Periodic Review Report

Tecumseh Phase III Business Park
Sites III-2, III-3, III-4 & III-9
NYSDEC Site Nos. C915199B-D & I

2303 Hamburg Turnpike
Lackawanna, New York

March 2020 0351-018-003

Prepared For:

Steel Sun 2 LLC

Prepared By:

BENCHMARK
ENVIRONMENTAL
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PERIODIC REVIEW REPORT

TECUMSEH PHASE III BUSINESS PARK
SITES III-2, III-3, III-4, & III-9
(BCP SITE NOS. C915199B, C915199C, C915199D & C915199I)

2303 HAMBURG TURNPIKE
LACKAWANNA, NEW YORK

March 2020 B0351-018-004

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PERIODIC REVIEW REPORT

Sites III-2, III-3, III-4, & III-9: C915199B, C915199C, C915199D, & C915199I

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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, C915199D, and C915199I, 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 February 24, 2020.

This PRR and associated certifications have been completed on behalf of Steel Sun 2, LLC as a volunteer remedial party and COC recipient for all of the subject sites, as well as Tecumseh Redevelopment Inc. (Tecumseh) as owner of Site III-3 (C915199C), and 1951 Hamburg Turnpike LLC as owner of Site III-4 (C915199D). This PRR documents post-remedial activities covered by the Site Management Plan (Ref. 2). The post remedial period covered by this PRR is: March 15, 2019– March 15, 2020 for Sites III-2, III-3 and III-4, and October 16, 2018 – February 16, 2020 for Site III-9.

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, 141.15-1-3, 141.19-1-1, 150.07-1-2, 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).

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. 3). The final remedial measures included placement of acceptable cover material in areas not otherwise covered by asphalt roadway, pavement, and building foundations.

In May 2019, Tecumseh sold approximately 24.21 acres of land to Lackawanna Solar Land LLC, including Tecumseh Phase III Business Park, Sites III-2 (C915199B) and III-9 (C915199I), and sold Site III-4 (approx. 16.19 acres) of the Phase III Business Park to 1951 Hamburg Turnpike, LLC. These followed 60-day Notices of Transfer of Ownership submitted to the Department in November of 2018. In addition, Tecumseh leases a 3.80-acre portion of Tecumseh Phase III Business Park (Site III-3) to Lackawanna Solar Land LLC for use as a commercial scale photovoltaic solar farm.

A Notice of Transfer of Certificate of Completion was filed on September 6, 2019 for Tecumseh Phase III Business Park Sites III-2, III-3, III-4, and III-9. As indicated in a separate Notice for each Site, a sublease between Steel Sun 2 LLC (as lessee and solar facility operator) and Manufacturers and Traders Trust Company (as sublessee and owner of the solar facility) was filed in the Erie County Clerk's Office on August 22, 2019.

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. 4), 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. 5) 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 were found to be 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 found to be 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 Site III-9

During the RI, 14 test pits (identified as BP3-TP-4 through TP-9; BP3-TP-13; BP3-TP-83 through -86; and BP3A-TP-40, -42, and -43) and four supplemental test pits (identified as BP3-SUPP TP-3, -5, -6, and -8) were completed on Site III-9. Two monitoring wells (identified as MWN-56A and MWN-57A) were installed on the Site to assist in groundwater characterization. In addition, five delineation test pits were completed on Site III-9 to delineate impacts originating to the north at test pit BP3A-TP-44, which is located on Site III-10.

The nature and extent of metals contamination at the Site is consistent with the former site use as a steel manufacturing facility. Fill soil exceeds unrestricted and residential use SCOs. When compared to the commercial SCOs, arsenic, chromium, lead, and mercury were found to exceed. Seven SVOCs (PAHs) exceeded commercial SCOs.

Groundwater sampling for SVOCs, VOCs, and metals in January 2009 indicated groundwater at the Site did not exceed GWQS. Additional groundwater sampling in February 2016 indicated groundwater did not exceed GWQSs with the exception of slight pH exceedance in well MWN-56A. Site groundwater is not used at the Site and is restricted from use for either potable or non-potable purposes without treatment by an environmental easement.

1.2.6 Interim Remedial Measure and Preliminary Remedial Measures

No interim remedial measures (IRMs) were necessary on Sites III-2 and III-3. The remediation of Sites III-4 and III-9 included IRMs and other preliminary remedial measures prior to cover system placement as discussed below.

In July 2013, Tecumseh submitted to NYSDEC a combined 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 underwent IRM activities in accordance with the approved IRM Work Plan. The IRM work performed on Site III-4 and documented in the Construction Completion Report (Ref. 7) included the following activities (see Figure 3A):

- 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.

IRM and preliminary remedial work performed on Site III-9 is shown on Figure 3B, and included:

- Removal of former subsurface coke oven gas line piping and residuals completed in 2016. Approximately 761 feet of piping was cleaned, removed, and recycled off-site. Approximately 67 feet of piping was cleaned in place and capped. Piping work on Business Park III began February 29, 2016 and was completed March 2, 2016. The work was performed in accordance with an April 2014 Interim Remedial Measures (IRM) Work Plan (Ref. 8) and documented in a July 2016 Construction Completion Report (Ref. 9)
- Remediation of certain Areas of Concern (AOCs) on the adjacent Site III-10 extending onto Site III-9 in accordance with an approved addendum Remedial Design/Remedial Action Work Plan (RD/RAWP) for Site III-10 (Ref. 10). These activities, shown on Figure 3B, involved:
  - excavation of petroleum-impacted hotspot soil/fill (Hotspot "D") on Site III-10 extending onto Site III-9. The petroleum-impacted material was biotreated on Site III-9. To address the residual smear zone impacts (i.e., sheen), ORC Advanced® in pellet form was applied to the bottom of the excavation using an excavator bucket prior to backfilling with clean overburden slag/fill. Excavation and ORC Advanced® application was performed during the period of May-October 2016.
  - In-situ remediation of the saturated fill along the former Steel Winds II ROX (Site III-10), which extended onto Site III-9, by injecting an oxidation reagent (PersulfOx). The PersulfOx was injected between November 2 and 22, 2016.

On May 14-15, 2018, test pit TP-2 on Site III-10 was excavated to address residual impacts (elevated PID, sheen) within the smear zone (5 to 7 feet below ground surface; fbgs) and additional PersulfOx was added to the downgradient portion of the excavation.

These activities were documented in the August 2018 Final Engineering Report for Tecumseh Business Park III Site III-9 (Ref. 11)

Final remedial activities on Sites III-2, III-3, III-4 and III-9 are discussed in Section 2.1, below.

1.3 Compliance

At the time of the annual Site inspection (February 24, 2020), the Site was found to be compliant with the NYSDEC-approved SMP (Ref 2).

1.4 Recommendations

Recommendations discussed in Section 6.0 include:

- Discontinuance of groundwater monitoring on Site III-9 per the SMP.
- Modification of the annual certification reporting requirement for Sites III-2, III-3, III-4 and III-9 from annual to triennial (every three years), with all four sites having identical certification periods.

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 each of the Sites covered by this PRR 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 a NYSDEC-approved Remedial Action Work Plan (Ref. 3). Final remedial measures completed at Sites III-2, III-3, III-4, and III-9 included:

- Clearing, grubbing, and moderately re-grading to prepare the area for cover.
- Placing a demarcation layer beneath the cover system
- Demolition of buildings and treatment equipment remaining at Water Quality Control Station (WQCS) #3 followed by backfilling to grade on Site III-9.
- Constructing and maintaining a cover system to prevent human exposure to remaining contaminated soil/fill. As shown on Figures 4A and 4B, 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. On Site III-9, asphalt repairs were made as necessary where existing asphalt serves as final cover, and existing active railroad tracks with wooden ties and

stone ballast were left undisturbed as final cover along the western perimeter of the Site.

The remedial program was successful in achieving the remedial objectives for the Site. The Final Engineering Reports (FERs) for Site III-2, III-3, and III-4 were approved in December 2016 (Refs. 12 and 13) and the FER for Site III-9 was approved in October 2018 (Ref. 11). NYSDEC issued COCs for Sites III-2, III-3 and III-4 in December 2016 and for Site III-9 in October 2018.

3.0 REMEDY PERFORMANCE

A post-remedial site inspection involving a walk-over of the Sites covered by this PRR was performed on February 24, 2020 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. .

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. Parcel-specific SMP requirements for Site III-9 were added by addenda in August 2018 and are presented in SMP Appendix H-9. 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.

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, III-4, and III-9, 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 the activities described below.

4.2.1 Site III-4 Cover Repair Work

On April 15, 2019, Benchmark performed minor cover repair work for a small non-potable water line (industrial water) installed to service the building on the southern portion of Site III-4. This work was initiated during the prior reporting event and was discussed in the April 2019 PRR. Cover repairs included replacement of subgrade materials beneath the demarcation layer and replacement of previously removed clean oversize slag to restore the

1-foot clean cover layer. Benchmark personnel observed repair activities; due to significant rainfall during the repair work community air monitoring was not performed.

4.2.2 Import for Grounding Grids

In April of 2019, CIR Electrical imported approximately 10 tons of virgin washed 2-inch stone from New Enterprise Wherle Drive Pit for use around the grounding grids on the Steel Sun 2 Sites III-2, III-3, III-4, and III-9. No disturbances were made to the cover system during site activities. Imported material documentation is included in Appendix C.

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, III-4, and III-9 was conducted by Mr. Thomas Forbes, P.E. of Benchmark on February 24, 2020. 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, III-3, III-4, and III-9 were unoccupied and in service as photovoltaic (solar) power generating facilities. No observable indication of intrusive activities was noted during the Site inspection.

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, III-4, and III-9 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 and H-4 of the SMP, pertaining to Sites III-2, and III-4, required groundwater monitoring at wells MWS-04, MWS-31A, MWS-34A, MWS-35A on an annual basis for a period of approximately two years. Appendix H-9 of the SMP, pertaining to Site III-9, requires groundwater monitoring at wells MWN-56A and MWN-57A 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. There are no wells on Site III-3.

Two years of monitoring were completed for Sites III-2 and III-4, and groundwater monitoring 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. Discontinuation of groundwater monitoring for Sites III-2 and III-4 was approved by the NYSDEC July 2019.

Benchmark-TurnKey personnel performed two annual post-remedial groundwater monitoring events on Site III-9 (wells MWN-56A and MWN-57A) on November 5, 2018 and January 29, 2020. It was noted during the January 2020 event that that the riser at monitoring well MWN-56A was bent, but the well was able to be sampled via peristaltic pump.

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 D includes the analytical data packages and field data sheets. Table 1 summarizes the post COC groundwater monitoring results completed in accordance with the SMP (November 2018, and January 2020), along with groundwater data collected in February 2016, November 2017 and January 2009 (i.e., during the RI), and provides a comparison to GWQS/GVs as well as historic data at upgradient well MW-12A. The majority of the November 2018 and January 2020 results were reported as non-detect, and all detections were reported at concentrations well below GWQS/GVs with the exception of slight pH excursions at wells MWN-56A and MWN-57A, and a few polyaromatic hydrocarbon (PAH) compounds at MWN-57A during the November 2018 event. However,

all reported PAH detections were within an order of magnitude of the standard and all were non-detect in the January 2020 sampling event.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions and recommendations are as follows:

- At the time of the Site inspection, Sites III-2, III-3, III-4, and III-9 were in compliance with the SMP.

The following modifications are recommended for the Site:

- Discontinuance of groundwater monitoring on Site III-9 per the SMP. Two post-remedial monitoring events are complete and groundwater analytical results from the January 2020 monitoring event were below their respective Class GA GWQS or non-detect with the exception of slight pH excursions.
- Modification of the annual certification reporting requirement for Sites III-2, III-3, III-4 and III-9 from annual to triennial (every three years) based upon conformance with SMP requirements and the infrequent nature of disruptive activity on these sites. We further request that the all four sites have identical certification periods.

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. 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.
4. TurnKey Environmental Restoration, LLC. *Remedial Investigation/Alternatives Analysis Report (RI/AAR) Work Plan for Phase III Business Park Area, Lackawanna, New York.* May 2008.
5. TurnKey Environmental Restoration, LLC. *Remedial Investigation/Alternatives Analysis Report for Phase III Business Park, Lackawanna, New York.* Revised July 2012.
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. TurnKey Environmental Restoration, LLC., in association with Benchmark Environmental Engineering & Science, PLLC *Interim Remedial Measures (IRM) Work Plan for Former Coke Oven Gas Lines, Business Parks II & III Tecumseh Redevelopment Site, Lackawanna, New York.* April 2014.
9. TurnKey Environmental Restoration, LLC in association with Benchmark Environmental Engineering & Science, PLLC. *Construction Completion Report, BCP Business Parks II & III, Decommissioning of Former Coke Oven Gas Lines, Tecumseh Redevelopment Site, Lackawanna, New York.* July 2016.
10. Benchmark Environmental Engineering & Science, PLLC. *Addendum to May 2016 Remedial Design/Remedial Action Work Plan, Tecumseh Phase III-10 Business Park Site No. C915199J, Lackawanna, New York.* April 2018.
11. Benchmark Environmental Engineering & Science, PLLC. *Final Engineering Report, Tecumseh Phase III Business Park Sites III-9 Site No. C915199I, Lackawanna, New York.* August 2018.

12. 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.

13. 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

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FIGURE 1

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

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

PROJECT NO.: 0351-018-004

DATE: JANUARY 2020

DRAFTED BY: RPL/CCB

REGIONAL MAP

PERIODIC REVIEW REPORT

TECUMSEH PHASE III BUSINESS PARK
SITES III-2, III-3, III-4, & III-9
LACKAWANNA, NY

PREPARED FOR

STEEL SUN 2, LLC

F:\CAD\Benchmark\Steel Sun 2, LLC\2019 PRR\Figure 2; Vicinity Map.dwg

LAKE ERIE

TOWN OF HAMBURG
CITY OF LACKAWANNA

SMOKES CREEK

BUSINESS PARK I I I

III-3
BCP SITE NO. C915199C
(± 10.36 ACRES)
± 3.80 ACRE PORTION LEASED TO LACKAWANNA SOLAR LAND LLC

III-4
BCP SITE NO. C915199D
(± 16.19 ACRES)
1951 HAMBURG TURNPIKE LLC

III-2
BCP SITE NO. C915199B
(± 10.24 ACRES)
LACKAWANNA SOLAR LAND LLC

III-1
BCP SITE NO. C915199
(± 14.62 ACRES)

FFALO
OMPANY

III-6
BCP SITE NO. C915199F
(± 10.89 ACRES)

III-5
BCP SITE NO. C915199E
(± 11.69 ACRES)

WELDED TUBE USA
(BCP SITE NOs. C915199G & C915199H)
(± 45.15 AC)

STEEL SUN I PHOTOVOLTAIC SOLAR SYSTEM

III-10
BCP SITE NO. C915199J
(± 17.24 ACRES)

III-9
BCP SITE NO. C915199I
(± 13.97 ACRES)
LACKAWANNA SOLAR LAND LLC

GATEWAY METROPORT SHIP CANAL

BUSINESS PARK IA

IA
BCP SITE NO. C915218
(± 12.31 ACRES)

I-10
BCP SITE NO. C915197J
(± 9.98 ACRES)

I-9
BCP SITE NO. C915197I
(± 10.03 ACRES)

I-7
BCP SITE NO. C915197G
(± 10.03 ACRES)

I-11
BCP SITE NO. C915197K
(± 12.36 ACRES)

I-8
BCP SITE NO. C915197H
(± 10.24 ACRES)

I-6
BCP SITE NO. C915197F
(± 10.02 ACRES)

I-5
BCP SITE NO. C915197E
(± 10.05 ACRES)

I-3
BCP SITE NO. C915197C
(± 7.63 ACRES)

I-1
BCP SITE NO. C915197
(± 5.57 ACRES)

I-4
BCP SITE NO. C915197D
(± 10.37 ACRES)

I-2
BCP SITE NO. C915197B
(± 6.23 ACRES)

II-12
BCP SITE NO. C915198L
(± 12.02 ACRES)

II-10
BCP SITE NO. C915198J
(± 15.78 ACRES)

II-9
BCP SITE NO. C915198I
(± 11.98 ACRES)

II-11
BCP SITE NO. C915198K
(± 11.98 ACRES)

II-8
BCP SITE NO. C915198H
(± 11.41 ACRES)

II-7
BCP SITE NO. C915198G
(± 12.23 ACRES)

II-6
BCP SITE NO. C915198F
(± 11.50 ACRES)

II-5
BCP SITE NO. C915198E
(± 6.75 ACRES)

II-4
BCP SITE NO. C915198D

II-3
BCP SITE NO. C915198C
(± 23.40 ACRES)

II-2
BCP SITE NO. C915198B
(± 9.43 ACRES)

II-1
BCP SITE NO. C915198
(± 14.35 ACRES)

SOUTH RETURN WATER TRENCH

EAST HARBOR TRAC

BUSINESS PARK I

BUSINESS PARK II

GREAT LAKES INDUSTRIAL DEVELOPMENT, LLC
(FMR. HOT / COLD MILL)

N

700 0' 700 1,400

SCALE: 1 INCH = 700 FEET
SCALE IN FEET
(approximate)

DATE: JANUARY 2020
DRAFTED BY: RPL/CCB

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

JOB NO.: 0351-018-004

VICINITY MAP

PERIODIC REVIEW REPORT
TECUMSEH PHASE III BUSINESS PARK
SITE III-2, III-3, III-4, & III-9
LACKAWANNA, NY
PREPARED FOR
STEEL SUN 2, LLC

FIGURE 2

F:\CAD\Benchmark\Steel Sun 2, LLC\2019 PRR\Figure 3A; III-2, III-3, & III-4 Remedial Actions.dwg

