Periodic Review Report

Tecumseh Phase III Business Park
Sites III-2, III-3 & III-4
NYSDEC Site Nos. C915199B-D
Lackawanna, New York

April 2019 0351-018-003

Prepared For:

Steel Sun 2 LLC

Prepared By:

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

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PERIODIC REVIEW REPORT

TECUMSEH PHASE III BUSINESS PARK
SITES III-2, III-3 & III-4
(BCP SITE NOS. C915199B, C915199C & C915199D)

2303 HAMBURG TURNPIKE
LACKAWANNA, NEW YORK

April 2019 B0351-018-004

Prepared for:

Steel Sun 2 LLC

Prepared By:

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PERIODIC REVIEW REPORT

Sites III-2, III-3 & III-4: C915199B, C915199C & C915199D

Table of Contents

PERIODIC REVIEW REPORT
Sites III-2, III-3 & III-4: C915199B, C915199C & C915199D
Table of Contents

LIST OF FIGURES

LIST OF TABLES

APPENDICIES

1.0 INTRODUCTION

Benchmark Environmental Engineering and Science, PLLC (Benchmark) has prepared this Periodic Review Report (PRR) to summarize the post-remedial status of New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site Nos. C915199B, C915199C and C915199D, located at 2303 Hamburg Turnpike in the City of Lackawanna, Erie County, New York.

This PRR has been prepared for the subject BCP Sites in accordance with NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (Ref 1). Appendix A includes the Institutional and Engineering Control (IC/EC) Certification Forms completed based on the Site inspections performed on April 9, 2019.

This PRR and associated certifications have been completed on behalf of the BCP Site owner, Tecumseh Redevelopment Inc. (Tecumseh), and lessee, Steel Sun 2 LLC, to document post-remedial activities covered by the Site Management Plan (Ref. 2). The post remedial period covered by this PRR is: March 15, 2018– March 15, 2019 for Sites III-2 and III-4 and April 14, 2018 – April 14, 2019 for Site III-3.

1.1 Site Background

In March 2007, Tecumseh entered into a Brownfield Cleanup Agreement (BCA) with NYSDEC to investigate and remediate an approximate 150-acre property located in Lackawanna, New York. The property, deemed the "Phase III Business Park," is located in the County of Erie, New York and encompasses tax parcel numbers 141.15-1-1 and 141.15-1-2, and a portion of tax parcel number 141.11-1-50 per Erie County Tax Map records. The Phase III Business Park is bounded by Gateway Metroport Ship Canal and property owned by Gateway Trade Center to the north; the South Buffalo Railroad Company to the south; Phase II Business Park Site and the South Return Water Trench (SRWT) to the east; and other Tecumseh property to the west (see Figures 1 and 2).

The Phase III Business Park was originally deemed BCP Site No. C915199 and subsequently subdivided into smaller BCP sub-parcels to facilitate remediation and redevelopment. On August 20, 2012, the original BCA for Site No. C915199 was amended to cover Site III-1, with separate BCAs issued and executed for the remaining nine BCP Site Nos. C915199B through C915199J (i.e., Sites III-2 through III-10).

Steel Sun 2 LLC is in the process of constructing e a commercial-scale photovoltaic solar electricity generation system on Site III-2 (Site No. C915199B; ±10.24 acres), III-3 (Site No. C915199C; ±10.36 acres), and a portion of Site III-4 (Site No. C915199D; ±16.19 acres). The Sites were remediated to Track 4 restricted (commercial) use with site-specific soil cleanup objectives (SCOs) consistent with the approved Remedial Action Work Plan (Ref. 8). The final remedial measures included placement of acceptable cover material in areas not otherwise covered by asphalt roadway, pavement, and building foundations.

1.2 Remedial History

1.2.1 Phase III Business Park

The approximate 150-acre Phase III Business Park was formerly part of the Bethlehem Steel Corporation (BSC) Lackawanna Works and housed several facilities used in BSC's steel manufacturing processes. Specific processes and steel making facilities performed on or proximate to the subject BCP Sites included:

- Open hearth furnaces
- Basic oxygen furnace
- Mold warming and preparation
- Electrical substations
- Wastewater treatment

Remedial Investigation (RI) activities on the Phase III Business Park were initiated in August 2008, with additional activities undertaken in late 2009 through early 2010. Some supplemental investigation work was also completed in 2011 and 2012. In accordance with the May 2008 RI/AA Work Plan (Ref. 5), approximately 86 test pits were completed across the Phase III Business Park.

The RI identified several constituents of potential concern (COPCs) that were generally present across the Phase III Business Park, primarily in soils and, to a lesser extent, groundwater. These included polyaromatic hydrocarbons (PAHs), arsenic, lead, and mercury. Isolated areas of petroleum impact were also encountered. The Remedial Investigation/ Alternatives Analysis (RI/AA) Report (Ref. 4) recommended remediation of "hotspot" slag/

fill (characterized by more pronounced levels of COCs) and isolated groundwater/ saturated soil impacts (affecting only select sites in the Phase III Business Park), with cover placement as the final remedial measure under a Track 4 Cleanup approach. Additional requirements included development and adherence to a Site Management Plan (SMP) and filing of an Environmental Easement to restrict use of the Phase III Business Park property to commercial and industrial applications and place other limitations on post-redevelopment activities. Site groundwater is not used at the Site and the Environmental Easement restricts its use for either potable or non-potable purposes without treatment.

1.2.2 Site III-2

During the RI, 10 test pits (identified as BP3-TP-67 through TP-70; BP3-TP-76 through TP-78; and BP3A-TP-1 through TP-3) were excavated and one monitoring well (MWS-35A) was installed on Site III-2.

The nature and extent of metals contamination at the Site was consistent with the former site use as a steel manufacturing facility. Soil/fill concentrations exceeded unrestricted and residential use SCOs. When compared to the commercial SCOs, arsenic, chromium, lead, manganese, and mercury were found to exceed. Seven semi-volatile organic compounds (SVOCs) (specifically PAHs) also exceeded commercial SCOs.

Groundwater sampling for SVOCs, volatile organic compounds (VOCs) and metals in January 2009 indicated that groundwater at the Site exceeded the NYSDEC Class GA Groundwater Quality Standards/Guidance Values (GWQS/GVs) for iron, phenol, and pH.

1.2.3 Site III-3

Two test pits (identified as BPA3-61 and BPA3-TP-62) were excavated on Site III-3 during the RI. The 0-2' interval within test pit BPA3-TP-62 was sampled per the RI Work Plan and found to contain concentrations of benzo(a)pyrene and arsenic slightly above the commercial SCOs. Sheen was observed on the water table in both test pits at approximately 7 feet below grade. In September 2011, test pit BPA3-TP-62 was excavated at the request of NYSDEC because of the observed sheen; no field evidence of sheen or migration to Smokes Creek was found.

Historic disposal of asbestos containing material (ACM) has been documented in a portion of the Site. It is reputed that the ACM was disposed in a 15-foot wide by 16-foot deep ingot buggy tunnel under the slab of the soaking pit building; however, surface sampling and test pit excavations during the RI failed to show widespread disposal.

1.2.4 Site III-4

During the RI, 11 test pits (identified as BP3-TP-71, BP3-TP-74, BP3-TP-75, and BP3A-TP-4 through BP3A-TP-11) were excavated and two monitoring wells (identified as MWS-31A and MWS-34A) were installed on Site III-4. Five additional test pits were completed to further delineate impacts observed in test pit BP3A-TP-8.

The nature and extent of metals contamination at the Site were consistent with the former site use as a steel manufacturing facility. Soil/fill concentrations exceeded unrestricted and residential use SCOs. Arsenic and mercury were detected at concentrations above commercial SCOs. SVOCs exceeding commercial SCOs included benzo(a)pyrene in 3 of 6 samples and dibenz(a,h)anthracene in 1 of 6 samples.

Groundwater sampling for SVOCs, VOCs, and metals conducted in January 2010 indicated exceedances of GWQS/GVs for arsenic, chrysene, and pH in well MWS-31A and naphthalene and pH in well MWS-04.

1.2.5 IRM Activities

No IRMs were necessary on Sites III-2 and III-3. The remediation of Site III-4 included an IRM to expedite remedial activities and facilitate redevelopment. In July 2013, Tecumseh submitted to NYSDEC an IRM Work Plan for Phase III Business Park Sub-Parcels III-4, III-6 and III-10 (Ref. 6). In August 2013, Site III-4 was remediated in accordance with the approved IRM Work Plan. The remedial work performed on Site III-4 and documented in the Construction Completion Report (Ref. 7) and on Figure 3 included:

- Excavating approximately 139 cubic yards (CY) of arsenic-impacted slag/fill surrounding Hotspot C (i.e., former Slabbing Mill Return Water Trench) with off-site disposal of 320.84 tons of material at the Chautauqua County Landfill (CCLF) in Ellery, NY.

- Excavating approximately 52 CY of arsenic-impacted slag/fill surrounding Hotspot E (i.e., test pit BP3A-TP-6) with off-site disposal of 215.67 tons of material at the CCLF in Ellery, NY.
- Collecting documentation samples from the floor and sidewalls of each hotspot excavation for comparison to the arsenic Site-Specific Action Level (SSAL) of 118 ppm. All detections for Hotspot C fell below the SSAL and no further excavation work was completed. For Hotspot E, the west and south sidewall sample results were above 118 ppm; therefore, additional material was removed. The re-sample results for these areas were below the arsenic SSAL of 118 ppm.
- Grading of the excavation sides was performed instead of importing backfill since Site redevelopment was pending and the excavations were shallow.

1.3 Compliance

At the time of the annual Site inspection (4/9/19), the Site was compliant with the NYSDEC-approved SMP (Ref 2). One minor disturbance of the cover system within the drainage ditch on the south side of Site III-4 was noted. A water line repair necessitated temporary cover removal and repair along the alignment of the line, which runs N-S through the trench into the storage building on Site III-4. Benchmark will oversee the cover repair work and document the repairs in the next PRR, which will necessitate replacement of subgrade materials beneath a demarcation layer and replacement of clean oversize slag cover to a minimum thickness of 1 foot. Repairs will be made in April 2019.

1.4 Recommendations

Based on observations recorded during the Site inspection and IC/EC certification, no modifications are recommended at this time.

2.0 SITE OVERVIEW

All remediated properties within the Phase III Business Park are subject to a comprehensive, site-wide SMP that identifies requirements for monitoring and maintenance of engineering and institutional controls and procedures for post-remedial excavation and related activities. Specific requirements affecting individual Sites within Phase III Business Park are included as appendices to the comprehensive plan. These appendices are prepared once a Phase III Business Park Site is remediated. Final remedial activities undertaken on Sites III-2, III-3 and III-4 are described below.

2.1 Final Remedial Measures

Benchmark Environmental Engineering & Science, PLLC in association with TurnKey Environmental Restoration, LLC (Benchmark-TurnKey) was retained by Steel Sun 2 LLC (and 1951 Hamburg Turnpike, LLC for Site III-4) to serve as the design-builder and Engineer of Record for the BCP activities with oversight provided by the NYSDEC. Benchmark-TurnKey performed the remedial work on a design-build basis with assistance from Zoladz Construction Company, Inc., the designated remedial subcontractor, in accordance with an NYSDEC-approved Remedial Action Work Plan (Ref. 8). Final remedial measures completed at Sites III-2, III-3 and III-4 included:

- Clearing, grubbing, and moderately re-grading to prepare the area for cover.
- Placing a demarcation layer beneath the cover system
- Constructing and maintaining a cover system to prevent human exposure to remaining contaminated soil/fill. As shown on Figure 4, the cover system consists of one foot of Beneficial Use Determination (BUD)-approved aggregate (NYSDEC BUD #555-9-15) as well as sand material from the Tonawanda Terminals Corporation Biotreatment Facility capable of supporting vegetation for areas not covered by asphalt roadways, existing building slabs, and existing active rail and stone bedding. On Site III-3, an additional foot of BUD-approved aggregate (2 feet total) was placed over the area of suspected buried ACM.

The remedial program was successful in achieving the remedial objectives for the Site. The Final Engineering Reports (FER) were approved in December 2016 (Refs. 9 and 10). NYSDEC issued COCs for Sites III-2, III-3 and III-4 in December 2016.

3.0 REMEDY PERFORMANCE

A post-remedial site inspection involving a walk-over of the Sites covered by this PRR was performed on April 9, 2019 to visually observe and document the use of the Site for commercial/industrial use, confirm absence of Site groundwater use, inspect the integrity of the cover system, and verify conformance with other requirements under the SMP. The Site inspection confirmed that the controls are in-place and functioning as intended in accordance with the SMP. As indicated above, a water line repair necessitated temporary cover removal and repair along the alignment of the line, which runs N-S through the trench into the storage building on Site III-4. Benchmark will oversee this minor cover repair work and document the repairs in the next PRR, which will necessitate replacement of subgrade materials beneath a demarcation layer and replacement of clean oversize slag cover to a minimum thickness of 1 foot. The repairs will be made in April 2019.

Appendix A includes the completed IC/EC Certification forms, and Appendix B includes photographs taken during the inspection.

4.0 SITE MANAGEMENT PLAN

A site-wide SMP was prepared for the Phase III Business Park in July 2015 and approved by NYSDEC. Parcel-specific SMP requirements for Sites III-2, III-3 and III-4 were added by addenda in October 2016 and are presented in SMP Appendices H-2, H-3 and H-4. Key components of the SMP are described below.

4.1 Institutional and Engineering Control (IC/EC) Plan

Since remaining contaminated soil/fill and groundwater exists beneath the Phase III Business Park, institutional and engineering controls are required to protect human health and the environment. The IC/EC Plan describes the procedures for the implementation and management of all IC/ECs on the Sites within the Phase III Business Park.

4.1.1 Institutional Controls

The following institutional controls apply to all Sites within the Phase III Business Park:

- The use and development of the property is restricted to commercial and industrial uses as defined by Part 375-1.8(g), although land use is subject to local zoning laws.
- Groundwater cannot be used as a source of potable or process water, without necessary water quality treatment as determined by the New York State Department of Health (NYSDOH) or County DOH.
- All Sites must comply with the NYSDEC-approved SMP.
- The remedial party or site owner must complete and submit to the NYSDEC a periodic certification of institutional and engineering controls in accordance with Part 375-1.8(h)(3.)
- There are no site-specific institutional control requirements except for the area of suspect buried ACM on Site III-3 where no enclosed structure or building that could provide temporary or permanent human occupancy is allowed.

4.1.2 Engineering Controls

Engineering controls covering Sites within the Phase III Business Park include:

- Cover System: The cover system, including building foundations, concrete sidewalks, concrete or asphalt driveways, parking areas, and landscaped vegetated areas, must be maintained in compliance with the SMP.
- Vapor Barrier (specific to Sites with buildings): A poly vapor barrier must be installed and remain in-place beneath building concrete floor slab.

At the time of the site inspection, the Sites covered by this PRR were compliant with IC/EC requirements with the minor exception of a water line repair that will necessitate cover system replacement, but this will be undertaken in April 2019 and documented in the next PRR.

4.2 Excavation Work Plan

An Excavation Work Plan (EWP) was included in the approved SMP for the Phase III Business Park. The EWP provides guidelines for the management of soil/fill material during any future intrusive actives. Any intrusive work that will penetrate the cover or cap, or encounter or disturb the remaining contamination, including any modifications or repairs to the existing cover system, must be performed in compliance with the EWP and must also be conducted in accordance with a site-specific Health and Safety Plan (HASP) and Community Air Monitoring Plan (CAMP) meeting the minimum requirements of the sample HASP and CAMP included with the SMP.

For Sites III-2, III-3, and III-4, no intrusive activities requiring management of on-site soil or fill material; placement of backfill materials or disturbance of the cover system occurred during the monitoring period with the exception of;

- On June 8, 2018, Modern Electric removed the existing electric poles on Site III-4 and installed new electric poles outside of the western boundary of Site III-4.. BUD approved slag was used to backfill areas where electric poles were removed.
- On July 24, 2018, chain-link fence was installed on Sites III-2, III-3, and III-4 as part of the on-going commercial-scale photovoltaic solar electricity generation system construction. No spoils were generated during fence installation activities.

- On December 27, 2018, National Grid installed electric poles on Site III-3 and Site III-4. Electric pole installation spoils were taken to Site III-10 to be used as fill beneath the final cover system.

No other materials were imported or exported from the Site during these activities.

