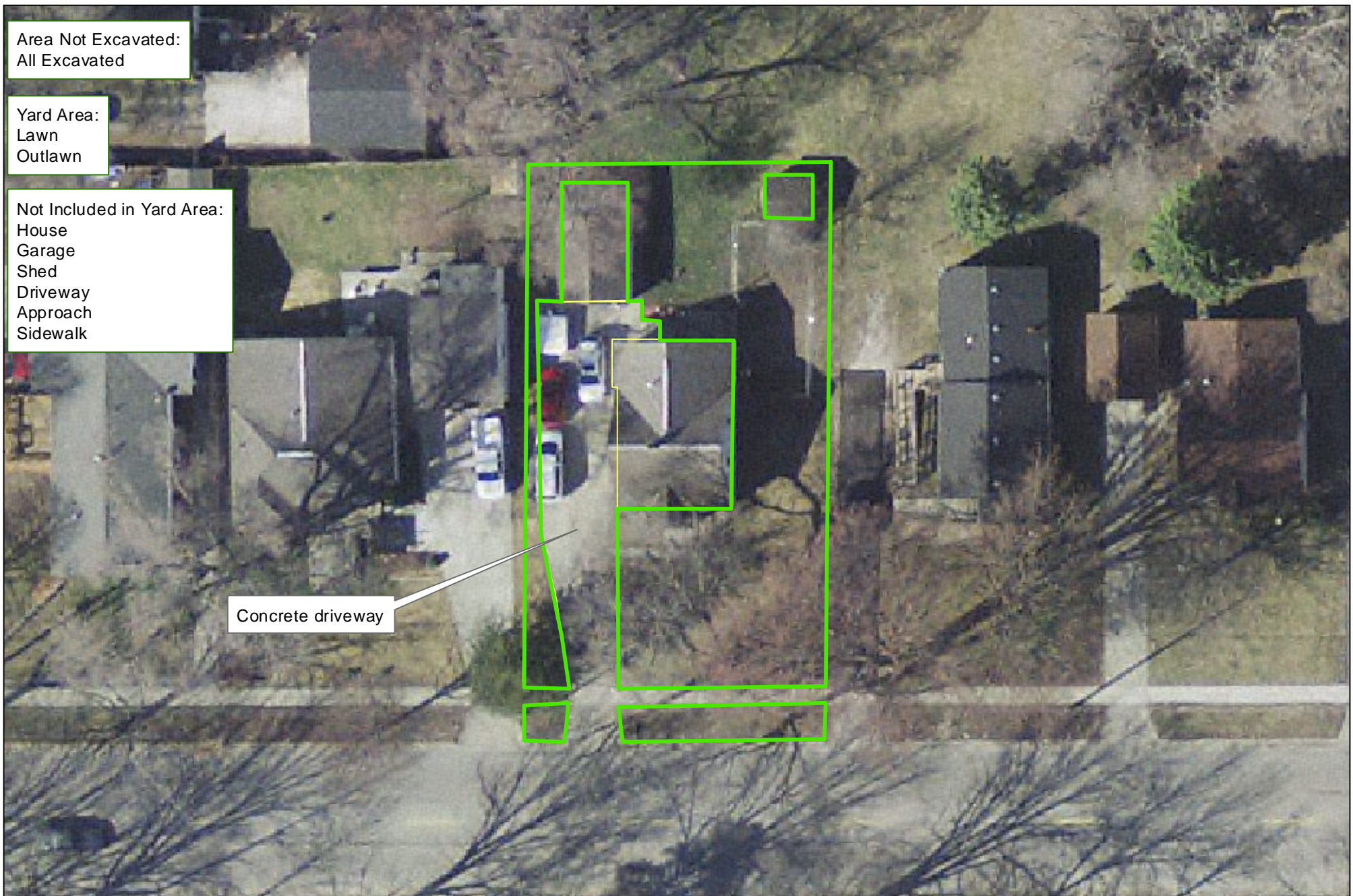
Reuse Existing Concrete Foundations When Possible...Yes ☐ No ☒ N/A ☐

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:
5854 sq. ft.

Area Excavated:
5854 sq. ft.

Total Area Not Excavated:
0 sq. ft.



0 15 30 60 Feet

Parcel 14-15-60-508
Midland Resolution Soil Replacement

Dow Midland Soils Remedy Worksheet

Site Address: 207 E Haley St.

Parcel: 14-15-60-508

Date: 5-Nov-13

Initial Soil Sample

323

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:

323

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

5854

Area of yard (ft²) (area as sampled)

0

Area not remedied (ft²)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

6.01E-06

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

NO REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: James & Julie Cherry	Property Address: 207 E. Haley St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Bobcats• Fisher: Hand Tools• Pats: Trucks
Field Person: Gary Waugh	Date: 10/21/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4410	Yards In: 195 *See Below	Yards Out: 240 * 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 excavation line	Date Verified/Initial: 10/21/13 GW SS
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: The crew began and completed the soils dig out. Topsoil was imported placed and rough graded. The crew also assisted Sugar Construction with forming the sidewalks. Silt fence and catch basin filters were in place and in good condition.

*** Yards Out:**

15yds – Concrete and debris were hauled to (Midland City Landfill) for disposal
240yds – Soil relocated to (Dow MIOPS Poseyville Landfill MAS Stockpile Area)

*** Yards In:**

195yds - Topsoil

Gary Waugh

10/21/13

Field Representative Signature

Date

Weather: Partly cloudy, 53 – 60, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: James & Julie Cherry	Property Address: 207 E. Haley St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Kokaly• Reliable Plumbing	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Bobcats• Fisher: Hand Tools• Kokaly: Hand Tools• Reliable: Hand Tools
Field Person: Gary Waugh	Date: 10/22/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4410	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:	Measured cut depth at excavation line	Date Verified/Initial: 10/21/13 GW SS
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Kokaly/Reliable Plumbing: Reliable installed the backflow preventer and the plumbing needed to supply the irrigation system. Kokaly installed the irrigation system piping, low voltage wiring and valves and sprinkler heads.

Sugar Construction: Poured the concrete for the new rear and front sidewalks.

Servinski/Fisher: The crew installed edging and planted the shrubs and flowers. Drainage stone was placed in the landscape beds and stone mix was placed around the rear of the garage for the property owner's future storage. Once the irrigation was installed the topsoil was final prepped and hand raked. Sod was placed and trimmed. A final site cleanup was performed. 207 E. Haley is complete pending a walk through with the property owner.

* Yards In:

13yds – Stone Mix

7yds – Drainage Stone

Gary Waugh

10/22/13

Field Representative Signature

Date

Weather: Partly cloudy, 33 – 49, light winds

Green Remediation Assurance Form
Midland Resolution

Property Information

Property Owner: James Cherry

Contract Personnel: Pat's Trucking, Servinski

Property Address: 207 E. Haley

Field Person: Gary Waugh

Date: 10/21/2013

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

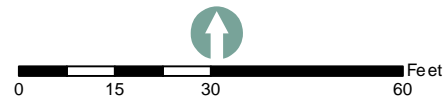
LEGEND

- Remediated Area
- Property

Total Yard Area:
7725 sq. ft.

Area Excavated:
7555 sq. ft.

Total Area Not Excavated:
170 sq. ft.



Parcel 14-15-50-032
Midland Resolution Soil Replacement

Dow Midland Soils Remedy Worksheet

Site Address: 604 E Haley St.

Parcel: 14-15-50-032

Date: 6-Nov-13

Initial Soil Sample

224

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

200

Initial soil result (ppt)

1180

Replicate result (ppt)

177

Replicate result (ppt)

519

Average (ppt)

572.6

Standard Deviation (ppt)

2.92

t (0.95, 2)

1484

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:

1484

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

7725

Area of yard (ft²) (area as sampled)

170

Area not remedied (ft²)

47

Surface Weighted Average (SWA) (ppt)

2%

% Undisturbed Remaining Soil (URS)

2.72E-05

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Angela Kaiser	Property Address: 604 E. Haley St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Sugar Construction• Kokaly• Reliable Plumbing	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Bobcats• Fisher: Hand Tools• Sugar: Hand Tools• Kokaly: Hand Tools• Reliable: Hand Tools
Field Person: Gary Waugh	Date: 10/24/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4058	Yards In: 29 * 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 the excavation line	Date Verified/Initial: 10/23/13 GW/SS
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: The crew formed and poured the concrete for the driveway approach.

Kokaly/Reliable Plumbing: Reliable installed the backflow preventer and the additional plumbing needed for the irrigation system. Kokaly installed the irrigation system piping, low voltage wiring, valves and sprinkler heads.

Servinski/Fisher: The crew laid out the landscape beds and installed the edging. Shrubs, trees 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 the sprinkler heads were adjusted. A final site cleanup was performed. 604 E. Haley is complete pending a walk through with the property owner.

* Yards In:

13yds – Drainage Stone

16yds – Hardwood Mulch

Gary Waugh

10/24/13

Field Representative Signature

Date

Weather: Partly cloudy, 32 – 50, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Angela Kaiser	Property Address: 604 E. Haley St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats• Sugar Construction	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Bobcats• Fisher: Hand Tools• Pats: Trucks• Sugar: Hand Tools
Field Person: Gary Waugh	Date: 10/23/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4058	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 at the excavation line	Date Verified/Initial: 10/23/13 GW/SS
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: The crew poured the concrete for the new city sidewalk section and formed and poured the new driveway.