DATE: JANUARY 2020
DRAFTED BY: RFL/CCB

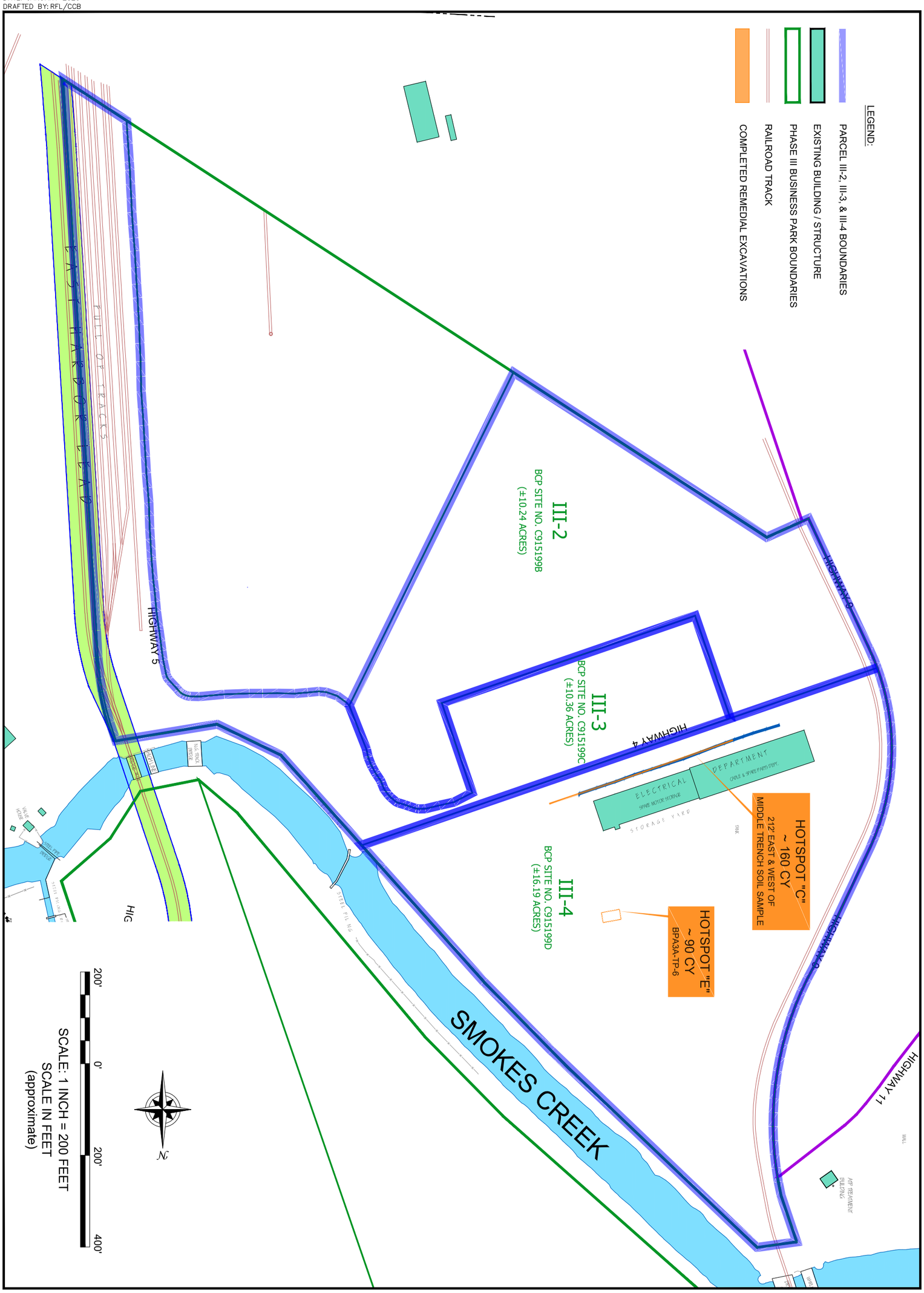


FIGURE 3A

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, & III-9
LACKAWANNA, NY

PREPARED FOR

STEEL SUN 2, LLC

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

JOB NO.: 0351-018-004

F:\CAD\Benchmark\Steel Sun 2, LLC\2019 PRR\Figure 3B; III-9 Remedial Actions.dwg

BIOTREATMENT PAD LOCATION

HOTSPOT "D"
25,500 SF

GROUNDWATER REMEDIATION AREA
STEEL WINDS II
(SEE INSET)

III-9
BCP SITE NO. C915199I
(± 13.97 ACRES)

MWN-57A
MWN-92A
MWN-93A
MWN - 56A

TP-1
TP-2
TP-3
TP-4
TP-5
TP-6
TP-7
TP-8
TP-9
TP-10
TP-11
TP-12
TP-13

SOUTH RE

COKE OVEN GAS LINE CLEANED AND REMOVED 761'

COKE OVEN GAS LINE CLEANED IN PLACE 131'

160 INJECTION POINTS SPACED AS SHOWN

22.5'

21.5'

STEEL WINDS II GROUNDWATER TREATMENT AREA
SCALE 1" =~100'

LEGEND:

- PARCEL III-9 BOUNDARY
- EXISTING BUILDING / STRUCTURE
- PHASE III BUSINESS PARK BOUNDARIES
- RAILROAD TRACK
- COKE OVEN GAS LINE
- MWN-56A — FILL UNIT MONITORING WELL
- TP-1 — POST-INJECTION TEST PIT
- COMPLETED REMEDIAL EXCAVATIONS

200' 0' 200' 400'

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

DATE: JANUARY 2020
DRAFTED BY: RFL/CCB

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

JOB NO.: 0351-018-004

REMEDIAL ACTIONS ON SITE III-9

PERIODIC REVIEW REPORT
TECUMSEH PHASE III BUSINESS PARK
SITE III-2, III-3, III-4, & III-9
LACKAWANNA, NEW YORK
PREPARED FOR
STEEL SUN 2, LLC

FIGURE 3B

F:\CAD\Benchmark\Steel Sun 2, LLC\2019 PRR\Figure 4A; Site-Wide Cover System for Sites III-2, III-3, & III-4.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

HIGHWAY 11

HIGHWAY 5

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

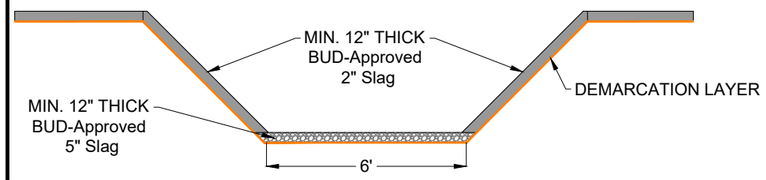
COVER KEYED-IN AT EDGE OF ROADWAY AND RAILROAD TRACKS

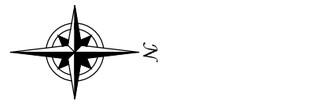
SITE III-3 "B" PARCEL C915199C (± 7.02 ACRES)

EAST HARBOR LEAS

DETAIL A
10-12' DEEP CREEK ACCESS RAMP
NTS

DETAIL B
6' DEEP DITCH
NTS





200' 0' 200' 400'

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

DATE: JANUARY 2020
DRAFTED BY: RFL/CCB

SITE WIDE COVER SYSTEM FOR SITES III-2, III-3, & III-4

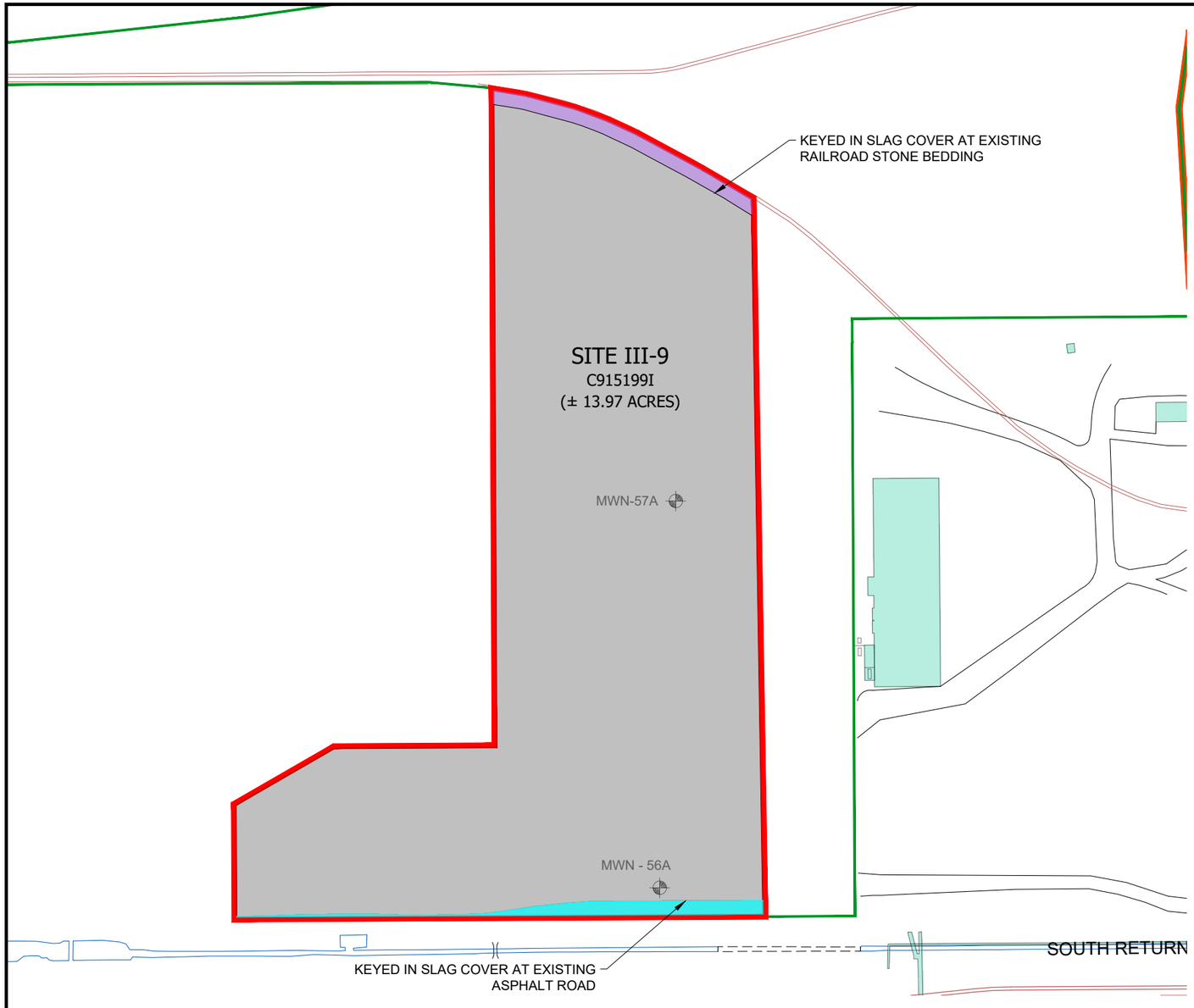
PERIODIC REVIEW REPORT
TECUMSEH PHASE III BUSINESS PARK
SITES III-2, III-3, III-4, & III-9
LACKAWANNA, NY
PREPARED FOR
STEEL SUN 2, LLC

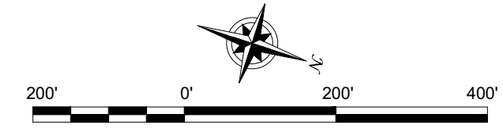
FIGURE 4A

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

JOB NO.: 0351-018-004

F:\CAD\Benchmark\Steel Sun 2, LLC\2019 PRR\Figure 4B; Site-Wide Cover System for Site III-9.dwg





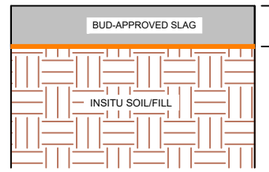
SCALE: 1 INCH = 200 FEET
SCALE IN FEET
(approximate)

DATE: JANUARY 2020
DRAFTED BY:RFL/CCB

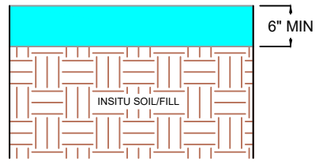
COVER SYSTEM DETAILS

NTS

BUD-APPROVED SLAG COVER SYSTEM DETAIL
NTS

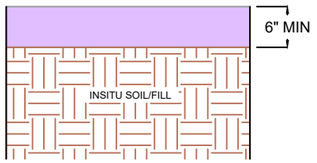


EXISTING ASPHALT COVER SYSTEM DETAIL
NTS

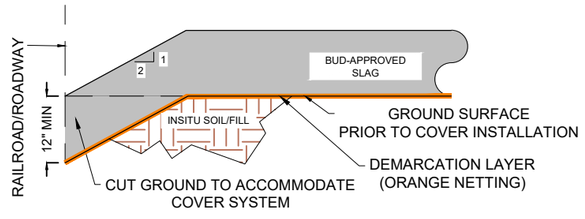


DEMARCATION LAYER

EXISTING STONE BEDDING COVER SYSTEM DETAIL
NTS



TIE-IN DETAIL
NTS



LEGEND:

- PHASE III BUSINESS PARK BOUNDARIES
- SITE III-9 BOUNDARY
- RAILROAD TRACK
- EXISTING ASPHALT PAVEMENT
- EXISTING ACTIVE RAIL AND STONE BEDDING
- 1' BUD-APPROVED SLAG COVER OVER DEMARCATION LAYER
- MWN-56A FILL UNIT MONITORING WELL

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

JOB NO.: 0351-018-004

SITE WIDE COVER SYSTEM FOR SITE III-9

PERIODIC REVIEW REPORT
TECUMSEH PHASE III BUSINESS PARK
SITES III-2, III-3, III-4, & III-9
LACKAWANNA, NEW YORK
PREPARED FOR
STEEL SUN 2, LLC

FIGURE 4B

TABLE

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

TABLE 1

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

PERIODIC REVIEW REPORT

Tecumseh Phase III Business Park: Site III-9
Lackawanna, New York

Parameter [1]	MWN-56A 1/14/09		MWN-56A 2/24/2016		MWN-56A 11/29/2017		MWN-56A 11/5/2018		MWN-56A 1/29/2020		MWN-57A 1/14/09		MWN-57A 2/29/2016		MWN-57A 11/30/2017		MWN-57A 11/5/2018		MWN-57A 1/29/2020		MW-12A 3/7/06		MW-12A 2/23/16		MW-12A 11/29/2017		GWQS [3]
	BPA-III-9																				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	--
pH (units)	8.14	8.13	**8.71**	**8.76**	7.00	7.08	**8.94**	**8.91**	7.2	**8.94**	7.25	7.31	7.23	7.30	7.48	7.50	7.17	7.29	**6.03**	6.87	**9.69**	**9.46**	**8.84**	**8.89**	8.27	8.36	**6.5 - 8.5**
Temperature (°C)	10.6	10.6	11.3	11.0	10.5	10.7	14.1	14.2	7.1	8.7	10.3	10.8	9.6	9.0	12.8	12.3	13.9	13.9	7.2	8.4	7.7	5.6	9.2	9.1	12.3	11.5	**NA**
Sp. Conductance (mS)	18610	18520	28440	28530	983.2	907.1	19650	19660	6302	15	4192	4010	5552	5589	6854	6713	9490	9490	6823	5864	507.2	482.7	385.2	394.3	457.7	466.8	**NA**
Turbidity (NTU)	11.2	8.1	1.65	1.81	6.72	4.20	3.68	2.59	11.20	0.71	34.1	22.8	35.2	11.3	5.6	6.1	15.7	11.9	94.9	16.9	15.7	21.4	16.4	8.88	9.9	46.8	**NA**
DO (ppm)	1.21	1.10	2.50	2.09	2.59	3.30	1.41	1.47	7.04	3.05	1.78	1.40	1.80	1.83	1.17	1.34	1.09	1.02	5.93	5.56	--	--	2.90	3.09	1.83	2.00	**NA**
Eh (mV)	-182	-173	-67	-70	-132	-144	-206	-205	-36	-144	-105	-109	-109	-112	-183	-182	-179	-178	-41	-56	-79	-79	-50	-38	-155	-158	**NA**
Metals (mg/L): [5]																											
Aluminum - Total	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	307	--	--	--	--	--	**--**
Arsenic - Total	ND		ND		ND		0.00039 J		ND		ND		ND		ND		0.00101		ND		ND		ND		ND		**0.025**
Barium - Total	--		0.77		--		--		--		--		0.4		--		--		--		**8.7**		0.025		--		**1**
Calcium - Total	--		--		--		--		--		--				--		--		--		57,200		--		--		**--**
Chromium Hexavalent	--		0.0055 J		--		--		--		--		ND		--		--		--		ND		ND		--		**0.05**
Chromium - Total	ND		ND		ND		ND		ND		ND		ND		0.0065		0.00029 J		ND		ND		ND		ND		**0.05**
Copper - Total	--		ND		--		--		--		--		0.0021 J		--		--		--		ND		ND		--		**0.2**
Iron - Total	--		--		--		--		--		--		--		--		--		--		**248**		--		--		**0.3**
Lead - Total	ND		ND		ND		ND		ND		0.0054		ND		ND		0.00124		ND		ND		ND		0.015		**0.025**
Magnesium - Total	--		--		--		--		--		--		--		--		--		--		**2,260**		--		--		**35***
Manganese - Total	--		0.3		--		--		--		--		**1**		--		--		--		74.3		**1 B**		--		**0.3**
Mercury	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		**0.7**
Nickel - Total	--		ND		--		--		--		--		ND		--		--		--		ND		ND		--		**0.1**
Potassium - Total	--		--		--		--		--		--		--		--		--		--		7,390		--		--		**--**
Sodium - Total	--		--		--		--		--		--		--		--		--		--		**44,000**		--		--		**20**
Vanadium - Total	--		--		--		--		--		--		--		--		--		--		ND		--		--		**--**
Zinc - Total	--		ND		--		--		--		--		0.0023 JB		--		--		--		ND		ND		--		**2***
Cyanide - Total	--		0.058		--		--		--		--		ND		--		--		--		ND		ND		--		**0.2**
Volatile Organic Compounds (ug/L):																											
Acetone	--		ND		ND		ND		ND		--		ND		ND		ND		ND		3 J		ND		ND		**50***
1,2,4-Trichlorobenzene	--		ND		ND		ND		ND		--		ND		ND		ND		ND		1.9 J		ND		ND		**5**
Benzene	0.054 J		ND		ND		ND		ND		0.045 J		ND		ND		ND		ND		ND		ND		ND		**1**
Carbon Disulfide	--		0.8 J		ND		ND		ND		--		ND		ND		ND		ND		--		ND		ND		**--**
Methylene Chloride	--		ND		ND		ND		ND		--		3 JB		ND		ND		ND		--		ND		ND		**5**
Methyl tert-butyl ether	ND		ND		ND		ND		ND		0.15 J		ND		ND		ND		ND		ND		ND		ND		**10**
Toluene	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		**5**
Xylenes, Total	ND		ND		ND		ND		ND		ND		ND		1.2 J		0.72 J		ND		ND		ND		ND		**5**
Semi-Volatile Organic Compounds (ug/L):																											
4-Nitroaniline	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		**--**
Acenaphthene	ND		ND		ND		ND		ND		1.6 J		1.6 J		1.7 J		1.4		1.2 J		ND		ND		ND		**20**
Acenaphthylene	ND		ND		ND		ND		ND		ND		ND		ND		0.17		ND		ND		ND		ND		**--**
Acetophenone	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		**--**
Anthracene	ND		ND		ND		ND		ND		ND		ND		ND		0.08 J		ND		ND		ND		ND		**50**
Benzaldehyde	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		**--**
Benzo(a)anthracene	ND		ND		ND		ND		ND		ND		ND		ND		**0.02 J**		ND		ND		ND		ND		**0.002***
Benzo(a)pyrene	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		**0.002***
Benzo(b)fluoranthene	ND		ND		ND		ND		ND		ND		ND		ND		**0.02 J**		ND		ND		ND		ND		**0.002***
Benzo(k)fluoranthene	ND		ND		ND		ND		ND		ND		ND		ND		**0.01 J**		ND		ND		ND		ND		**0.002**
Benzo(ghi)perylene	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		**--**
Bis(2-ethylhexyl) phthalate	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		**5**
Carbazole	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		**--**
Chrysene	ND		ND		ND		ND		ND		ND		ND		ND		**0.02 J**		ND		ND		ND		ND		**0.002**
Dibenzofuran	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		**--**
Diethyl phthalate	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		**50***
Di-n-butyl phthalate	0.29 BJ		ND		ND		ND		ND		0.4 BJ		ND		ND		ND		ND		ND		ND		ND		**50***
Fluoranthene	ND		ND		ND		ND		ND		0.68 J		0.43 J		0.47 J		0.37		ND		ND		ND		ND		**50***
Fluorene	ND		ND		ND		ND		ND		ND		0.38 J		ND		0.1 J		ND		ND		ND		ND		**50***
Indeno(1,2,3-cd)pyrene	ND		ND		ND		ND		ND		ND		ND		ND		**0.01 J**		ND		ND		ND		ND		**0.002***
Naphthalene	ND		ND		ND		ND		ND		0.36 J		ND		ND		4.2		ND		ND		ND		ND		**10***
Phenanthrene	ND		ND		ND		ND		ND		0.61 J		ND		ND		0.1 J		ND		ND		ND		ND		**50***
Phenol	--		--		--		--		--		--		--		--		--		--		--		--		--		**1****
Pyrene	ND		ND		ND		ND		ND		0.53 J		ND		ND		0.25		ND		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.