4.3 Annual Inspection and Certification Program

The Annual Inspection and Certification Program outlines requirements for certifying and attesting that the IC/ECs employed on the Sites are unchanged from the original design and/or previous certification. The Annual Certification includes a site inspection and completion of the NYSDEC's IC/EC Certification Form. The Site inspection is intended to verify that the IC/ECs:

- Are in place and effective.
- Are performing as designed.
- That nothing has occurred that would impair the ability of the controls to protect the public health and environment.
- That nothing has occurred that would constitute a violation or failure to comply with any operation and maintenance plan for such controls.
- Access is available to the Site to evaluate continued maintenance of such controls.

Inspection of Sites III-2, III-3 and III-4 was conducted by Mr. Thomas Forbes, P.E. of Benchmark on April 9, 2019. Mr. Forbes is a licensed and registered NY State Professional Engineer and meets the requirements of a Qualified Environmental Professional (QEP) per 6NYCRR Part 375.12. At the time of the inspection, Sites III-2 and III-3 were vacant and a portion of Site III-4 was occupied by Benchmark-Turnkey as an equipment storage garage. No observable indication of intrusive activities was noted during the Site inspection with the exception of the minor water line repair disturbance described above.

Appendix A includes the completed Site Management PRR Notice – Institutional and Engineering Controls Certification Forms. Appendix B includes a PRR photo log.

4.4 Operation, Monitoring and Maintenance Plan

The remedy for Sites III-2, III-3 and III-4 does not rely on any mechanical systems such as sub-slab depressurization or soil vapor extraction, to protect public health and the environment. Therefore, an Operation and Maintenance Plan is not required.

5.0 GROUNDWATER MONITORING

Appendices H-2, H-3 and H-4 of the SMP require groundwater monitoring at wells MWS-04, MWS-31A, MWS-34A, and MWS-35A on an annual basis for a period of approximately two years, after which the need for continued monitoring or a revision to the monitoring program will be discussed with the NYSDEC. In 2017 NYSDEC requested that monitoring well MW-12A also be sampled to provide a background upgradient comparison; this was completed in 2017, but as of 2018 MW-12A was located on property transferred to another Volunteer and was not repeated during the second event.

Benchmark-TurnKey personnel performed the annual groundwater monitoring event on November 5, 2018. Groundwater was analyzed for VOCs, SVOCs (base neutrals only), site-specific metals (i.e., arsenic, chromium, lead, and mercury), and field parameters (i.e., pH, temperature, specific conductance, turbidity, dissolved oxygen, and oxidation-reduction potential).

Appendix C includes the analytical data package and field data sheets. Table 1 summarizes the post COC groundwater monitoring events completed in accordance with the SMP (February 2016, November 2017, and November 2018), along with groundwater data collected during the RI, and provides a comparison to GWQS/GVs. The majority of the November 2018 results were reported as non-detect, and all detections were reported at concentrations well below GWQS/GVs with the exception of pH at wells MWS-31A and MWS-35A. All groundwater results from upgradient well MW-12A were either non-detect or well below GWQS/GVs in 2017.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions and recommendations are as follows:

- At the time of the Site inspection, Sites III-2, III-3, and III-4 were in compliance with the SMP; a repair to a water line on the southern side of Site III-4 is underway and associated minor cover restoration will be completed in April 2019 and documented in the next PRR.

The following modifications are recommended for the Site:

- Discontinuance of groundwater monitoring per the SMP. Two years of monitoring are complete and groundwater analytical results from the November 2018 monitoring event were below their respective Class GA GWQS or non-detect with the exception of elevated pH at two of the monitoring locations.

No other modifications of the SMP are recommended at this time.

7.0 DECLARATION/LIMITATION

This PRR has been prepared for the exclusive use of Steel Sun 2 LLC. The contents of this PRR are limited to information available at the time of the Site inspection. The findings herein may be relied upon only at the discretion of Steel Sun 2 LLC. Use of or reliance upon this PRR or its findings by any other person or entity is prohibited without written permission of Benchmark Environmental Engineering & Science, PLLC.

8.0 REFERENCES

1. New York State Department of Environmental Conservation. *DER-10/ Technical Guidance for Site Investigation and Remediation.* May 3, 2013.
2. TurnKey Environmental Restoration, LLC. *Site Management Plan for Tecumseh Phase III Business Park.* Revised July 2015.
3. TurnKey Environmental Restoration, LLC. *Interim Remedial Measures (IRM) Work Plan for Phase III Business Park, Lackawanna, New York.* July 2013.
4. TurnKey Environmental Restoration, LLC. *Remedial Investigation/Alternatives Analysis Report for Phase III Business Park, Lackawanna, New York.* Revised July 2012.
5. TurnKey Environmental Restoration, LLC. *Remedial Investigation/Alternatives Analysis Report (RI/AAR) Work Plan for Phase III Business Park Area, Lackawanna, New York.* May 2008.
6. TurnKey Environmental Restoration, LLC and Benchmark Environmental Engineering & Science, PLLC. *Interim Remedial Measures (IRM) Work Plan, Phase III Business Park, Sub-Parcels III-4, III-6 and III-10, Lackawanna, New York, BCP Site Nos. 915199D, C915199F, and C915199J.* July 2013.
7. TurnKey Environmental Restoration, LLC and Benchmark Environmental Engineering & Science, PLLC. *Construction Completion Report, Metal-Impacted Hotspots, Business Park Sub-parcels III-4, III-6 & III-10, Lackawanna, New York, BCP Sites C915199D, C915199F & C915199J.* January 2014.
8. Benchmark Environmental Engineering & Science, PLLC. *Remedial Action Work Plan, Steel Sun 2 Site, Lackawanna, New York, BCP Site Nos. C915199B, C915199C, C915199D, & C915199I.* August 2015.
9. Benchmark Environmental Engineering & Science, PLLC. *Final Engineering Report, Tecumseh Phase III Business Park Sites III-2 & III-3, NYSDEC Site Nos. C915199B/C915199C, Lackawanna, New York.* November 2016.
10. Benchmark Environmental Engineering & Science, PLLC. *Final Engineering Report, Tecumseh Phase III Business Park Site III-4, NYSDEC Site No. C915199D, Lackawanna, New York.* November 2016.

FIGURES

FIGURE 1

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

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PROJECT NO.: 0351-018-004

DATE: MARCH 2019

DRAFTED BY: RPL/CCB

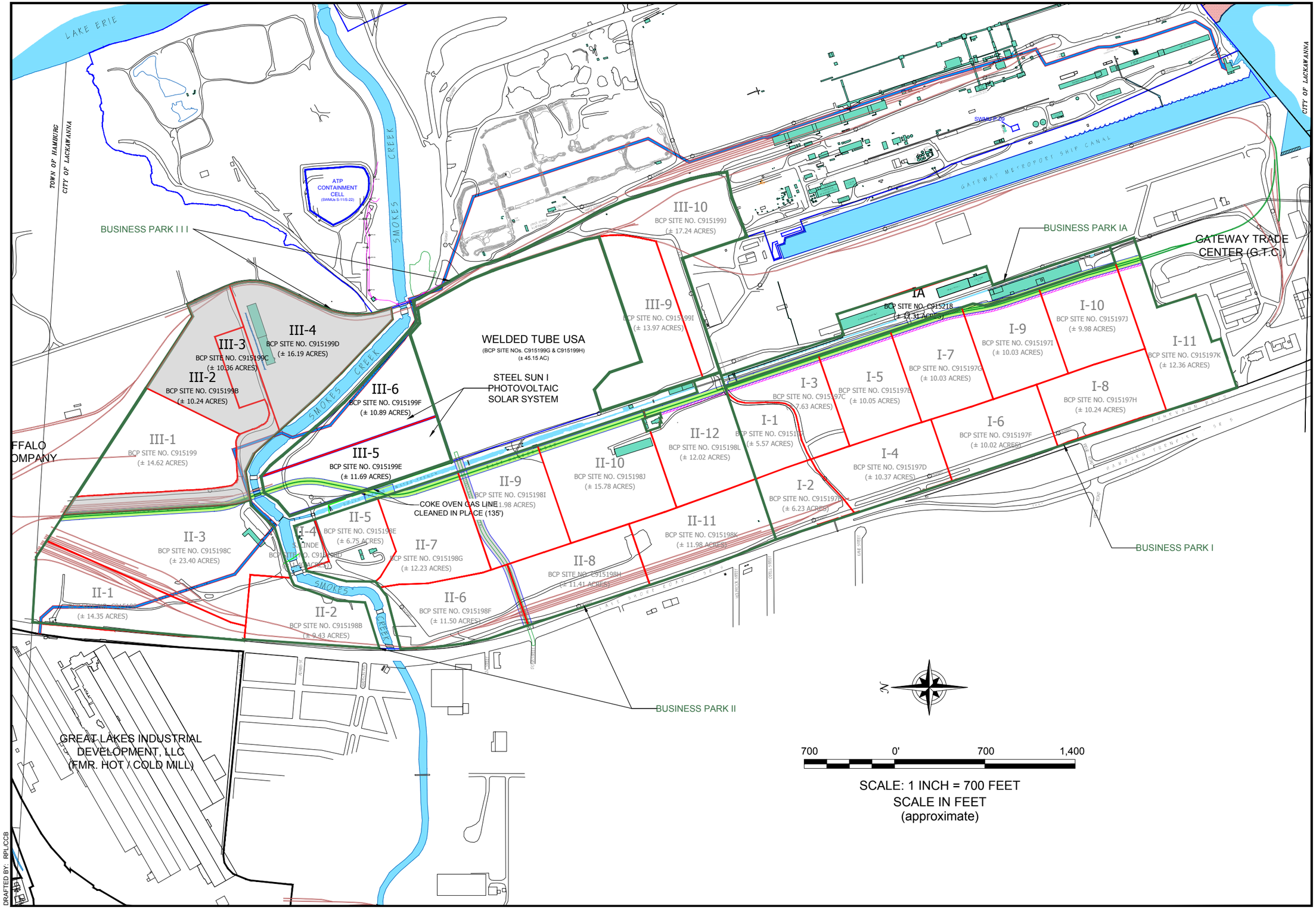
REGIONAL MAP

PERIODIC REVIEW REPORT

TECUMSEH PHASE III BUSINESS PARK
SITES III-2, III-3, & III-4
LACKAWANNA, NY

PREPARED FOR

STEEL SUN 2, LLC



DATE: MARCH 2019
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JOB NO.: 0351-018-004

VICINITY MAP

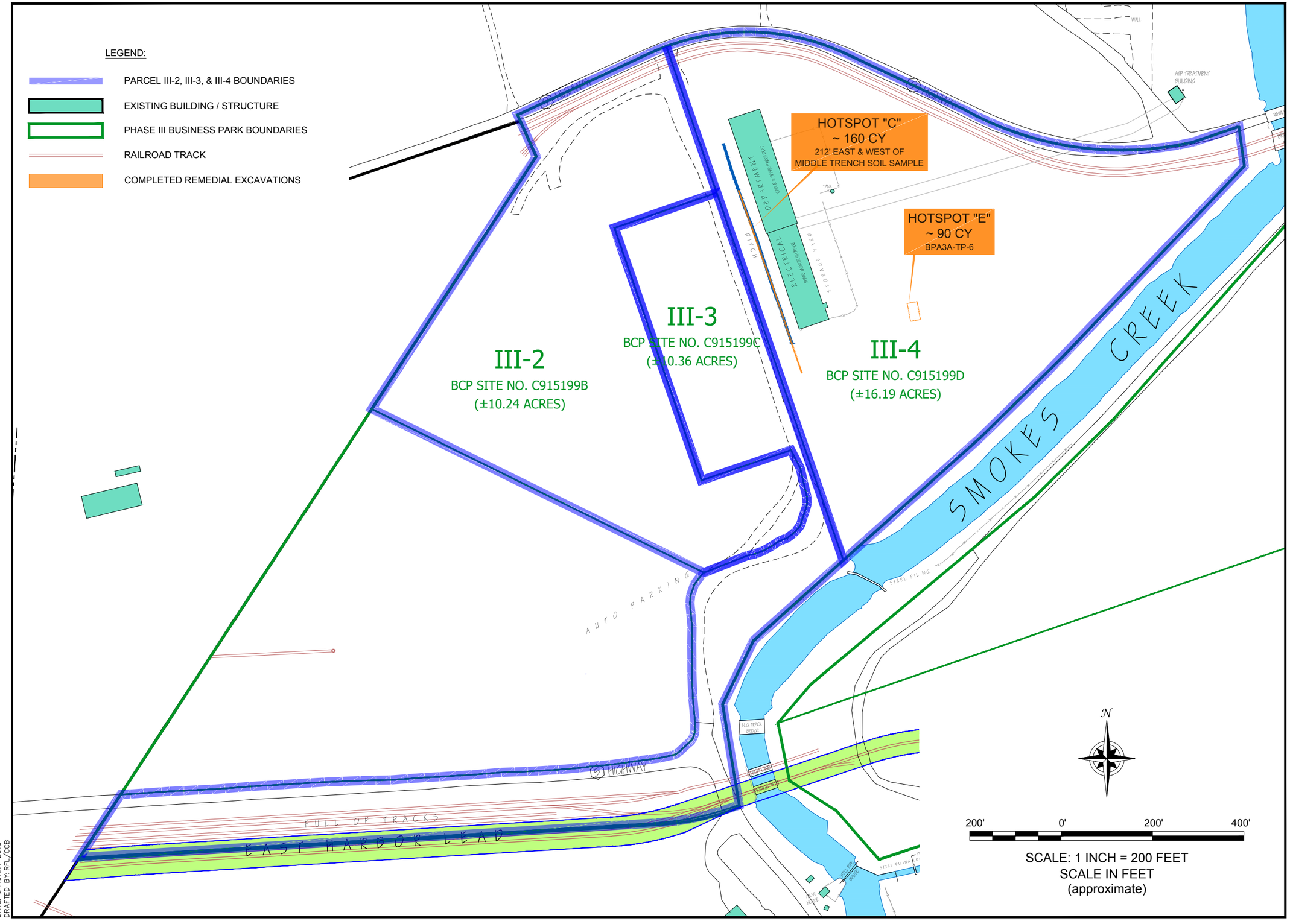
PERIODIC REVIEW REPORT
TECUMSEH PHASE III BUSINESS PARK
SITE III-2, III-3, & III-4
LACKAWANNA, NY
PREPARED FOR
STEEL SUN 2, LLC

FIGURE 2

F:\CAD\Benchmark\Steel Sun 2, LLC\2017 PRR\Figure 3-III-2, III-3, & III-4 Remedial Actions.dwg, 1/11/2018 3:57:37 PM, DWG To PDF.pc3

LEGEND:

- PARCEL III-2, III-3, & III-4 BOUNDARIES
- EXISTING BUILDING / STRUCTURE
- PHASE III BUSINESS PARK BOUNDARIES
- RAILROAD TRACK
- COMPLETED REMEDIAL EXCAVATIONS



DATE: JANUARY 2018
DRAFTED BY: RFL/CCB

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JOB NO.: 0351-017-003

REMEDIAL ACTIONS ON SITES III-2, III-3, & III-4

PERIODIC REVIEW REPORT

TECUMSEH PHASE III BUSINESS PARK
SITES III-2, III-3, & III-4
LACKAWANNA, NY

PREPARED FOR
STEEL SUN 2, LLC

FIGURE 3

F:\CAD\Benchmark\Steel Sun 2, LLC\2018 PRR\Figure 4; Site-Wide Cover System.dwg

LEGEND:

- BUSINESS PARK BOUNDARY
- SITE III-2, III-3, & III-4 BOUNDARIES
- EXISTING BUILDING / STRUCTURE
- RAILROAD TRACK
- EXISTING ASPHALT PAVEMENT
- 1' BUD-APPROVED SLAG COVER OVER DEMARCATION LAYER
- 1' APPROVED SOIL COVER OVER DEMARCATION LAYER (SEEDED)
- SECURITY BERM AREA 1' APPROVED SOIL COVER OVER DEMARCATION LAYER (SEEDED)
- 2' BUD-APPROVED SLAG COVER OVER DEMARCATION LAYER
- MWS-35A MONITORING WELL

4 FOOT HIGH SECURITY BERM

KEY IN COVER AT PAVEMENT & RAILROAD TRACKS

SOIL & SLAG COVER KEYED-IN AT RAILROAD TRACKS

(5) HIGHWAY

SITE III-4 "A" PARCEL C915199D (± 4.56 ACRES)