Servinski/Fisher: The crew completed the soils dig out and importing placing and rough grading topsoil. The crew also assisted Sugar Construction with the concrete driveway pour. Catch basin filters and silt fence were in place and in good condition.

* Yards Out:

210yds – Soil hauled to the (Midland City Landfill) for disposal

* Yards In:

120yds – Topsoil

15yds - Sand

Gary Waugh

10/23/13

Field Representative Signature

Date

Weather: Partly cloudy, 33 – 49, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Angela Kaiser	Property Address: 604 E. Haley St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats• Sugar Construction	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Bobcats• Fisher: Hand Tools• Pats: Trucks• Sugar: Hand Tools
Field Person: Gary Waugh	Date: 10/22/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4058	Yards In: 75 * See Below	Yards Out: 120 * 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 the excavation line	Date Verified/Initial: 10/22/13 GW/SS
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: The crew formed the new section of city sidewalk and constructed the landscape wall between the driveway and front yard area.

Servinski/Fisher: The crew began the soils dig out. Access to the rear property was obtained by using the neighboring driveway. Trucks were backed in the driveway to the rear property where they were direct loaded using an excavator. Some topsoil was imported placed and graded. Catch basin filters and silt fence were in place and in good condition.

* Yards Out:

120yds – Soil hauled to the (Midland City Landfill) for disposal

* Yards In:

75yds - Topsoil

Gary Waugh

10/22/13

Field Representative Signature

Date

Weather: Partly cloudy, 53 – 60, light winds

Green Remediation Assurance Form
Midland Resolution

Property Information

Property Owner: Angela Kaiser
Property Address: 604 E. Haley
Field Person: Gary Waugh

Contract Personnel: Pat's Trucking, Servinski

Date: 10/24/2013

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 ☐



Area Not Excavated:
All Excavated

Yard Area:
Lawn
Outlawn
Driveway

Not Included in Yard Area:
House
Sheds
Approach

Excavated and Replaced Gravel Driveway



MIDLAND RESOLUTION

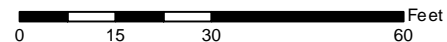
LEGEND

- Remediated Area
- Property

Total Yard Area:
6688 sq. ft.

Area Excavated:
0 sq. ft.

Total Area Not Excavated:
0 sq. ft.



Parcel 14-16-40-144
Midland Resolution Soil Replacement

Dow Midland Soils Remedy Worksheet

Site Address: 1111 Fournie St.

Parcel: 14-16-40-144

Date: 6-Nov-13

Initial Soil Sample

312

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:

312

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

6688

Area of yard (ft²) (area as sampled)

628

Area not remedied (ft²)

43

Surface Weighted Average (SWA) (ppt)

9%

% Undisturbed Remaining Soil (URS)

6.40E-06

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

NO REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: James & Penny Perlberg	Property Address: 1111 Fournie
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Kappen Tree Service – 5/23/13	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Bobcat, Dozer, Mini Excavator• Fisher: Hand Tools• Kappen: Bucket Truck, Chipper, Log Truck, Stinger
Field Person: Gary Waugh	Date: 5/29/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5200	Yards In: 71 *See Below	Yards Out: 151 *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 5/29/13
Describe soils remaining: All soils removed within the remediation area.		

DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was onsite 5/23/13 and removed the select trees. Wood chips and logs were hauled to the Allied staging area.

Servinski/Fisher: Began the soils removal. Some topsoil was imported, placed and graded. Stone mix was hauled in and placed on the driveway.

Silt fence was installed at the curb line along Fournie St at the end of the day.

* Yards Out:

151yds – Soil relocated to the (Salzburg Landfill MAS Stockpile Area)

* Yards In:

60yds - Topsoil

12yds – Stone Mix

Gary Waugh

5/29/13

Field Representative Signature

Date

Weather: Cloudy, rain showers, 62 – 82, windy.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: James & Penny Perlberg	Property Address: 1111 Fournie
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Reliable Plumbing	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Bobcat, Dozer, Mini Excavator• Fisher: Hand Tools• Reliable: Hand Tools
Field Person: Gary Waugh	Date: 5/30/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5200	Yards In: 105 *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:	Laser level used to verify cut depth	Date Verified/Initial: GW/PH 5/30/13
Describe soils remaining: All soils removed within the remediation area.		

DESCRIPTION OF FIELD ACTIVITIES:

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

Servinski/Fisher: Completed the soils dig out and importing topsoil. Rain began around 3pm, silt fence installed at curb along Fournie St and work stopped for the day.

* Yards Out:

45yds – Soil relocated to the (Salzburg Landfill MAS Stockpile Area)

* Yards In:

105yds - Topsoil

Gary Waugh

5/30/13

Field Representative Signature

Date

Weather: Cloudy, PM rain showers, 68 – 85, windy.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: James & Penny Perlberg	Property Address: 1111 Fournie
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Bobcat, Mini Excavator• Fisher: Hand Tools
Field Person: Gary Waugh	Date: 5/31/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5200	Yards In: 18 *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 5/30/13
Describe soils remaining: All soils removed within the remediation area.		

DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Graded the topsoil, landscape beds defined, edging installed, shrubs and bushes planted and the majority of drainage stone imported and placed. Silt fence reinstalled at the curb line along Fournie St at the end of the day.

* Yards In:
18yds – Drainage Stone

Gary Waugh

5/31/13

Field Representative Signature

Date

Weather: Partly cloudy, 68 – 80, light winds.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: James & Penny Perlberg	Property Address: 1111 Fournie
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Kokaly	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Bobcat• Fisher: Hand Tools• Kokaly: Hand Tools
Field Person: Gary Waugh	Date: 6/3/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5200	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 used to verify cut depth	Date Verified/Initial: GW/PH 5/30/13
Describe soils remaining: All soils removed within the remediation area.		

DESCRIPTION OF FIELD ACTIVITIES:

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

Servinski/Fisher: Final grading of the topsoil, landscape beds defined, edging installed, drainage stone and hardwood mulch placed and trees and shrubs planted. Sod placed and trimmed. 1111 Fournie is complete pending a final walk through with the home owner.

* Yards In:

15yds – Topsoil

3yds – Drainage Stone

4yds – Hardwood Mulch

Gary Waugh

6/3/13

Field Representative Signature

Date

Weather: Clear, 40 – 65, light winds.

Green Remediation Assurance Form
Midland Resolution

Property Information

Property Owner: James & Penny Perlberg

Contract Personnel: Pat's Trucking, Servinski

Property Address: 1111 Fournie St.

Field Person: Gary Waugh

Date: 5/31/2013

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 ☐

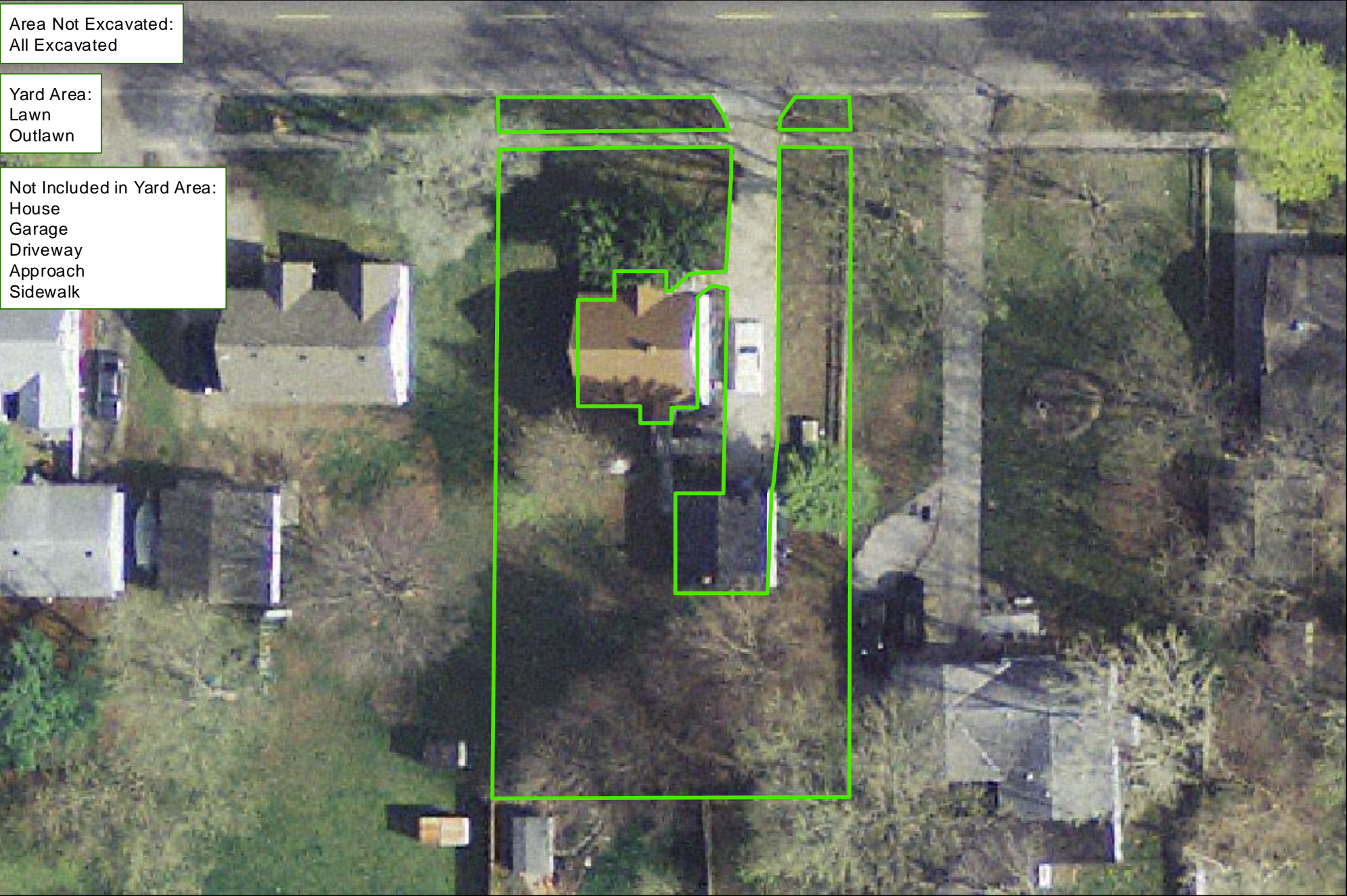
Reuse Existing Concrete Foundations When Possible...Yes ☐ No ☒ N/A ☐