Acronyms:

J = Estimated Value
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.

BOLD

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, 2019 to March 15, 2020

On May 7, 2019, Tecumseh Redevelopment sold Site III-2 to Lackawanna Solar Land, LLC.

	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))?	☐	☑
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.		
5. Is the site currently undergoing development? See Appendix A5	☐	☑

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~~ 150.07-1-2	~~Tecumseh Redevelopment Inc.~~ Lackawanna Solar Land, LLC	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~~ 150.07-1-2	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

March 13, 2020
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. at Benchmark Environmental Engineering & Science, PLLC 2558 Hamburg Turnpike, Buffalo, NY 14218,

print name — 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

Stamp (Required for PE)

3-13-20

Date

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, 2019 to ~~April 14, 2020~~ March 15, 2020

	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))?	☐	☑
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.		
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 Street 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

March 13, 2020
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 & Science, PLLC 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)

STATE OF NEW YORK
THOMAS H. FORBES
No. 70950-1
LICENSED PROFESSIONAL ENGINEER

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

Stamp (Required for PE)

3-13-20

Date

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, 2019 to March 15, 2020

In May 2019, Tecumseh Redevelopment sold Site III-4 to 1951 Hamburg Turnpike, LLC.

	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))?	☐	☑
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.

See Appendix A5

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~~ 141.19-1-1	~~Tecumseh Redevelopment Inc.~~ 1951 Hamburg Turnpike, LLC	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~~ 141.19-1-1	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

March 13, 2020
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 & Science, PLLC 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 No. 70950-1 LICENSED PROFESSIONAL ENGINEER

Signature of , for the Owner or Remedial Party, Rendering Certification | Stamp (Required for PE) | Date 3-13-20

APPENDIX A4

SITE III-9

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. **C915199I**

Site Name Site III-9 Tecumseh Phase III Business Park

Site Address: 2303 Hamburg Turnpike Zip Code: 14218
City/Town: Lackawanna
County: Erie
Site Acreage: 13.970

Reporting Period: October 16, 2018 to February 16, 2020

In May 2019, Tecumseh Redevelopment sold Site III-9 to Lackawanna Solar Land, LLC.

	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))?	☐	☑
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.		
5. Is the site currently undergoing development? See Appendix A5	☐	☑

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. C915199I **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
~~141.11-1-1.111~~ 141.15-1-3	~~Tecumseh Redevlopment Inc.~~ Lackawanna Solar Land LLC	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
~~141.11-1-1.111~~ 141.15-1-3	Cover System

Engineering Control Desription:

Beneficial Use Determination (BUD) 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. C915199I

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 — Date: March 13, 2020

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. at Benchmark Environmental Engineering & Science, PLLC 2558 Hamburg Turnpike, Buffalo, NY 14218,

print name — 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 — Stamp (Required for PE)

3-13-20

Date

APPENDIX A5

NYSDEC SITE NOS. C915199B, D, AND I NOTICE OF TRANSFER

BENCHMARK
ENVIRONMENTAL
ENGINEERING &
SCIENCE, PLLC

June 10, 2019

Mr. Maurice F. Moore
Engineering Geologist 2
New York State Department of Environmental Conservation
Division of Environmental Remediation
270 Michigan Ave
Buffalo, New York 14203-2915

Re: Tecumseh Phase III Business Park, Sites III-2, III-4 and III-9
NYSDEC Site Nos. C915199B, D, and I
Notice of Transfer

Dear Mr. Moore:

On behalf of our clients, please find attached copies of filed Quit Claim Deeds for the above-referenced Sites. As indicated, Sites III-2 and III-9 were transferred to Lackawanna Solar Land, LLC and Site III-4 was transferred to 1951 Hamburg Turnpike, LLC on May 7, 2019. These follow 60-day Notices of Transfer of Ownership submitted to the Department in November of 2018.

Please contact us if you have any questions or require additional information.

Sincerely,
Benchmark Environmental Engineering & Science, PLLC

Thomas H. Forbes, P.E.
Principal Engineer

ec: Karen Draves (NYSDEC)
Michael Nisengard (Lippes Mathias)
Paul Curran
Jim Falsetti
Tim Ryan

2558 Hamburg Turnpike, Suite 300 | Buffalo, NY 14218
phone: (716) 856-0599 | fax: (716) 856-0583

Recorded in Erie County
May 8, 2019
LIBER 11344 Page 1538

Record and Return to:
Sandra A. Nasca, Esq.
The Knoer Group, PLLC
424 Main Street, Suite 1820
Buffalo, New York 14202

QUIT CLAIM DEED

THIS INDENTURE is made effective as of the 7th day of May, 2019 between

TECUMSEH REDEVELOPMENT INC., a Delaware corporation, with an address of 4020 Kinross Lakes Parkway, Richfield, Ohio 44286 (the "***Grantor***"), and

1951 HAMBURG TURNPIKE, LLC, a New York limited liability company, with an address of c/o The Knoer Group, PLLC, 424 Main Street, Suite 1820, Buffalo, New York 14202 (the "***Grantee***").

WITNESSETH, that the Grantor, in consideration of One and 00/100 Dollar ($1.00) and other valuable consideration paid by the Grantee, hereby remises, releases and quit-claims unto the Grantee, the successors and assigns of the Grantee forever,

ALL THAT TRACT OR PARCEL OF LAND, situated in the City of Lackawanna, County of Erie and State of New York and as more particularly described on **Schedule A**, attached hereto and made a part hereof (the "***Premises***").

BEING AND HEREBY intending to describe and convey a portion of the property conveyed to the Grantor from Bethlehem Steel Corporation by deed dated May 6, 2003 and recorded on May 22, 2003 in the Erie County Clerk's Office in Liber 11040 of Deeds at Page 8953, such portion of the property, and the Premises conveyed hereunder, being and hereby intending to be New York State Brownfield Cleanup Program Site No. C915199D.

TOGETHER with all right, title and interest, if any, of the Grantor in and to any streets and roads abutting the Premises to the centerlines thereof.

TOGETHER with all right, title and interest, if any, of the Grantor in and to any strips and gores, if any, located between the Premises and those premises owned by adjoining land owners.

BUT EXCLUDING THEREFROM AND RESERVING IN GRANTOR, and Grantor's successors and assigns, any and all subsurface oil, gas, and minerals below the surface of the Premises to the extent such oil, gas, and minerals can be extracted without using, occupying or disturbing the surface and without depriving the surface of subjacent or lateral support (the rights of subjacent and lateral support being expressly included in this conveyance).

THIS CONVEYANCE is made and accepted subject to covenants, easements and restrictions of record.

THIS CONVEYANCE is also made and accepted subject to that certain Declaration and

Reservation of Access Easement made by Grantor and recorded in the Erie County Clerk's Office on December 12, 2018 in Liber 11338 of Deeds at page 4778.

THIS CONVEYANCE is also made and accepted subject to the restriction that no wells for the extraction or use of water from beneath the surface of the Premises or any part thereof shall be installed, built, permitted or utilized on the Premises or any part thereof for any purpose whatsoever; provided, however, that the Grantor, Grantee and/or their respective affiliates, successors and assigns may install, use, operate and maintain monitoring wells and treatment wells, including the extraction and treatment of water therefrom, solely for the purpose of monitoring, treating or remediating such water.

THIS CONVEYANCE is made by Grantor expressly subject to, and Grantee accepts this conveyance expressly subject to, that certain Environmental Easement affecting the Premises as more particularly described in said Environmental Easement as New York State Brownfield Cleanup Program Site No. C915199D, said Environmental Easement held by the New York State Department of Environmental Conservation and recorded in the Erie County Clerk's Office on July 15, 2014 in Liber 11266 of Deeds at pages 5467 (the "***Environmental Easement***"), and Grantor and Grantee hereby covenant and agree that the Premises shall be utilized in accordance with the terms, conditions and requirements of the Environmental Easement.

GRANTEE HEREBY FURTHER COVENANTS that until such time as said Environmental Easement is extinguished in accordance with the requirements of New York State Environmental Conservation Law Article 71, Tile 36, this Indenture and all subsequent instruments of conveyance related to the Premises shall state in at least fifteen-point bold face type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation Law.

GRANTEE HEREBY FURTHER COVENANTS, warrants and represents that it shall keep the Premises in the New York State Brownfield Cleanup Program.

GRANTEE HEREBY FURTHER COVENANTS, acknowledges, affirms, represents and warrants that it shall be bound by all of the terms and conditions of, and shall be responsible to undertake, implement, assume and perform all obligations and responsibilities of, a subsequent property owner under the Environmental Easement and New York State Brownfield Cleanup Program, with such obligations and responsibilities including, without limitation, adherence with the pertinent site management plan and certificate of completion, including amendments thereto, if any (collectively, the "***Environmental Obligations***"). Grantee releases, indemnifies and holds Grantor harmless from and against any liabilities, claims, causes of action, costs (including but not limited to reasonable attorney and consultant fees), and any and fines and penalties arising from or related to Grantee's failure to perform or Grantee's nonperformance of the Environmental Obligations.

GRANTEE HEREBY FURTHER COVENANTS that Grantee is acquiring the Premises in its

current "as is" and "where is" physical condition and state of repair with all faults and without recourse against Grantor; and Grantee does hereby waive, and Grantor does hereby disclaim, all warranties of any type or kind whatsoever with respect to the Premises, including, by way of description but not limitation, those of fitness for a particular purpose, merchantability, tenantability, habitability and use. Without limiting the foregoing, Grantor shall not be liable to Grantee for any damage or loss (including, but not limited to, liabilities, costs and expenses) arising out of or in connection with this conveyance, whether in contract or in tort, or by reason of any local, state or federal laws or regulations (including, without limitation the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S. C. § 9601 et. seq., and all amendments thereto). Grantee further acknowledges and agrees that by acceptance of this Deed, Grantee hereby irrevocably releases and discharges Grantor from any and all claims, liability and obligations with respect to the Premises or condition of the Premises, including, without limitation: (a) any environmental matters pertaining to or affecting the Premises; (b) claims arising under the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended; (c) claims arising under the Resource Conservation and Recovery Act; and (d) claims arising under companion laws and state and federal common law. This release includes claims of which Grantee is presently unaware or which Grantee does not presently suspect to exist which, if known by Grantee, would materially affect Grantee's release of Grantor. Grantee further covenants and agrees not to sue Grantor relating to any condition of the Premises, including but not limited to anything related to the environmental condition of the Premises. In no event shall Grantor be liable for incidental or consequential damages, even if Grantor has been advised of the possibility of such damages.

GRANTEE HEREBY FURTHER COVENANTS that Grantee waives any claim for damages because of defects in or to the Premises or portions thereof, whether known or unknown.

GRANTEE HEREBY FURTHER COVENANTS that Grantee waives the right to recover from Grantor and its directors, officers, employees and agents, any and all damages, losses, liabilities, costs or expenses whatsoever (including reasonable attorneys' fees), and claims therefore, whether direct or indirect, known or unknown, foreseen or unforeseen, which may arise on account of or in any way growing out of or connected with the physical condition of the Premises or any environmental condition affecting the Premises.

GRANTEE HEREBY FURTHER COVENANTS that Grantee hereby assumes liability for, and forever releases Grantor from, all claims arising from the ownership, use, possession or condition of the Premises, regardless of whether: (a) such claim is brought against Grantor or Grantee, (b) such claim arose from circumstances, events or actions before or after the delivery and acceptance of this Deed, (c) such circumstances, events, actions or claims are foreseeable or unforeseeable, known or unknown, contingent or otherwise (collectively, the "***Assumed Liabilities***"). Without limiting the foregoing, the Assumed Liabilities include: (i) all liability to any government or governmental agency relating to the environmental condition of the Premises, (ii) any liability for injury to any person, property or otherwise resulting from any pollution of the air, water or soil, and (ii) any liabilities under any federal, state or local law or regulation, including but not limited to the Comprehensive Environmental Response, Compensation and Liability Act and all amendments thereto.

GRANTEE HEREBY FURTHER COVENANTS that Grantee on behalf of itself and its affiliates, successors in interest, transferees, assigns and/or all future owners of the Premises, as applicable

and consistent with their respective interests in the Premises, shall incorporate the covenants contained in the Deed into any and all other deeds, conveyances or agreements transferring ownership, leasehold, sub-leasehold, license, or other operational interests in the Premises or any portion thereof.

THE TERMS, COVENANTS AND CONDITIONS contained in this deed shall run with the land, and bind all owners, occupiers and users of the Premises and any portion thereof, and their respective successors and assigns.

TO HAVE AND TO HOLD the Premises herein granted unto Grantee, the successors and assigns of Grantee, forever.

THIS CONVEYANCE is not all or substantially all of the assets of the Grantor, and this conveyance is made and executed in accordance with the duly adopted approvals, resolutions and consent of the Grantor.

THIS DEED is subject to the trust provisions of Section 13 of the Lien Law.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK; SIGNATURE PAGE FOLLOWS.]

IN WITNESS WHEREOF, the Grantor and Grantee have executed this Deed as of the day and year first above written.

TECUMSEH REDEVELOPMENT INC.

By: _____
Name: Keith Nagel
Its: Vice President of
Environmental Affairs & Real Estate

STATE OF OHIO)
COUNTY OF SUMMIT) ss.:

On the 27th day of March in the year 2019 before me, the undersigned, a Notary Public in and for said State, personally appeared Keith Nagel, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

NOTARIAL SEAL ★ STATE OF OHIO ★

_____
Notary Public Susan E. Dick
Commission expires: November 6, 2022

1951 HAMBURG TURNPIKE, LLC

By: _____
Name: _____
Title: _____

STATE OF NEW YORK)
COUNTY OF ERIE) ss.:

On the ____ day of _____ in the year 2019 before me, the undersigned, a Notary Public in and for said State, personally appeared _____, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he or she executed the same in his or her capacity, and that by his or her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public

IN WITNESS WHEREOF, the Grantor and Grantee have executed this Deed as of the day and year first above written.

TECUMSEH REDEVELOPMENT INC.

By:_____
Name: Keith Nagel
Its: Vice President of
Environmental Affairs & Real Estate

STATE OF OHIO)
COUNTY OF SUMMIT) ss.:

On the ____ day of _____ in the year 2019 before me, the undersigned, a Notary Public in and for said State, personally appeared Keith Nagel, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public

1951 HAMBURG TURNPIKE, LLC

By:_____
Name: Michael Lesakowski
Title: Member

STATE OF NEW YORK)
COUNTY OF ERIE) ss.:

On the 3rd day of May in the year 2019 before me, the undersigned, a Notary Public in and for said State, personally appeared Michael Lesakowski, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he or she executed the same in his or her capacity, and that by his or her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Louise M. Seymour
Notary Public

LOUISE M. SEYMOUR
Notary Public, State of New York
Reg. No. 01SE6228178
Qualified in Erie County
Commission Expires Sept. 13, 2022

SCHEDULE A

THE PREMISES

Tecumseh Business Park Parcel III-4
New York State Brownfield Cleanup Program Site Nos. C915199D

ALL THAT TRACT OR PARCEL OF LAND situate in the City of Lackawanna, County of Erie and State of New York, being part of Lot Number 17 of the Ogden Gore Tract, and Lot Number 23, Township 10, Range 8 of the Buffalo Creek Reservation, being BCP Site Number C915199D, as shown on a map of "Business Park Phase III", prepared by Wendel, June 2012, Project Number 411107, being more particularly bounded and described as follows:

COMMENCING at the intersection of the westerly highway boundary of the Hamburg Turnpike (also known as State Route No. 5) as appropriated by New York State Department of Public Works, Map No. 1, Parcel 1 and recorded in the Erie County Clerk's Office in Liber 5650 of Deeds at page 404 and the municipal boundary line between the City of Lackawanna (to the north) and the Town of Hamburg (to the south), said point also being on the northerly boundary of lands conveyed to the South Buffalo Railway Company by deed recorded in the Erie County Clerk's Office in Liber 10119 of Deeds at page 131;

thence along the northerly line of said South Buffalo Railway Company, N 86°-32'-54" W, a distance of 507.02 feet to an angle point in said line;

thence continuing along the northerly line of said South Buffalo Railway Company, N 56°-55'-40" W, a distance of 386.48 feet to the southeast corner of said Business Park Phase III, Parcel "A"; thence along the east line of said Business Park Phase III, Parcel "A", N 03°-25'-27" W, a distance of 1,284.41 feet to a point of curvature;

thence along a curve to the left having a radius of 518 feet, an arc length of 168.84 feet, a chord bearing N 12°-45'-43" W, at a distance of 168.10 feet, to a point of tangency;

thence along the northerly line of said Business Park Phase III the following 3 courses and distances:

(1) thence S 80°-39'-39" W, a distance of 228.31 feet to a point;

(2) thence N 64°-08'-06" W, a distance of 154.89 feet to a point; and

(3) thence N 41°-49'-05" W, a distance of 258 feet to the principal point of beginning, also being a northeast corner of BCP Site Number C915199C;

thence along the northerly lines of said BCP Site Numbers C915199C and C915199B, S 71°-17'-28" W, a distance of 1,191.45 feet to the northwest corner of BCP Site Number C915199B also being the westerly line of said Business Park Phase III, Parcel "A";

thence along the west and north line of said Business Park Phase III, Parcel "A", the following 8 courses and distances:

(1) thence along a curve to the right having a radius of 512.16 feet, an arc length of 400.49 feet, a chord bearing N 02°-14'-11" E, at a distance of 390.36 feet, to a point of tangency;
(2) N 25°-18'-46" E, a distance of 288.35 feet to a point of curvature;

(3) thence along a curve to the left having a radius of 706.88 feet, an arc length of 515.80 feet, a chord bearing N 08°-08'-26" E, at a distance of 504.43 feet, to a point of tangency;

(4) N 18°-37'-00" W, a distance of 107.01 feet to a point, said point also being the northwest corner of said Business Park Phase III, Parcel "A";

(5) N 82°-08'-06" E, a distance of 87.56 feet to a point;

(6) S 46°-24'-39" E, a distance of 578.56 feet to a point;

(7) S 44°-24'-55" E, a distance of 252.36 feet to a point; and

(8) S 41°-49'-05" E, a distance of 405.40 feet to the principal point of beginning.

Together with a temporary non-exclusive license to use certain access roads in accordance with and pursuant to Access License Agreement by and between Tecumseh Redevelopment Inc. and Buffalo and Erie County Industrial Land Development Corporation dated July 24, 2017 and recorded July 25, 2017 in the Erie County Clerk's Office on Liber 11316 of Deeds at page 2250.

Also together with a non-exclusive easement for ingress and egress over certain access roads in accordance with and pursuant to Declaration made by Tecumseh Redevelopment Inc. dated December 11, 2018 and recorded December 12, 2018 in Liber 11338 of Deeds at page 4778.

Containing 16.19 acres of land, more or less.

Recorded in Erie County
May 8, 2019
LIBER 11344 Page 1524

Record and Return to:
Sandra A. Nasca, Esq.
The Knoer Group, PLLC
424 Main Street, Suite 1820
Buffalo, New York 14202

QUIT CLAIM DEED

THIS INDENTURE is made effective as of the 7th day of May, 2019 between

TECUMSEH REDEVELOPMENT INC., a Delaware corporation, with an address of 4020 Kinross Lakes Parkway, Richfield, Ohio 44286 (the "***Grantor***"), and

LACKAWANNA SOLAR LAND LLC, a New York limited liability company, with an address of 400 Market Industrial Park, Suite 32, Wappingers Falls, New York 12590 (the "***Grantee***").