SITE III-4 "B" PARCEL C915199D (± 11.63 ACRES)

SITE III-3 "A" PARCEL C915199C (± 3.34 ACRES)

SITE III-2 C915199B (± 10.24 ACRES)

MWS-04

MWS-31A

MWS-35A

MWS-34A

SMOKES CREEK

PLANNED STEEL SUN 2 DEVELOPMENT AREA

SLAG IN TRENCH (SEE DETAIL B)

SOIL & SLAG COVER KEYED-IN AT ROAD

TRENCH FILLED WITH SOIL FROM ON-SITE CUTS COVERED WITH 1' BUD-APPROVED 2" SLAG

BOAT ACCESS RAMP SEE DETAIL A

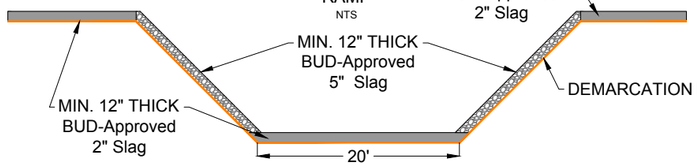
COVER KEYED-IN AT EDGE OF ROADWAY

COVER KEYED-IN AT EDGE OF ROADWAY AND RAILROAD TRACKS

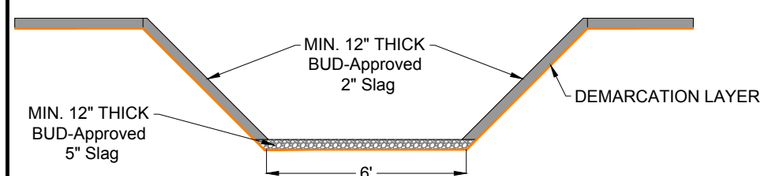
SITE III-3 "B" PARCEL C915199C (± 7.02 ACRES)

EAST HARLEM ROAD

DETAIL A
10-12' DEEP CREEK ACCESS RAMP
NTS



DETAIL B
6' DEEP DITCH
NTS



N

200' 0' 200' 400'

SCALE: 1 INCH = 200 FEET
SCALE IN FEET
(approximate)

DATE: MARCH 2019
DRAFTED BY: RFL/CCB

SITE WIDE COVER SYSTEM

PERIODIC REVIEW REPORT
TECUMSEH PHASE III BUSINESS PARK
SITES III-2, III-3, & III-4
LACKAWANNA, NY
PREPARED FOR
STEEL SUN 2, LLC

FIGURE 4

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JOB NO.: 0351-018-004

TABLE

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

PERIODIC REVIEW REPORT

Tecumseh Phase III Business Park: Sites III-2, III-3 & III-4
Lackawanna, New York

Parameter [1]	Sample Location																												GWQS [3]
	MWS-04 1/21/2010		MWS-04 2/24/2016		MWS-04 11/29/2017		MWS-04 11/5/2018		MWS-31A 1/21/2010		MWS-31A 2/25/2016		MWS-31A 11/29/2017		MWS-31A 11/5/2018		MWS-34A 1/16/2009		MWS-34A 2/25/2016		MWS-34A 11/29/2017		MWS-34A 11/5/2018		MWS-35A 1/19/2009		MWS-35A 2/25/2016		MWS-35A 11/29/2017		MWS-35A 11/5/2018		MW-12A 3/7/06		MW-12A 2/23/16		MW-12A 11/29/2017		
	BPA-III-4																								BPA-III-2								Upgradient						
Field Measurements [4]:																																							
Sample No.	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	--
pH (units)	**9.57**	**9.90**	7.52	7.50	6.99	7.04	7.00	7.20	**9.37**	**9.41**	**10.26**	**10.23**	**10.24**	**10.24**	**10.69**	**10.70**	7.07	7.16	7.41	7.51	7.33	7.38	7.31	7.33	**11.30**	**11.19**	**8.56**	**8.71**	7.34	7.37	8.47	**8.60**	**9.69**	**9.46**	**8.84**	**8.89**	8.27	8.36	**6.5 - 8.5**
Temperature (^{o}C)	10.5	10.1	8.9	9.0	12.7	12.9	12.9	13.1	8.7	9.0	8.5	8.4	12.3	12.5	14.8	15.1	7.9	8.9	8.3	7.9	13.0	11.8	15.5	15.2	8.2	7.7	9.0	8.3	12.9	12.9	15.0	15.0	7.7	5.6	9.2	9.1	12.3	11.5	**NA**
Sp. Conductance (mS)	506.5	537.5	877.5	874.4	1403	1382	932.6	779.1	539.2	547	445.8	444	492.8	496	552.0	554	933.6	902.4	897.1	883.2	1042	1038	1076	1085	544.6	482.4	506.5	509.5	616.9	592.7	516.4	503.8	507.2	482.7	385.2	394.3	457.7	466.8	**NA**
Turbidity (NTU)	33.50	25	14.9	8.11	4.06	3.28	1.98	1.78	>1000	361	18.9	11.2	15.5	7.65	8.97	14.4	25.8	19.5	4.12	4.53	8.44	7.58	5.73	2.75	37.5	22.7	7.27	7.09	49.4	48.8	15.5	7.8	15.7	21.4	16.4	8.88	9.9	46.8	**NA**
DO (ppm)	--	--	6.08	5.88	1.97	1.88	1.81	1.10	--	--	2.04	1.92	2.17	1.89	1.24	1.29	1.31	1.09	1.79	1.61	2.48	2.79	1.27	1.37	1.50	1.39	2.21	2.40	1.58	1.53	0.93	0.98	--	--	2.90	3.09	1.83	2.00	**NA**
Eh (mV)	-121	-149	12	15	118	110	--85	--73	-64	-63	27	22	-65	-68	-137	-134	-119	-118	-118	-117	-152	-149	-134	-134	-169	-161	-114	-87	-169	-172	-228	-228	-79	-79	-50	-38	-155	-158	**NA**
Metals (mg/L): [5]																																							
Aluminum - Total	--		--		--		--		--		--		--		--		--		--		--		--		1.5		--		--		--		307		--		--		**--**
Arsenic - Total	0.0225		0.0065 J		ND		0.01074		**0.0334**		0.016		0.022		0.0185		0.0168		0.014 J		0.019		0.01402		0.016		ND		ND		0.00395		ND		ND		ND		**0.025**
Barium - Total	--		0.032		--		--		--		0.015		--		--		--		0.065		--		--		0.0534		0.14		--		--		**8.7**		0.025		--		**1**
Calcium - Total	--		--		--		--		--		--		--		--		--		--		--		--		83.5		--		--		--		57,200				--		**--**
Chromium Hexavalent	--		ND		--		--		--		ND		--		--		--		--		--		--		**--**		ND		--		--		ND		ND				**0.05**
Chromium - Total	ND		0.0052		ND		0.00075 J		0.0147		ND		ND		0.0004 J		ND		--		ND		0.00053 J		0.0102		ND		0.0082		0.0005 J		ND		ND		ND		**0.05**
Copper - Total	--		0.006 J		--		--		--		ND		--		--		--		ND		--		--		ND		ND		--		--		ND		ND				**0.2**
Iron - Total	--		--		--		--		--		--		--		--		--		--		--		--		**2.49**		--		--		--		**248**				--		**0.3**
Lead - Total	ND		ND		ND		ND		0.0213		ND		ND		0.00068 J		ND		--		ND		ND		0.0114		ND		0.013		0.00071 J		ND		ND		0.015		**0.025**
Magnesium - Total	--		--		--		--		--		--		--		--		--		--		--		--		2.41		--		--		--		**2,260**				--		**35***
Manganese - Total	--		0.044		--		--		--		0.034		--		--		--		**0.39**		--		--		0.21		**0.51**		--		--		74.3		**1 B**		--		**0.3**
Mercury	--		ND		ND		ND		--		ND		ND		ND		--		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		
Nickel - Total	--		0.0066 J		--		--		--		ND		--		--		--		ND		--		--		ND		ND		--		--		ND		ND		--		**0.1**
Potassium - Total	--		--		--		--		--		--		--		--		--		--		--		--		15.8		--		--		--		7,390		--		--		**--**
Sodium - Total	--		--		--		--		--		--		--		--		--		--		--		--		10.6		--		--		--		**44,000**		--		--		**20**
Vanadium - Total	--		--		--		--		--		--		--		--		--		--		--		--		0.0079		--		--		--		ND		--		--		**--**
Zinc - Total	--		0.024 J		--		--		--		ND		--		--		--		ND		--		--		0.017		ND		--		--		ND		ND		--		**2***
Cyanide - Total	--		0.1		--		--		--		0.092		--		--		--		0.07 JB		--		--		ND		0.0056 J		--		--		ND		ND		--		**0.2**
Volatile Organic Compounds (ug/L):																																							
Acetone	--		ND		ND		ND		--		ND		ND		ND		**--**		ND		ND		ND		ND		ND		7.8 J		ND		3 J		ND		ND		**50***
1,2,4-Trichlorobenzene	--		ND		ND		ND		--		ND		ND		ND		--		ND		ND		ND		ND		ND		ND		ND		1.9 J		ND		ND		
Benzene	ND UJ		0.93 J		**4.4**		0.54		ND		ND		ND		ND		0.035 J		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		**1**
Carbon Disulfide	--		0.24 J		ND		ND		--		ND		ND		ND		--		ND		ND		ND		ND		ND		ND		ND		--		ND		ND		**--**
Methylene Chloride	--		ND		ND		ND		--		ND		ND		ND		--		ND		ND		ND		ND		ND		ND		ND		--		ND		ND		**5**
Methyl tert-butyl ether	ND UJ		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		**10**
Methylcyclohexane	--		ND		ND		ND		--		ND		ND		ND		--		ND		ND		ND		ND		ND		ND		ND		--		ND		ND		**--**
n-Butylbenzene	--		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		--		ND		ND		**5**
Toluene	1.1 D,J,NJ		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		**5**
Xylenes, Total	1.2 D,J,NJ		ND		ND		ND		ND		ND		ND		ND		0.085 J		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		**5**

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

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Lackawanna, New York

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	BPA-III-4												BPA-III-2				Upgradient			
Semi-Volatile Organic Compounds (ug/L):																				
4-Nitroaniline	ND L4	ND	ND***	ND***	ND L4 UJ	ND	ND***	ND***	1.7 J	ND	ND***	ND	ND	ND	ND	ND	ND	ND	ND	--
Acenaphthene	0.58 J	ND	ND	0.09 J	ND	ND	ND	ND	ND	0.6 J	ND	0.29	ND	ND	ND	ND	ND	ND	ND	20
Acenaphthylene	2.3 J	ND	ND	0.34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Acetophenone	ND	ND	ND	ND	ND	ND	ND	ND	0.96 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Anthracene	ND	ND	ND	0.06 J	ND	ND	ND	ND	ND	0.49 J	ND	0.48	ND	ND	ND	ND	ND	ND	ND	50
Benzaldehyde	ND	0.67 JB	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.22 J**	ND	ND	ND	ND	ND	ND	**0.002***
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.032 J**	ND	ND	ND	ND	ND	ND	**0.002***
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.32 J**	ND	ND	ND	ND	ND	ND	**0.002***
Benzo(k)fluoranthene	|	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002
Benzo(ghi)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.34 J	ND	ND	ND	ND	ND	ND	--
Bis(2-ethylhexyl) phthalate	2.3 J	ND	ND	ND	2.5 J	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	5
Carbazole	9.1	ND	0.56 J***	2.7 J***	ND	ND	ND***	ND***	ND	ND	ND***	ND		ND	ND	ND	ND	ND	ND	--
Chrysene	ND	ND	ND	ND	**0.33 J**	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	0.002
Dibenzofuran	1.8 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	--
Diethyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	0.25 J	ND	ND	ND	0.27 J	ND	ND	ND	ND	ND	ND	**50***
Di-n-butyl phthalate	ND	ND	ND	ND	ND	ND	ND	ND	0.53 J	ND	ND	ND	0.29 J	ND	ND	ND	ND	ND	ND	**50***
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	0.29 J	ND	ND	0.1	0.31 J	ND	ND	0.05 J	ND	ND	ND	**50***
Fluorene	2.6 J	ND	ND	0.13	ND	ND	ND	ND	0.5 J	ND	ND	ND		ND	ND	ND	ND	ND	ND	**50***
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.24 J	ND	ND	ND	ND	ND	ND	**0.002***
Naphthalene	**34**	ND	ND	**27**	ND	ND	ND	ND	ND	ND	ND	0.09 J	0.22 J	ND	ND	ND	ND	ND	ND	**10***
Phenanthrene	2.6 J	ND	ND	0.05 J	ND	ND	ND	ND	0.47 J	ND	ND	ND	0.33 J	ND	ND	0.04 J	ND	ND	ND	**50***
Phenol	--	--	--	--	--	--	--	--	--	;--	--	--	**21**	--	--	--	--	--	--	**1****
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.19	0.34 J	ND	ND	0.04 J	ND	ND	ND	**50***

Notes:

1. Only those compounds detected above the method detection limit at a minimum of one sample location are reported in this table.
3. NYSDEC Class "GA" Groundwater Quality Standards (GWQS) per 6NYCRR Part 703.
4. Field measurements were collected immediately before and after groundwater sample collection.
5. COPC metals include arsenic, barium, beryllium, cadmium, total chromium, hexavalent chromium, copper, lead, manganese, mercury, nickel, selenium, silver, and zinc.
6. Soluble metals sample was collected when turbidity was above 50 NTUs.

Acronyms:

J = Estimated Value
H = Sample was prepped or analyzed beyond specified holding time.
B = Analyte was present in the blank.
ND = Parameter was not detected above laboratory reporting limit and is reported herein as not detected (ND).
NA = Not applicable.
" * " = The Guidance Value was used where a Standard has not been established.
" ** " = The general standard of 1.0 ug/L for phenolic compounds was used.
" *** " = LCS or LCSD is outside acceptance limits.
ND = Qualifier from data validation.

BOLD = Result exceeds the GWQS/GV.

APPENDIX A

INSTITUTIONAL & ENGINEERING CONTROLS CERTIFICATION FORMS

APPENDIX A1

SITE III-2

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **C915199B**

Site Name Site III-2 Tecumseh Phase III Business Park

Site Address: 2303 Hamburg Turnpike Zip Code: 14218
City/Town: Lackawanna
County: Erie
Site Acreage: 10.240

Reporting Period: March 15, 2018 to March 15, 2019

	YES	NO
1. Is the information above correct?	☑	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☑
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? July 2018 Change of Use Notice for construction and operation of a commercial-scale photovoltaic solar electricity generation system.	☑	☐
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☑
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form. Attached in Appendix A		
5. Is the site currently undergoing development?	☑	☐

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☑	☐
7. Are all ICs/ECs in place and functioning as designed?	☑	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☑

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☑	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C915199B **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
141.11-1-50	Tecumseh Redevelopment Inc.	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

Institutional Control Description:

Adherence to Site Management Plan (SMP)
Restriction to commercial re-use
Prohibition of groundwater use
Allowance for Departmental access
Requires a Periodic Review and Report

Box 4

Description of Engineering Controls

Parcel	Engineering Control
141.11-1-50	Cover System

Engineering Control Description:

Soil cover over 5 acres

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
✓	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
✓	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C915199B

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Timothy M. Ryan (print name) at Steel Sun 2 LLC, 400 Market Industrial Park, Suite 32, Wappingers Falls NY 12590 (print business address),

am certifying as Remedial Party (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

April 9, 2019
Date

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Thomas H. Forbes, P.E. (print name) at Benchmark Environmental Engineering 2558 Hamburg Turnpike, Buffalo NY 14218 (print business address),

am certifying as a Qualified Environmental Professional for the Remedial Party (Owner or Remedial Party)

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Date 4-9-19

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

60-Day Advance Notification of Site Change of Use, Transfer of Certificate of Completion, and/or Ownership

Required by 6NYCRR Part 375-1.11(d) and 375-1.9(f)

To be submitted at least 60 days prior to change of use to:

Chief, Site Control Section
New York State Department of Environmental Conservation
Division of Environmental Remediation, 625 Broadway
Albany NY 12233-7020

I. Site Name: Tecumseh Phase II Business Park Sites III-2, III-3, III-4 and III-9 **DEC Site ID No.** C915199B C915199C C915199D C915199I

II. Contact Information of Person Submitting Notification:

Name: Keith Nagel (VP, Environmental Affairs & Real Estate, Tecumseh Redevelopment, Inc.)