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:
10514 sq. ft.

Area Excavated:
10514 sq. ft.

Total Area Not Excavated:
0 sq. ft.



0 15 30 60 Feet

Parcel 14-15-40-076
Midland Resolution Soil Replacement

Dow Midland Soils Remedy Worksheet

Site Address: 1412 E Haley St.

Parcel: 14-15-40-076

Date: 5-Nov-13

Initial Soil Sample

276

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

249

Initial soil result (ppt)

231

Replicate result (ppt)

241

Replicate result (ppt)

240

Average (ppt)

9.0

Standard Deviation (ppt)

2.92

t (0.95, 2)

256

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:

256

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

10514

Area of yard (ft²) (area as sampled)

0

Area not remedied (ft²)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

4.83E-06

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

NO REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Brandt Brothers, LLC	Property Address: 1412 E. Haley St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Dozer, Bobcat• Fisher: Hand Tools• Pats: Trucks
Field Person: Gary Waugh	Date: 10/24/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 8829	Yards In: 285 * See Below	Yards Out: 540 * 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 verify cut depth	Date Verified/Initial: 10/24/13 GW/SS
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: The crew began and completed the soils dig out and began importing and placing topsoil. An excavator was used to remove the soil and direct load the trucks. Catch basin filters were installed and silt was in place along Haley St.

* Yards Out:

15yds – Concrete and debris were hauled to (Midland City Landfill) for disposal
525yds – Soil relocated to (Dow MIOPS Poseyville Landfill MAS Stockpile Area)

* Yards In:

285yds - Topsoil

Gary Waugh

10/24/13

Field Representative Signature

Date

Weather: Clear, 35 – 48, calm winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Brandt Brothers, LLC	Property Address: 1412 E. Haley St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats• Sugar Construction• Kokaly• Reliable Plumbing	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Dozer, Bobcat• Fisher: Hand Tools• Pats: Trucks• Sugar: Hand Tools• Kokaly: Hand Tools• Reliable: Hand Tools
Field Person: Gary Waugh	Date: 10/25/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 8829	Yards In: 193 * 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 verify cut depth	Date Verified/Initial: 10/24/13 GW/SS
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Formed and poured the concrete for the rear sidewalk and steps and a section of city sidewalk.

Kokaly/Reliable Plumbing: Reliable installed the backflow preventer and the plumbing needed to accommodate the irrigation system. Kokaly installed the irrigation piping, low voltage wiring and valves.

Servinski/Fisher: The crew completed importing and placing the topsoil. Landscape beds were defined and the edging was installed. Trees and shrubs were planted and drainage stone placed in the beds. The topsoil was final graded and hand prepped and the sod was placed. A final site cleanup was performed. 1412 E. Haley is complete pending a walk through with the property owner.

* Yards In:

150yds – Topsoil

15yds – Sand

10yds – Drainage Stone

18yds – Stone Mix

Gary Waugh

10/25/13

Field Representative Signature

Date

Weather: Clear, 33 – 48, calm winds

Green Remediation Assurance Form
Midland Resolution

Property Information

Property Owner: Brandt Bro. LLC

Contract Personnel: Pat's Trucking, Servinski

Property Address: 1412 E. Haley

Field Person: Gary Waugh

Date: 10/25/2013

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 []

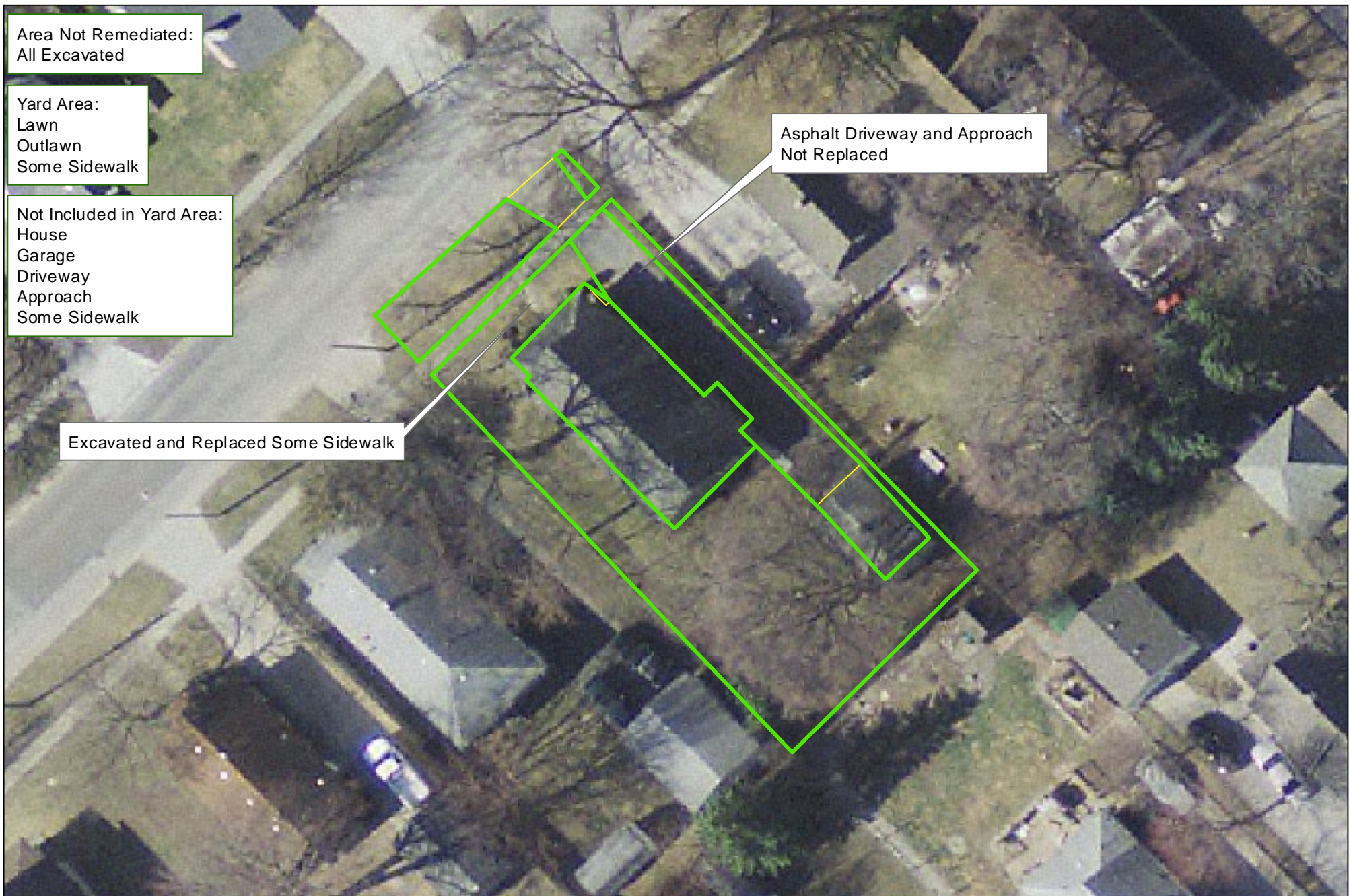
Reuse Existing Concrete Foundations When Possible... Yes [] No[X] N/A []

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:
4771 sq. ft.

Area Excavated:
4771 sq. ft.

Total Area Not Excavated:
0 sq. ft.



0 15 30 60 Feet

Parcel 14-16-40-090
Midland Resolution Soil Replacement

Dow Midland Soils Remedy Worksheet

Site Address: 1306 Fournie St.