WITNESSETH, that the Grantor, in consideration of One and 00/100 Dollar ($1.00) and other valuable consideration paid by the Grantee, hereby remises, releases and quit-claims unto the Grantee, the successors and assigns of the Grantee forever,

ALL THAT TRACT OR PARCEL OF LAND, situated in the City of Lackawanna, County of Erie and State of New York and as more particularly described on **Schedule A**, attached hereto and made a part hereof (the "***Premises***").

BEING AND HEREBY intending to describe and convey a portion of the property conveyed to the Grantor from Bethlehem Steel Corporation by deed dated May 6, 2003 and recorded on May 22, 2003 in the Erie County Clerk's Office in Liber 11040 of Deeds at Page 8953, such portion of the property, and the Premises conveyed hereunder, being and hereby intending to be New York State Brownfield Cleanup Program Site No. C915199B.

TOGETHER with all right, title and interest, if any, of the Grantor in and to any streets and roads abutting the Premises to the centerlines thereof.

TOGETHER with all right, title and interest, if any, of the Grantor in and to any strips and gores, if any, located between the Premises and those premises owned by adjoining land owners.

BUT EXCLUDING THEREFROM AND RESERVING IN GRANTOR, and Grantor's successors and assigns, any and all subsurface oil, gas, and minerals below the surface of the Premises to the extent such oil, gas, and minerals can be extracted without using, occupying or disturbing the surface and without depriving the surface of subjacent or lateral support (the rights of subjacent and lateral support being expressly included in this conveyance).

THIS CONVEYANCE is made and accepted subject to covenants, easements and restrictions of record.

THIS CONVEYANCE is also made and accepted subject to that certain Declaration and Reservation of Access Easement made by Grantor and recorded in the Erie County Clerk's Office on December 12, 2018 in Liber 11338 of Deeds at page 4778.

THIS CONVEYANCE is also made and accepted subject to the restriction that no wells for the extraction or use of water from beneath the surface of the Premises or any part thereof shall be installed, built, permitted or utilized on the Premises or any part thereof for any purpose whatsoever; provided, however, that the Grantor, Grantee and/or their respective affiliates, successors and assigns may install, use, operate and maintain monitoring wells and treatment wells, including the extraction and treatment of water therefrom, solely for the purpose of monitoring, treating or remediating such water.

THIS CONVEYANCE is made by Grantor expressly subject to, and Grantee accepts this conveyance expressly subject to, that certain Environmental Easement affecting the Premises as more particularly described in said Environmental Easement as New York State Brownfield Cleanup Program Site No. C915199B, said Environmental Easement held by the New York State Department of Environmental Conservation and recorded in the Erie County Clerk's Office on July 15, 2014 in Liber 11266 of Deeds at pages 5467 (the "***Environmental Easement***"), and Grantor and Grantee hereby covenant and agree that the Premises shall be utilized in accordance with the terms, conditions and requirements of the Environmental Easement.

GRANTEE HEREBY FURTHER COVENANTS that until such time as said Environmental Easement is extinguished in accordance with the requirements of New York State Environmental Conservation Law Article 71, Tile 36, this Indenture and all subsequent instruments of conveyance related to the Premises shall state in at least fifteen-point bold face type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation Law.

GRANTEE HEREBY FURTHER COVENANTS, warrants and represents that it shall keep the Premises in the New York State Brownfield Cleanup Program.

GRANTEE HEREBY FURTHER COVENANTS, acknowledges, affirms, represents and warrants that it shall be bound by all of the terms and conditions of, and shall be responsible to undertake, implement, assume and perform all obligations and responsibilities of, a subsequent property owner under the Environmental Easement and New York State Brownfield Cleanup Program, with such obligations and responsibilities including, without limitation, adherence with the pertinent site management plan and certificate of completion, including amendments thereto, if any (collectively, the "***Environmental Obligations***"). Grantee releases, indemnifies and holds Grantor harmless from and against any liabilities, claims, causes of action, costs (including but not limited to reasonable attorney and consultant fees), and any and fines and penalties arising from or related to Grantee's failure to perform or Grantee's nonperformance of the Environmental Obligations.

GRANTEE HEREBY FURTHER COVENANTS that Grantee is acquiring the Premises in its current "as is" and "where is" physical condition and state of repair with all faults and without recourse against Grantor; and Grantee does hereby waive, and Grantor does hereby disclaim, all warranties of any type or kind whatsoever with respect to the Premises, including, by way of

description but not limitation, those of fitness for a particular purpose, merchantability, tenantability, habitability and use. Without limiting the foregoing, Grantor shall not be liable to Grantee for any damage or loss (including, but not limited to, liabilities, costs and expenses) arising out of or in connection with this conveyance, whether in contract or in tort, or by reason of any local, state or federal laws or regulations (including, without limitation the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S. C. § 9601 et. seq., and all amendments thereto). Grantee further acknowledges and agrees that by acceptance of this Deed, Grantee hereby irrevocably releases and discharges Grantor from any and all claims, liability and obligations with respect to the Premises or condition of the Premises, including, without limitation: (a) any environmental matters pertaining to or affecting the Premises; (b) claims arising under the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended; (c) claims arising under the Resource Conservation and Recovery Act; and (d) claims arising under companion laws and state and federal common law. This release includes claims of which Grantee is presently unaware or which Grantee does not presently suspect to exist which, if known by Grantee, would materially affect Grantee's release of Grantor. Grantee further covenants and agrees not to sue Grantor relating to any condition of the Premises, including but not limited to anything related to the environmental condition of the Premises. In no event shall Grantor be liable for incidental or consequential damages, even if Grantor has been advised of the possibility of such damages.

GRANTEE HEREBY FURTHER COVENANTS that Grantee waives any claim for damages because of defects in or to the Premises or portions thereof, whether known or unknown.

GRANTEE HEREBY FURTHER COVENANTS that Grantee waives the right to recover from Grantor and its directors, officers, employees and agents, any and all damages, losses, liabilities, costs or expenses whatsoever (including reasonable attorneys' fees), and claims therefore, whether direct or indirect, known or unknown, foreseen or unforeseen, which may arise on account of or in any way growing out of or connected with the physical condition of the Premises or any environmental condition affecting the Premises.

GRANTEE HEREBY FURTHER COVENANTS that Grantee hereby assumes liability for, and forever releases Grantor from, all claims arising from the ownership, use, possession or condition of the Premises, regardless of whether: (a) such claim is brought against Grantor or Grantee, (b) such claim arose from circumstances, events or actions before or after the delivery and acceptance of this Deed, (c) such circumstances, events, actions or claims are foreseeable or unforeseeable, known or unknown, contingent or otherwise (collectively, the "***Assumed Liabilities***"). Without limiting the foregoing, the Assumed Liabilities include: (i) all liability to any government or governmental agency relating to the environmental condition of the Premises, (ii) any liability for injury to any person, property or otherwise resulting from any pollution of the air, water or soil, and (ii) any liabilities under any federal, state or local law or regulation, including but not limited to the Comprehensive Environmental Response, Compensation and Liability Act and all amendments thereto.

GRANTEE HEREBY FURTHER COVENANTS that Grantee on behalf of itself and its affiliates, successors in interest, transferees, assigns and/or all future owners of the Premises, as applicable and consistent with their respective interests in the Premises, shall incorporate the covenants contained in the Deed into any and all other deeds, conveyances or agreements transferring ownership, leasehold, sub-leasehold, license, or other operational interests in the Premises or any

portion thereof.

THE TERMS, COVENANTS AND CONDITIONS contained in this deed shall run with the land, and bind all owners, occupiers and users of the Premises and any portion thereof, and their respective successors and assigns.

TO HAVE AND TO HOLD the Premises herein granted unto Grantee, the successors and assigns of Grantee, forever.

THIS CONVEYANCE is not all or substantially all of the assets of the Grantor, and this conveyance is made and executed in accordance with the duly adopted approvals, resolutions and consent of the Grantor.

THIS DEED is subject to the trust provisions of Section 13 of the Lien Law.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK; SIGNATURE PAGE FOLLOWS.]

IN WITNESS WHEREOF, the Grantor and Grantee have executed this Deed as of the day and year first above written.

TECUMSEH REDEVELOPMENT INC.

By: _____
Name: Keith Nagel
Its: Vice President of
Environmental Affairs & Real Estate

STATE OF OHIO)
COUNTY OF SUMMIT) ss.:

On the 27th day of March in the year 2019 before me, the undersigned, a Notary Public in and for said State, personally appeared Keith Nagel, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

NOTARIAL SEAL
STATE OF OHIO

_____
Notary Public Susan E. Dick
Commission expires November 6, 2023

(Signature Page to Deed)

IN WITNESS WHEREOF, the Grantor and Grantee have executed this Deed as of the day and year first above written.

TECUMSEH REDEVELOPMENT INC.

By:_____
Name: Keith Nagel
Its: Vice President of
Environmental Affairs & Real Estate

STATE OF OHIO)
COUNTY OF SUMMIT) ss.:

On the ____ day of _____ in the year 2019 before me, the undersigned, a Notary Public in and for said State, personally appeared Keith Nagel, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public

LACKAWANNA SOLAR LAND LLC

By: _____
Name: PAUL CURRAN
Title: MANAGING DIRECTOR

STATE OF NEW YORK)
COUNTY OF ERIE) ss.:

On the 27th day of March in the year 2019 before me, the undersigned, a Notary Public in and for said State, personally appeared Paul Curran, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he or she executed the same in his or her capacity, and that by his or her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Alicia Scott
Notary Public

ALICIA SCOTT
Notary Public, State of New York
No. 01SC6383001
Qualified in Ulster County
Commission Expires Nov. 05, 2022

(Signature Page to Deed)

SCHEDULE A

THE PREMISES

Tecumseh Business Park Parcel III-2
New York State Brownfield Cleanup Program Site Nos. C915199B

ALL THAT TRACT OR PARCEL OF LAND situate in the City of Lackawanna, County of Erie and State of New York, being parts of Lots Numbers 16 and 17 of the Ogden Gore Tract, and Lot Number 23, Township 10, Range 8 of the Buffalo Creek Reservation, being BCP Site Number C915199B, as shown on a map of Business Park Phase III, prepared by Wendel, June 2012, Project Number 411107, being more particularly bounded and described as follows:

COMMENCING at the intersection of the westerly highway boundary of the Hamburg Turnpike (also known as State Route No. 5) as appropriated by New York State Department of Public Works, Map 1, Parcel 1 and as recorded in the Erie County Clerk's Office in Liber 5650 of Deeds at page 404, and the municipal boundary line between the City of Lackawanna (to the north) and the Town of Hamburg (to the south), said point also being on the northerly boundary of lands conveyed to the South Buffalo Railway Company by deed recorded in the Erie County Clerk's Office in Liber 10119 of Deeds at page 131;

thence along the northerly line of said South Buffalo Railway Company, N 86°-32'-54" W, a distance of 507.02 feet to an angle point in said line;

thence continuing along the northerly line of said South Buffalo Railway Company, N 56°-55'-40" W, a distance of 1,562.32 feet to the principal point of beginning;

thence continuing along the northerly line of said South Buffalo Railway Company, N 56°-55'-40" W, a distance of 658.99 feet to a point;

thence continuing along the northerly line of said South Buffalo Railway Company, S 65°-43'-40" W, a distance of 100.14 feet to the southwest corner of Business Park Phase III, Parcel "A";

thence along the west line of Business Park Phase III, Parcel "A", N 24°-58'-39" W, a distance of 310.20 feet to a point of curvature;

thence along a curve to the right having a radius of 679.12 feet, an arc length of 49.05 feet, a chord bearing of N 22°-54'-31" W, at a distance of 49.03 feet, to the southwest corner of Business Park Phase III, Parcel "A", BCP Site Number C915199D;

thence along the south line of said BCP Site Number C915199D, N 71°-17'-28" E, a distance of 250.81 feet to the northwesterly corner of BCP Site Number C915199C;

thence along the westerly line of BCP Site Number C915199C, S 18°-42'-32" E, a distance of 245.68 feet to the southwest corner of BCP Site Number C915199C; thence along the southerly line of BCP Site Number C915199C, N 71°-17'-28" E, a distance of 673.28 feet to a point;

thence along the easterly line of BCP Site Number C915199C, N 18°-42'-32" W, a distance of

215.72 feet to a point;

thence along the southerly line of BCP Site Number C915199C, N 71°-17'-28" E, a distance of 95.91 feet to a point of curvature;
thence along a curve to the right having a radius of 90 feet, an arc length of 141.37 feet, a chord bearing of S 63°-42'-32" E, at a distance of 127.28 feet, to a point of tangency;

thence S 18°-42'-32" E, a distance of 179.35 feet to the northwest corner of BCP Site Number C915199;

thence along the west line of BCP Site Number C915199, S 26°-14'-11" W, a distance of 800 feet to the principal point of beginning.

Together with a temporary non-exclusive license to use certain access roads in accordance with and pursuant to Access License Agreement by and between Tecumseh Redevelopment Inc. and Buffalo and Erie County Industrial Land Development Corporation dated July 24, 2017 and recorded July 25, 2017 in the Erie County Clerk's Office on Liber 11316 of Deeds at page 2250.

Also together with a non-exclusive easement for ingress and egress over certain access roads in accordance with and pursuant to Declaration made by Tecumseh Redevelopment Inc. dated December 11, 2018 and recorded December 12, 2018 in Liber 11338 of Deeds at page 4778.

Containing 10.24 acres of land, more or less.

Recorded in Erie County
May 8, 2019
LIBER 11344 Page 1556

Record and Return to:
Sandra A. Nasca, Esq.
The Knoer Group, PLLC
424 Main Street, Suite 1820
Buffalo, New York 14202

QUIT CLAIM DEED

THIS INDENTURE is made effective as of the 6th day of May, 2019 between

TECUMSEH REDEVELOPMENT INC., a Delaware corporation, with an address of 4020 Kinross Lakes Parkway, Richfield, Ohio 44286 (the "***Grantor***"), and

LACKAWANNA SOLAR LAND LLC, a New York limited liability company, with an address of 400 Market Industrial Park, Suite 32, Wappingers Falls, New York 12590 (the "***Grantee***").

WITNESSETH, that the Grantor, in consideration of One and 00/100 Dollar ($1.00) and other valuable consideration paid by the Grantee, hereby remises, releases and quit-claims unto the Grantee, the successors and assigns of the Grantee forever,

ALL THAT TRACT OR PARCEL OF LAND, situated in the City of Lackawanna, County of Erie and State of New York and as more particularly described on **Schedule A**, attached hereto and made a part hereof (the "***Premises***").

BEING AND HEREBY intending to describe and convey a portion of the property conveyed to the Grantor from Bethlehem Steel Corporation by deed dated May 6, 2003 and recorded on May 22, 2003 in the Erie County Clerk's Office in Liber 11040 of Deeds at Page 8953, such portion of the property, and the Premises conveyed hereunder, being and hereby intending to be New York State Brownfield Cleanup Program Site No. C915199I.

TOGETHER with all right, title and interest, if any, of the Grantor in and to any streets and roads abutting the Premises to the centerlines thereof.

TOGETHER with all right, title and interest, if any, of the Grantor in and to any strips and gores, if any, located between the Premises and those premises owned by adjoining land owners.

BUT EXCLUDING THEREFROM AND RESERVING IN GRANTOR, and Grantor's successors and assigns, any and all subsurface oil, gas, and minerals below the surface of the Premises to the extent such oil, gas, and minerals can be extracted without using, occupying or disturbing the surface and without depriving the surface of subjacent or lateral support (the rights of subjacent and lateral support being expressly included in this conveyance).

THIS CONVEYANCE is made and accepted subject to covenants, easements and restrictions of record.

THIS CONVEYANCE is also made and accepted subject to that certain Declaration and Reservation of Access Easement made by Grantor and recorded in the Erie County Clerk's Office on December 12, 2018 in Liber 11338 of Deeds at page 4778 and that certain Declaration and

Reservation of Sewer Easement recorded with the Erie County Clerk's Office simultaneously herewith.

THIS CONVEYANCE is also made and accepted subject to the restriction that no wells for the extraction or use of water from beneath the surface of the Premises or any part thereof shall be installed, built, permitted or utilized on the Premises or any part thereof for any purpose whatsoever; provided, however, that the Grantor, Grantee and/or their respective affiliates, successors and assigns may install, use, operate and maintain monitoring wells and treatment wells, including the extraction and treatment of water therefrom, solely for the purpose of monitoring, treating or remediating such water.

THIS CONVEYANCE is made by Grantor expressly subject to, and Grantee accepts this conveyance expressly subject to, that certain Environmental Easement affecting the Premises as more particularly described in said Environmental Easement as New York State Brownfield Cleanup Program Site No. C915199I, said Environmental Easement held by the New York State Department of Environmental Conservation and recorded in the Erie County Clerk's Office on July 15, 2014 in Liber 11266 of Deeds at pages 5467 (the "***Environmental Easement***"), and Grantor and Grantee hereby covenant and agree that the Premises shall be utilized in accordance with the terms, conditions and requirements of the Environmental Easement.

GRANTEE HEREBY FURTHER COVENANTS that until such time as said Environmental Easement is extinguished in accordance with the requirements of New York State Environmental Conservation Law Article 71, Tile 36, this Indenture and all subsequent instruments of conveyance related to the Premises shall state in at least fifteen-point bold face type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation Law.

GRANTEE HEREBY FURTHER COVENANTS, warrants and represents that it shall keep the Premises in the New York State Brownfield Cleanup Program.

GRANTEE HEREBY FURTHER COVENANTS, acknowledges, affirms, represents and warrants that it shall be bound by all of the terms and conditions of, and shall be responsible to undertake, implement, assume and perform all obligations and responsibilities of, a subsequent property owner under the Environmental Easement and New York State Brownfield Cleanup Program, with such obligations and responsibilities including, without limitation, adherence with the pertinent site management plan and certificate of completion, including amendments thereto, if any (collectively, the "***Environmental Obligations***"). Grantee releases, indemnifies and holds Grantor harmless from and against any liabilities, claims, causes of action, costs (including but not limited to reasonable attorney and consultant fees), and any and fines and penalties arising from or related to Grantee's failure to perform or Grantee's nonperformance of the Environmental Obligations.

GRANTEE HEREBY FURTHER COVENANTS that Grantee is acquiring the Premises in its

current "as is" and "where is" physical condition and state of repair with all faults and without recourse against Grantor; and Grantee does hereby waive, and Grantor does hereby disclaim, all warranties of any type or kind whatsoever with respect to the Premises, including, by way of description but not limitation, those of fitness for a particular purpose, merchantability, tenantability, habitability and use. Without limiting the foregoing, Grantor shall not be liable to Grantee for any damage or loss (including, but not limited to, liabilities, costs and expenses) arising out of or in connection with this conveyance, whether in contract or in tort, or by reason of any local, state or federal laws or regulations (including, without limitation the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S. C. § 9601 et. seq., and all amendments thereto). Grantee further acknowledges and agrees that by acceptance of this Deed, Grantee hereby irrevocably releases and discharges Grantor from any and all claims, liability and obligations with respect to the Premises or condition of the Premises, including, without limitation: (a) any environmental matters pertaining to or affecting the Premises; (b) claims arising under the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended; (c) claims arising under the Resource Conservation and Recovery Act; and (d) claims arising under companion laws and state and federal common law. This release includes claims of which Grantee is presently unaware or which Grantee does not presently suspect to exist which, if known by Grantee, would materially affect Grantee's release of Grantor. Grantee further covenants and agrees not to sue Grantor relating to any condition of the Premises, including but not limited to anything related to the environmental condition of the Premises. In no event shall Grantor be liable for incidental or consequential damages, even if Grantor has been advised of the possibility of such damages.

GRANTEE HEREBY FURTHER COVENANTS that Grantee waives any claim for damages because of defects in or to the Premises or portions thereof, whether known or unknown.