Address1: 4020 Kinross Lakes Parkway

Address2: Richfield, OH 44286-9000

Phone: (330) 659-9165 E-mail: keith.nagel@arcelormittal.com

III. Type of Change and Date: Indicate the Type of Change(s) (check all that apply):

☐ Change in Ownership or Change in Remedial Party(ies)

☐ Transfer of Certificate of Completion (CoC)

☑ Other (e.g., any physical alteration or other change of use)

Proposed Date of Change (mm/dd/yyyy): Jul 21, 2018

IV. Description: Describe proposed change(s) indicated above and attach maps, drawings, and/or parcel information.

If "Other," the description must explain and advise the Department how such change may or may not affect the site's proposed, ongoing, or completed remedial program (attach additional sheets if needed).

Steel Sun 2, LLC proposes to construct and operate commercial-scale photovoltaic solar electricity generation systems on Sites III-2, III-3, III-4 and III-9 as shown on Figure 1. Currently, all Sites are vacant. This change of use will not affect the site's proposed, ongoing, or completed remedial program.

V. **Certification Statement:** Where the change of use results in a change in ownership or in responsibility for the proposed, ongoing, or completed remedial program for the site, the following certification must be completed (by owner or designated representative; see §375-1.11(d)(3)(i)):

I hereby certify that the prospective purchaser and/or remedial party has been provided a copy of any order, agreement, Site Management Plan, or State Assistance Contract regarding the Site's remedial program as well as a copy of all approved remedial work plans and reports.

Name: _____ (Signature) 5/10/2018 (Date)

Keith Nagel
(Print Name)

Address1: 4020 Kinross Lakes Parkway

Address2: Richfield, OH 44286-9000

Phone: (330) 659-9165 E-mail: keith.nagel@arcelormittal.com

VI. N/A **Contact Information for New Owner, Remedial Party, or CoC Holder:** If the site will be sold or there will be a new remedial party, identify the prospective owner(s) or party(ies) along with contact information. If the site is subject to an Environmental Easement, Deed Restriction, or Site Management Plan requiring periodic certification of institutional controls/engineering controls (IC/ECs), indicate who will be the certifying party (attach additional sheets if needed).

☐ Prospective Owner ☐ Prospective Remedial Party ☐ Prospective Owner Representative

Name: _____

Address1: _____

Address2: _____

Phone: _____ E-mail: _____

Certifying Party Name: _____

Address1: _____

Address2: _____

Phone: _____ E-mail: _____

VII. **Agreement to Notify DEC after Transfer:** If Section VI applies, and all or part of the site will be sold, a letter to notify the DEC of the completion of the transfer must be provided. If the current owner is also the holder of the CoC for the site, the CoC should be transferred to the new owner using DEC's form found at http://www.dec.ny.gov/chemical/54736.html. This form has its own filing requirements (see 6NYCRR Part 375-1.9(f)).

N/A

Signing below indicates that these notices will be provided to the DEC within the specified time frames. If the sale of the site also includes the transfer of a CoC, the DEC agrees to accept the notice given in VII.3 below in satisfaction of the notice required by VII.1 below (which normally must be submitted within 15 days of the sale of the site).

Within 30 days of the sale of the site, I agree to submit to the DEC:

1. the name and contact information for the new owner(s) (see §375-1.11(d)(3)(ii));
2. the name and contact information for any owner representative; and
3. a notice of transfer using the DEC's form found at http://www.dec.ny.gov/chemical/54736.html (see §375-1.9(f)).

Name: _____ _____

(Signature) (Date)

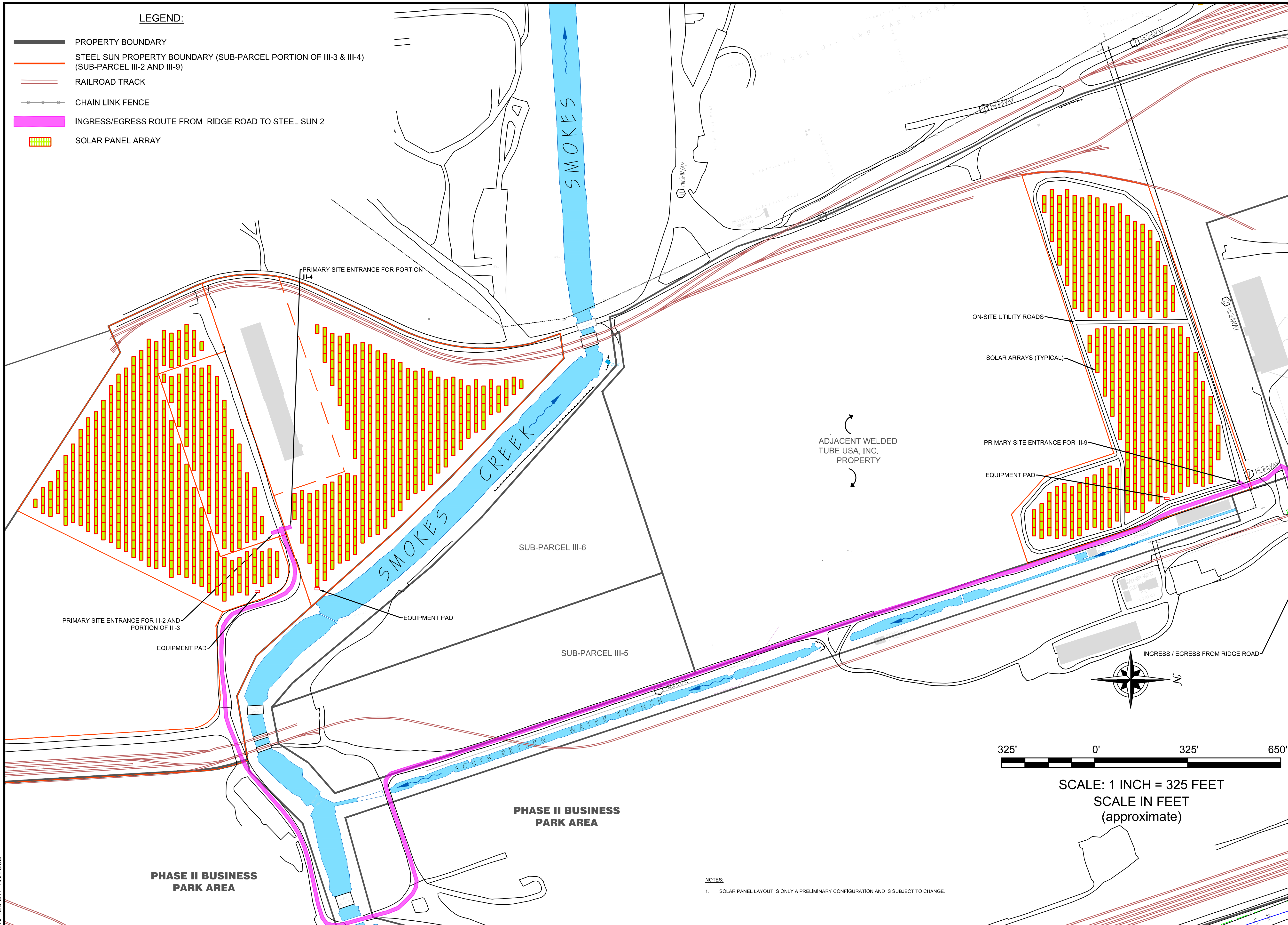
_____

(Print Name)

Address1: _____

Address2: _____

Phone: _____ E-mail: _____


LEGEND:
PROPERTY BOUNDARY
STEEL SUN PROPERTY BOUNDARY (SUB-PARCEL PORTION OF III-3 & III-4) (SUB-PARCEL III-2 AND III-9)
RAILROAD TRACK
CHAIN LINK FENCE
INGRESS/EGRESS ROUTE FROM RIDGE ROAD TO STEEL SUN 2
SOLAR PANEL ARRAY
SMOKES
SMOKES CREEK
PRIMARY SITE ENTRANCE FOR PORTION III-4
PRIMARY SITE ENTRANCE FOR III-2 AND PORTION OF III-3
EQUIPMENT PAD
EQUIPMENT PAD
SUB-PARCEL III-6
SUB-PARCEL III-5
ADJACENT WELDED TUBE USA, INC. PROPERTY
ON-SITE UTILITY ROADS
SOLAR ARRAYS (TYPICAL)
PRIMARY SITE ENTRANCE FOR III-9
EQUIPMENT PAD
INGRESS / EGRESS FROM RIDGE ROAD
SOUTH RETURN WATER TRENCH
PHASE II BUSINESS PARK AREA
PHASE II BUSINESS PARK AREA
325' 0' 325' 650'
SCALE: 1 INCH = 325 FEET
SCALE IN FEET
(approximate)
NOTES:
1. SOLAR PANEL LAYOUT IS ONLY A PRELIMINARY CONFIGURATION AND IS SUBJECT TO CHANGE.

F:\CAD\Benchmark\Steel Sun 2, LLC\2018 Change of Use\Figure 1; Site Delineation Map.dwg, 5/10/2018 11:32:07 AM, DWG To PDF.pc3

DATE: MAY 2018
DRAFTED BY: HAA/CCB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0599

JOB NO.: B0351-016-009

SITE DELINEATION MAP

SITE CHANGE OF USE

PHASE III BUSINESS PARK

BCP SITE NOS. C915199B, C915199C, C915199D, & C915199I

LACKAWANNA, NY

PREPARED FOR

STEEL SUN, LLC

FIGURE 1

APPENDIX A2

SITE III-3

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **C915199C**

Site Name Site III-3 Tecumseh Phase III Business Park

Site Address: 2303 Hamburg Turnpike Zip Code: 14218
City/Town: Lackawanna
County: Erie
Site Acreage: 10.360

Reporting Period: April 14, 2018 to April 14, 2019

	YES	NO
1. Is the information above correct?	☑	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☑
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? July 2018 Change of Use Notice for construction and operation of a commercial-scale photovoltaic solar electricity generation system.	☑	☐
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☑
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form. Attached in Appendix A		
5. Is the site currently undergoing development?	☑	☐

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☑	☐
7. Are all ICs/ECs in place and functioning as designed?	☑	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☑

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☑	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C915199C

Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
141.11-1-50	Tecumseh Redevelopment Inc.	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan Building Use Restriction

Institutional Control Description:

Adherence to Site Management Plan (SMP)
Restriction to commercial re-use
Prohibition of groundwater use
Building prohibition on specified portion of Controlled Property
Allowance for Departmental access
Requires a Periodic Review and Report

Box 4

Description of Engineering Controls

Parcel	Engineering Control
141.11-1-50	Cover System

Engineering Control Desription:

Soil cover over 5 acres

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
✓	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
✓	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C915199C

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Timothy M. Ryan (print name) at Steel Sun 2 LLC, 400 Market Industrial Park, Suite 32, Wappingers Falls NY 12590 (print business address),

am certifying as Remedial Party (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

April 9, 2019
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Thomas H. Forbes, P.E. at Benchmark Environmental Engineering 2558 Hamburg Turnpike, Buffalo NY 14218,
print name print business address

am certifying as a Professional Engineer for the Remedial Party
(Owner or Remedial Party)

Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

Date 4-9-18

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

60-Day Advance Notification of Site Change of Use, Transfer of Certificate of Completion, and/or Ownership

Required by 6NYCRR Part 375-1.11(d) and 375-1.9(f)

To be submitted at least 60 days prior to change of use to:

Chief, Site Control Section
New York State Department of Environmental Conservation
Division of Environmental Remediation, 625 Broadway
Albany NY 12233-7020

I. Site Name: Tecumseh Phase II Business Park Sites III-2, III-3, III-4 and III-9 **DEC Site ID No.** C915199B C915199C C915199D C915199I

II. Contact Information of Person Submitting Notification:

Name: Keith Nagel (VP, Environmental Affairs & Real Estate, Tecumseh Redevelopment, Inc.)

Address1: 4020 Kinross Lakes Parkway

Address2: Richfield, OH 44286-9000

Phone: (330) 659-9165 E-mail: keith.nagel@arcelormittal.com

III. Type of Change and Date: Indicate the Type of Change(s) (check all that apply):

☐ Change in Ownership or Change in Remedial Party(ies)

☐ Transfer of Certificate of Completion (CoC)

☑ Other (e.g., any physical alteration or other change of use)

Proposed Date of Change (mm/dd/yyyy): Jul 21, 2018

IV. Description: Describe proposed change(s) indicated above and attach maps, drawings, and/or parcel information.

If "Other," the description must explain and advise the Department how such change may or may not affect the site's proposed, ongoing, or completed remedial program (attach additional sheets if needed).

Steel Sun 2, LLC proposes to construct and operate commercial-scale photovoltaic solar electricity generation systems on Sites III-2, III-3, III-4 and III-9 as shown on Figure 1. Currently, all Sites are vacant. This change of use will not affect the site's proposed, ongoing, or completed remedial program.

V. **Certification Statement:** Where the change of use results in a change in ownership or in responsibility for the proposed, ongoing, or completed remedial program for the site, the following certification must be completed (by owner or designated representative; see §375-1.11(d)(3)(i)):

I hereby certify that the prospective purchaser and/or remedial party has been provided a copy of any order, agreement, Site Management Plan, or State Assistance Contract regarding the Site's remedial program as well as a copy of all approved remedial work plans and reports.

Name: _____ (Signature) 5/10/2018 (Date)

Keith Nagel
(Print Name)

Address1: 4020 Kinross Lakes Parkway

Address2: Richfield, OH 44286-9000

Phone: (330) 659-9165 E-mail: keith.nagel@arcelormittal.com

VI. N/A **Contact Information for New Owner, Remedial Party, or CoC Holder:** If the site will be sold or there will be a new remedial party, identify the prospective owner(s) or party(ies) along with contact information. If the site is subject to an Environmental Easement, Deed Restriction, or Site Management Plan requiring periodic certification of institutional controls/engineering controls (IC/ECs), indicate who will be the certifying party (attach additional sheets if needed).

☐ Prospective Owner ☐ Prospective Remedial Party ☐ Prospective Owner Representative

Name: _____

Address1: _____

Address2: _____

Phone: _____ E-mail: _____

Certifying Party Name: _____

Address1: _____

Address2: _____

Phone: _____ E-mail: _____

VII. **Agreement to Notify DEC after Transfer:** If Section VI applies, and all or part of the site will be sold, a letter to notify the DEC of the completion of the transfer must be provided. If the current owner is also the holder of the CoC for the site, the CoC should be transferred to the new owner using DEC's form found at http://www.dec.ny.gov/chemical/54736.html. This form has its own filing requirements (see 6NYCRR Part 375-1.9(f)).

N/A

Signing below indicates that these notices will be provided to the DEC within the specified time frames. If the sale of the site also includes the transfer of a CoC, the DEC agrees to accept the notice given in VII.3 below in satisfaction of the notice required by VII.1 below (which normally must be submitted within 15 days of the sale of the site).

Within 30 days of the sale of the site, I agree to submit to the DEC:

1. the name and contact information for the new owner(s) (see §375-1.11(d)(3)(ii));
2. the name and contact information for any owner representative; and
3. a notice of transfer using the DEC's form found at http://www.dec.ny.gov/chemical/54736.html (see §375-1.9(f)).