Parcel: 14-16-40-090

Date: 4-Nov-13

Initial Soil Sample

349

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:

349

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

4771

Area of yard (ft²) (area as sampled)

0

Area not remedied (ft²)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

6.47E-06

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

NO REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Rosaria Miller	Property Address: 1306 Forunie
Contract Personnel: <ul style="list-style-type: none">• Kappen Tree Service – 5/20/13• Servinski• Fisher• Pats• M & M	Contractor Equipment: <ul style="list-style-type: none">• Kappen: Boom Crane, Bucket Truck, Log Truck, Stinger• Servinski: Mini Excavator, Bobcat• Fisher: Hand Tools• Pats: Trucks• M & M: Stump Grinder
Field Person: Gary Waugh	Date: 5/28/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4639	Yards In: 0	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 5/20/13 and removed the select trees and shrubs. Wood chips and logs were hauled to the Allied staging area.

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

Servinski/Fisher: Began the soils dig out. Heavy rain with thunder and lightning began around noon. Silt fence installed at the curb line along Fournie St. Work stopped for the day.

* Yards Out:

25yds – Soil relocated to (Salzburg MAS Soil Stockpile Area)

5yds – Concrete and soil hauled to (Midland City Landfill) for disposal

Gary Waugh

5/28/13

Field Representative Signature

Date

Weather: Cloudy with heavy pm rain, 50 – 70, windy.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Rosaria Miller	Property Address: 1306 Forunie
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats• Reliable Plumbing	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Mini Excavator, Bobcat• Fisher: Hand Tools• Pats: Trucks• Reliable: Hand Tools
Field Person: Gary Waugh	Date: 5/29/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4639	Yards In: 45 *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 except areas described below.		
Verification Method:	Measured depth of excavation along cut line	Date Verified/Initial: GW 5/29/13
Describe soils remaining: An area 15ft x 15ft around an existing Magnolia tree soils were removed to a depth of 3 inches. An area 10ft x 15ft around existing Rhododendrons soils were removed to a depth of 3 inches.		

DESCRIPTION OF FIELD ACTIVITIES:

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

Servinski/Fisher: Completed the soil dig out and began importing topsoil. Several landscape beds were defined, edging installed and some shrubs and bushes planted. Silt fence was reinstalled at the curb line along Fournie St.

* Yards Out:
135yds – Soil relocated to (Salzburg MAS Soil Stockpile Area)

* Yards In:
45yds - Topsoil

Gary Waugh

5/29/13

Field Representative Signature

Date

Weather: Partly cloudy, some rain showers, 62 – 82, light winds.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Rosaria Miller	Property Address: 1306 Forunie
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats• Sugar Construction	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Mini Excavator, Bobcat• Fisher: Hand Tools• Pats: Trucks• Sugar: Hand Tools
Field Person: Gary Waugh	Date: 5/30/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4639	Yards In: 105 *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 except areas described below.		
Verification Method:	Measured depth of excavation along cut line	Date Verified/Initial: GW 5/29/13
Describe soils remaining: An area 15ft x 15ft around an existing Magnolia tree soils were removed to a depth of 3 inches. An area 10ft x 15ft around existing Rhododendrons soils were removed to a depth of 3 inches.		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the concrete for the service sidewalk from the front porch to the city sidewalk 3ft x 20ft.

Servinski/Fisher: Completed importing topsoil. The remaining landscape beds were defined, edging installed and shrubs and bushes planted. Silt fence was reinstalled at the curb line along Fournie St. Rain began around 3pm, all work stopped for the day.

* Yards In:
105yds – Topsoil

Gary Waugh

5/30/13

Field Representative Signature

Date

Weather: Partly cloudy, PM rains, 68 – 85, light winds.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Rosaria Miller	Property Address: 1306 Forunie
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Kokaly	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Mini Excavator, Bobcat• Fisher: Hand Tools• Kokaly: Hand Tools
Field Person: Gary Waugh	Date: 5/31/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4639	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 except areas described below.		
Verification Method:	Measured depth of excavation along cut line	Date Verified/Initial: GW 5/29/13
Describe soils remaining: An area 15ft x 15ft around an existing Magnolia tree soils were removed to a depth of 3 inches. An area 10ft x 15ft around existing Rhododendrons soils were removed to a depth of 3 inches.		

DESCRIPTION OF FIELD ACTIVITIES:

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

Servinski/Fisher: Completed the landscape beds, placed drainage stone and hardwood mulch. Final prepped the topsoil, placed and trimmed sod. 1306 Fournie is complete pending a final walk through with the home owner.

* Yards In:

11yds – Drainage Stone

9yds – Hardwood Mulch

Gary Waugh

5/31/13

Field Representative Signature

Date

Weather: Partly cloudy, 68 – 80, light winds.

Green Remediation Assurance Form
Midland Resolution

Property Information

Property Owner: Rosaria Miller

Contract Personnel: Pat's Trucking, Servinski

Property Address: 1306 Fournie St.

Field Person: Gary Waugh

Date: 5/30/2013

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
Gravel Driveway

Not Included in Yard Area:
House
Garage
Sidewalk
Approach



MIDLAND RESOLUTION

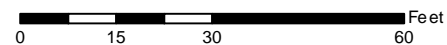
LEGEND

- Remediated Area
- Property

Total Yard Area:
9181 sq. ft.

Area Excavated:
0 sq. ft.

Total Area Not Excavated:
0 sq. ft.



Parcel 14-16-40-086
Midland Resolution Soil Replacement

Dow Midland Soils Remedy Worksheet

Site Address: 1316 Fournie St.

Parcel: 14-16-40-086

Date: 4-Nov-13

Initial Soil Sample

267

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

225

Initial soil result (ppt)

245

Replicate result (ppt)

252

Replicate result (ppt)

241

Average (ppt)

14.0

Standard Deviation (ppt)

2.92

t (0.95, 2)

264

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:

264

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

9181

Area of yard (ft²) (area as sampled)

0

Area not remedied (ft²)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

4.97E-06

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

NO REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Jay Shook	Property Address: 1316 Fournie St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Reliable• Kappen Tree Service 5/17/13	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Mini Excavator, Excavator, Bobcats• Fisher: Hand Tools• Reliable: Hand Tools• Sugar: Hand Tools• Kappen: Bucket Truck, Boom Crane, Log Truck, Stinger
Field Person: Gary Waugh	Date: 5/20/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 8373	Yards In: 0	Yards Out: 135 *See Below
Description of Cut Depth: Soils within the remediation area square footage excavated today were removed to an average depth of 12 inches		
Verification Method:	A laser level used to verify cut depth	Date Verified/Initial: GW/SS 5/20/13
Describe soils remaining: See above.		

DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was on site 5/17/13 and removed the selected trees. Wood chips and tree logs were hauled to the Allied staging area.

Servinski/Fisher: Began the soils dig out.

* Yards Out:

135yds – Soil relocated to (Salzburg Landfill MAS Soil Stockpile)

Gary Waugh

5/20/13

Field Representative Signature

Date

Weather: Partly cloudy, 65 – 85, windy.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Jay Shook	Property Address: 1316 Fournie St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Reliable Plumbing• Sugar Construction	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Mini Excavator, Excavator, Bobcats• Fisher: Hand Tools• Reliable: Hand Tools• Sugar: Hand Tools
Field Person: Gary Waugh	Date: 5/21/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 8373	Yards In: 196 *See Below	Yards Out: 330 *See Below
Description of Cut Depth: Soils within the remediation area square footage excavated today were removed to an average depth of 12 inches		
Verification Method:	A laser level used to verify cut depth	Date Verified/Initial: GW/SS 5/20/13
Describe soils remaining: See above.		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the concrete for the rear entrance pad 6ft x 12ft.

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

Servinski/Fisher: Completed the soils dig out and began importing, placing and grading topsoil.

*** Yards Out:**

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

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

*** Yard In;**

165yds – Topsoil

18yds – Sand

14yds – Drainage Stone

Silt Fence was installed at the curb lines along North and Fournie Streets.

**CONSTRUCTION QUALITY ASSURANCE FORM
MIDLAND RESOLUTION CENTER**

DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:

Gary Waugh

5/21/13

Field Representative Signature

Date

Weather: Partly cloudy, 65 – 83, light winds.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Jay Shook	Property Address: 1316 Fournie St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Sugar Construction	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Mini Excavator, Excavator, Bobcats• Fisher: Hand Tools• Sugar: Hand Tools
Field Person: Gary Waugh	Date: 5/22/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 8373	Yards In: *See Below	Yards Out: 0
Description of Cut Depth: Soils within the remediation area square footage excavated today were removed to an average depth of 12 inches		
Verification Method:	A laser level used to verify cut depth	Date Verified/Initial: GW/SS 5/20/13
Describe soils remaining: See above.		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the concrete for the front service sidewalk 3ft x 27ft.

Servinski/Fisher: Completed the majority of the topsoil. Heavy PM rains, work stopped.

* Yard In:
105yds – Topsoil
7yds – Sand
4yds – Drainage Stone

Silt Fence was installed at the curb lines along North and Fournie Streets.

Gary Waugh

Field Representative Signature

5/22/13

Date

Weather: Cloudy, rain showers, 60 – 74, light winds.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Jay Shook	Property Address: 1316 Fournie St.
Contract Personnel:	Contractor Equipment:
Field Person: Gary Waugh	Date: 5/23/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 8373	Yards In: *See Below	Yards Out: 0
Description of Cut Depth: Soils within the remediation area square footage excavated today were removed to an average depth of 12 inches		
Verification Method:	A laser level used to verify cut depth	Date Verified/Initial: GW/SS 5/20/13
Describe soils remaining: See above.		