GRANTEE HEREBY FURTHER COVENANTS that Grantee waives the right to recover from Grantor and its directors, officers, employees and agents, any and all damages, losses, liabilities, costs or expenses whatsoever (including reasonable attorneys' fees), and claims therefore, whether direct or indirect, known or unknown, foreseen or unforeseen, which may arise on account of or in any way growing out of or connected with the physical condition of the Premises or any environmental condition affecting the Premises.

GRANTEE HEREBY FURTHER COVENANTS that Grantee hereby assumes liability for, and forever releases Grantor from, all claims arising from the ownership, use, possession or condition of the Premises, regardless of whether: (a) such claim is brought against Grantor or Grantee, (b) such claim arose from circumstances, events or actions before or after the delivery and acceptance of this Deed, (c) such circumstances, events, actions or claims are foreseeable or unforeseeable, known or unknown, contingent or otherwise (collectively, the "***Assumed Liabilities***"). Without limiting the foregoing, the Assumed Liabilities include: (i) all liability to any government or governmental agency relating to the environmental condition of the Premises, (ii) any liability for injury to any person, property or otherwise resulting from any pollution of the air, water or soil, and (ii) any liabilities under any federal, state or local law or regulation, including but not limited to the Comprehensive Environmental Response, Compensation and Liability Act and all amendments thereto.

GRANTEE HEREBY FURTHER COVENANTS that Grantee on behalf of itself and its affiliates, successors in interest, transferees, assigns and/or all future owners of the Premises, as applicable

and consistent with their respective interests in the Premises, shall incorporate the covenants contained in the Deed into any and all other deeds, conveyances or agreements transferring ownership, leasehold, sub-leasehold, license, or other operational interests in the Premises or any portion thereof.

THE TERMS, COVENANTS AND CONDITIONS contained in this deed shall run with the land, and bind all owners, occupiers and users of the Premises and any portion thereof, and their respective successors and assigns.

TO HAVE AND TO HOLD the Premises herein granted unto Grantee, the successors and assigns of Grantee, forever.

THIS CONVEYANCE is not all or substantially all of the assets of the Grantor, and this conveyance is made and executed in accordance with the duly adopted approvals, resolutions and consent of the Grantor.

THIS DEED is subject to the trust provisions of Section 13 of the Lien Law.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK; SIGNATURE PAGE FOLLOWS.]

IN WITNESS WHEREOF, the Grantor and Grantee have executed this Deed as of the day and year first above written.

TECUMSEH REDEVELOPMENT INC.

By: _____
Name: Keith Nagel
Its: Vice President of
Environmental Affairs & Real Estate

STATE OF OHIO)
COUNTY OF SUMMIT) ss.:

On the 27th day of March in the year 2019 before me, the undersigned, a Notary Public in and for said State, personally appeared Keith Nagel, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

NOTARIAL SEAL ★ STATE OF OHIO ★

_____
Notary Public Susan E. Dick
Commission expires: November 6, 2022

LACKAWANNA SOLAR LAND LLC

By: _____
Name: _____
Title: _____

STATE OF NEW YORK)
COUNTY OF ERIE) ss.:

On the ____ day of _____ in the year 2019 before me, the undersigned, a Notary Public in and for said State, personally appeared _____, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he or she executed the same in his or her capacity, and that by his or her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public

IN WITNESS WHEREOF, the Grantor and Grantee have executed this Deed as of the day and year first above written.

TECUMSEH REDEVELOPMENT INC.

By:_____
Name: Keith Nagel
Its: Vice President of
Environmental Affairs & Real Estate

STATE OF OHIO)
COUNTY OF SUMMIT) ss.:

On the ____ day of _____ in the year 2019 before me, the undersigned, a Notary Public in and for said State, personally appeared Keith Nagel, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public

LACKAWANNA SOLAR LAND LLC

By: Paul Curran
Name: Paul Curran
Title: Managing Director

STATE OF NEW YORK)
COUNTY OF ERIE) ss.:

On the 27th day of March in the year 2019 before me, the undersigned, a Notary Public in and for said State, personally appeared Paul Curran, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he or she executed the same in his or her capacity, and that by his or her signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

Alicia Scott
Notary Public

ALICIA SCOTT
Notary Public, State of New York
No. 01SC6383001
Qualified in Ulster County
Commission Expires Nov. 05, 2022

(Signature Page to Deed)

SCHEDULE A

THE PREMISES

Tecumseh Business Park Parcel III-9
New York State Brownfield Cleanup Program Site Nos. C915199I

ALL THAT TRACT OR PARCEL OF LAND situate in the City of Lackawanna, County of Erie and State of New York, being parts of Lots Numbers 18, 19 and 20 of the Ogden Gore Tract, being BCP Site Number C915199I, as shown on a map of "Business Park Phase III", prepared by Wendel, June 2012, Project Number 411107, being more particularly bounded and described as follows:

COMMENCING at the intersection of the westerly highway boundary of the Hamburg Turnpike (also known as State Route No. 5) as appropriated by New York State Department of Public Works, Map 1, Parcel 1 and as recorded in the Erie County Clerk's Office in Liber 5650 of Deeds at page 404, and the municipal boundary line between the City of Lackawanna (to the north) and the Town of Hamburg (to the south), said point also being a point on the northerly boundary of lands conveyed to the South Buffalo Railway Company by deed recorded in the Erie County Clerk's Office in Liber 10119 of Deeds at page 131;

thence N 22°-36'-14"W, a distance of 2,158.13 feet to a point, said point being the southeast corner of Business Park Phase III Parcel "B":

thence N 18°-20'-36"W, along the easterly line of Business Park Phase III, Parcel "B", a distance of 2,549.24 feet to the principal point of beginning, said principal point of beginning also being a northeasterly corner of BCP Site Number C915199G;
running thence along the north line of BCP Site Number C915199G, S 71°-41'-32" W, a distance of 180.00 feet to a point;

thence N 48°-01'-09" W a distance of 180.00 feet to the southeasterly corner of BCP Site Number C915199H;

thence along the east line of BCP Site Number C915199H, N 18°-20'-36" W, a distance of 250.00 feet to the northeasterly corner of BCP Site Number C915199H;

thence along the north line of BCP Site Number C915199H, S 71°-41'-32" W, a distance of 1,024.00 feet to the northwest corner of said BCP Site Number C915199H, said point also being on an east line of BCP Site Number C915199J;

thence along said east line of BCP Site Number C915199J, the following 6 courses:

(1) N 08°-35'-16" E, a distance of 55.15 feet to point;

(2) N 03°-06'-09" E, a distance of 80.16 feet to point;

(3) N 02°-18'-54" E, a distance of 54.59 feet to point;

(4) N 06°-52'-20" E, a distance of 50.18 feet to point;

(5) N 10°-26'-06" E, a distance of 115.41 feet to point; and

(6) N 12°-29'-54" E, a distance of 90.89 feet to south line of BCP Site Number C915199J;

thence along said southerly line of BCP Site Number C915199J, N 71°-01'-10" E, a distance of 1,119.97 feet to the east line of Business Park Phase III, Parcel "B";

thence along the easterly line of Business Park Phase III, Parcel "B", S 18°-20'-36" E a distance of 826.96 feet to the principal point of beginning.

Together with a temporary non-exclusive license to use certain access roads in accordance with and pursuant to Access License Agreement by and between Tecumseh Redevelopment Inc. and Buffalo and Erie County Industrial Land Development Corporation dated July 24, 2017 and recorded July 25, 2017 in the Erie County Clerk's Office on Liber 11316 of Deeds at page 2250.

Also together with a non-exclusive easement for ingress and egress over certain access roads in accordance with and pursuant to Declaration made by Tecumseh Redevelopment Inc. dated December 11, 2018 and recorded December 12, 2018 in Liber 11338 of Deeds at page 4778.

Containing 13.97 acres of land, more or less.

APPENDIX B

SITE PHOTO LOG

SITE PHOTOGRAPHS

Photo 1:

Photo 2:

Photo 3:

Photo 4:

Field Activities

Photo 1: Import for Grounding Grids – Site III-2 and III-3

Photo 2: Import for Grounding Grids – Site III-2 and III-3 (looking south)

Site Inspection - February 24, 2020

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

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

SITE PHOTOGRAPHS

Photo 5:

Photo 6:

Photo 7:

Photo 8:

Photo 5: Site III-4 – Vegetative cover looking east

Photo 6: Site III-2 – Slag cover looking southeast

Photo 7: Roadway between Sites III-2/III-3 & Site III-4 – looking east

Photo 8: Drainage swale along Site III-4 southern boundary – looking east

SITE PHOTOGRAPHS

Photo 9:

Photo 10:

Photo 11:

Photo 12:

Photo 9: Site III-4 – Vegetative cover on north side of Electrical Stores Building – looking west

Photo 10: Site III-4 – Inverter pads and solar panels – looking north/northwest

Photo 11: Site III-2/III-3 – Slag cover and solar panels – looking southeast

Photo 12: Drainage swale along Site III-4 southern boundary – looking west

SITE PHOTOGRAPHS

Photo 13:

Photo 14:

Photo 15:

Photo 16:

Photo 13: Site III-3 – Vegetation along S-curve looking southeast

Photo 14: Site III-2 – looking west

Photo 15: Site III-9 – Slag cover and solar panels – looking southwest

Photo 16: Site III-9 – Slag cover and solar panels – looking southwest

SITE PHOTOGRAPHS

Photo 17:

Photo 18:

Photo 17: Site III-9 – Slag cover and inverter pads in the background – looking west

Photo 18: Site III-9 – Slag cover and solar panels – looking west

APPENDIX C

IMPORT DOCUMENTATION

NEW ENTERPRISE STONE & LIME CO., INC.

500 Como Park Boulevard • Buffalo NY 14227

Office: (716) 826-7310
Fax: (716) 826-1342
Dispatch: (716) 566-9690

April 15, 2019

Arnie Collier
Iroquois Bar
155 Commerce Dr.
Lackawanna, NY 14218

Re: Steel Sun, Lackawanna

Dear Arnie:

We certify the aggregates we supply on the subject project meet the New York State Department of Transportation Specification and Gradations as follows:

Item #304.12 // -2" Crusher Run Type 2 Subbase	
Sieve Size	Percent Passing
2"	100
1/4"	25-60
No. 40	5-40
No. 200	0-10

Item #703.0201 // #2 Crushed Stone	
Sieve Size	Percent Passing
1 1/2"	100
1"	90-100
1/2"	0-15

We certify the Bituminous Concrete will be produced to meet the New York State Department of Transportation Specifications and Gradations as required. Our New York State Source Number at our Wehrle Drive location is 5-3R.

We trust this meets with your approval.

Sincerely,

Robert Warrington
Account Representative

BW: SW

From: Moore, Maurice (DEC)
To: Tom H. Forbes
Subject: RE: Steel Sun 2 Import Request
Date: Monday, April 15, 2019 3:25:41 PM
Attachments: image001.png
image002.png

Good afternoon Tom

If the material is indeed the washed stone it is acceptable without sampling.

I assume the last paragraph in the letter is a boilerplate and does not infer that the material coming to the site is recycled material.

Thanks, Maurice

Maurice F. Moore
Professional Geologist 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
270 Michigan Avenue, Buffalo, NY 14203-2915
P: (716) 851-7220 | F: (716) 851-7258 | maurice.moore@dec.ny.gov
www.dec.ny.gov |

From: Tom H. Forbes <TForbes@benchmarkturnkey.com>
Sent: Monday, April 15, 2019 3:17 PM
To: Moore, Maurice (DEC) <maurice.moore@dec.ny.gov>
Subject: Steel Sun 2 Import Request

Maurice,

CIR electrical is looking to import about 10 tons (total) of virgin washed 2" stone from the New Enterprise Wherle Drive Pit for use around the grounding grids on the Steel Sun 2 Sites. There was some debate as to whether it would be a run of crush or a washed number 2 stone, which is why they provided the gradation for both, but the washed stone is what CIR has confirmed and that material would meet the exemption criteria for testing (see the lower spec on the attached; it only goes to 1/4inch because fines are de-minimis). Can we import that to the site? If so I'll include this discussion in the 2020 PRR.

Thanks,
Tom

Thomas H. Forbes, P.E.
Principal Engineer
tforbes@benchmarkturnkey.com

Benchmark Environmental Engineering & Science, PLLC
TurnKey Environmental Restoration, LLC
https://protect2.fireeye.com/url?k=05bcc67e-599af2ca-05be3f4b-000babd9fe9f-fb2271f3d483a044&u=http://www.benchmarkturnkey.com/
2558 Hamburg Turnpike, Suite 300, Buffalo, NY 14218
Phone: (716) 856-0599, *Facsimile*: (716) 856-0583

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Professional Opinions: Views expressed in this message may only be relied upon as professional opinion if and when provided by principals of the Companies to authorized representatives of the organization with which we have an active client-engineer relationship and when directly pertaining to a binding contract scope of work.

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APPENDIX D

GROUNDWATER ANALYTICAL DATA

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

EQUIPMENT CALIBRATION LOG

PROJECT INFORMATION:

Project Name: Steel Sun & Gun

Project No.: 0351-01-5-004

Client: Steel Sun & Gun

Date: 11/5/18

Instrument Source: ☐ BM ☐ Rental

METER TYPE	UNITS	TIME	MAKE/MODEL	SERIAL NUMBER	CAL. BY	STANDARD	POST CAL. READING	SETTINGS
☑ pH meter	units	0827	Myron L Company Ultra Meter 6P	6213516 ☐ 6243084 ☐ 6212375 ☑ 6243003 ☐ 6223973 ☐	CNK	4.00 7.00 10.01	4.00 7.05 ~~9.99~~ 10.00	4 7 10
☑ Turbidity meter	NTU	0833	Hach 2100P or 2100Q Turbidimeter	06120C020523 (P) ☐ 13120C030432 (Q) ☐ 17110C062619 (Q) ☐	CNK	10 NTU verification < 0.4 20 100 800	9.67	✓
☐ Turbidity meter	NTU		LaMotte 2020	6523-1816 (La) ☐		0.0 NTU 1.0 NTU 10.0 NTU		
☑ Sp. Cond. meter	uS mS	0831	Myron L Company Ultra Meter 6P	6213516 ☐ 6243084 ☐ 6212375 ☑ 6243003 ☐ 6223973 ☐	CNK	7000 mS @ 25 °C	6998	
☐ PID	ppm		MinRAE 2000			open air zero ____ ppm Iso. Gas		MIBK response factor = 1.0
☑ Dissolved Oxygen	ppm	0849	HACH Model HQ30d	080700023281 ☑ 100500041867 ☐ 140200100319 ☐	CNK	100% Satuartion	100%	103.6%
☐ Particulate meter	mg/m^3					zero air		
☐ Radiation Meter	uR/H					background area		

ADDITIONAL REMARKS:

PREPARED BY: TH3 **DATE:** 11/5/18

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: Stealson II CWM Date: 11/5/18

Location: Lucknow, MI Project No.: 0351-015-009 Field Team: TAB

Well No. MWS-31A | Diameter (inches): 2" | Sample Date / Time: 11/5/18 1234

Product Depth (fbTOR): | Water Column (ft): 4.28 | DTW when sampled: 10.09

DTW (static) (fbTOR): 10.00 | One Well Volume (gal): 0.69 | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample

Total Depth (fbTOR): 14.28 | Total Volume Purged (gal): 8.5 | Purge Method: Low Flow

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1226	0 Initial	0	10.10	14.8	523.3	71000	1.18	-200	very turbid, no odor
1228	1 10.09	0.5	10.58	14.9	546.8	65.9	1.55	-185	turbid, no odor
1230	2 10.09	2.0	10.169	15.0	548.4	22.9	1.44	-1103	turbid, no odor
1232	3 10.09	2.25	10.167	15.1	552.2	14.3	1.165	-152	clear, no odor
1233	4 10.09	2.5	10.169	14.8	551.4	9.05	1.07	-142	clear, no odor
	5								
	6								
	7								
	8								
	9								
	10								
Sample Information:									
1234	S1 10.09	2.75	10.169	14.8	552.0	8.97	1.24	-137	clear, no odor
1238	S2 10.06	4.00	10.170	15.1	554.0	15.4	1.29	-134	clear, no odor

Well No. MWS-35A | Diameter (inches): 2" | Sample Date / Time: 11/5/18 1325

Product Depth (fbTOR): | Water Column (ft): 14.26 | DTW when sampled: 10.70

DTW (static) (fbTOR): 9.62 | One Well Volume (gal): 1.83 | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample

Total Depth (fbTOR): 20.88 | Total Volume Purged (gal): 5.5 | Purge Method: Low Flow

Time	Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1258	0 Initial	0	6.92	14.3	968.9	291	0.84	-156	turbid, sulfur odor
1301	1 10.56	0.25	10.95	14.1	913.4	162	1.15	-147	turbid, sulfur odor
1302	2 10.53	0.5	7.03	14.8	840.3	139	1.11	-147	turbid, sulfur odor
1303	3 10.60	1.0	7.19	15.0	698.5	54.7	1.12	-158	turbid, sulfur odor
1305	4 10.90	1.5	7.27	14.9	664.8	59.0	1.04	-162	turbid, sulfur odor
1308	5 10.87	2.0	7.44	14.9	606.6	44.6	1.06	-171	turbid, sulfur odor
1310	6 10.87	2.5	7.62	14.9	569.9	36.1	1.12	-182	turbid, sulfur odor
1316	7 10.80	4.0	8.06	15.1	439.2	18.0	0.91	-215	clear, sulfur odor
1321	8 10.95	5.0	8.30	15.1	521.3	17.1	1.06	-221	clear, sulfur odor
[illegible]	8 [illegible]								
	10								
Sample Information:									
1325	S1 10.70	5.5	8.47	15.0	516.4	155	0.93	-228	clear, sulfur odor
1329	S2 10.70	6.0	8.500	15.0	503.8	7.79	0.98	-228	clear, sulfur odor

REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY: TAB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: Steelscape II GWM Date: 11/5/18
Location: Lockport NY Project No.: 0351-015-GW4 Field Team: TWB

Well No. MWS-04 | Diameter (inches): 4" | Sample Date / Time: 11/5/18 1058
Product Depth (fbTOR): | Water Column (ft): 11.22 | DTW when sampled: 10.21
DTW (static) (fbTOR): 9.26 | One Well Volume (gal): 1.82 | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample
Total Depth (fbTOR): 20.48 | Total Volume Purged (gal): ~~5~~ 2.0 | Purge Method: Low Flow

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1051	0	Initial	0	10.85	12.7	1057	1.86	2.02	-112	clear, no odor
1053	1	9.99	0.5	6.90	12.7	1011	1.53	1.74	-103	clear, no odor
1055	2	10.11	1.25	6.93	12.8	985.7	1.49	1.64	-99	clear, no odor
1057	3	10.21	2.0	6.98	12.8	962.3	1.060	1.28	-91	clear, no odor
	4									
	5									
	6									
	7									
	8									
	9									
	10									
Sample Information: Blind Dup Collected										
1058	S1	10.21	2.25	7.00	12.9	932.6	1.98	1.81	-85	clear, no odor
1106	S2	10.21	2.75	7.20	13.1	779.1	1.78	1.10	-73	clear, no odor

Well No. MWS-34A | Diameter (inches): 2" | Sample Date / Time: 11/5/18 1156
Product Depth (fbTOR): | Water Column (ft): 9.97 | DTW when sampled: 11.89
DTW (static) (fbTOR): 11.31 | One Well Volume (gal): 1.62 | Purpose: ☐ Development ☐ Sample ☒ Purge & Sample
Total Depth (fbTOR): 21.28 | Total Volume Purged (gal): 2.75 | Purge Method: Low Flow