Name: _____ _____

(Signature) (Date)

_____

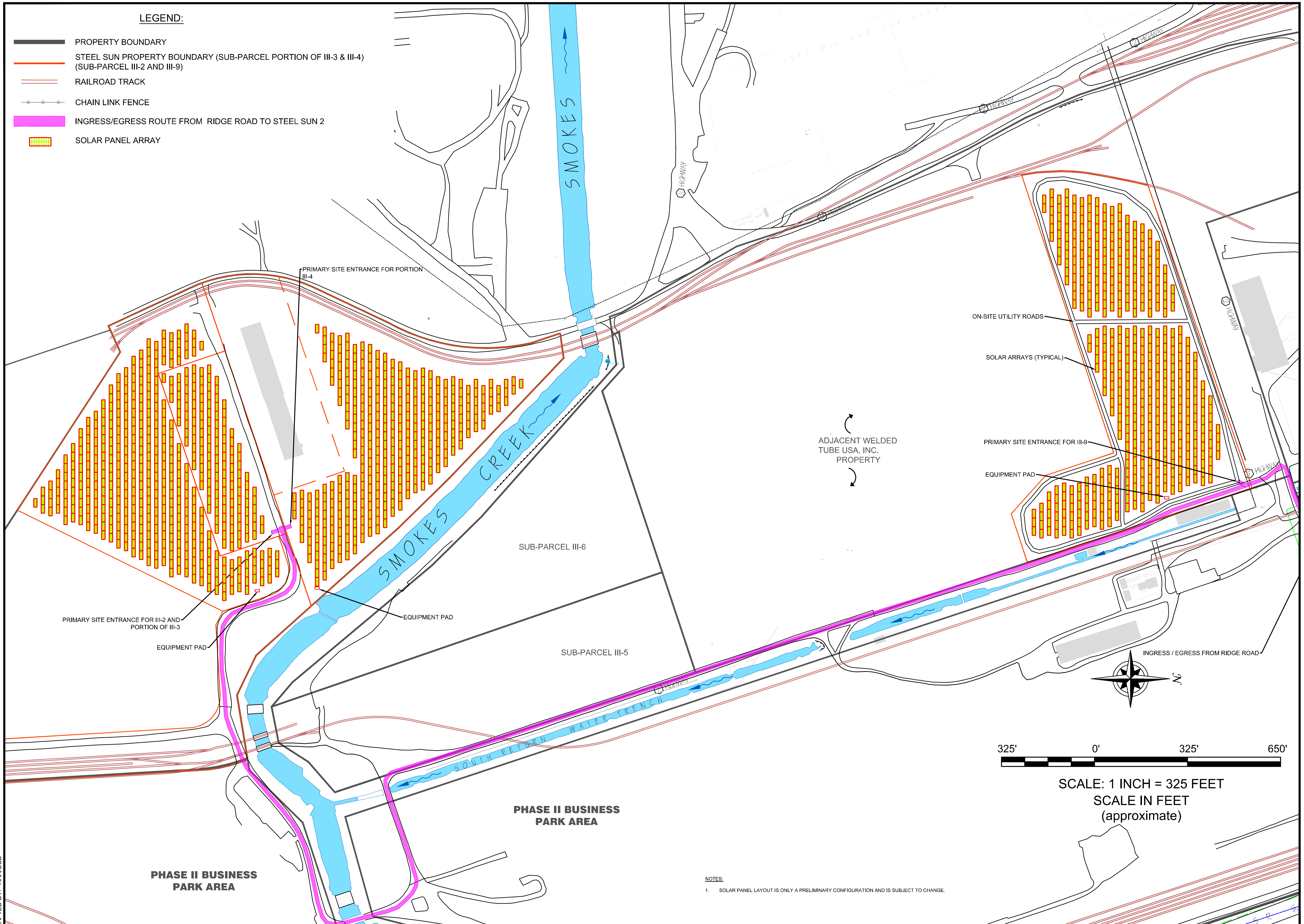
(Print Name)

Address1: _____

Address2: _____

Phone: _____ E-mail: _____

F:\CAD\Benchmark\Steel Sun 2, LLC\2018 Change of Use\Figure 1; Site Delineation Map.dwg, 5/10/2018 11:32:07 AM, DWG To PDF.pc3



LEGEND:
PROPERTY BOUNDARY
STEEL SUN PROPERTY BOUNDARY (SUB-PARCEL PORTION OF III-3 & III-4) (SUB-PARCEL III-2 AND III-9)
RAILROAD TRACK
CHAIN LINK FENCE
INGRESS/EGRESS ROUTE FROM RIDGE ROAD TO STEEL SUN 2
SOLAR PANEL ARRAY
SMOKES
SMOKES CREEK
PRIMARY SITE ENTRANCE FOR PORTION III-4
PRIMARY SITE ENTRANCE FOR III-2 AND PORTION OF III-3
EQUIPMENT PAD
EQUIPMENT PAD
ADJACENT WELDED TUBE USA, INC. PROPERTY
ON-SITE UTILITY ROADS
SOLAR ARRAYS (TYPICAL)
PRIMARY SITE ENTRANCE FOR III-9
EQUIPMENT PAD
SUB-PARCEL III-6
SUB-PARCEL III-5
SOUTH RETURN WATER TRENCH
INGRESS / EGRESS FROM RIDGE ROAD
PHASE II BUSINESS PARK AREA
PHASE II BUSINESS PARK AREA
N
325'
0'
325'
650'

SCALE: 1 INCH = 325 FEET
SCALE IN FEET
(approximate)

NOTES:
1. SOLAR PANEL LAYOUT IS ONLY A PRELIMINARY CONFIGURATION AND IS SUBJECT TO CHANGE.

DATE: MAY 2018
DRAFTED BY: HAA/CCB

BENCHMARK
ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0599

JOB NO.: B0351-016-009

SITE DELINEATION MAP

SITE CHANGE OF USE

PHASE III BUSINESS PARK

BCP SITE NOS. C915199B, C915199C, C915199D, & C915199I

LACKAWANNA, NY

PREPARED FOR

STEEL SUN, LLC

FIGURE 1

APPENDIX A3

SITE III-4

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **C915199D**

Site Name Site III-4 Tecumseh Phase III Business Park

Site Address: 2303 Hamburg Turnpike Zip Code: 14218
City/Town: Lackawanna
County: Erie
Site Acreage: 16.190

Reporting Period: March 15, 2018 to March 15, 2019

	YES	NO
1. Is the information above correct?	☑	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☑
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? July 2018 Change of Use Notice for construction and operation of a commercial-scale photovoltaic solar electricity generation system.	☑	☐
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☑
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form. Attached in Appendix A		
5. Is the site currently undergoing development?	☐	☑

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☑	☐
7. Are all ICs/ECs in place and functioning as designed?	☑	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☑

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☑	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C915199D **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
141.11-1-50	Tecumseh Redevelopment Inc.	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

Institutional Control Description:

Adherence to Site Management Plan (SMP)
Restriction to commercial re-use
Prohibition of groundwater use
Allowance for Departmental access
Requires a Periodic Review and Report

Box 4

Description of Engineering Controls

Parcel	Engineering Control
141.11-1-50	Cover System

Engineering Control Desription:

Soil cover over 5 acres

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☑	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☑	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C915199D

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Timothy M. Ryan (print name) at Steel Sun 2 LLC, 400 Market Industrial Park, Suite 32, Wappingers Falls NY 12590 (print business address),

am certifying as Remedial Party (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

April 9, 2019
Date

IC/EC CERTIFICATIONS

Box 7

Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Thomas H. Forbes, P.E. at Benchmark Environmental Engineering 2558 Hamburg Turnpike, Buffalo NY 14218,
print name print business address

am certifying as a for the Remedial Party
(Owner or Remedial Party)

STATE OF NEW YORK THOMAS H. FORBES LICENSED PROFESSIONAL ENGINEER No. 76950-1

Signature of , for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

4-9-19
Date

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

60-Day Advance Notification of Site Change of Use, Transfer of Certificate of Completion, and/or Ownership

Required by 6NYCRR Part 375-1.11(d) and 375-1.9(f)

To be submitted at least 60 days prior to change of use to:

Chief, Site Control Section
New York State Department of Environmental Conservation
Division of Environmental Remediation, 625 Broadway
Albany NY 12233-7020

I. Site Name: Tecumseh Phase II Business Park Sites III-2, III-3, III-4 and III-9 **DEC Site ID No.** C915199B C915199C C915199D C915199I

II. Contact Information of Person Submitting Notification:

Name: Keith Nagel (VP, Environmental Affairs & Real Estate, Tecumseh Redevelopment, Inc.)

Address1: 4020 Kinross Lakes Parkway

Address2: Richfield, OH 44286-9000

Phone: (330) 659-9165 E-mail: keith.nagel@arcelormittal.com

III. Type of Change and Date: Indicate the Type of Change(s) (check all that apply):

☐ Change in Ownership or Change in Remedial Party(ies)

☐ Transfer of Certificate of Completion (CoC)

☑ Other (e.g., any physical alteration or other change of use)

Proposed Date of Change (mm/dd/yyyy): Jul 21, 2018

IV. Description: Describe proposed change(s) indicated above and attach maps, drawings, and/or parcel information.

If "Other," the description must explain and advise the Department how such change may or may not affect the site's proposed, ongoing, or completed remedial program (attach additional sheets if needed).

Steel Sun 2, LLC proposes to construct and operate commercial-scale photovoltaic solar electricity generation systems on Sites III-2, III-3, III-4 and III-9 as shown on Figure 1. Currently, all Sites are vacant. This change of use will not affect the site's proposed, ongoing, or completed remedial program.

V. **Certification Statement:** Where the change of use results in a change in ownership or in responsibility for the proposed, ongoing, or completed remedial program for the site, the following certification must be completed (by owner or designated representative; see §375-1.11(d)(3)(i)):

I hereby certify that the prospective purchaser and/or remedial party has been provided a copy of any order, agreement, Site Management Plan, or State Assistance Contract regarding the Site's remedial program as well as a copy of all approved remedial work plans and reports.

Name: _____ (Signature) 5/10/2018 (Date)

Keith Nagel
(Print Name)

Address1: 4020 Kinross Lakes Parkway

Address2: Richfield, OH 44286-9000

Phone: (330) 659-9165 E-mail: keith.nagel@arcelormittal.com

VI. N/A **Contact Information for New Owner, Remedial Party, or CoC Holder:** If the site will be sold or there will be a new remedial party, identify the prospective owner(s) or party(ies) along with contact information. If the site is subject to an Environmental Easement, Deed Restriction, or Site Management Plan requiring periodic certification of institutional controls/engineering controls (IC/ECs), indicate who will be the certifying party (attach additional sheets if needed).

☐ Prospective Owner ☐ Prospective Remedial Party ☐ Prospective Owner Representative

Name: _____

Address1: _____

Address2: _____

Phone: _____ E-mail: _____

Certifying Party Name: _____

Address1: _____

Address2: _____

Phone: _____ E-mail: _____

VII. **Agreement to Notify DEC after Transfer:** If Section VI applies, and all or part of the site will be sold, a letter to notify the DEC of the completion of the transfer must be provided. If the current owner is also the holder of the CoC for the site, the CoC should be transferred to the new owner using DEC's form found at http://www.dec.ny.gov/chemical/54736.html. This form has its own filing requirements (see 6NYCRR Part 375-1.9(f)).

N/A

Signing below indicates that these notices will be provided to the DEC within the specified time frames. If the sale of the site also includes the transfer of a CoC, the DEC agrees to accept the notice given in VII.3 below in satisfaction of the notice required by VII.1 below (which normally must be submitted within 15 days of the sale of the site).

Within 30 days of the sale of the site, I agree to submit to the DEC:

1. the name and contact information for the new owner(s) (see §375-1.11(d)(3)(ii));
2. the name and contact information for any owner representative; and
3. a notice of transfer using the DEC's form found at http://www.dec.ny.gov/chemical/54736.html (see §375-1.9(f)).

Name: _____ _____

(Signature) (Date)

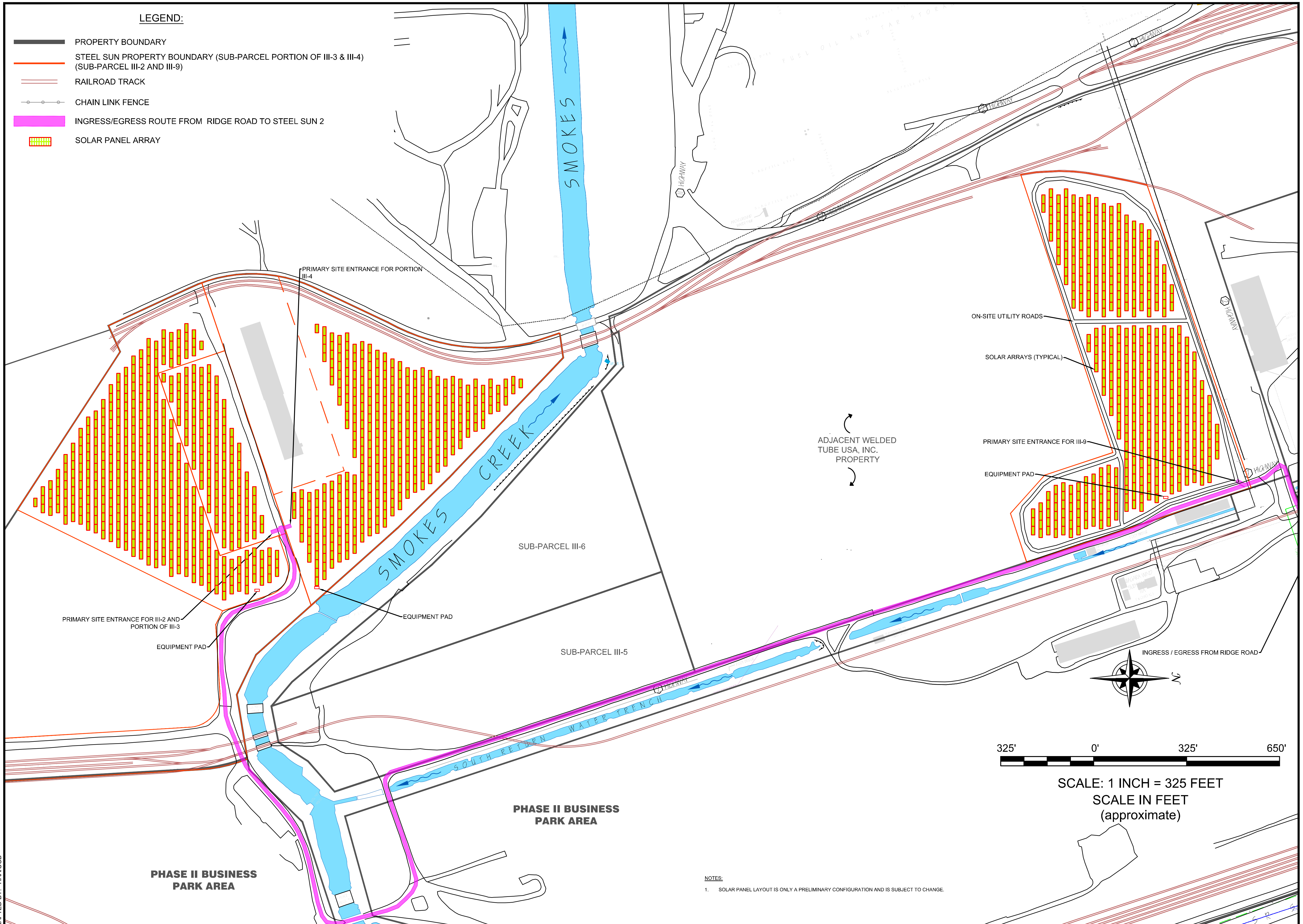
_____

(Print Name)

Address1: _____

Address2: _____

Phone: _____ E-mail: _____



LEGEND:
PROPERTY BOUNDARY
STEEL SUN PROPERTY BOUNDARY (SUB-PARCEL PORTION OF III-3 & III-4) (SUB-PARCEL III-2 AND III-9)
RAILROAD TRACK
CHAIN LINK FENCE
INGRESS/EGRESS ROUTE FROM RIDGE ROAD TO STEEL SUN 2
SOLAR PANEL ARRAY
PRIMARY SITE ENTRANCE FOR PORTION III-4
SMOKES
SMOKES CREEK
PRIMARY SITE ENTRANCE FOR III-2 AND PORTION OF III-3
EQUIPMENT PAD
EQUIPMENT PAD
SUB-PARCEL III-6
SUB-PARCEL III-5
ADJACENT WELDED TUBE USA, INC. PROPERTY
ON-SITE UTILITY ROADS
SOLAR ARRAYS (TYPICAL)
PRIMARY SITE ENTRANCE FOR III-9
EQUIPMENT PAD
INGRESS / EGRESS FROM RIDGE ROAD
SOUTH RETURN WATER TRENCH
PHASE II BUSINESS PARK AREA
PHASE II BUSINESS PARK AREA
325' 0' 325' 650'
SCALE: 1 INCH = 325 FEET
SCALE IN FEET
(approximate)
NOTES:
1. SOLAR PANEL LAYOUT IS ONLY A PRELIMINARY CONFIGURATION AND IS SUBJECT TO CHANGE.