DESCRIPTION OF FIELD ACTIVITIES:

No work performed today, heavy rain.

Gary Waugh

Field Representative Signature

5/23/13

Date

Weather: Cloudy, rain, 40 – 48, light winds.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Jay Shook	Property Address: 1316 Fournie St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Sugar Construction• Kokaly	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Mini Excavator, Excavator, Bobcats• Fisher: Hand Tools• Sugar: Hand Tools• Kokaly: Hand Tools
Field Person: Gary Waugh	Date: 5/24/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 8373	Yards In: *See Below	Yards Out: 0
Description of Cut Depth: Soils within the remediation area square footage excavated today were removed to an average depth of 12 inches		
Verification Method:	A laser level used to verify cut depth	Date Verified/Initial: GW/SS 5/20/13
Describe soils remaining: See above.		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the concrete driveway 24ft x 36ft.

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

Servinski/Fisher: Removed several inches of saturated topsoil which was returned to the topsoil stockpile. Fresh topsoil was imported placed and graded and final prepped. Landscape beds were defined, edging installed, shrubs and trees were planted. Sod was placed in the out lawn area along North St.

Silt Fence was installed at the curb lines along North St.

Gary Waugh

Field Representative Signature

5/24/13

Date

Weather: Clear, 38 – 60, light winds.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Jay Shook	Property Address: 1316 Fournie St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Sugar Construction	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Mini Excavator, Excavator, Bobcats• Fisher: Hand Tools• Sugar: Hand Tools
Field Person: Gary Waugh	Date: 5/25/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 8373	Yards In: 0	Yards Out: 0
Description of Cut Depth: Soils within the remediation area square footage excavated today were removed to an average depth of 12 inches		
Verification Method:	A laser level used to verify cut depth	Date Verified/Initial: GW/SS 5/20/13
Describe soils remaining: See above.		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Cut the control joints in the new concrete driveway.

Servinski/Fisher: Completed the sod placement. Catch basin filters and barricades were removed. 1316 Fournie is complete pending a final walk through with the home owner.

Gary Waugh

Field Representative Signature

5/25/13

Date

Weather: Clear, 38 – 65, light winds.

Green Remediation Assurance Form
Midland Resolution

Property Information

Property Owner: Jay Shook

Contract Personnel: Pat's Trucking, Servinski

Property Address: 1316 Fournie St.

Field Person: Gary Waugh

Date: 5/21/2013

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
Approach
Some Sidewalk

Not Included in Yard Area:
House
Garage
Some Sidewalk

Excavated and Replaced Approach
(Damaged during construction)

Excavated and Replaced Sidewalk
(Damaged during construction)



MIDLAND RESOLUTION

LEGEND

- Remediated Area
- Property

Total Yard Area:
8687 sq. ft.

Area Excavated:
8687 sq. ft.

Total Area Not Excavated:
0 sq. ft.



0 15 30 60 Feet

Parcel 14-16-40-048
Midland Resolution Soil Replacement

Dow Midland Soils Remedy Worksheet

Site Address: 1402 Fournie St.

Parcel: 14-16-40-048

Date: 6-Nov-13

Initial Soil Sample

309

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:

309

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

8687

Area of yard (ft²) (area as sampled)

0

Area not remedied (ft²)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

5.76E-06

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

NO REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Percy Hamlin	Property Address: 1402 Fournie St.
Contract Personnel: <ul style="list-style-type: none">• Kappen Tree Service – 5/22/13• M & M• Servinski• Fisher	Contractor Equipment: <ul style="list-style-type: none">• Kappen: Bucket Truck, Boom Crane, Log Truck, Stinger• M & M: Stump Grinder• Servinski: Excavator, Bobcats• Fisher: Hand Tools
Field Person: Gary Waugh	Date: 6/3/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 8347	Yards In: 15 * See Below	Yards Out: 450 * 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 6/3/13
Describe soils remaining: All soils removed.		

DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was onsite 5/22/13 and removed the select trees. Wood chips and logs were hauled to the Allied staging area.

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

Servinski/Fisher: Began and completed the majority of the soils dig out. The city sidewalk along Fournie St had to be removed to establish new grade elevations so surface water can be conveyed away from the house. Concrete will be poured for the new city sidewalk grade along with a concrete driveway and drive approach. Some topsoil was imported and placed. Silt fence was installed at the curb lines along Fournie and North Streets.

*** Yards Out:**

30yds – Concrete, debris and soil hauled to (Midland City Landfill) for disposal
450yds – Soil relocated to (Salzburg Landfill MAS Stockpile Area)

*** Yards In:**

15yds - Topsoil

**CONSTRUCTION QUALITY ASSURANCE FORM
MIDLAND RESOLUTION CENTER**

DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:

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: Percy Hamlin	Property Address: 1402 Fournie St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Sugar Construction• Reliable Plumbing	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Bobcats• Fisher: Hand Tools• Sugar: Hand Tools• Reliable: Hand Tools
Field Person: Gary Waugh	Date: 6/4/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 8347	Yards In: 135 * 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:	Laser level used to verify cut depth	Date Verified/Initial: GW/PH 6/3/13
Describe soils remaining: All soils removed.		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the concrete for a section of the new city sidewalk along Fournie St. 4ft x 68ft.

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

Servinski/Fisher: Completed the soils dig out. Topsoil was imported, placed and graded. Silt fence was installed at the curb lines along Fournie and North Streets.

* Yards Out:

45yds – Soil relocated to (Salzburg Landfill MAS Stockpile Area)

* Yards In:

135yds - Topsoil

Gary Waugh

Field Representative Signature

6/4/13

Date

Weather: Clear, 50 – 70, light winds.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Percy Hamlin	Property Address: 1402 Fournie St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Sugar Construction• Kokaly	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Bobcats• Fisher: Hand Tools• Sugar: Hand Tools• Kokaly: Hand Tools
Field Person: Gary Waugh	Date: 6/5/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 8347	Yards In: 14 * See Below	Yards Out:
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 6/3/13
Describe soils remaining: All soils removed.		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the concrete for the driveway 36ft x 60ft and the drive approach 12ft x 12ft.

Servinski/Fisher: Final graded the topsoil and defined the landscape beds. Shrubs and trees were planted, edging installed and drainage stone and hardwood mulch were placed in the appropriate bed. Silt fence was installed at the curb lines along Fournie and North Streets.

* Yards In:
14yds – Drainage Stone

Gary Waugh

Field Representative Signature

6/5/13

Date

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

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Percy Hamlin	Property Address: 1402 Fournie St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Sugar Construction	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Bobcats• Fisher: Hand Tools• Sugar: Hand Tools
Field Person: Gary Waugh	Date: 6/6/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 8347	Yards In: 14 * See Below	Yards Out:
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 6/3/13
Describe soils remaining: All soils removed.		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the concrete for a section of city sidewalk 4ft x 72ft.

Servinski/Fisher: Final prepped the topsoil, placed and trimmed sod and site cleanup. 1402 Fournie is complete pending a final walk through with the property owner.

Gary Waugh

Field Representative Signature

6/6/13

Date

Weather: Cloudy, 55 – 69, light winds.

Green Remediation Assurance Form
Midland Resolution

Property Information

Property Owner: Percy Hamlin Contract Personnel: Pat's Trucking, Servinski
Property Address: 1402 Fournie St.
Field Person: Gary Waugh Date: 6/5/2013

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:
15,335 sq. ft.

Area Excavated:
15,335 sq. ft.

Total Area Not Excavated:
0 sq. ft.



0 15 30 60 Feet

Parcel 14-16-40-042
Midland Resolution Soil Replacement

Dow Midland Soils Remedy Worksheet

Site Address: 1412 Fournie St.

Parcel: 14-16-40-042

Date: 6-Nov-13

Initial Soil Sample

295

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:

295

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

15335

Area of yard (ft²) (area as sampled)

0

Area not remedied (ft²)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

5.52E-06

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

NO REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Donald & Bonnie McMullen	Property Address: 1412 Fournie St.
Contract Personnel: <ul style="list-style-type: none">• Kappen Tree Service – 5/22/13• M & M• Servinski• Fisher	Contractor Equipment: <ul style="list-style-type: none">• Kappen: Bucket Truck, Boom Crane, Log Truck, Stinger• M & M: Stump Grinder• Servinski: Excavator, Bobcats• Fisher: Hand Tools
Field Person: Gary Waugh	Date: 6/3/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 13,742	Yards In: 135 * 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 used to verify cut depth	Date Verified/Initial: GW/PH 6/3/13
Describe soils remaining: All soils removed.		

DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was onsite 5/22/13 and removed the select trees. Wood chips and logs were hauled to the Allied staging area.

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

Servinski/Fisher: Began the soils dig out. Some topsoil was imported and placed. Silt fence was installed at the curb lines along Fournie St.

*** Yards Out:**

30yds – Concrete, debris and soil hauled to (Midland City Landfill) for disposal
300yds – Soil relocated to (Salzburg Landfill MAS Stockpile Area)

*** Yards In:**

135yds - Topsoil

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: Donald & Bonnie McMullen	Property Address: 1412 Fournie St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Reliable Plumbing	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Bobcats• Fisher: Hand Tools• Reliable: Hand Tools
Field Person: Gary Waugh	Date: 6/4/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 13,742	Yards In: 135 * 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 used to verify cut depth	Date Verified/Initial: GW/PH 6/3/13
Describe soils remaining: All soils removed.		

DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Completed the soils dig out. The majority of the topsoil was imported, placed and graded. Silt fence was installed at the curb lines along Fournie St.

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

* Yards Out:

30yds – Concrete, debris and soil hauled to (Midland City Landfill) for disposal
270yds – Soil relocated to (Salzburg Landfill MAS Stockpile Area)

* Yards In:

435yds – Topsoil
15yds - 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: Donald & Bonnie McMullen	Property Address: 1412 Fournie St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Sugar Construction	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Bobcats• Fisher: Hand Tools• Sugar: Hand Tools
Field Person: Gary Waugh	Date: 6/5/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 13,742	Yards In: 79 * 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 6/3/13
Describe soils remaining: All soils removed.		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the concrete for a section of service sidewalk 3ft x 27ft.

Servinski/Fisher: Finished importing and placing and final grading the topsoil. Landscape beds were defined and shrubs and trees were planted. Edging was installed around the beds and drainage stone placed. Silt fence was installed at the curb lines along Fournie St.

* Yards In:

45yds – Topsoil

14yds – Drainage Stone

20yds – Stone Mix

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: Donald & Bonnie McMullen	Property Address: 1412 Fournie St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Sugar Construction	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Bobcats• Fisher: Hand Tools• Sugar: Hand Tools
Field Person: Gary Waugh	Date: 6/6/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 13,742	Yards In: 71 * 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 6/3/13
Describe soils remaining: All soils removed.		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the concrete for a section of service sidewalk 3ft x 16ft.

Servinski/Fisher: Final prepped the topsoil, placed and trimmed sod and site cleanup. 1412 Fournie is complete pending a final walk through with the property 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: Don & Bonnie McMullen

Contract Personnel: Pat's Trucking, Servinski

Property Address: 1412 Fournie St.

Field Person: Gary Waugh

Date: 6/5/2013

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 ☐

Area Not Remediated:
Area to North East of Property: 64 sq. ft.

Yard Area:
Lawn
Outlawn
Some Sidewalk

Not in Yard:
House
Garage
Some Sidewalk
Driveway
Approach



MIDLAND RESOLUTION

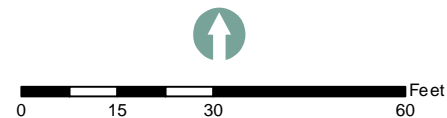
LEGEND

- Remediated Area
- Property

Total Yard Area:
5614 sq. ft.

Area Excavated:
5550 sq. ft.

Total Area Not Excavated:
64 sq. ft.



Parcel 14-16-40-110
Midland Resolution Soil Replacement

Dow Midland Soils Remedy Worksheet

Site Address: 1113 Franklin St.

Parcel: 14-16-40-110

Date: 4-Nov-13

Initial Soil Sample

319

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:

319

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

5614

Area of yard (ft²) (area as sampled)

64

Area not remedied (ft²)

18

Surface Weighted Average (SWA) (ppt)

1%

% Undisturbed Remaining Soil (URS)

6.01E-06

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

NO REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Tom McCann Family LLC	Property Address: 1113 Franklin St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Dozer, Bobcat• Fisher: Hand Tools
Field Person: Gary Waugh	Date: 5/16/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4795	Yards In: 225 *See Below	Yards Out: 240 *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 verify cut depth	Date Verified/Initial: GW 5/16/13
Describe soils remaining: All soils removed.		

DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Began the soil dig out. As the excavation progressed Gary Waugh verified the cut depth using a laser level. Some topsoil was imported and placed.

* Yards Out:

240yds – Soil relocated to (Salzburg Landfill MAS Soil Stockpile Area)

* Yards In:

225yds – Topsoil

Silt fence was installed at the curb line along Franklin St.

Gary Waugh

5/16/13

Field Representative Signature

Date

Weather: Clear, 50 -76, light winds.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Tom McCann Family LLC	Property Address: 1113 Franklin St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Sugar Construction	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Dozer, Bobcat• Fisher: Hand Tools• Sugar: Hand Tools
Field Person: Gary Waugh	Date: 5/17/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4795	Yards In: 38 *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:	Laser level was used to verify cut depth	Date Verified/Initial: GW 5/17/13
Describe soils remaining: All soils removed.		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the concrete for a section of city sidewalk 4ft x 30ft, two sections of sidewalk that lead from the house 3ft x 30ft and 6ft x 30ft and a 4ft x 6ft pad for the garage entrance door.

Servinski/Fisher: Completed the soil dig out. The remaining topsoil was imported placed and graded. Landscape beds were defined, edging installed and shrubs planted.

* Yards Out:

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

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

* Yards In:

38yds – Topsoil

Silt fence was installed at the curb line along Franklin St.

Gary Waugh

5/17/13

Field Representative Signature

Date

Weather: Cloudy, 48 -68, light winds.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Tom McCann Family LLC	Property Address: 1113 Franklin St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Dozer, Bobcat• Fisher: Hand Tools
Field Person: Gary Waugh	Date: 5/18/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 4795	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 verify cut depth	Date Verified/Initial: GW 5/17/13
Describe soils remaining: All soils removed.		

DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Drainage stone was imported and placed in the landscape beds. Topsoil was final graded and hydro seeded. Final site cleanup was performed. 1113 Franklin is complete pending a final walk through with the property owner.

* Yards In:
6yds – Drainage Stone

Gary Waugh

5/18/13

Field Representative Signature

Date

Weather: Partly cloudy, 60 -75, light winds.

Green Remediation Assurance Form
Midland Resolution

Property Information

Property Owner: Tom McCann Family, LLC Contract Personnel: Pat's Trucking, Servinski

Property Address: 1113 Franklin St.

Field Person: Gary Waugh

Date: 5/17/2013

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:
5873 sq. ft.

Area Excavated:
5873 sq. ft.

Total Area Not Excavated:
0 sq. ft.



0 15 30 60 Feet

Parcel 14-16-40-080
Midland Resolution Soil Replacement

Dow Midland Soils Remedy Worksheet

Site Address: 1116 Franklin

Parcel: 14-16-40-080

Date: 4-Nov-13

Initial Soil Sample

281

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:

281

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

5873

Area of yard (ft²) (area as sampled)

0

Area not remedied (ft²)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

5.27E-06

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

NO REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Vivian Stafford Trust	Property Address: 1116 Franklin
Contract Personnel: <ul style="list-style-type: none">• Kappen Tree Service – 7/1/13• Servinski• Fisher• Pats	Contractor Equipment: <ul style="list-style-type: none">• Kappen: Boom Crane, Bucket Truck, Chipper, Log Truck• Servinski: Excavator, Dozer, Bobcats• Fisher: Hand Tools• Pats: Trucks
Field Person: Gary Waugh	Date: 7/8/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5512	Yards In: 0	Yards Out: 300 * See Below
Description of Cut Depth: 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: 7/8/13 – GW/SS
Describe soils remaining: No remaining soils.		

DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was on site 7/1/13 and removed the select trees. Wood chips and logs were hauled to the Allied staging area.

Servinski/Fisher: Began the soils dig out. A wood chip access road was constructed and used for backing the trucks into the rear of the property where they were direct loaded using an excavator. The wood chips were placed to control dust from the truck traffic. The street sweeper was in used as needed throughout the day. 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 Franklin St. The site was cleaned up and barricades were set as needed.

* Yards Out:

15yrs – Concrete and debris were hauled to (Midland City Landfill) for disposal.

185yrs – Soil relocated to (Dow - Poseyville Landfill MAS Stockpile Area)

Gary Waugh

7/8/13

Field Representative Signature

Date

Weather: Cloudy, 70 – 85, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Vivian Stafford Trust	Property Address: 1116 Franklin
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats• Reliable Plumbing	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Dozer, Bobcats• Fisher: Hand Tools• Pats: Trucks• Reliable: Hand Tools
Field Person: Gary Waugh	Date: 7/9/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5512	Yards In: 180 * See Below	Yards Out: 105 * See Below
Description of Cut Depth: 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: 7/9/13 – 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: Completed the soils dig out continuing at the rear of property working to the front yard area and eventually removing the out lawn. The soils were direct loaded into the trucks using an excavator. Water was applied to the soil as necessary during load out to control dust. Some topsoil was imported placed and graded. The street sweeper was in used as needed throughout the day. Catch basin filters and silt fence were in place and in good condition. The site was cleaned up and barricades were set as needed.

*** Yards Out:**

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

90yds - Soil relocated to (Dow - Poseyville Landfill MAS Stockpile Area)

*** Yards In:**

180yds – Topsoil

**CONSTRUCTION QUALITY ASSURANCE FORM
MIDLAND RESOLUTION CENTER**

DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:

Gary Waugh

7/9/13

Field Representative Signature

Date

Weather: Cloudy, 70 – 85, humid, breezy

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Vivian Stafford Trust	Property Address: 1116 Franklin
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats• Kokaly	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Dozer, Bobcats• Fisher: Hand Tools• Pats: Trucks• Kokaly: Hand Tools
Field Person: Gary Waugh	Date: 7/10/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5512	Yards In: ?? * See Below	Yards Out: 0
Description of Cut Depth: 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: 7/9/13 – GW/SS
Describe soils remaining: No remaining soils.		