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1143	0	Initial	0	6.96	14.4	1092	>1000	1.21	-127	turbid no odor
1145	1	11.81	0.75	6.96	14.7	1037	241	1.40	-127	turbid, no odor
1147	2	11.90	1.25	7.01	15.1	994.1	208	1.64	-120	turbid, no odor
1149	3	11.89	1.5	7.12	15.4	1038	64.9	1.41	-128	turbid, no odor
1151	4	11.91	2.0	7.20	15.5	1057	20.2	1.17	-134	clear, no odor
1153	5	11.89	2.5	7.26	15.5	1070	13.9	1.25	-136	clear, no odor
1154	6	11.89	3.75	7.28	15.4	1073	8.83	1.33	-134	clear, no odor
[redacted]	7									
	8									
	9									
	10									
Sample Information:										
1156	S1	11.89	3.0	7.31	15.5	1076	5.73	1.27	-134	clear, no odor
1200	S2	11.83	4.0	7.33	15.2	1085	2.75	1.37	-134	clear, no odor

REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY: TWB

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: Steel Sun II GWM Date: 11/5/18

Location: Lackawanna NY Project No.: 0351-015-004 Field Team: TAB / CNK

Well No. MWN-56A	Diameter (inches): 2"	Sample Date / Time: 11/5/18 938
Product Depth (fbTOR): –	Water Column (ft): 13.71	DTW when sampled: 8.88
DTW (static) (fbTOR): 8.87	One Well Volume (gal): 2.23	Purpose: ☐ Development ☐ Sample ☒ Purge & Sample
Total Depth (fbTOR): 22.58	Total Volume Purged (gal): 2.5	Purge Method: Low Flow

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (~~µS~~) mS	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
0924	0	Initial	0	7.83	13.9	19.73	138	2.24	-157	turbid, sulfur odor
0928	1	8.88	1	8.77	14.0	19.54	17.1	1.69	-197	clear, sulfur odor
0930	2	8.88	1.5	8.76	14.4	19.52	8.80	1.66	-190	clear, sulfur odor
0933	3	8.85	2.0	8.78	14.0	19.69	6.00	1.62	-203	clear, sulfur odor
	4									
	5									
	6									
	7									
	8									
	9									
	10									
Sample Information: MS/MSD collected										
0938	S1	8.88	2.5	8.94	14.1	19.65	3.68	1.41	-206	clear, sulfur odor
0946	S2	8.88	2.75	8.91	14.2	19.66	2.59	1.47	-205	clear, sulfur odor

Well No. MWN-57A	Diameter (inches): 2"	Sample Date / Time: 11/5/18 1024
Product Depth (fbTOR):	Water Column (ft): 13.09	DTW when sampled: 8.35
DTW (static) (fbTOR): 8.25	One Well Volume (gal): 2.13	Purpose: ☐ Development ☐ Sample ☒ Purge & Sample
Total Depth (fbTOR): 21.34	Total Volume Purged (gal): 4.0	Purge Method: Low Flow

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (~~µS~~) mS	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1002	0	Initial	0	6.82	13.2	10.39	34.8	1.26	-129	clear, no odor
1005	1	8.38	0.75	6.75	13.9	9.666	16.0	1.40	-146	clear, no odor
1006	2	8.39	1.25	6.91	14.4	9.252	5.52	1.20	-165	clear, no odor
1009	3	8.39	1.50	6.97	14.3	9.464	3.20	1.01	-175	clear, no odor
1011	4	8.39	2.0	7.08	14.7	9.484	2.47	1.14	-176	clear, no odor
1015	5	8.35	3.0	7.19	14.1	9.430	1.97	1.02	-171	clear, no odor
1018	6	8.35	3.25	7.16	14.2	9.395	1.97	1.14	-174	clear, no odor
1020	7	8.35	4.00	7.20	14.3	9.276	1.78	1.19	-180	clear, no odor
	8									
	9									
	10									
Sample Information:										
1024	S1	8.35	4.5	7.17	13.9	9.490	15.7	1.09	-179	clear, no odor
1028	S2	8.35	4.75	7.29	13.9	9.702	11.9	1.02	-178	clear, no odor

REMARKS:

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY:

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

ALPHA ANALYTICAL

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8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
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FAX: 508-822-3288

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)

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC

GROUNDWATER FIELD FORM

Project Name: Tecumseh Phase III Business Park Site III-9 Date: 1/29/20
Location: Tecumseh Project No.: Field Team: CCB

Well No. MWN-56A	Diameter (inches): 2"	Sample Date / Time: 1/29/20 1225
Product Depth (fbTOR): —	Water Column (ft): 13.6	DTW when sampled: 8.98
DTW (static) (fbTOR): 8.95	One Well Volume (gal): 2.2	Purpose: ☐ Development ☐ Sample ☒ Purge & Sample
Total Depth (fbTOR): 22.55	Total Volume Purged (gal): 5.0	Purge Method: Low flow

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1206	0	Initial	0	7.20	7.1	6307	11.2	7.04	-36	no odor
1204	1	8.98	0.25	7.28	9.4	13.89	8.90	3.16	-98	" "
1206	2	8.98	1.5	7.86	9.7	15.05	2.87	3.66	-123	" "
1208	3	8.98	0.75	8.26	9.5	15.16	1.02	2.94	-129	" "
1210	4	8.98	1.0	8.44	9.8	15.14	1.39	2.92	-135	" "
1215	5	8.98	1.75	8.72	9.3	15.10	0.93	3.23	-139	" "
1220	6	8.98	2.75	8.84	9.2	1506	2.58	3.10	-149	" "
1222	7	8.98	3.25	8.88	9.9	15.23	1.13	4.06	-148	" "
	8									
	9									
	10									
Sample Information:										
1225	S1	8.98	3.75	8.91	10.0	15.08	1.08	3.50	-149	" "
1230	S2	8.98	5.0	7.94	8.7	15.06	0.71	3.05	-144	" "

Well No. MWN-57A	Diameter (inches): 2"	Sample Date / Time: 1/29/20 1110
Product Depth (fbTOR): —	Water Column (ft): 12.8	DTW when sampled: 8.45
DTW (static) (fbTOR): 8.24	One Well Volume (gal): 2.0	Purpose: ☐ Development ☐ Sample ☒ Purge & Sample
Total Depth (fbTOR): 21.18	Total Volume Purged (gal): 3.00	Purge Method: Low flow

Time		Water Level (fbTOR)	Acc. Volume (gallons)	pH (units)	Temp. (deg. C)	SC (uS)	Turbidity (NTU)	DO (mg/L)	ORP (mV)	Appearance & Odor
1048	0	Initial	0.25	6.03	7.2	6923	94.9	5.93	-41	SL Turbid, mod
1051	1	8.45	0.50	6.31	7.7	6953	92.9	6.07	-52	" " " "
1054	2	8.45	1.00	6.42	8.3	6532	42.0	7.47	-54	" " " "
1056	3	8.45	1.25	6.50	7.6	6558	90.7	6.03	-52	" " " "
1102	4	8.45	1.75	6.66	8.5	6285	31.4	5.41	-54	" " " "
1106	5	8.45	2.00	6.70	9.0	6140	30.0	5.23	-57	" " " "
1108	6	8.45	2.50	6.73	9.5	6126	31.0	5.35	-59	" " " "
	7									
	8									
	9									
	10									
Sample Information:										
1110	S1	8.45	2.75	6.78	8.9	6169	23.3	5.06	-61	clear, no odor
1125	S2	8.45	3.00	6.87	8.4	5864	16.9	5.56	-56	" " "

REMARKS:
BD w/ MWN-56A @ 900
MS/MSD w/ MWN-57A

Note: All water level measurements are in feet, distance from top of riser.

Volume Calculation

Diam.	Vol. (g/ft)
1"	0.041
2"	0.163
4"	0.653
6"	1.469

Stabilization Criteria

Parameter	Criteria
pH	± 0.1 unit
SC	± 3%
Turbidity	± 10%
DO	± 0.3 mg/L
ORP	± 10 mV

PREPARED BY: CCB

eurofins | Environment Testing TestAmerica

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-165720-1
Client Project/Site: Benchmark - Steel Sun

For:
Turnkey Environmental Restoration, LLC
2558 Hamburg Turnpike
Suite 300
Lackawanna, New York 14218

Attn: Lori Riker

Joseph V. Giacomazza

Authorized for release by:
2/7/2020 10:37:03 AM
Joe Giacomazza, Project Management Assistant II
joe.giacomazza@testamericainc.com

Designee for

Brian Fischer, Manager of Project Management
(716)504-9835
brian.fischer@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-165720-1
Project/Site: Benchmark - Steel Sun

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Steel Sun

Job ID: 480-165720-1

Job ID: 480-165720-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-165720-1

Comments
No additional comments.

Receipt
The samples were received on 1/30/2020 12:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270D: The continuing calibration verification (CCV) analyzed in batch 480-516289 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-516031 and analytical batch 480-516289 recovered outside control limits for the following surrogate: 2,4,6-Tribromophenol. This surrogate is biased high and is not associated with any target analytes for the following affected samples: MWN-57A (480-165720-1), MWN-56A (480-165720-2) and BLIND DUP (480-165720-3). Therefore, the data has been reported.

Method 8270D: The laboratory control sample (LCS) for preparation batch 480-516031 and analytical batch 480-516289 recovered outside control limits for the following analytes: Carbazole. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: MWN-57A (480-165720-1), MWN-57A (480-165720-1[MS]), MWN-56A (480-165720-2) and BLIND DUP (480-165720-3). These results have been reported and qualified.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-516031 and analytical batch 480-516289 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270D: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 480-516031 and analytical batch 480-516295 recovered outside control limits for the following surrogate: 2,4,6-Tribromophenol. This surrogate is biased high and no detections were found for associated analytes in the following affected samples: EQUIP BLANK (480-165720-4). Therefore, the data has been reported.

Method 8270D: The laboratory control sample (LCS) for preparation batch 480-516031 and analytical batch 480-516295 recovered outside control limits for the following analytes: Carbazole. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 480-516295 was outside the method criteria for the following analyte(s): 2,4,6-Tribromophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-516295 recovered outside acceptance criteria, low biased, for 4-Chloroaniline. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Job ID: 480-165720-1 (Continued)

Laboratory: Eurofins TestAmerica, Buffalo (Continued)

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-516295 recovered above the upper control limit for Carbazole. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: EQUIP BLANK (480-165720-4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-165720-1
Project/Site: Benchmark - Steel Sun

Client Sample ID: MWN-57A — Lab Sample ID: 480-165720-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	1.2	J	5.0	0.41	ug/L	1		8270D	Total/NA

Client Sample ID: MWN-56A — Lab Sample ID: 480-165720-2

No Detections.

Client Sample ID: BLIND DUP — Lab Sample ID: 480-165720-3

No Detections.

Client Sample ID: EQUIP BLANK — Lab Sample ID: 480-165720-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Caprolactam	63		5.0	2.2	ug/L	1		8270D	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-165720-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Steel Sun

Job ID: 480-165720-1

Client Sample ID: MWN-57A
Date Collected: 01/29/20 11:10
Date Received: 01/30/20 12:05

Lab Sample ID: 480-165720-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/31/20 13:28	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/31/20 13:28	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/31/20 13:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/31/20 13:28	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/31/20 13:28	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/31/20 13:28	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/31/20 13:28	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/31/20 13:28	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/31/20 13:28	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/31/20 13:28	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/31/20 13:28	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/31/20 13:28	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/31/20 13:28	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/31/20 13:28	1
2-Hexanone	ND		5.0	1.2	ug/L			01/31/20 13:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/31/20 13:28	1
Acetone	ND		10	3.0	ug/L			01/31/20 13:28	1
Benzene	ND		1.0	0.41	ug/L			01/31/20 13:28	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/31/20 13:28	1
Bromoform	ND		1.0	0.26	ug/L			01/31/20 13:28	1
Bromomethane	ND		1.0	0.69	ug/L			01/31/20 13:28	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/31/20 13:28	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/31/20 13:28	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/31/20 13:28	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/31/20 13:28	1
Chloroethane	ND		1.0	0.32	ug/L			01/31/20 13:28	1
Chloroform	ND		1.0	0.34	ug/L			01/31/20 13:28	1
Chloromethane	ND		1.0	0.35	ug/L			01/31/20 13:28	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/31/20 13:28	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/31/20 13:28	1
Cyclohexane	ND		1.0	0.18	ug/L			01/31/20 13:28	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/31/20 13:28	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/31/20 13:28	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/31/20 13:28	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/31/20 13:28	1
Methyl acetate	ND		2.5	1.3	ug/L			01/31/20 13:28	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/31/20 13:28	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/31/20 13:28	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/31/20 13:28	1
Styrene	ND		1.0	0.73	ug/L			01/31/20 13:28	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/31/20 13:28	1
Toluene	ND		1.0	0.51	ug/L			01/31/20 13:28	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/31/20 13:28	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/31/20 13:28	1
Trichloroethene	ND		1.0	0.46	ug/L			01/31/20 13:28	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/31/20 13:28	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/31/20 13:28	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/31/20 13:28	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Steel Sun

Job ID: 480-165720-1

Client Sample ID: MWN-57A
Date Collected: 01/29/20 11:10
Date Received: 01/30/20 12:05

Lab Sample ID: 480-165720-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*105*		*80 - 120*		*01/31/20 13:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*01/31/20 13:28*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*01/31/20 13:28*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*01/31/20 13:28*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		02/04/20 07:24	02/05/20 16:58	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		02/04/20 07:24	02/05/20 16:58	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		02/04/20 07:24	02/05/20 16:58	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		02/04/20 07:24	02/05/20 16:58	1
2-Nitroaniline	ND	F2	10	0.42	ug/L		02/04/20 07:24	02/05/20 16:58	1
3,3'-Dichlorobenzidine	ND	F2	5.0	0.40	ug/L		02/04/20 07:24	02/05/20 16:58	1
3-Nitroaniline	ND		10	0.48	ug/L		02/04/20 07:24	02/05/20 16:58	1
4-Bromophenyl phenyl ether	ND	F2	5.0	0.45	ug/L		02/04/20 07:24	02/05/20 16:58	1
4-Chloroaniline	ND		5.0	0.59	ug/L		02/04/20 07:24	02/05/20 16:58	1
4-Chlorophenyl phenyl ether	ND	F2	5.0	0.35	ug/L		02/04/20 07:24	02/05/20 16:58	1
4-Nitroaniline	ND		10	0.25	ug/L		02/04/20 07:24	02/05/20 16:58	1
Acenaphthene	**1.2**	**J**	5.0	0.41	ug/L		02/04/20 07:24	02/05/20 16:58	1
Acenaphthylene	ND		5.0	0.38	ug/L		02/04/20 07:24	02/05/20 16:58	1
Acetophenone	ND		5.0	0.54	ug/L		02/04/20 07:24	02/05/20 16:58	1
Anthracene	ND		5.0	0.28	ug/L		02/04/20 07:24	02/05/20 16:58	1
Atrazine	ND		5.0	0.46	ug/L		02/04/20 07:24	02/05/20 16:58	1
Benzaldehyde	ND		5.0	0.27	ug/L		02/04/20 07:24	02/05/20 16:58	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		02/04/20 07:24	02/05/20 16:58	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		02/04/20 07:24	02/05/20 16:58	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		02/04/20 07:24	02/05/20 16:58	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		02/04/20 07:24	02/05/20 16:58	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		02/04/20 07:24	02/05/20 16:58	1
Biphenyl	ND		5.0	0.65	ug/L		02/04/20 07:24	02/05/20 16:58	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		02/04/20 07:24	02/05/20 16:58	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		02/04/20 07:24	02/05/20 16:58	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		02/04/20 07:24	02/05/20 16:58	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		02/04/20 07:24	02/05/20 16:58	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		02/04/20 07:24	02/05/20 16:58	1
Caprolactam	ND		5.0	2.2	ug/L		02/04/20 07:24	02/05/20 16:58	1
Carbazole	ND	*	5.0	0.30	ug/L		02/04/20 07:24	02/05/20 16:58	1
Chrysene	ND		5.0	0.33	ug/L		02/04/20 07:24	02/05/20 16:58	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		02/04/20 07:24	02/05/20 16:58	1
Dibenzofuran	ND		10	0.51	ug/L		02/04/20 07:24	02/05/20 16:58	1
Diethyl phthalate	ND		5.0	0.22	ug/L		02/04/20 07:24	02/05/20 16:58	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		02/04/20 07:24	02/05/20 16:58	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		02/04/20 07:24	02/05/20 16:58	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		02/04/20 07:24	02/05/20 16:58	1
Fluoranthene	ND		5.0	0.40	ug/L		02/04/20 07:24	02/05/20 16:58	1
Fluorene	ND		5.0	0.36	ug/L		02/04/20 07:24	02/05/20 16:58	1
Hexachlorobenzene	ND	F1	5.0	0.51	ug/L		02/04/20 07:24	02/05/20 16:58	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		02/04/20 07:24	02/05/20 16:58	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		02/04/20 07:24	02/05/20 16:58	1
Hexachloroethane	ND		5.0	0.59	ug/L		02/04/20 07:24	02/05/20 16:58	1

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-165720-1
Project/Site: Benchmark - Steel Sun

Client Sample ID: MWN-57A
Lab Sample ID: 480-165720-1
Date Collected: 01/29/20 11:10
Matrix: Water
Date Received: 01/30/20 12:05

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		02/04/20 07:24	02/05/20 16:58	1
Isophorone	ND		5.0	0.43	ug/L		02/04/20 07:24	02/05/20 16:58	1
Naphthalene	ND		5.0	0.76	ug/L		02/04/20 07:24	02/05/20 16:58	1
Nitrobenzene	ND		5.0	0.29	ug/L		02/04/20 07:24	02/05/20 16:58	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		02/04/20 07:24	02/05/20 16:58	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		02/04/20 07:24	02/05/20 16:58	1
Phenanthrene	ND		5.0	0.44	ug/L		02/04/20 07:24	02/05/20 16:58	1
Pyrene	ND		5.0	0.34	ug/L		02/04/20 07:24	02/05/20 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*140*	*X*	*41 - 120*	*02/04/20 07:24*	*02/05/20 16:58*	*1*
2-Fluorobiphenyl	*100*		*48 - 120*	*02/04/20 07:24*	*02/05/20 16:58*	*1*
2-Fluorophenol	*69*		*35 - 120*	*02/04/20 07:24*	*02/05/20 16:58*	*1*
Nitrobenzene-d5	*100*		*46 - 120*	*02/04/20 07:24*	*02/05/20 16:58*	*1*
Phenol-d5	*52*		*22 - 120*	*02/04/20 07:24*	*02/05/20 16:58*	*1*
p-Terphenyl-d14	*72*		*60 - 148*	*02/04/20 07:24*	*02/05/20 16:58*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		01/31/20 07:57	01/31/20 14:26	1
Chromium	ND		0.0040		mg/L		01/31/20 07:57	01/31/20 14:26	1
Lead	ND		0.010		mg/L		01/31/20 07:57	01/31/20 14:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/31/20 11:47	01/31/20 14:22	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Steel Sun

Job ID: 480-165720-1

Client Sample ID: MWN-56A
Date Collected: 01/29/20 12:25
Date Received: 01/30/20 12:05