F:\CAD\Benchmark\Steel Sun 2, LLC\2018 Change of Use\Figure 1; Site Delineation Map.dwg, 5/10/2018 11:32:07 AM, DWG To PDF.pc3

DATE: MAY 2018
DRAFTED BY: HAA/CCB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
2558 HAMBURG TURNPIKE
SUITE 300
BUFFALO, NY 14218
(716) 856-0599

JOB NO.: B0351-016-009

SITE DELINEATION MAP

SITE CHANGE OF USE

PHASE III BUSINESS PARK
BCP SITE NOS. C915199B, C915199C, C915199D, & C915199I
LACKAWANNA, NY

PREPARED FOR
STEEL SUN, LLC

FIGURE 1

APPENDIX B

SITE PHOTO LOG

SITE PHOTOGRAPHS

Photo 1:

Photo 2:

Photo 3:

Photo 4:

Photo 1: Site III-4 – Slag cover looking east

Photo 2: Site III-4 – Slag cover looking east

Photo 3: Site III-4 – Vegetative cover looking east

Photo 4: Site III-2 – Slag cover looking southeast

SITE PHOTOGRAPHS

Photo 5:

Photo 6:

Photo 7:

Photo 8:

Photo 5: Roadway between Sites III-2/III-3 & Site III-4 – looking east

Photo 6: Drainage swale along Site III-4 southern boundary – looking west/northwest

Photo 7: Drainage swale along Site III-4 southern boundary – looking west/northwest

Photo 8: Site III-3 – Vegetation along S-curve looking southeast

SITE PHOTOGRAPHS

Photo 9:

Photo 9: Site III-2 – looking west

APPENDIX C

GROUNDWATER ANALYTICAL DATA

ANALYTICAL REPORT

Lab Number:	L1845226
Client:	Benchmark & Turnkey Companies 2558 Hamburg Turnpike Suite 300 Buffalo, NY 14218
ATTN:	Tom Forbes
Phone:	(716) 856-0599
Project Name:	STEEL SUN II 2018
Project Number:	0351-018-004
Report Date:	11/12/18

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: STEEL SUN II 2018
Project Number: 0351-018-004

Lab Number: L1845226
Report Date: 11/12/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1845226-01	MWN-56A	WATER	LACKAWANNA, NY	11/05/18 09:38	11/05/18
L1845226-02	MWN-57A	WATER	LACKAWANNA, NY	11/05/18 10:24	11/05/18
L1845226-03	MWS-04	WATER	LACKAWANNA, NY	11/05/18 10:58	11/05/18
L1845226-04	BLIND DUP	WATER	LACKAWANNA, NY	11/05/18 12:00	11/05/18
L1845226-05	MWS-31A	WATER	LACKAWANNA, NY	11/05/18 12:34	11/05/18
L1845226-06	MWS-34A	WATER	LACKAWANNA, NY	11/05/18 11:56	11/05/18
L1845226-07	MWS-35A	WATER	LACKAWANNA, NY	11/05/18 13:25	11/05/18
L1845226-08	EQUIPMENT BLANK	WATER	LACKAWANNA, NY	11/05/18 08:30	11/05/18
L1845226-09	TRIP BLANK	WATER	LACKAWANNA, NY	11/05/18 00:00	11/05/18

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226
Project Number: 0351-018-004 **Report Date:** 11/12/18

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	STEEL SUN II 2018	**Lab Number:**	L1845226
Project Number:	0351-018-004	**Report Date:**	11/12/18

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Cripps

Title: Technical Director/Representative Date: 11/12/18

ORGANICS

VOLATILES

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-01
Client ID: MWN-56A
Sample Location: LACKAWANNA, NY

Date Collected: 11/05/18 09:38
Date Received: 11/05/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/09/18 13:03
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-01 Date Collected: 11/05/18 09:38

Client ID: MWN-56A Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	92		70-130

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-02 Date Collected: 11/05/18 10:24
Client ID: MWN-57A Date Received: 11/05/18
Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/09/18 13:32
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-02 Date Collected: 11/05/18 10:24

Client ID: MWN-57A Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	0.72	J	ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	91		70-130

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-03
Client ID: MWS-04
Sample Location: LACKAWANNA, NY

Date Collected: 11/05/18 10:58
Date Received: 11/05/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/09/18 14:00
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.54		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-03 Date Collected: 11/05/18 10:58

Client ID: MWS-04 Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	90		70-130

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-04 Date Collected: 11/05/18 12:00
Client ID: BLIND DUP Date Received: 11/05/18
Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/09/18 14:29
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	0.82		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-04 Date Collected: 11/05/18 12:00

Client ID: BLIND DUP Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	90		70-130

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-05
Client ID: MWS-31A
Sample Location: LACKAWANNA, NY

Date Collected: 11/05/18 12:34
Date Received: 11/05/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/09/18 14:58
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-05 Date Collected: 11/05/18 12:34

Client ID: MWS-31A Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	94		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	91		70-130

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-06 Date Collected: 11/05/18 11:56
Client ID: MWS-34A Date Received: 11/05/18
Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/09/18 15:26
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-06 Date Collected: 11/05/18 11:56

Client ID: MWS-34A Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	92		70-130

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-07
Client ID: MWS-35A
Sample Location: LACKAWANNA, NY

Date Collected: 11/05/18 13:25
Date Received: 11/05/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/09/18 15:55
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-07 Date Collected: 11/05/18 13:25

Client ID: MWS-35A Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	90		70-130

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-08 Date Collected: 11/05/18 08:30
Client ID: EQUIPMENT BLANK Date Received: 11/05/18
Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/09/18 16:23
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-08 Date Collected: 11/05/18 08:30

Client ID: EQUIPMENT BLANK Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	90		70-130

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-09 Date Collected: 11/05/18 00:00
Client ID: TRIP BLANK Date Received: 11/05/18
Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 11/09/18 16:52
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-09 Date Collected: 11/05/18 00:00

Client ID: TRIP BLANK Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
1,4-Dioxane	ND		ug/l	250	61.	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	91		70-130

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/09/18 09:15
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1177983-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/09/18 09:15
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1177983-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
1,4-Dioxane	ND		ug/l	250	61.
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 11/09/18 09:15
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-09 Batch: WG1177983-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	92		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: STEEL SUN II 2018

Project Number: 0351-018-004

Lab Number: L1845226

Report Date: 11/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1177983-3 WG1177983-4								
Methylene chloride	84		83		70-130	1		20
1,1-Dichloroethane	98		97		70-130	1		20
Chloroform	84		85		70-130	1		20
Carbon tetrachloride	84		86		63-132	2		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	82		81		63-130	1		20
1,1,2-Trichloroethane	83		83		70-130	0		20
Tetrachloroethene	88		89		70-130	1		20
Chlorobenzene	86		88		75-130	2		20
Trichlorofluoromethane	82		84		62-150	2		20
1,2-Dichloroethane	86		84		70-130	2		20
1,1,1-Trichloroethane	88		88		67-130	0		20
Bromodichloromethane	84		84		67-130	0		20
trans-1,3-Dichloropropene	75		75		70-130	0		20
cis-1,3-Dichloropropene	84		83		70-130	1		20
Bromoform	72		72		54-136	0		20
1,1,2,2-Tetrachloroethane	79		76		67-130	4		20
Benzene	91		91		70-130	0		20
Toluene	86		87		70-130	1		20
Ethylbenzene	85		87		70-130	2		20
Chloromethane	110		110		64-130	0		20
Bromomethane	77		75		39-139	3		20
Vinyl chloride	120		120		55-140	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: STEEL SUN II 2018

Project Number: 0351-018-004

Lab Number: L1845226

Report Date: 11/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1177983-3 WG1177983-4								
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	87		86		61-145	1		20
trans-1,2-Dichloroethene	85		87		70-130	2		20
Trichloroethene	88		88		70-130	0		20
1,2-Dichlorobenzene	85		85		70-130	0		20
1,3-Dichlorobenzene	85		87		70-130	2		20
1,4-Dichlorobenzene	84		86		70-130	2		20
Methyl tert butyl ether	83		80		63-130	4		20
p/m-Xylene	90		90		70-130	0		20
o-Xylene	90		95		70-130	5		20
cis-1,2-Dichloroethene	87		89		70-130	2		20
Styrene	85		85		70-130	0		20
Dichlorodifluoromethane	100		100		36-147	0		20
Acetone	92		85		58-148	8		20
Carbon disulfide	85		86		51-130	1		20
2-Butanone	87		76		63-138	13		20
4-Methyl-2-pentanone	100		97		59-130	3		20
2-Hexanone	80		76		57-130	5		20
Bromochloromethane	96		94		70-130	2		20
1,2-Dibromoethane	85		82		70-130	4		20
1,2-Dibromo-3-chloropropane	68		63		41-144	8		20
Isopropylbenzene	87		91		70-130	4		20
1,2,3-Trichlorobenzene	**55**	Q	**57**	Q	70-130	4		20

Lab Control Sample Analysis
Batch Quality Control

Project Name: STEEL SUN II 2018
Project Number: 0351-018-004

Lab Number: L1845226
Report Date: 11/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 Batch: WG1177983-3 WG1177983-4								
1,2,4-Trichlorobenzene	**68**	Q	70		70-130	3		20
Methyl Acetate	99		94		70-130	5		20
Cyclohexane	110		110		70-130	0		20
1,4-Dioxane	140		128		56-162	9		20
Freon-113	82		83		70-130	1		20
Methyl cyclohexane	86		88		70-130	2		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		92		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	97		96		70-130
Dibromofluoromethane	94		93		70-130

Matrix Spike Analysis

Batch Quality Control

Project Name: STEEL SUN II 2018

Project Number: 0351-018-004

Lab Number: L1845226

Report Date: 11/12/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1177983-6 WG1177983-7 QC Sample: L1845226-01 Client ID: MWN-56A												
Methylene chloride	ND	10	8.2	82		7.3	73		70-130	12		20
1,1-Dichloroethane	ND	10	9.6	96		8.5	85		70-130	12		20
Chloroform	ND	10	8.3	83		7.4	74		70-130	11		20
Carbon tetrachloride	ND	10	9.2	92		7.6	76		63-132	19		20
1,2-Dichloropropane	ND	10	10	100		8.9	89		70-130	12		20
Dibromochloromethane	ND	10	8.6	86		7.7	77		63-130	11		20
1,1,2-Trichloroethane	ND	10	8.7	87		8.0	80		70-130	8		20
Tetrachloroethene	ND	10	10	100		8.2	82		70-130	20		20
Chlorobenzene	ND	10	9.3	93		8.1	81		75-130	14		20
Trichlorofluoromethane	ND	10	9.2	92		7.7	77		62-150	18		20
1,2-Dichloroethane	ND	10	8.4	84		7.5	75		70-130	11		20
1,1,1-Trichloroethane	ND	10	9.1	91		7.9	79		67-130	14		20
Bromodichloromethane	ND	10	8.2	82		7.2	72		67-130	13		20
trans-1,3-Dichloropropene	ND	10	7.5	75		6.6	**66**	Q	70-130	13		20
cis-1,3-Dichloropropene	ND	10	7.7	77		6.8	**68**	Q	70-130	12		20
Bromoform	ND	10	7.6	76		6.9	69		54-136	10		20
1,1,2,2-Tetrachloroethane	ND	10	8.7	87		7.8	78		67-130	11		20
Benzene	ND	10	9.2	92		8.0	80		70-130	14		20
Toluene	ND	10	9.3	93		8.0	80		70-130	15		20
Ethylbenzene	ND	10	9.5	95		7.9	79		70-130	18		20
Chloromethane	ND	10	11	110		9.6	96		64-130	14		20
Bromomethane	ND	10	4.3	43		3.8	**38**	Q	39-139	12		20
Vinyl chloride	ND	10	12	120		11	110		55-140	9		20

Matrix Spike Analysis

Batch Quality Control

Project Name: STEEL SUN II 2018

Project Number: 0351-018-004

Lab Number: L1845226

Report Date: 11/12/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1177983-6 WG1177983-7 QC Sample: L1845226-01 Client ID: MWN-56A												
Chloroethane	ND	10	10	100		9.2	92		55-138	8		20
1,1-Dichloroethene	ND	10	9.0	90		7.7	77		61-145	16		20
trans-1,2-Dichloroethene	ND	10	8.6	86		7.4	74		70-130	15		20
Trichloroethene	ND	10	8.7	87		7.5	75		70-130	15		20
1,2-Dichlorobenzene	ND	10	9.5	95		8.2	82		70-130	15		20
1,3-Dichlorobenzene	ND	10	9.5	95		8.0	80		70-130	17		20
1,4-Dichlorobenzene	ND	10	9.3	93		7.9	79		70-130	16		20
Methyl tert butyl ether	ND	10	8.1	81		7.4	74		63-130	9		20
p/m-Xylene	ND	20	20	100		17	85		70-130	16		20
o-Xylene	ND	20	20	100		17	85		70-130	16		20
cis-1,2-Dichloroethene	ND	10	8.5	85		7.7	77		70-130	10		20
Styrene	ND	20	18	90		15	75		70-130	18		20
Dichlorodifluoromethane	ND	10	11	110		9.0	90		36-147	20		20
Acetone	ND	10	8.1	81		8.2	82		58-148	1		20
Carbon disulfide	ND	10	8.8	88		7.6	76		51-130	15		20
2-Butanone	ND	10	7.6	76		6.8	68		63-138	11		20
4-Methyl-2-pentanone	ND	10	13	130		11	110		59-130	17		20
2-Hexanone	ND	10	10	100		8.8	88		57-130	13		20
Bromochloromethane	ND	10	9.2	92		8.1	81		70-130	13		20
1,2-Dibromoethane	ND	10	8.7	87		7.9	79		70-130	10		20
1,2-Dibromo-3-chloropropane	ND	10	7.7	77		6.6	66		41-144	15		20
Isopropylbenzene	ND	10	10	100		8.3	83		70-130	19		20
1,2,3-Trichlorobenzene	ND	10	6.1	**61**	Q	5.7	**57**	Q	70-130	7		20

Matrix Spike Analysis

Batch Quality Control

Project Name: STEEL SUN II 2018

Project Number: 0351-018-004

Lab Number: L1845226

Report Date: 11/12/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1177983-6 WG1177983-7 QC Sample: L1845226-01 Client ID: MWN-56A												
1,2,4-Trichlorobenzene	ND	10	7.4	74		6.6	**66**	Q	70-130	11		20
Methyl Acetate	ND	10	9.0	90		7.8	78		70-130	14		20
Cyclohexane	ND	10	12	120		9.5J	95		70-130	**23**	Q	20
1,4-Dioxane	ND	500	660	132		620	124		56-162	6		20
Freon-113	ND	10	8.9	89		7.1	71		70-130	**23**	Q	20
Methyl cyclohexane	ND	10	9.8J	98		7.4J	74		70-130	**28**	Q	20

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		100		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	93		93		70-130
Toluene-d8	101		102		70-130

SEMIVOLATILES

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-01
Client ID: MWN-56A
Sample Location: LACKAWANNA, NY

Date Collected: 11/05/18 09:38
Date Received: 11/05/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/09/18 14:39
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/07/18 17:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-01 Date Collected: 11/05/18 09:38

Client ID: MWN-56A Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		21-120
Phenol-d6	59		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	71		10-120
4-Terphenyl-d14	76		41-149

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-01
Client ID: MWN-56A
Sample Location: LACKAWANNA, NY

Date Collected: 11/05/18 09:38
Date Received: 11/05/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/09/18 10:59
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 11/07/18 17:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-01 Date Collected: 11/05/18 09:38

Client ID: MWN-56A Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		21-120
Phenol-d6	59		10-120
Nitrobenzene-d5	104		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	93		10-120
4-Terphenyl-d14	79		41-149

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-02
Client ID: MWN-57A
Sample Location: LACKAWANNA, NY

Date Collected: 11/05/18 10:24
Date Received: 11/05/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/09/18 16:04
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/07/18 17:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-02 Date Collected: 11/05/18 10:24

Client ID: MWN-57A Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		21-120
Phenol-d6	60		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	78		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	77		41-149

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-02
Client ID: MWN-57A
Sample Location: LACKAWANNA, NY

Date Collected: 11/05/18 10:24
Date Received: 11/05/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/08/18 20:38
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 11/07/18 17:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	1.4		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.37		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	4.2		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.02	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.02	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	0.17		ug/l	0.10	0.01	1
Anthracene	0.08	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.10	J	ug/l	0.10	0.01	1
Phenanthrene	0.10	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.01	J	ug/l	0.10	0.01	1
Pyrene	0.25		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.38		ug/l	0.10	0.02	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-02 Date Collected: 11/05/18 10:24