DESCRIPTION OF FIELD ACTIVITIES:

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

Servinski/Fisher: Completed importing placing and grading topsoil. Landscape beds were laid out and edging installed. Shrubs and trees were planted and drainage stone and hardwood mulch were placed in the appropriate bed. The street sweeper was in use as needed throughout the day. Catch basin filters and silt fence were in place and in good condition. The site was cleaned up and barricades were set as needed.

* Yards In:
45yds - Topsoil
6yds – Drainage Stone
6yds – Hardwood Mulch

Gary Waugh

7/10/13

Field Representative Signature

Date

Weather: Clear, 70 – 81, breezy

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Vivian Stafford Trust	Property Address: 1116 Franklin
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Sugar Construction	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Bobcat• Fisher: Hand Tools• Sugar: Hand Tools
Field Person: Gary Waugh	Date: 7/11/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 5512	Yards In: ?? * See Below	Yards Out: 0
Description of Cut Depth: 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: 7/9/13 – GW/SS
Describe soils remaining: No remaining soils.		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Formed and poured the concrete for the city sidewalk section 4ft x 45ft and the service sidewalk 4ft x 15ft.

Servinski/Fisher: Completed the landscaping around the house. The topsoil was pre seeded and hand raked. Hydro seed was applied. A final site cleanup was performed. The silt fence and catch basin filters were removed. 1116 Franklin is complete pending a walk through with the home owner.

* Yards In:
45yds - Topsoil
??yds – Drainage Stone
??yds – Hardwood Mulch

Gary Waugh

7/11/13

Field Representative Signature

Date

Weather: Clear, 60 – 80, breezy

Green Remediation Assurance Form
Midland Resolution

Property Information

Property Owner: Vivian Stafford - Trust

Contract Personnel: Pat's Trucking, Servinski

Property Address: 1116 Franklin St.

Field Person: Gary Waugh

Date: 7/10/2013

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

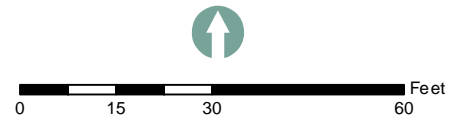
LEGEND

- Remediated Area
- Property

Total Yard Area:
8314 sq. ft.

Area Excavated:
8314 sq. ft.

Total Area Not Excavated:
0 sq. ft.



Parcel 14-16-40-120
Midland Resolution Soil Replacement

Dow Midland Soils Remedy Worksheet

Site Address: 1313 Franklin St.

Parcel: 14-16-40-120

Date: 4-Nov-13

Initial Soil Sample

315

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:

315

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

8314

Area of yard (ft²) (area as sampled)

0

Area not remedied (ft²)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

5.87E-06

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

NO REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Jim Begin	Property Address: 1313 Franklin St.
Contract Personnel: <ul style="list-style-type: none">• Kappen Tree Service 5/9/13• Servinski• Fisher	Contractor Equipment: <ul style="list-style-type: none">• Kappen: Bucket Truck, Boom Crane, Log Truck, Stinger• Servinski: Mini Excavator, Excavator, Bobcats• Fisher: Hand Tools
Field Person: Gary Waugh	Date: 5/20/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6786	Yards In: 73 *See Below	Yards Out: 387 *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 verify cut depth	Date Verified/Initial: GW/PH 5/20/13
Describe soils remaining: All soils removed within the remediation area.		

DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was onsite 5/9/13 to remove the selected trees. Wood chips and tree logs were hauled to the Allied staging area.

Servinski/Fisher: Began and completed the soils dig out. Some topsoil was imported and placed. Sand and stone mix was imported placed and graded for the driveway along Franklin St.

*** Yard Out:**

327yds – Soil relocated to (Salzburg Landfill MAS Soil Stockpile Area)

60yds – Concrete, debris and soil hauled to (Midland City Landfill for disposal)

*** Yards In:**

45yds – Topsoil

15yds – Sand

15yds – Stone Mix

Silt fence was installed at the curb line along Franklin and North Streets.

Gary Waugh

5/20/13

Field Representative Signature

Date

Weather: Partly cloudy, 65 – 86, windy.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Jim Begin	Property Address: 1313 Franklin St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Reliable• Sugar Construction	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Mini Excavator, Excavator, Bobcats• Fisher: Hand Tools• Reliable: Hand Tools• Sugar: Hand Tools
Field Person: Gary Waugh	Date: 5/21/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6786	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:	A laser level was used to verify cut depth	Date Verified/Initial: GW/PH 5/20/13
Describe soils remaining: All soils removed within the remediation area.		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured concrete for the city sidewalk section 4ft x 48ft and the service sidewalk 3ft x 9ft.

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

Servinski/Fisher: Continued importing topsoil, drainage stone and mulch.

* Yards In:

60yds – Topsoil

1yds – Hardwood Mulch

3yds – Drainage Stone

Silt fence was installed at the curb line along Franklin and North Streets.

Gary Waugh

5/21/13

Field Representative Signature

Date

Weather: Partly cloudy AM rain showers, 65 – 83, windy.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Jim Begin	Property Address: 1313 Franklin St.
Contract Personnel:	Contractor Equipment:
Field Person: Gary Waugh	Date: 5/22/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6786	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:	A laser level was used to verify cut depth	Date Verified/Initial: GW/PH 5/20/13
Describe soils remaining: All soils removed within the remediation area.		

DESCRIPTION OF FIELD ACTIVITIES:

No work performed today, rain throughout the day.

Gary Waugh

5/22/13

Field Representative Signature

Date

Weather: Cloudy, rain, 60 – 74, light winds.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Jim Begin	Property Address: 1313 Franklin St.
Contract Personnel:	Contractor Equipment:
Field Person: Gary Waugh	Date: 5/23/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6786	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:	A laser level was used to verify cut depth	Date Verified/Initial: GW/PH 5/20/13
Describe soils remaining: All soils removed within the remediation area.		

DESCRIPTION OF FIELD ACTIVITIES:

No work performed today, rain throughout the day.

Gary Waugh

5/23/13

Field Representative Signature

Date

Weather: Cloudy, rain, 40 – 48, light winds.

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Jim Begin	Property Address: 1313 Franklin St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Bobcats, Mini Excavator• Fisher: Hand Tools
Field Person: Gary Waugh	Date: 5/25/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6786	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:	A laser level was used to verify cut depth	Date Verified/Initial: GW/PH 5/20/13
Describe soils remaining: All soils removed within the remediation area.		

DESCRIPTION OF FIELD ACTIVITIES:

Servinski/Fisher: Completed the sod placement and performed final site cleanup. Catch basin filters and all barricades were removed. 1313 Franklin is complete pending a final walk through with the home owner.

Gary Waugh

5/25/13

Field Representative Signature

Date

Weather: Clear, 38 – 65, light winds.

Green Remediation Assurance Form
Midland Resolution

Property Information

Property Owner: Jim Begin Contract Personnel: Pat's Trucking, Servinski
Property Address: 1313 Franklin St.
Field Person: Gary Waugh Date: 5/21/2013

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:
6396 sq. ft.

Area Excavated:
6396 sq. ft.

Total Area Not Excavated:
0 sq. ft.



0 15 30 60 Feet

Parcel 14-16-40-078
Midland Resolution Soil Replacement

Dow Midland Soils Remedy Worksheet

Site Address: 1120 Franklin St.

Parcel: 14-16-40-078

Date: 4-Nov-13

Initial Soil Sample

285

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:

285

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

6396

Area of yard (ft²) (area as sampled)

0

Area not remedied (ft²)

15

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

5.34E-06

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

NO REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Swaney Property Mgt.	Property Address: 1120 Franklin
Contract Personnel: <ul style="list-style-type: none">• Kappen Tree Service – 7/1/13• Servinski• Fisher• Pats	Contractor Equipment: <ul style="list-style-type: none">• Kappen: Boom Crane, Bucket Truck, Chipper, Log Truck• Servinski: Excavator, Mini Excavator, Bobcats• Pats: Trucks
Field Person: Gary Waugh	Date: 7/8/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6206	Yards In: 0	Yards Out: 90 * See Below
Description of Cut Depth: All soils removed today within the remediation area were removed to an average depth of 12 inches.		
Verification Method:	Measured cut depth along excavation line	Date Verified/Initial: 7/8/13 GW/SS
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Kappen Tree Service: Was on site 7/1/13 and removed the select trees. All wood chips and tree logs were hauled to the Allied staging area.

Servinski/Fisher: Began the soils dig out. A wood chip access road was constructed and used for backing the trucks into the rear of the property where they were direct loaded using an excavator. The wood chips were placed to control dust from the truck traffic. The street sweeper was used as needed throughout the day. 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 Franklin St. The site was cleaned up and barricades were set as needed.