Lab Sample ID: 480-165720-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/31/20 13:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/31/20 13:51	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/31/20 13:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/31/20 13:51	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/31/20 13:51	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/31/20 13:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/31/20 13:51	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/31/20 13:51	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/31/20 13:51	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/31/20 13:51	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/31/20 13:51	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/31/20 13:51	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/31/20 13:51	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/31/20 13:51	1
2-Hexanone	ND		5.0	1.2	ug/L			01/31/20 13:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/31/20 13:51	1
Acetone	ND		10	3.0	ug/L			01/31/20 13:51	1
Benzene	ND		1.0	0.41	ug/L			01/31/20 13:51	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/31/20 13:51	1
Bromoform	ND		1.0	0.26	ug/L			01/31/20 13:51	1
Bromomethane	ND		1.0	0.69	ug/L			01/31/20 13:51	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/31/20 13:51	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/31/20 13:51	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/31/20 13:51	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/31/20 13:51	1
Chloroethane	ND		1.0	0.32	ug/L			01/31/20 13:51	1
Chloroform	ND		1.0	0.34	ug/L			01/31/20 13:51	1
Chloromethane	ND		1.0	0.35	ug/L			01/31/20 13:51	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/31/20 13:51	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/31/20 13:51	1
Cyclohexane	ND		1.0	0.18	ug/L			01/31/20 13:51	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/31/20 13:51	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/31/20 13:51	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/31/20 13:51	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/31/20 13:51	1
Methyl acetate	ND		2.5	1.3	ug/L			01/31/20 13:51	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/31/20 13:51	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/31/20 13:51	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/31/20 13:51	1
Styrene	ND		1.0	0.73	ug/L			01/31/20 13:51	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/31/20 13:51	1
Toluene	ND		1.0	0.51	ug/L			01/31/20 13:51	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/31/20 13:51	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/31/20 13:51	1
Trichloroethene	ND		1.0	0.46	ug/L			01/31/20 13:51	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/31/20 13:51	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/31/20 13:51	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/31/20 13:51	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Steel Sun

Job ID: 480-165720-1

Client Sample ID: MWN-56A
Date Collected: 01/29/20 12:25
Date Received: 01/30/20 12:05

Lab Sample ID: 480-165720-2
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*105*		*80 - 120*		*01/31/20 13:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*77 - 120*		*01/31/20 13:51*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*01/31/20 13:51*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*01/31/20 13:51*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		02/04/20 07:24	02/05/20 17:26	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		02/04/20 07:24	02/05/20 17:26	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		02/04/20 07:24	02/05/20 17:26	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		02/04/20 07:24	02/05/20 17:26	1
2-Nitroaniline	ND		10	0.42	ug/L		02/04/20 07:24	02/05/20 17:26	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		02/04/20 07:24	02/05/20 17:26	1
3-Nitroaniline	ND		10	0.48	ug/L		02/04/20 07:24	02/05/20 17:26	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		02/04/20 07:24	02/05/20 17:26	1
4-Chloroaniline	ND		5.0	0.59	ug/L		02/04/20 07:24	02/05/20 17:26	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		02/04/20 07:24	02/05/20 17:26	1
4-Nitroaniline	ND		10	0.25	ug/L		02/04/20 07:24	02/05/20 17:26	1
Acenaphthene	ND		5.0	0.41	ug/L		02/04/20 07:24	02/05/20 17:26	1
Acenaphthylene	ND		5.0	0.38	ug/L		02/04/20 07:24	02/05/20 17:26	1
Acetophenone	ND		5.0	0.54	ug/L		02/04/20 07:24	02/05/20 17:26	1
Anthracene	ND		5.0	0.28	ug/L		02/04/20 07:24	02/05/20 17:26	1
Atrazine	ND		5.0	0.46	ug/L		02/04/20 07:24	02/05/20 17:26	1
Benzaldehyde	ND		5.0	0.27	ug/L		02/04/20 07:24	02/05/20 17:26	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		02/04/20 07:24	02/05/20 17:26	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		02/04/20 07:24	02/05/20 17:26	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		02/04/20 07:24	02/05/20 17:26	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		02/04/20 07:24	02/05/20 17:26	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		02/04/20 07:24	02/05/20 17:26	1
Biphenyl	ND		5.0	0.65	ug/L		02/04/20 07:24	02/05/20 17:26	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		02/04/20 07:24	02/05/20 17:26	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		02/04/20 07:24	02/05/20 17:26	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		02/04/20 07:24	02/05/20 17:26	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		02/04/20 07:24	02/05/20 17:26	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		02/04/20 07:24	02/05/20 17:26	1
Caprolactam	ND		5.0	2.2	ug/L		02/04/20 07:24	02/05/20 17:26	1
Carbazole	ND	*	5.0	0.30	ug/L		02/04/20 07:24	02/05/20 17:26	1
Chrysene	ND		5.0	0.33	ug/L		02/04/20 07:24	02/05/20 17:26	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		02/04/20 07:24	02/05/20 17:26	1
Dibenzofuran	ND		10	0.51	ug/L		02/04/20 07:24	02/05/20 17:26	1
Diethyl phthalate	ND		5.0	0.22	ug/L		02/04/20 07:24	02/05/20 17:26	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		02/04/20 07:24	02/05/20 17:26	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		02/04/20 07:24	02/05/20 17:26	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		02/04/20 07:24	02/05/20 17:26	1
Fluoranthene	ND		5.0	0.40	ug/L		02/04/20 07:24	02/05/20 17:26	1
Fluorene	ND		5.0	0.36	ug/L		02/04/20 07:24	02/05/20 17:26	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		02/04/20 07:24	02/05/20 17:26	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		02/04/20 07:24	02/05/20 17:26	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		02/04/20 07:24	02/05/20 17:26	1
Hexachloroethane	ND		5.0	0.59	ug/L		02/04/20 07:24	02/05/20 17:26	1

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-165720-1
Project/Site: Benchmark - Steel Sun

Client Sample ID: MWN-56A
Lab Sample ID: 480-165720-2
Date Collected: 01/29/20 12:25
Matrix: Water
Date Received: 01/30/20 12:05

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		02/04/20 07:24	02/05/20 17:26	1
Isophorone	ND		5.0	0.43	ug/L		02/04/20 07:24	02/05/20 17:26	1
Naphthalene	ND		5.0	0.76	ug/L		02/04/20 07:24	02/05/20 17:26	1
Nitrobenzene	ND		5.0	0.29	ug/L		02/04/20 07:24	02/05/20 17:26	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		02/04/20 07:24	02/05/20 17:26	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		02/04/20 07:24	02/05/20 17:26	1
Phenanthrene	ND		5.0	0.44	ug/L		02/04/20 07:24	02/05/20 17:26	1
Pyrene	ND		5.0	0.34	ug/L		02/04/20 07:24	02/05/20 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*137*	*X*	*41 - 120*	*02/04/20 07:24*	*02/05/20 17:26*	*1*
2-Fluorobiphenyl	*102*		*48 - 120*	*02/04/20 07:24*	*02/05/20 17:26*	*1*
2-Fluorophenol	*71*		*35 - 120*	*02/04/20 07:24*	*02/05/20 17:26*	*1*
Nitrobenzene-d5	*100*		*46 - 120*	*02/04/20 07:24*	*02/05/20 17:26*	*1*
Phenol-d5	*52*		*22 - 120*	*02/04/20 07:24*	*02/05/20 17:26*	*1*
p-Terphenyl-d14	*99*		*60 - 148*	*02/04/20 07:24*	*02/05/20 17:26*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		01/31/20 07:57	01/31/20 14:45	1
Chromium	ND		0.0040		mg/L		01/31/20 07:57	01/31/20 14:45	1
Lead	ND		0.010		mg/L		01/31/20 07:57	01/31/20 14:45	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/31/20 11:47	01/31/20 14:27	1

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-165720-1
Project/Site: Benchmark - Steel Sun

Client Sample ID: BLIND DUP
Lab Sample ID: 480-165720-3
Date Collected: 01/29/20 09:00
Matrix: Water
Date Received: 01/30/20 12:05

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/31/20 14:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/31/20 14:14	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/31/20 14:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/31/20 14:14	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/31/20 14:14	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/31/20 14:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/31/20 14:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/31/20 14:14	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/31/20 14:14	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/31/20 14:14	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/31/20 14:14	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/31/20 14:14	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/31/20 14:14	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/31/20 14:14	1
2-Hexanone	ND		5.0	1.2	ug/L			01/31/20 14:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/31/20 14:14	1
Acetone	ND		10	3.0	ug/L			01/31/20 14:14	1
Benzene	ND		1.0	0.41	ug/L			01/31/20 14:14	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/31/20 14:14	1
Bromoform	ND		1.0	0.26	ug/L			01/31/20 14:14	1
Bromomethane	ND		1.0	0.69	ug/L			01/31/20 14:14	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/31/20 14:14	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/31/20 14:14	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/31/20 14:14	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/31/20 14:14	1
Chloroethane	ND		1.0	0.32	ug/L			01/31/20 14:14	1
Chloroform	ND		1.0	0.34	ug/L			01/31/20 14:14	1
Chloromethane	ND		1.0	0.35	ug/L			01/31/20 14:14	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/31/20 14:14	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/31/20 14:14	1
Cyclohexane	ND		1.0	0.18	ug/L			01/31/20 14:14	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/31/20 14:14	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/31/20 14:14	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/31/20 14:14	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/31/20 14:14	1
Methyl acetate	ND		2.5	1.3	ug/L			01/31/20 14:14	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/31/20 14:14	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/31/20 14:14	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/31/20 14:14	1
Styrene	ND		1.0	0.73	ug/L			01/31/20 14:14	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/31/20 14:14	1
Toluene	ND		1.0	0.51	ug/L			01/31/20 14:14	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/31/20 14:14	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/31/20 14:14	1
Trichloroethene	ND		1.0	0.46	ug/L			01/31/20 14:14	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/31/20 14:14	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/31/20 14:14	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/31/20 14:14	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Steel Sun

Job ID: 480-165720-1

Client Sample ID: BLIND DUP
Date Collected: 01/29/20 09:00
Date Received: 01/30/20 12:05

Lab Sample ID: 480-165720-3
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*80 - 120*		*01/31/20 14:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*01/31/20 14:14*	*1*
4-Bromofluorobenzene (Surr)	*106*		*73 - 120*		*01/31/20 14:14*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*01/31/20 14:14*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		02/04/20 07:24	02/05/20 17:55	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		02/04/20 07:24	02/05/20 17:55	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		02/04/20 07:24	02/05/20 17:55	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		02/04/20 07:24	02/05/20 17:55	1
2-Nitroaniline	ND		10	0.42	ug/L		02/04/20 07:24	02/05/20 17:55	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		02/04/20 07:24	02/05/20 17:55	1
3-Nitroaniline	ND		10	0.48	ug/L		02/04/20 07:24	02/05/20 17:55	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		02/04/20 07:24	02/05/20 17:55	1
4-Chloroaniline	ND		5.0	0.59	ug/L		02/04/20 07:24	02/05/20 17:55	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		02/04/20 07:24	02/05/20 17:55	1
4-Nitroaniline	ND		10	0.25	ug/L		02/04/20 07:24	02/05/20 17:55	1
Acenaphthene	ND		5.0	0.41	ug/L		02/04/20 07:24	02/05/20 17:55	1
Acenaphthylene	ND		5.0	0.38	ug/L		02/04/20 07:24	02/05/20 17:55	1
Acetophenone	ND		5.0	0.54	ug/L		02/04/20 07:24	02/05/20 17:55	1
Anthracene	ND		5.0	0.28	ug/L		02/04/20 07:24	02/05/20 17:55	1
Atrazine	ND		5.0	0.46	ug/L		02/04/20 07:24	02/05/20 17:55	1
Benzaldehyde	ND		5.0	0.27	ug/L		02/04/20 07:24	02/05/20 17:55	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		02/04/20 07:24	02/05/20 17:55	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		02/04/20 07:24	02/05/20 17:55	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		02/04/20 07:24	02/05/20 17:55	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		02/04/20 07:24	02/05/20 17:55	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		02/04/20 07:24	02/05/20 17:55	1
Biphenyl	ND		5.0	0.65	ug/L		02/04/20 07:24	02/05/20 17:55	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		02/04/20 07:24	02/05/20 17:55	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		02/04/20 07:24	02/05/20 17:55	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		02/04/20 07:24	02/05/20 17:55	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		02/04/20 07:24	02/05/20 17:55	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		02/04/20 07:24	02/05/20 17:55	1
Caprolactam	ND		5.0	2.2	ug/L		02/04/20 07:24	02/05/20 17:55	1
Carbazole	ND	*	5.0	0.30	ug/L		02/04/20 07:24	02/05/20 17:55	1
Chrysene	ND		5.0	0.33	ug/L		02/04/20 07:24	02/05/20 17:55	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		02/04/20 07:24	02/05/20 17:55	1
Dibenzofuran	ND		10	0.51	ug/L		02/04/20 07:24	02/05/20 17:55	1
Diethyl phthalate	ND		5.0	0.22	ug/L		02/04/20 07:24	02/05/20 17:55	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		02/04/20 07:24	02/05/20 17:55	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		02/04/20 07:24	02/05/20 17:55	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		02/04/20 07:24	02/05/20 17:55	1
Fluoranthene	ND		5.0	0.40	ug/L		02/04/20 07:24	02/05/20 17:55	1
Fluorene	ND		5.0	0.36	ug/L		02/04/20 07:24	02/05/20 17:55	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		02/04/20 07:24	02/05/20 17:55	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		02/04/20 07:24	02/05/20 17:55	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		02/04/20 07:24	02/05/20 17:55	1
Hexachloroethane	ND		5.0	0.59	ug/L		02/04/20 07:24	02/05/20 17:55	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Steel Sun

Job ID: 480-165720-1

Client Sample ID: BLIND DUP
Date Collected: 01/29/20 09:00
Date Received: 01/30/20 12:05

Lab Sample ID: 480-165720-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		02/04/20 07:24	02/05/20 17:55	1
Isophorone	ND		5.0	0.43	ug/L		02/04/20 07:24	02/05/20 17:55	1
Naphthalene	ND		5.0	0.76	ug/L		02/04/20 07:24	02/05/20 17:55	1
Nitrobenzene	ND		5.0	0.29	ug/L		02/04/20 07:24	02/05/20 17:55	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		02/04/20 07:24	02/05/20 17:55	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		02/04/20 07:24	02/05/20 17:55	1
Phenanthrene	ND		5.0	0.44	ug/L		02/04/20 07:24	02/05/20 17:55	1
Pyrene	ND		5.0	0.34	ug/L		02/04/20 07:24	02/05/20 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*139*	*X*	*41 - 120*	*02/04/20 07:24*	*02/05/20 17:55*	*1*
2-Fluorobiphenyl	*95*		*48 - 120*	*02/04/20 07:24*	*02/05/20 17:55*	*1*
2-Fluorophenol	*65*		*35 - 120*	*02/04/20 07:24*	*02/05/20 17:55*	*1*
Nitrobenzene-d5	*92*		*46 - 120*	*02/04/20 07:24*	*02/05/20 17:55*	*1*
Phenol-d5	*49*		*22 - 120*	*02/04/20 07:24*	*02/05/20 17:55*	*1*
p-Terphenyl-d14	*96*		*60 - 148*	*02/04/20 07:24*	*02/05/20 17:55*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		01/31/20 07:57	01/31/20 14:59	1
Chromium	ND		0.0040		mg/L		01/31/20 07:57	01/31/20 14:59	1
Lead	ND		0.010		mg/L		01/31/20 07:57	01/31/20 14:59	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/31/20 11:47	01/31/20 14:28	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Steel Sun

Job ID: 480-165720-1

Client Sample ID: EQUIP BLANK
Date Collected: 01/29/20 10:20
Date Received: 01/30/20 12:05

Lab Sample ID: 480-165720-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/31/20 14:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/31/20 14:37	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/31/20 14:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/31/20 14:37	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/31/20 14:37	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/31/20 14:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/31/20 14:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/31/20 14:37	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/31/20 14:37	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/31/20 14:37	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/31/20 14:37	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/31/20 14:37	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/31/20 14:37	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/31/20 14:37	1
2-Hexanone	ND		5.0	1.2	ug/L			01/31/20 14:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/31/20 14:37	1
Acetone	ND		10	3.0	ug/L			01/31/20 14:37	1
Benzene	ND		1.0	0.41	ug/L			01/31/20 14:37	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/31/20 14:37	1
Bromoform	ND		1.0	0.26	ug/L			01/31/20 14:37	1
Bromomethane	ND		1.0	0.69	ug/L			01/31/20 14:37	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/31/20 14:37	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/31/20 14:37	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/31/20 14:37	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/31/20 14:37	1
Chloroethane	ND		1.0	0.32	ug/L			01/31/20 14:37	1
Chloroform	ND		1.0	0.34	ug/L			01/31/20 14:37	1
Chloromethane	ND		1.0	0.35	ug/L			01/31/20 14:37	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/31/20 14:37	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/31/20 14:37	1
Cyclohexane	ND		1.0	0.18	ug/L			01/31/20 14:37	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/31/20 14:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/31/20 14:37	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/31/20 14:37	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/31/20 14:37	1
Methyl acetate	ND		2.5	1.3	ug/L			01/31/20 14:37	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/31/20 14:37	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/31/20 14:37	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/31/20 14:37	1
Styrene	ND		1.0	0.73	ug/L			01/31/20 14:37	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/31/20 14:37	1
Toluene	ND		1.0	0.51	ug/L			01/31/20 14:37	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/31/20 14:37	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/31/20 14:37	1
Trichloroethene	ND		1.0	0.46	ug/L			01/31/20 14:37	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/31/20 14:37	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/31/20 14:37	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/31/20 14:37	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Steel Sun

Job ID: 480-165720-1

Client Sample ID: EQUIP BLANK
Date Collected: 01/29/20 10:20
Date Received: 01/30/20 12:05

Lab Sample ID: 480-165720-4
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*106*		*80 - 120*		*01/31/20 14:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*01/31/20 14:37*	*1*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*		*01/31/20 14:37*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*01/31/20 14:37*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		02/04/20 07:24	02/06/20 00:30	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		02/04/20 07:24	02/06/20 00:30	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		02/04/20 07:24	02/06/20 00:30	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		02/04/20 07:24	02/06/20 00:30	1
2-Nitroaniline	ND		10	0.42	ug/L		02/04/20 07:24	02/06/20 00:30	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		02/04/20 07:24	02/06/20 00:30	1
3-Nitroaniline	ND		10	0.48	ug/L		02/04/20 07:24	02/06/20 00:30	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		02/04/20 07:24	02/06/20 00:30	1
4-Chloroaniline	ND		5.0	0.59	ug/L		02/04/20 07:24	02/06/20 00:30	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		02/04/20 07:24	02/06/20 00:30	1
4-Nitroaniline	ND		10	0.25	ug/L		02/04/20 07:24	02/06/20 00:30	1
Acenaphthene	ND		5.0	0.41	ug/L		02/04/20 07:24	02/06/20 00:30	1
Acenaphthylene	ND		5.0	0.38	ug/L		02/04/20 07:24	02/06/20 00:30	1
Acetophenone	ND		5.0	0.54	ug/L		02/04/20 07:24	02/06/20 00:30	1
Anthracene	ND		5.0	0.28	ug/L		02/04/20 07:24	02/06/20 00:30	1
Atrazine	ND		5.0	0.46	ug/L		02/04/20 07:24	02/06/20 00:30	1
Benzaldehyde	ND		5.0	0.27	ug/L		02/04/20 07:24	02/06/20 00:30	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		02/04/20 07:24	02/06/20 00:30	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		02/04/20 07:24	02/06/20 00:30	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		02/04/20 07:24	02/06/20 00:30	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		02/04/20 07:24	02/06/20 00:30	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		02/04/20 07:24	02/06/20 00:30	1
Biphenyl	ND		5.0	0.65	ug/L		02/04/20 07:24	02/06/20 00:30	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		02/04/20 07:24	02/06/20 00:30	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		02/04/20 07:24	02/06/20 00:30	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		02/04/20 07:24	02/06/20 00:30	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		02/04/20 07:24	02/06/20 00:30	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		02/04/20 07:24	02/06/20 00:30	1
Caprolactam	**63**		5.0	2.2	ug/L		02/04/20 07:24	02/06/20 00:30	1
Carbazole	ND	*	5.0	0.30	ug/L		02/04/20 07:24	02/06/20 00:30	1
Chrysene	ND		5.0	0.33	ug/L		02/04/20 07:24	02/06/20 00:30	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		02/04/20 07:24	02/06/20 00:30	1
Dibenzofuran	ND		10	0.51	ug/L		02/04/20 07:24	02/06/20 00:30	1
Diethyl phthalate	ND		5.0	0.22	ug/L		02/04/20 07:24	02/06/20 00:30	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		02/04/20 07:24	02/06/20 00:30	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		02/04/20 07:24	02/06/20 00:30	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		02/04/20 07:24	02/06/20 00:30	1
Fluoranthene	ND		5.0	0.40	ug/L		02/04/20 07:24	02/06/20 00:30	1
Fluorene	ND		5.0	0.36	ug/L		02/04/20 07:24	02/06/20 00:30	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		02/04/20 07:24	02/06/20 00:30	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		02/04/20 07:24	02/06/20 00:30	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		02/04/20 07:24	02/06/20 00:30	1
Hexachloroethane	ND		5.0	0.59	ug/L		02/04/20 07:24	02/06/20 00:30	1