Client ID: MWN-57A Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		21-120
Phenol-d6	59		10-120
Nitrobenzene-d5	104		23-120
2-Fluorobiphenyl	77		15-120
2,4,6-Tribromophenol	103		10-120
4-Terphenyl-d14	84		41-149

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-03
Client ID: MWS-04
Sample Location: LACKAWANNA, NY

Date Collected: 11/05/18 10:58
Date Received: 11/05/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/12/18 14:54
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 11/07/18 17:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-03 Date Collected: 11/05/18 10:58

Client ID: MWS-04 Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	2.7		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		21-120
Phenol-d6	57		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	83		15-120
2,4,6-Tribromophenol	73		10-120
4-Terphenyl-d14	76		41-149

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-03
Client ID: MWS-04
Sample Location: LACKAWANNA, NY

Date Collected: 11/05/18 10:58
Date Received: 11/05/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/08/18 21:04
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 11/07/18 17:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.09	J	ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	27		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	0.34		ug/l	0.10	0.01	1
Anthracene	0.06	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.13		ug/l	0.10	0.01	1
Phenanthrene	0.05	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	0.28		ug/l	0.10	0.02	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-03 Date Collected: 11/05/18 10:58

Client ID: MWS-04 Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		21-120
Phenol-d6	57		10-120
Nitrobenzene-d5	107		23-120
2-Fluorobiphenyl	75		15-120
2,4,6-Tribromophenol	90		10-120
4-Terphenyl-d14	80		41-149

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-04
Client ID: BLIND DUP
Sample Location: LACKAWANNA, NY

Date Collected: 11/05/18 12:00
Date Received: 11/05/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/09/18 16:59
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/08/18 00:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-04 Date Collected: 11/05/18 12:00

Client ID: BLIND DUP Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	2.8		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	89		21-120
Phenol-d6	76		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	91		15-120
2,4,6-Tribromophenol	92		10-120
4-Terphenyl-d14	87		41-149

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-04
Client ID: BLIND DUP
Sample Location: LACKAWANNA, NY

Date Collected: 11/05/18 12:00
Date Received: 11/05/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/09/18 11:25
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 11/08/18 00:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.14		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.04	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	24		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	0.37		ug/l	0.10	0.01	1
Anthracene	0.07	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.18		ug/l	0.10	0.01	1
Phenanthrene	0.09	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.03	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	0.36		ug/l	0.10	0.02	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-04 Date Collected: 11/05/18 12:00

Client ID: BLIND DUP Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		21-120
Phenol-d6	69		10-120
Nitrobenzene-d5	117		23-120
2-Fluorobiphenyl	84		15-120
2,4,6-Tribromophenol	106		10-120
4-Terphenyl-d14	88		41-149

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-05
Client ID: MWS-31A
Sample Location: LACKAWANNA, NY

Date Collected: 11/05/18 12:34
Date Received: 11/05/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/09/18 17:27
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/08/18 00:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-05 Date Collected: 11/05/18 12:34

Client ID: MWS-31A Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	64		21-120
Phenol-d6	60		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	68		10-120
4-Terphenyl-d14	80		41-149

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-05
Client ID: MWS-31A
Sample Location: LACKAWANNA, NY

Date Collected: 11/05/18 12:34
Date Received: 11/05/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/09/18 11:51
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 11/08/18 00:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-05 Date Collected: 11/05/18 12:34

Client ID: MWS-31A Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	68		21-120
Phenol-d6	61		10-120
Nitrobenzene-d5	114		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	83		10-120
4-Terphenyl-d14	88		41-149

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-06
Client ID: MWS-34A
Sample Location: LACKAWANNA, NY

Date Collected: 11/05/18 11:56
Date Received: 11/05/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/09/18 17:54
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/08/18 00:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-06 Date Collected: 11/05/18 11:56

Client ID: MWS-34A Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		21-120
Phenol-d6	70		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	85		15-120
2,4,6-Tribromophenol	86		10-120
4-Terphenyl-d14	73		41-149

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-06
Client ID: MWS-34A
Sample Location: LACKAWANNA, NY

Date Collected: 11/05/18 11:56
Date Received: 11/05/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/09/18 12:18
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 11/08/18 00:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.29		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.10		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	0.09	J	ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	0.48		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.19		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-06 Date Collected: 11/05/18 11:56

Client ID: MWS-34A Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		21-120
Phenol-d6	66		10-120
Nitrobenzene-d5	111		23-120
2-Fluorobiphenyl	80		15-120
2,4,6-Tribromophenol	99		10-120
4-Terphenyl-d14	80		41-149

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-07
Client ID: MWS-35A
Sample Location: LACKAWANNA, NY

Date Collected: 11/05/18 13:25
Date Received: 11/05/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/09/18 18:22
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/08/18 00:40

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-07 Date Collected: 11/05/18 13:25

Client ID: MWS-35A Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		21-120
Phenol-d6	70		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	86		15-120
2,4,6-Tribromophenol	79		10-120
4-Terphenyl-d14	82		41-149

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-07
Client ID: MWS-35A
Sample Location: LACKAWANNA, NY

Date Collected: 11/05/18 13:25
Date Received: 11/05/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/09/18 12:44
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 11/08/18 00:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	0.05	J	ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.04	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	0.04	J	ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-07 Date Collected: 11/05/18 13:25

Client ID: MWS-35A Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		21-120
Phenol-d6	69		10-120
Nitrobenzene-d5	115		23-120
2-Fluorobiphenyl	81		15-120
2,4,6-Tribromophenol	97		10-120
4-Terphenyl-d14	83		41-149

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-08
Client ID: EQUIPMENT BLANK
Sample Location: LACKAWANNA, NY

Date Collected: 11/05/18 08:30
Date Received: 11/05/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D
Analytical Date: 11/12/18 15:22
Analyst: EK

Extraction Method: EPA 3510C
Extraction Date: 11/07/18 17:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6	1
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2	1
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50	1
Hexachlorocyclopentadiene	ND		ug/l	20	0.69	1
Isophorone	ND		ug/l	5.0	1.2	1
Nitrobenzene	ND		ug/l	2.0	0.77	1
NDPA/DPA	ND		ug/l	2.0	0.42	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.2	1
Di-n-butylphthalate	ND		ug/l	5.0	0.39	1
Di-n-octylphthalate	ND		ug/l	5.0	1.3	1
Diethyl phthalate	ND		ug/l	5.0	0.38	1
Dimethyl phthalate	ND		ug/l	5.0	1.8	1
Biphenyl	ND		ug/l	2.0	0.46	1
4-Chloroaniline	ND		ug/l	5.0	1.1	1
2-Nitroaniline	ND		ug/l	5.0	0.50	1
3-Nitroaniline	ND		ug/l	5.0	0.81	1
4-Nitroaniline	ND		ug/l	5.0	0.80	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-08 Date Collected: 11/05/18 08:30

Client ID: EQUIPMENT BLANK Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.50	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44	1
Acetophenone	ND		ug/l	5.0	0.53	1
Benzyl Alcohol	ND		ug/l	2.0	0.59	1
Carbazole	ND		ug/l	2.0	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	82		15-120
2,4,6-Tribromophenol	40		10-120
4-Terphenyl-d14	73		41-149

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-08
Client ID: EQUIPMENT BLANK
Sample Location: LACKAWANNA, NY

Date Collected: 11/05/18 08:30
Date Received: 11/05/18
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270D-SIM
Analytical Date: 11/09/18 13:09
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 11/07/18 17:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
2-Chloronaphthalene	ND		ug/l	0.20	0.02	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Hexachlorobutadiene	ND		ug/l	0.50	0.05	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1
2-Methylnaphthalene	ND		ug/l	0.10	0.02	1
Hexachlorobenzene	ND		ug/l	0.80	0.01	1
Hexachloroethane	ND		ug/l	0.80	0.06	1

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-08 Date Collected: 11/05/18 08:30

Client ID: EQUIPMENT BLANK Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	57		21-120
Phenol-d6	52		10-120
Nitrobenzene-d5	104		23-120
2-Fluorobiphenyl	73		15-120
2,4,6-Tribromophenol	49		10-120
4-Terphenyl-d14	77		41-149

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/09/18 09:07
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/07/18 17:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1177084-1					
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.50
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.50
1,2-Dichlorobenzene	ND		ug/l	2.0	0.45
1,3-Dichlorobenzene	ND		ug/l	2.0	0.40
1,4-Dichlorobenzene	ND		ug/l	2.0	0.43
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.6
2,4-Dinitrotoluene	ND		ug/l	5.0	1.2
2,6-Dinitrotoluene	ND		ug/l	5.0	0.93
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.49
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.38
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.53
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.50
Hexachlorocyclopentadiene	ND		ug/l	20	0.69
Isophorone	ND		ug/l	5.0	1.2
Nitrobenzene	ND		ug/l	2.0	0.77
NDPA/DPA	ND		ug/l	2.0	0.42
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.64
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	1.5
Butyl benzyl phthalate	ND		ug/l	5.0	1.2
Di-n-butylphthalate	ND		ug/l	5.0	0.39
Di-n-octylphthalate	ND		ug/l	5.0	1.3
Diethyl phthalate	ND		ug/l	5.0	0.38
Dimethyl phthalate	ND		ug/l	5.0	1.8
Biphenyl	ND		ug/l	2.0	0.46
4-Chloroaniline	ND		ug/l	5.0	1.1
2-Nitroaniline	ND		ug/l	5.0	0.50
3-Nitroaniline	ND		ug/l	5.0	0.81
4-Nitroaniline	ND		ug/l	5.0	0.80
Dibenzofuran	ND		ug/l	2.0	0.50

Project Name: STEEL SUN II 2018
Project Number: 0351-018-004

Lab Number: L1845226
Report Date: 11/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 11/09/18 09:07
Analyst: SZ

Extraction Method: EPA 3510C
Extraction Date: 11/07/18 17:21

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-08 Batch: WG1177084-1					
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.44
Acetophenone	ND		ug/l	5.0	0.53
Benzyl Alcohol	ND		ug/l	2.0	0.59
Carbazole	ND		ug/l	2.0	0.49

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	62		21-120
Phenol-d6	50		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	67		15-120
2,4,6-Tribromophenol	51		10-120
4-Terphenyl-d14	62		41-149

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/08/18 19:20
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 11/07/18 17:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-08 Batch: WG1177086-1					
Acenaphthene	ND		ug/l	0.10	0.01
2-Chloronaphthalene	ND		ug/l	0.20	0.02
Fluoranthene	ND		ug/l	0.10	0.02
Hexachlorobutadiene	ND		ug/l	0.50	0.05
Naphthalene	0.05	J	ug/l	0.10	0.05
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	0.02	J	ug/l	0.10	0.01
Phenanthrene	0.06	J	ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02
2-Methylnaphthalene	0.03	J	ug/l	0.10	0.02
Hexachlorobenzene	ND		ug/l	0.80	0.01
Hexachloroethane	ND		ug/l	0.80	0.06

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 11/08/18 19:20
Analyst: CB

Extraction Method: EPA 3510C
Extraction Date: 11/07/18 17:20

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 01-08 Batch: WG1177086-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	65		21-120
Phenol-d6	53		10-120
Nitrobenzene-d5	95		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	74		10-120
4-Terphenyl-d14	71		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: STEEL SUN II 2018

Project Number: 0351-018-004

Lab Number: L1845226

Report Date: 11/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1177084-2 WG1177084-3								
1,2,4-Trichlorobenzene	76		75		39-98	1		30
Bis(2-chloroethyl)ether	90		87		40-140	3		30
1,2-Dichlorobenzene	75		75		40-140	0		30
1,3-Dichlorobenzene	76		74		40-140	3		30
1,4-Dichlorobenzene	76		75		36-97	1		30
3,3'-Dichlorobenzidine	71		64		40-140	10		30
2,4-Dinitrotoluene	85		76		48-143	11		30
2,6-Dinitrotoluene	87		78		40-140	11		30
4-Chlorophenyl phenyl ether	84		80		40-140	5		30
4-Bromophenyl phenyl ether	81		73		40-140	10		30
Bis(2-chloroisopropyl)ether	85		85		40-140	0		30
Bis(2-chloroethoxy)methane	93		88		40-140	6		30
Hexachlorocyclopentadiene	64		63		40-140	2		30
Isophorone	88		82		40-140	7		30
Nitrobenzene	81		79		40-140	3		30
NDPA/DPA	87		80		40-140	8		30
n-Nitrosodi-n-propylamine	91		89		29-132	2		30
Bis(2-ethylhexyl)phthalate	98		92		40-140	6		30
Butyl benzyl phthalate	86		76		40-140	12		30
Di-n-butylphthalate	89		82		40-140	8		30
Di-n-octylphthalate	92		85		40-140	8		30
Diethyl phthalate	85		77		40-140	10		30
Dimethyl phthalate	83		74		40-140	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: STEEL SUN II 2018

Project Number: 0351-018-004

Lab Number: L1845226

Report Date: 11/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 Batch: WG1177084-2 WG1177084-3								
Biphenyl	83		78		40-140	6		30
4-Chloroaniline	54		42		40-140	25		30
2-Nitroaniline	85		75		52-143	13		30
3-Nitroaniline	76		61		25-145	22		30
4-Nitroaniline	78		66		51-143	17		30
Dibenzofuran	87		80		40-140	8		30
1,2,4,5-Tetrachlorobenzene	75		71		2-134	5		30
Acetophenone	82		80		39-129	2		30
Benzyl Alcohol	68		63		26-116	8		30
Carbazole	88		80		55-144	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	71		68		21-120
Phenol-d6	60		57		10-120
Nitrobenzene-d5	78		78		23-120
2-Fluorobiphenyl	82		76		15-120
2,4,6-Tribromophenol	76		74		10-120
4-Terphenyl-d14	79		72		41-149

Lab Control Sample Analysis
Batch Quality Control

Project Name: STEEL SUN II 2018
Project Number: 0351-018-004

Lab Number: L1845226
Report Date: 11/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-08 Batch: WG1177086-2 WG1177086-3								
Acenaphthene	82		83		40-140	1		40
2-Chloronaphthalene	80		80		40-140	0		40
Fluoranthene	88		87		40-140	1		40
Hexachlorobutadiene	74		75		40-140	1		40
Naphthalene	79		78		40-140	1		40
Benzo(a)anthracene	95		93		40-140	2		40
Benzo(a)pyrene	90		88		40-140	2		40
Benzo(b)fluoranthene	93		93		40-140	0		40
Benzo(k)fluoranthene	89		87		40-140	2		40
Chrysene	79		78		40-140	1		40
Acenaphthylene	84		85		40-140	1		40
Anthracene	86		86		40-140	0		40
Benzo(ghi)perylene	65		63		40-140	3		40
Fluorene	86		88		40-140	2		40
Phenanthrene	82		82		40-140	0		40
Dibenzo(a,h)anthracene	68		67		40-140	1		40
Indeno(1,2,3-cd)pyrene	76		75		40-140	1		40
Pyrene	87		87		40-140	0		40
2-Methylnaphthalene	80		81		40-140	1		40
Hexachlorobenzene	84		84		40-140	0		40
Hexachloroethane	77		77		40-140	0		40

Lab Control Sample Analysis
Batch Quality Control

Project Name: STEEL SUN II 2018
Project Number: 0351-018-004

Lab Number: L1845226
Report Date: 11/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-08 Batch: WG1177086-2 WG1177086-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		71		21-120
Phenol-d6	58		60		10-120
Nitrobenzene-d5	103		103		23-120
2-Fluorobiphenyl	71		72		15-120
2,4,6-Tribromophenol	78		80		10-120
4-Terphenyl-d14	76		76		41-149