* Yards Out:

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

90yds – Soil relocated to (Dow - Poseyville Landfill MAS Stockpile Area)

Gary Waugh

7/8/13

Field Representative Signature

Date

Weather: Cloudy, 70 – 85, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Swaney Property Mgt.	Property Address: 1120 Franklin
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats• Reliable Plumbing	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Excavator, Mini Excavator, Bobcats• Pats: Trucks• Reliable: Hand Tools
Field Person: Gary Waugh	Date: 7/9/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6206	Yards In: 240 * See Below	Yards Out: 105 * See Below
Description of Cut Depth: All soils removed today within the remediation area were removed to an average depth of 12 inches.		
Verification Method:	Measured cut depth along excavation line	Date Verified/Initial: 7/9/13 GW/SS
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

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

Servinski/Fisher: Continued with the soils dig out working from the rear yard area to the front. Trucks were direct loaded as the excavating progressed. Some topsoil was imported and placed. The street sweeper was used as needed throughout the day. Catch basin filters and silt fence were in place and in good condition. At the end of the work day the site was cleaned up and barricades were set as needed.

* Yards Out:

105yds – Soil relocated to (Dow - Poseyville Landfill MAS Stockpile Area)

* Yards In:

210yds – Topsoil

30yds – Sand (Driveway)

Gary Waugh

7/9/13

Field Representative Signature

Date

Weather: Cloudy, 70 – 85, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Swaney Property Mgt. Contract Personnel: <ul style="list-style-type: none"> Servinski Fisher Pats Sugar Construction 	Property Address: 1120 Franklin Contractor Equipment: <ul style="list-style-type: none"> Servinski: Excavator, Mini Excavator, Bobcats Pats: Trucks Sugar: Hand Tools
Field Person: Gary Waugh	Date: 7/10/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6206	Yards In: ?? * See Below	Yards Out: 15 * See Below
Description of Cut Depth: All soils removed today within the remediation area were removed to an average depth of 12 inches.		
Verification Method:	Measured cut depth along excavation line	Date Verified/Initial: 7/10/13 GW/SS
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the concrete for the service sidewalk 4ft x 12ft, garage approach 10ft x 15ft and the driveway approach 15ft x 15ft.

Servinski/Fisher: Completed the soils dig out and importing and placing topsoil. The landscape beds were defined and edging installed. Shrubs and tree were planted and drainage stone and hardwood mulch were placed in the appropriate bed. The street sweeper was used as needed throughout the day. Catch basin filters and silt fence were in place and in good condition. At the end of the work day the site was cleaned up and barricades were set as needed.

*** Yards Out:**

30yds – Soil relocated to (Dow - Poseyville Landfill MAS Stockpile Area)
 15yds – Concrete and debris hauled to (Midland City Landfill) for disposal

*** Yards In:**

90yds – Topsoil
 10yds – Sand (Driveway)
 32yds – Stone Mix
 12yds – Drainage Stone
 6yds – Hardwood Mulch

**CONSTRUCTION QUALITY ASSURANCE FORM
MIDLAND RESOLUTION CENTER**

DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:

Gary Waugh

7/10/13

Field Representative Signature

Date

Weather: Partly cloudy, 70 – 81, light winds

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Swaney Property Mgt.	Property Address: 1120 Franklin
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Sugar Construction	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Bobcats• Sugar: Hand Tools
Field Person: Gary Waugh	Date: 7/11/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 6206	Yards In: 0	Yards Out: 0
Description of Cut Depth: All soils removed today within the remediation area were removed to an average depth of 12 inches.		
Verification Method:	Measured cut depth along excavation line	Date Verified/Initial: 7/10/13 GW/SS
Describe soils remaining: No remaining soils		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the concrete for the city sidewalk 4ft x 30ft.

Servinski/Fisher: The topsoil was pre seeded and final hand prepped. Hydro seed was applied. A final site cleanup was performed. Silt fence and catch basin filters were removed. 1120 Franklin is complete pending a walk through with the property owner.

Gary Waugh

7/11/13

Field Representative Signature

Date

Weather: Clear, 60 – 80, light winds

Green Remediation Assurance Form
Midland Resolution

Property Information

Property Owner: Swaney Property Mgt.

Contract Personnel: Pat's Trucking, Servinski

Property Address: 1120 Franklin St.

Field Person: Gary Waugh

Date: 7/10/2013

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
7530 sq. ft.

Area Excavated:
7494 sq. ft.

Total Area Not Excavated:
36 sq. ft.



0 15 30 60 Feet

Parcel 14-16-40-400
Midland Resolution Soil Replacement

Dow Midland Soils Remedy Worksheet

Site Address: 713 George St.

Parcel: 14-16-40-400

Date: 4-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)

7530

Area of yard (ft²) (area as sampled)

36

Area not remedied (ft²)

16

Surface Weighted Average (SWA) (ppt)

0%

% Undisturbed Remaining Soil (URS)

5.51E-06

Risk is acceptable if < or = 10⁻⁵

Indoor Dust

Remedy Result:

NO REMEDY

CONSTRUCTION QUALITY ASSURANCE FORM

MIDLAND RESOLUTION CENTER

PROPERTY INFORMATION

Property Owner: Chris Eibling Contract Personnel: <ul style="list-style-type: none"> M & M – 5/13/13 Servinski Fisher Reliable Plumbing Pats 	Property Address: 713 George St. Contractor Equipment: <ul style="list-style-type: none"> M & M: Stump Grinder Servinski: Bobcat, Excavator, Mini Excavator Fisher: Hand Tools Reliable: Hand Tools Pats: Trucks
Field Person: Gary Waugh	Date: 5/14/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 7378	Yards In: 110 * See Below	Yards Out: 325 * See Below
Description of Cut Depth: All soils within the remediation area square footage was removed to an average depth of 12 inches		
Verification Method:	Laser level was used to measure cut depth	Date Verified/Initial: GW/SS 5/14/13
Describe soils remaining: All soils within the remediation area square footage were removed.		

DESCRIPTION OF FIELD ACTIVITIES:

M & M: Was onsite 5/13/13 to grind the stumps from the tree removal.

Reliable Plumbing: Installed the backflow preventer and necessary plumbing to accommodate the irrigation system. When the contractor entered the basement of the house to determine the access point for the backflow preventer water supply, he detected a natural gas odor. Work was temporarily stopped and all equipment was shut down. Consumers Energy was contacted. Once Consumers arrived they checked the piping and detected a gas leak. After leak checking the gas pipes a union fitting was found to be loose and leaking gas. The Reliable Plumbing contractor repaired the union fitting, the gas was turned back on and the fitting was re tested and was not leaking.

Servinski/Fisher: Began and completed the soil dig out. The majority of the topsoil was imported placed and rough graded. Some sand and stone mix was also imported and placed for the driveway and the rear parking area.

* Yards Out:

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

310yds – Soil relocated to (Salzburg Landfill MAS Stockpile Area)

**CONSTRUCTION QUALITY ASSURANCE FORM
MIDLAND RESOLUTION CENTER**

DESCRIPTION OF FIELD ACTIVITIES – CONTINUED:

* Yards In:
50yds – Topsoil
45yds – Sand
15yds – Stone Mix

Silt fence was installed at the curb line along George St, equipment was barricaded and the street sweeper cleaned George 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: Chris Eibling	Property Address: 713 George St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats• Sugar Construction	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Bobcat, Dozer• Fisher: Hand Tools• Pats: Trucks• Sugar: Hand Tools
Field Person: Gary Waugh	Date: 5/15/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 7378	Yards In: * See Below	Yards Out: 0
Description of Cut Depth: See 5/14/13		
Verification Method:	See 5/14/13	Date Verified/Initial: GW/SS 5/14/13
Describe soils remaining: See 5/14/13		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the concrete for the sidewalks from the front porch to the city sidewalk 4ft x 21ft and from the front porch to the driveway 4ft x 18ft. Concrete for the sidewalk along the driveway and the drive approach is scheduled for 5/16/13.

Servinski/Fisher: Completed importing topsoil, sand and stone mix. Topsoil was final prepped and stone mix placed and graded on the driveway and parking area. Landscape beds were defined and edging installed. Shrubs and bushes were planted and drainage stone and hardwood mulch were placed in the appropriate bed. Sod placed and trimmed.

* Yards In:
15yds – Topsoil
60yds – Sand
90yds – Stone Mix

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: Chris Eibling	Property Address: 713 George St.
Contract Personnel: <ul style="list-style-type: none">• Servinski• Fisher• Pats• Sugar Construction	Contractor Equipment: <ul style="list-style-type: none">• Servinski: Bobcat, Dozer• Fisher: Hand Tools• Pats: Trucks• Sugar: Hand Tools
Field Person: Gary Waugh	Date: 5/16/13

DESCRIPTION OF SOILS REMOVAL

Remediation Area (Sq Ft): 7378	Yards In: 0	Yards Out: *See Below
Description of Cut Depth: See 5/14/13		
Verification Method:	See 5/14/13	Date Verified/Initial: GW/SS 5/14/13
Describe soils remaining: See 5/14/13		

DESCRIPTION OF FIELD ACTIVITIES:

Sugar Construction: Poured the concrete for the sidewalk along the north side of the house 6ft x 36ft (irregular shaped), city sidewalk section 4ft x 15ft and the drive approach 5ft x 15ft with flare.

Servinski/Fisher: Completed importing a placing drainage stone and hardwood mulch in the front landscape beds. Site cleanup was performed. 713 George is complete pending final walk through with the property owner.

* Yards In:
4yrds – Hardwood Mulch
5yrds – Drainage Stone

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: Chris Eibling Contract Personnel: Pat's Trucking, Servinski

Property Address: 713 George 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 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 ☐