Matrix Spike Analysis

Batch Quality Control

Project Name: STEEL SUN II 2018

Project Number: 0351-018-004

Lab Number: L1845226

Report Date: 11/12/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1177084-4 WG1177084-5 QC Sample: L1845226-01 Client ID: MWN-56A												
1,2,4-Trichlorobenzene	ND	18.2	13	72		13	72		39-98	0		30
Bis(2-chloroethyl)ether	ND	18.2	15	83		15	83		40-140	0		30
1,2-Dichlorobenzene	ND	18.2	13	72		13	72		40-140	0		30
1,3-Dichlorobenzene	ND	18.2	13	72		13	72		40-140	0		30
1,4-Dichlorobenzene	ND	18.2	13	72		13	72		36-97	0		30
3,3'-Dichlorobenzidine	ND	18.2	8.0	44		6.7	**37**	Q	40-140	18		30
2,4-Dinitrotoluene	ND	18.2	14	77		13	72		48-143	7		30
2,6-Dinitrotoluene	ND	18.2	15	83		14	77		40-140	7		30
4-Chlorophenyl phenyl ether	ND	18.2	14	77		14	77		40-140	0		30
4-Bromophenyl phenyl ether	ND	18.2	14	77		13	72		40-140	7		30
Bis(2-chloroisopropyl)ether	ND	18.2	14	77		14	77		40-140	0		30
Bis(2-chloroethoxy)methane	ND	18.2	15	83		15	83		40-140	0		30
Hexachlorocyclopentadiene	ND	18.2	11J	61		11.J	61		40-140	0		30
Isophorone	ND	18.2	15	83		15	83		40-140	0		30
Nitrobenzene	ND	18.2	14	77		14	77		40-140	0		30
NDPA/DPA	ND	18.2	15	83		14	77		40-140	7		30
n-Nitrosodi-n-propylamine	ND	18.2	15	83		16	88		29-132	6		30
Bis(2-ethylhexyl)phthalate	ND	18.2	18	99		18	99		40-140	0		30
Butyl benzyl phthalate	ND	18.2	14	77		14	77		40-140	0		30
Di-n-butylphthalate	ND	18.2	15	83		15	83		40-140	0		30
Di-n-octylphthalate	ND	18.2	16	88		16	88		40-140	0		30
Diethyl phthalate	ND	18.2	15	83		14	77		40-140	7		30
Dimethyl phthalate	ND	18.2	14	77		14	77		40-140	0		30

Matrix Spike Analysis

Batch Quality Control

Project Name: STEEL SUN II 2018

Project Number: 0351-018-004

Lab Number: L1845226

Report Date: 11/12/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1177084-4 WG1177084-5 QC Sample: L1845226-01 Client ID: MWN-56A												
Biphenyl	ND	18.2	14	77		14	77		40-140	0		30
4-Chloroaniline	ND	18.2	7.4	41		6.5	**36**	Q	40-140	13		30
2-Nitroaniline	ND	18.2	14	77		14	77		52-143	0		30
3-Nitroaniline	ND	18.2	12	66		10	55		25-145	18		30
4-Nitroaniline	ND	18.2	13	72		12	66		51-143	8		30
Dibenzofuran	ND	18.2	14	77		14	77		40-140	0		30
1,2,4,5-Tetrachlorobenzene	ND	18.2	12	66		13	72		2-134	8		30
Acetophenone	ND	18.2	14	77		14	77		39-129	0		30
Benzyl Alcohol	ND	18.2	12	66		11	61		26-116	9		30
Carbazole	ND	18.2	14	77		14	77		55-144	0		30

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	72		65		10-120
2-Fluorobiphenyl	73		76		15-120
2-Fluorophenol	68		68		21-120
4-Terphenyl-d14	72		69		41-149
Nitrobenzene-d5	73		74		23-120
Phenol-d6	58		59		10-120

Matrix Spike Analysis

Batch Quality Control

Project Name: STEEL SUN II 2018

Project Number: 0351-018-004

Lab Number: L1845226

Report Date: 11/12/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1177086-4 WG1177086-5 QC Sample: L1845226-01 Client ID: MWN-56A												
Acenaphthene	ND	18.2	16	88		16	88		40-140	0		40
2-Chloronaphthalene	ND	18.2	16	88		16	88		40-140	0		40
Fluoranthene	ND	18.2	18	99		16	88		40-140	12		40
Hexachlorobutadiene	ND	18.2	15	83		14	77		40-140	7		40
Naphthalene	ND	18.2	15	83		15	83		40-140	0		40
Benzo(a)anthracene	ND	18.2	19	100		18	99		40-140	5		40
Benzo(a)pyrene	ND	18.2	18	99		16	88		40-140	12		40
Benzo(b)fluoranthene	ND	18.2	18	99		16	88		40-140	12		40
Benzo(k)fluoranthene	ND	18.2	17	94		16	88		40-140	6		40
Chrysene	ND	18.2	16	88		15	83		40-140	6		40
Acenaphthylene	ND	18.2	17	94		16	88		40-140	6		40
Anthracene	ND	18.2	17	94		16	88		40-140	6		40
Benzo(ghi)perylene	ND	18.2	18	99		16	88		40-140	12		40
Fluorene	ND	18.2	17	94		16	88		40-140	6		40
Phenanthrene	ND	18.2	16	88		15	83		40-140	6		40
Dibenzo(a,h)anthracene	ND	18.2	18	99		17	94		40-140	6		40
Indeno(1,2,3-cd)pyrene	ND	18.2	20	110		18	99		40-140	11		40
Pyrene	ND	18.2	18	99		16	88		40-140	12		40
2-Methylnaphthalene	ND	18.2	16	88		15	83		40-140	6		40
Hexachlorobenzene	ND	18.2	17	94		16	88		40-140	6		40
Hexachloroethane	ND	18.2	15	83		14	77		40-140	7		40

Matrix Spike Analysis

Batch Quality Control

Project Name: STEEL SUN II 2018 ***Lab Number:*** L1845226

Project Number: 0351-018-004 ***Report Date:*** 11/12/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1177086-4 WG1177086-5 QC Sample: L1845226-01 Client ID: MWN-56A												

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
2,4,6-Tribromophenol	85		81		10-120
2-Fluorobiphenyl	79		77		15-120
2-Fluorophenol	80		74		21-120
4-Terphenyl-d14	82		77		41-149
Nitrobenzene-d5	105		100		23-120
Phenol-d6	68		64		10-120

METALS

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-01 Date Collected: 11/05/18 09:38

Client ID: MWN-56A Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.00039	J	mg/l	0.00050	0.00016	1	11/07/18 18:05	11/08/18 16:26	EPA 3005A	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	11/07/18 18:05	11/08/18 16:26	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	11/07/18 18:05	11/08/18 16:26	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	11/06/18 14:43	11/07/18 21:05	EPA 7470A	1,7470A	EA

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-02 Date Collected: 11/05/18 10:24

Client ID: MWN-57A Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.00101		mg/l	0.00050	0.00016	1	11/07/18 18:05	11/08/18 17:25	EPA 3005A	1,6020B	AM
Chromium, Total	0.00029	J	mg/l	0.00100	0.00017	1	11/07/18 18:05	11/08/18 17:25	EPA 3005A	1,6020B	AM
Lead, Total	0.00124		mg/l	0.00100	0.00034	1	11/07/18 18:05	11/08/18 17:25	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	11/06/18 14:43	11/07/18 21:16	EPA 7470A	1,7470A	EA

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-03 Date Collected: 11/05/18 10:58

Client ID: MWS-04 Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.01074		mg/l	0.00050	0.00016	1	11/07/18 18:05	11/08/18 17:30	EPA 3005A	1,6020B	AM
Chromium, Total	0.00075	J	mg/l	0.00100	0.00017	1	11/07/18 18:05	11/08/18 17:30	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	11/07/18 18:05	11/08/18 17:30	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	11/06/18 14:43	11/07/18 21:17	EPA 7470A	1,7470A	EA

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-04 Date Collected: 11/05/18 12:00

Client ID: BLIND DUP Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.01124		mg/l	0.00050	0.00016	1	11/07/18 18:05	11/08/18 17:34	EPA 3005A	1,6020B	AM
Chromium, Total	0.00072	J	mg/l	0.00100	0.00017	1	11/07/18 18:05	11/08/18 17:34	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	11/07/18 18:05	11/08/18 17:34	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	11/06/18 14:43	11/07/18 21:22	EPA 7470A	1,7470A	EA

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-05 Date Collected: 11/05/18 12:34

Client ID: MWS-31A Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.01850		mg/l	0.00050	0.00016	1	11/07/18 18:05	11/08/18 17:39	EPA 3005A	1,6020B	AM
Chromium, Total	0.00040	J	mg/l	0.00100	0.00017	1	11/07/18 18:05	11/08/18 17:39	EPA 3005A	1,6020B	AM
Lead, Total	0.00068	J	mg/l	0.00100	0.00034	1	11/07/18 18:05	11/08/18 17:39	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	11/06/18 14:43	11/07/18 21:24	EPA 7470A	1,7470A	EA

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-06 Date Collected: 11/05/18 11:56

Client ID: MWS-34A Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.01402		mg/l	0.00050	0.00016	1	11/07/18 18:05	11/08/18 18:11	EPA 3005A	1,6020B	AM
Chromium, Total	0.00053	J	mg/l	0.00100	0.00017	1	11/07/18 18:05	11/08/18 18:11	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	11/07/18 18:05	11/08/18 18:11	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	11/06/18 14:43	11/07/18 21:26	EPA 7470A	1,7470A	EA

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-07 Date Collected: 11/05/18 13:25

Client ID: MWS-35A Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	0.00395		mg/l	0.00050	0.00016	1	11/07/18 18:05	11/08/18 18:16	EPA 3005A	1,6020B	AM
Chromium, Total	0.00050	J	mg/l	0.00100	0.00017	1	11/07/18 18:05	11/08/18 18:16	EPA 3005A	1,6020B	AM
Lead, Total	0.00071	J	mg/l	0.00100	0.00034	1	11/07/18 18:05	11/08/18 18:16	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	11/06/18 14:43	11/07/18 21:28	EPA 7470A	1,7470A	EA

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

SAMPLE RESULTS

Lab ID: L1845226-08 Date Collected: 11/05/18 08:30

Client ID: EQUIPMENT BLANK Date Received: 11/05/18

Sample Location: LACKAWANNA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	11/07/18 18:05	11/08/18 17:48	EPA 3005A	1,6020B	AM
Chromium, Total	0.00033	J	mg/l	0.00100	0.00017	1	11/07/18 18:05	11/08/18 17:48	EPA 3005A	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	11/07/18 18:05	11/08/18 17:48	EPA 3005A	1,6020B	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	11/06/18 14:43	11/07/18 21:29	EPA 7470A	1,7470A	EA

Project Name: STEEL SUN II 2018 **Lab Number:** L1845226

Project Number: 0351-018-004 **Report Date:** 11/12/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1176540-1										
Mercury, Total	ND		mg/l	0.00020	0.00006	1	11/06/18 14:43	11/07/18 21:02	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-08 Batch: WG1176996-1										
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	11/07/18 18:05	11/08/18 16:17	1,6020B	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	11/07/18 18:05	11/08/18 16:17	1,6020B	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	11/07/18 18:05	11/08/18 16:17	1,6020B	AM

Prep Information

Digestion Method: EPA 3005A

Lab Control Sample Analysis

Batch Quality Control

Project Name: STEEL SUN II 2018

Project Number: 0351-018-004

Lab Number: L1845226

Report Date: 11/12/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1176540-2								
Mercury, Total	96		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-08 Batch: WG1176996-2								
Arsenic, Total	106		-		80-120	-		
Chromium, Total	97		-		80-120	-		
Lead, Total	116		-		80-120	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: STEEL SUN II 2018
Project Number: 0351-018-004

Lab Number: L1845226
Report Date: 11/12/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1176540-3 WG1176540-4 QC Sample: L1845226-01 Client ID: MWN-56A												
Mercury, Total	ND	0.005	0.00454	91		0.00439	88		75-125	3		20
Total Metals - Mansfield Lab Associated sample(s): 01-08 QC Batch ID: WG1176996-3 WG1176996-4 QC Sample: L1845226-01 Client ID: MWN-56A												
Arsenic, Total	0.00039J	0.12	0.1321	110		0.1257	105		75-125	5		20
Chromium, Total	ND	0.2	0.2003	100		0.1898	95		75-125	5		20
Lead, Total	ND	0.51	0.5856	115		0.5695	112		75-125	3		20

Project Name: STEEL SUN II 2018
Project Number: 0351-018-004

Lab Number: L1845226
Report Date: 11/12/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1845226-01A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-01A1	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-01A2	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-01B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-01B1	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-01B2	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-01C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-01C1	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-01C2	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-01D	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	Y	Absent		CR-6020T(180),PB-6020T(180),AS-6020T(180),HG-T(28)
L1845226-01D1	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	Y	Absent		CR-6020T(180),PB-6020T(180),AS-6020T(180),HG-T(28)
L1845226-01D2	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	Y	Absent		CR-6020T(180),PB-6020T(180),AS-6020T(180),HG-T(28)
L1845226-01E	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1845226-01E1	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1845226-01E2	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1845226-01F	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1845226-01F1	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1845226-01F2	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1845226-02A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-02B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-02C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name: STEEL SUN II 2018
Project Number: 0351-018-004

Lab Number: L1845226
Report Date: 11/12/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1845226-02D	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	Y	Absent		CR-6020T(180),PB-6020T(180),AS-6020T(180),HG-T(28)
L1845226-02E	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1845226-02F	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1845226-03A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-03B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-03C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-03D	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	Y	Absent		CR-6020T(180),PB-6020T(180),AS-6020T(180),HG-T(28)
L1845226-03E	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1845226-03F	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1845226-04A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-04B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-04C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-04D	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	Y	Absent		CR-6020T(180),PB-6020T(180),AS-6020T(180),HG-T(28)
L1845226-04E	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1845226-04F	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1845226-05A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-05B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-05C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-05D	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	Y	Absent		CR-6020T(180),PB-6020T(180),AS-6020T(180),HG-T(28)
L1845226-05E	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1845226-05F	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1845226-06A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-06B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-06C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-06D	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	Y	Absent		CR-6020T(180),PB-6020T(180),AS-6020T(180),HG-T(28)
L1845226-06E	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1845226-06F	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)

*Values in parentheses indicate holding time in days

Project Name: STEEL SUN II 2018
Project Number: 0351-018-004

Lab Number: L1845226
Report Date: 11/12/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1845226-07A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-07B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-07C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-07D	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	Y	Absent		CR-6020T(180),PB-6020T(180),AS-6020T(180),HG-T(28)
L1845226-07E	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1845226-07F	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1845226-08A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-08B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-08C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-08D	Plastic 250ml HNO3 preserved	A	<2	<2	2.6	Y	Absent		CR-6020T(180),PB-6020T(180),AS-6020T(180),HG-T(28)
L1845226-08E	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1845226-08F	Amber 250ml unpreserved	A	7	7	2.6	Y	Absent		NYTCL-8270-SIM-LVI(7),NYTCL-8270-LVI(7)
L1845226-09A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)
L1845226-09B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260-R2(14)

*Values in parentheses indicate holding time in days

Project Name:	STEEL SUN II 2018	**Lab Number:**	L1845226
Project Number:	0351-018-004	**Report Date:**	11/12/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample¿s toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Report Format: DU Report with 'J' Qualifiers

Project Name:	STEEL SUN II 2018	**Lab Number:**	L1845226
Project Number:	0351-018-004	**Report Date:**	11/12/18

Data Qualifiers

A - Spectra identified as "Aldol Condensation Product".

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	STEEL SUN II 2018	**Lab Number:**	L1845226
Project Number:	0351-018-004	**Report Date:**	11/12/18

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.

EPA 6860: SCM: Perchlorate

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

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Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 11/6/18

ALPHA Job #: L1845226

Client Information
Client: Benchmark Env
Address: 2558 Hamburg Turnpike
Lackawanna NY 14218
Phone: (716) 818-8358
Fax: (716) 856-0583
Email: tbehrendt@benchmarkenv.com

Project Information
Project Name: Steelsun II 2018
Project Location: Lackawanna NY
Project # 0351-018-004
(Use Project name as Project #) ☒
Project Manager: Tom Forbes
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☐ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information
☐ Same as Client Info
PO #

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

COPC metals Include Total As, Cr, Pb, Hg

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL VOCs 8260	TCL SVOCs BN only	COPC metals	Sample Specific Comments	Total Bottle
45226 -01	MWN-56A (MS/MSD)	11/5/18	938	Water	TAB	9	6	3		18
-02	MWN-57A		1024			3	2	1		6
-03	MWS-04		1658			3	2	1		6
-04	Blind Dup		1200			3	2	1		6
-05	MWS-31A		1234			3	2	1		6
-06	MWS-34A		1156			3	2	1		6
-07	MWS-35A		1325			3	2	1		6
-08	Equipment Blank		830			3	2	1		6
-09	Trip Blank					2				2

Container Type: V A P
Preservative: B A C

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
TAB	11/5/18 1435	JM FL AAC	11/05/18 16:25
Jm FL AAC	11/05/18 17:00		11/6/18 0050

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)