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-165720-1
Project/Site: Benchmark - Steel Sun

Client Sample ID: EQUIP BLANK
Lab Sample ID: 480-165720-4
Date Collected: 01/29/20 10:20
Matrix: Water
Date Received: 01/30/20 12:05

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		02/04/20 07:24	02/06/20 00:30	1
Isophorone	ND		5.0	0.43	ug/L		02/04/20 07:24	02/06/20 00:30	1
Naphthalene	ND		5.0	0.76	ug/L		02/04/20 07:24	02/06/20 00:30	1
Nitrobenzene	ND		5.0	0.29	ug/L		02/04/20 07:24	02/06/20 00:30	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		02/04/20 07:24	02/06/20 00:30	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		02/04/20 07:24	02/06/20 00:30	1
Phenanthrene	ND		5.0	0.44	ug/L		02/04/20 07:24	02/06/20 00:30	1
Pyrene	ND		5.0	0.34	ug/L		02/04/20 07:24	02/06/20 00:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*115*		*41 - 120*	*02/04/20 07:24*	*02/06/20 00:30*	*1*
2-Fluorobiphenyl	*97*		*48 - 120*	*02/04/20 07:24*	*02/06/20 00:30*	*1*
2-Fluorophenol	*67*		*35 - 120*	*02/04/20 07:24*	*02/06/20 00:30*	*1*
Nitrobenzene-d5	*97*		*46 - 120*	*02/04/20 07:24*	*02/06/20 00:30*	*1*
Phenol-d5	*49*		*22 - 120*	*02/04/20 07:24*	*02/06/20 00:30*	*1*
p-Terphenyl-d14	*91*		*60 - 148*	*02/04/20 07:24*	*02/06/20 00:30*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		01/31/20 07:57	01/31/20 15:03	1
Chromium	ND		0.0040		mg/L		01/31/20 07:57	01/31/20 15:03	1
Lead	ND		0.010		mg/L		01/31/20 07:57	01/31/20 15:03	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/31/20 11:47	01/31/20 14:30	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Steel Sun

Job ID: 480-165720-1

Client Sample ID: TRIP BLANK
Date Collected: 01/29/20 08:00
Date Received: 01/30/20 12:05

Lab Sample ID: 480-165720-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/31/20 15:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/31/20 15:00	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/31/20 15:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/31/20 15:00	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/31/20 15:00	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/31/20 15:00	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/31/20 15:00	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/31/20 15:00	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/31/20 15:00	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/31/20 15:00	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/31/20 15:00	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/31/20 15:00	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/31/20 15:00	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/31/20 15:00	1
2-Hexanone	ND		5.0	1.2	ug/L			01/31/20 15:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/31/20 15:00	1
Acetone	ND		10	3.0	ug/L			01/31/20 15:00	1
Benzene	ND		1.0	0.41	ug/L			01/31/20 15:00	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/31/20 15:00	1
Bromoform	ND		1.0	0.26	ug/L			01/31/20 15:00	1
Bromomethane	ND		1.0	0.69	ug/L			01/31/20 15:00	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/31/20 15:00	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/31/20 15:00	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/31/20 15:00	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/31/20 15:00	1
Chloroethane	ND		1.0	0.32	ug/L			01/31/20 15:00	1
Chloroform	ND		1.0	0.34	ug/L			01/31/20 15:00	1
Chloromethane	ND		1.0	0.35	ug/L			01/31/20 15:00	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/31/20 15:00	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/31/20 15:00	1
Cyclohexane	ND		1.0	0.18	ug/L			01/31/20 15:00	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/31/20 15:00	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/31/20 15:00	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/31/20 15:00	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/31/20 15:00	1
Methyl acetate	ND		2.5	1.3	ug/L			01/31/20 15:00	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/31/20 15:00	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/31/20 15:00	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/31/20 15:00	1
Styrene	ND		1.0	0.73	ug/L			01/31/20 15:00	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/31/20 15:00	1
Toluene	ND		1.0	0.51	ug/L			01/31/20 15:00	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/31/20 15:00	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/31/20 15:00	1
Trichloroethene	ND		1.0	0.46	ug/L			01/31/20 15:00	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/31/20 15:00	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/31/20 15:00	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/31/20 15:00	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Steel Sun

Job ID: 480-165720-1

Client Sample ID: TRIP BLANK
Date Collected: 01/29/20 08:00
Date Received: 01/30/20 12:05

Lab Sample ID: 480-165720-5
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120		01/31/20 15:00	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		01/31/20 15:00	1
4-Bromofluorobenzene (Surr)	104		73 - 120		01/31/20 15:00	1
Dibromofluoromethane (Surr)	103		75 - 123		01/31/20 15:00	1

Surrogate Summary

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Steel Sun

Job ID: 480-165720-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		TOL	DCA	BFB	DBFM				
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)				
480-165720-1	MWN-57A	105	103	104	104				
480-165720-1 MS	MWN-57A	108	103	101	104				
480-165720-1 MSD	MWN-57A	106	101	102	104				
480-165720-2	MWN-56A	105	102	105	103				
480-165720-3	BLIND DUP	106	104	106	103				
480-165720-4	EQUIP BLANK	106	103	104	103				
480-165720-5	TRIP BLANK	107	101	104	103				
LCS 480-515681/5	Lab Control Sample	107	101	102	103				
MB 480-515681/7	Method Blank	107	103	105	104				

Surrogate Legend

TOL = Toluene-d8 (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	PHL	TPHd14		
Lab Sample ID	Client Sample ID	(41-120)	(48-120)	(35-120)	(46-120)	(22-120)	(60-148)		
480-165720-1	MWN-57A	140 X	100	69	100	52	72		
480-165720-1 MS	MWN-57A	133 X	93	65	88	52	73		
480-165720-1 MSD	MWN-57A	120	92	69	89	53	68		
480-165720-2	MWN-56A	137 X	102	71	100	52	99		
480-165720-3	BLIND DUP	139 X	95	65	92	49	96		
480-165720-4	EQUIP BLANK	115	97	67	97	49	91		
LCS 480-516031/2-A	Lab Control Sample	133 X	99	74	95	60	107		
MB 480-516031/1-A	Method Blank	88	92	69	94	50	101		

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHd14 = p-Terphenyl-d14

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Steel Sun

Job ID: 480-165720-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-515681/7
Matrix: Water
Analysis Batch: 515681

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			01/31/20 10:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			01/31/20 10:15	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			01/31/20 10:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			01/31/20 10:15	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			01/31/20 10:15	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			01/31/20 10:15	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			01/31/20 10:15	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			01/31/20 10:15	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			01/31/20 10:15	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			01/31/20 10:15	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			01/31/20 10:15	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			01/31/20 10:15	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			01/31/20 10:15	1
2-Butanone (MEK)	ND		10	1.3	ug/L			01/31/20 10:15	1
2-Hexanone	ND		5.0	1.2	ug/L			01/31/20 10:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			01/31/20 10:15	1
Acetone	ND		10	3.0	ug/L			01/31/20 10:15	1
Benzene	ND		1.0	0.41	ug/L			01/31/20 10:15	1
Bromodichloromethane	ND		1.0	0.39	ug/L			01/31/20 10:15	1
Bromoform	ND		1.0	0.26	ug/L			01/31/20 10:15	1
Bromomethane	ND		1.0	0.69	ug/L			01/31/20 10:15	1
Carbon disulfide	ND		1.0	0.19	ug/L			01/31/20 10:15	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			01/31/20 10:15	1
Chlorobenzene	ND		1.0	0.75	ug/L			01/31/20 10:15	1
Dibromochloromethane	ND		1.0	0.32	ug/L			01/31/20 10:15	1
Chloroethane	ND		1.0	0.32	ug/L			01/31/20 10:15	1
Chloroform	ND		1.0	0.34	ug/L			01/31/20 10:15	1
Chloromethane	ND		1.0	0.35	ug/L			01/31/20 10:15	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			01/31/20 10:15	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			01/31/20 10:15	1
Cyclohexane	ND		1.0	0.18	ug/L			01/31/20 10:15	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			01/31/20 10:15	1
Ethylbenzene	ND		1.0	0.74	ug/L			01/31/20 10:15	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			01/31/20 10:15	1
Isopropylbenzene	ND		1.0	0.79	ug/L			01/31/20 10:15	1
Methyl acetate	ND		2.5	1.3	ug/L			01/31/20 10:15	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			01/31/20 10:15	1
Methylcyclohexane	ND		1.0	0.16	ug/L			01/31/20 10:15	1
Methylene Chloride	ND		1.0	0.44	ug/L			01/31/20 10:15	1
Styrene	ND		1.0	0.73	ug/L			01/31/20 10:15	1
Tetrachloroethene	ND		1.0	0.36	ug/L			01/31/20 10:15	1
Toluene	ND		1.0	0.51	ug/L			01/31/20 10:15	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			01/31/20 10:15	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			01/31/20 10:15	1
Trichloroethene	ND		1.0	0.46	ug/L			01/31/20 10:15	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			01/31/20 10:15	1
Vinyl chloride	ND		1.0	0.90	ug/L			01/31/20 10:15	1
Xylenes, Total	ND		2.0	0.66	ug/L			01/31/20 10:15	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-515681/7
Matrix: Water
Analysis Batch: 515681

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*107*		*80 - 120*		*01/31/20 10:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*		*01/31/20 10:15*	*1*
4-Bromofluorobenzene (Surr)	*105*		*73 - 120*		*01/31/20 10:15*	*1*
Dibromofluoromethane (Surr)	*104*		*75 - 123*		*01/31/20 10:15*	*1*

Lab Sample ID: LCS 480-515681/5
Matrix: Water
Analysis Batch: 515681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	22.2		ug/L		89	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.5		ug/L		94	76 - 120
1,1,2-Trichloroethane	25.0	23.6		ug/L		94	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.1		ug/L		92	61 - 148
1,1-Dichloroethane	25.0	22.6		ug/L		90	77 - 120
1,1-Dichloroethene	25.0	22.8		ug/L		91	66 - 127
1,2,4-Trichlorobenzene	25.0	23.9		ug/L		96	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	21.9		ug/L		88	56 - 134
1,2-Dichlorobenzene	25.0	23.0		ug/L		92	80 - 124
1,2-Dichloroethane	25.0	21.2		ug/L		85	75 - 120
1,2-Dichloropropane	25.0	22.9		ug/L		92	76 - 120
1,3-Dichlorobenzene	25.0	22.8		ug/L		91	77 - 120
1,4-Dichlorobenzene	25.0	22.7		ug/L		91	80 - 120
2-Butanone (MEK)	125	103		ug/L		82	57 - 140
2-Hexanone	125	112		ug/L		90	65 - 127
4-Methyl-2-pentanone (MIBK)	125	111		ug/L		89	71 - 125
Acetone	125	104		ug/L		83	56 - 142
Benzene	25.0	23.3		ug/L		93	71 - 124
Bromodichloromethane	25.0	22.2		ug/L		89	80 - 122
Bromoform	25.0	22.6		ug/L		90	61 - 132
Bromomethane	25.0	19.8		ug/L		79	55 - 144
Carbon disulfide	25.0	23.4		ug/L		94	59 - 134
Carbon tetrachloride	25.0	21.8		ug/L		87	72 - 134
Chlorobenzene	25.0	23.0		ug/L		92	80 - 120
Dibromochloromethane	25.0	22.8		ug/L		91	75 - 125
Chloroethane	25.0	19.3		ug/L		77	69 - 136
Chloroform	25.0	21.5		ug/L		86	73 - 127
Chloromethane	25.0	19.9		ug/L		80	68 - 124
cis-1,2-Dichloroethene	25.0	23.1		ug/L		92	74 - 124
cis-1,3-Dichloropropene	25.0	22.9		ug/L		92	74 - 124
Cyclohexane	25.0	22.4		ug/L		90	59 - 135
Dichlorodifluoromethane	25.0	20.0		ug/L		80	59 - 135
Ethylbenzene	25.0	22.7		ug/L		91	77 - 123
1,2-Dibromoethane	25.0	23.0		ug/L		92	77 - 120
Isopropylbenzene	25.0	23.0		ug/L		92	77 - 122
Methyl acetate	50.0	41.3		ug/L		83	74 - 133
Methyl tert-butyl ether	25.0	22.7		ug/L		91	77 - 120
Methylcyclohexane	25.0	22.9		ug/L		92	68 - 134

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-515681/5
Matrix: Water
Analysis Batch: 515681

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	24.4		ug/L		98	75 - 124
Styrene	25.0	22.9		ug/L		91	80 - 120
Tetrachloroethene	25.0	23.2		ug/L		93	74 - 122
Toluene	25.0	23.2		ug/L		93	80 - 122
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	73 - 127
trans-1,3-Dichloropropene	25.0	23.6		ug/L		94	80 - 120
Trichloroethene	25.0	22.7		ug/L		91	74 - 123
Trichlorofluoromethane	25.0	20.1		ug/L		80	62 - 150
Vinyl chloride	25.0	21.4		ug/L		86	65 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*103*		*75 - 123*

Lab Sample ID: 480-165720-1 MS
Matrix: Water
Analysis Batch: 515681

Client Sample ID: MWN-57A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		25.0	28.3		ug/L		113	73 - 126
1,1,2,2-Tetrachloroethane	ND		25.0	27.6		ug/L		110	76 - 120
1,1,2-Trichloroethane	ND		25.0	27.5		ug/L		110	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	29.8		ug/L		119	61 - 148
1,1-Dichloroethane	ND		25.0	28.0		ug/L		112	77 - 120
1,1-Dichloroethene	ND		25.0	29.5		ug/L		118	66 - 127
1,2,4-Trichlorobenzene	ND		25.0	28.5		ug/L		114	79 - 122
1,2-Dibromo-3-Chloropropane	ND		25.0	27.8		ug/L		111	56 - 134
1,2-Dichlorobenzene	ND		25.0	27.1		ug/L		108	80 - 124
1,2-Dichloroethane	ND		25.0	24.8		ug/L		99	75 - 120
1,2-Dichloropropane	ND		25.0	27.9		ug/L		112	76 - 120
1,3-Dichlorobenzene	ND		25.0	27.1		ug/L		108	77 - 120
1,4-Dichlorobenzene	ND		25.0	26.7		ug/L		107	78 - 124
2-Butanone (MEK)	ND		125	120		ug/L		96	57 - 140
2-Hexanone	ND		125	139		ug/L		111	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		125	137		ug/L		109	71 - 125
Acetone	ND		125	113		ug/L		90	56 - 142
Benzene	ND		25.0	29.1		ug/L		116	71 - 124
Bromodichloromethane	ND		25.0	26.2		ug/L		105	80 - 122
Bromoform	ND		25.0	24.7		ug/L		99	61 - 132
Bromomethane	ND		25.0	25.8		ug/L		103	55 - 144
Carbon disulfide	ND		25.0	30.0		ug/L		120	59 - 134
Carbon tetrachloride	ND		25.0	28.2		ug/L		113	72 - 134
Chlorobenzene	ND		25.0	27.7		ug/L		111	80 - 120
Dibromochloromethane	ND		25.0	25.9		ug/L		104	75 - 125
Chloroethane	ND		25.0	26.3		ug/L		105	69 - 136
Chloroform	ND		25.0	26.4		ug/L		106	73 - 127

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-165720-1 MS
Matrix: Water
Analysis Batch: 515681

Client Sample ID: MWN-57A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	ND		25.0	25.7		ug/L		103	68 - 124
cis-1,2-Dichloroethene	ND		25.0	28.1		ug/L		113	74 - 124
cis-1,3-Dichloropropene	ND		25.0	25.7		ug/L		103	74 - 124
Cyclohexane	ND		25.0	29.3		ug/L		117	59 - 135
Dichlorodifluoromethane	ND		25.0	27.4		ug/L		110	59 - 135
Ethylbenzene	ND		25.0	27.7		ug/L		111	77 - 123
1,2-Dibromoethane	ND		25.0	26.8		ug/L		107	77 - 120
Isopropylbenzene	ND		25.0	28.9		ug/L		115	77 - 122
Methyl acetate	ND		50.0	46.9		ug/L		94	74 - 133
Methyl tert-butyl ether	ND		25.0	26.4		ug/L		106	77 - 120
Methylcyclohexane	ND		25.0	29.5		ug/L		118	68 - 134
Methylene Chloride	ND		25.0	28.3		ug/L		113	75 - 124
Styrene	ND		25.0	24.8		ug/L		99	80 - 120
Tetrachloroethene	ND		25.0	29.4		ug/L		117	74 - 122
Toluene	ND		25.0	28.6		ug/L		115	80 - 122
trans-1,2-Dichloroethene	ND		25.0	29.1		ug/L		117	73 - 127
trans-1,3-Dichloropropene	ND		25.0	25.8		ug/L		103	80 - 120
Trichloroethene	ND		25.0	28.4		ug/L		114	74 - 123
Trichlorofluoromethane	ND		25.0	27.9		ug/L		111	62 - 150
Vinyl chloride	ND		25.0	30.5		ug/L		122	65 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*103*		*77 - 120*
4-Bromofluorobenzene (Surr)	*101*		*73 - 120*
Dibromofluoromethane (Surr)	*104*		*75 - 123*

Lab Sample ID: 480-165720-1 MSD
Matrix: Water
Analysis Batch: 515681

Client Sample ID: MWN-57A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		25.0	26.1		ug/L		105	73 - 126	8	15
1,1,2,2-Tetrachloroethane	ND		25.0	25.3		ug/L		101	76 - 120	9	15
1,1,2-Trichloroethane	ND		25.0	25.4		ug/L		102	76 - 122	8	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	27.2		ug/L		109	61 - 148	9	20
1,1-Dichloroethane	ND		25.0	25.8		ug/L		103	77 - 120	8	20
1,1-Dichloroethene	ND		25.0	27.6		ug/L		110	66 - 127	7	16
1,2,4-Trichlorobenzene	ND		25.0	25.5		ug/L		102	79 - 122	11	20
1,2-Dibromo-3-Chloropropane	ND		25.0	24.6		ug/L		98	56 - 134	12	15
1,2-Dichlorobenzene	ND		25.0	24.8		ug/L		99	80 - 124	9	20
1,2-Dichloroethane	ND		25.0	22.4		ug/L		90	75 - 120	10	20
1,2-Dichloropropane	ND		25.0	25.7		ug/L		103	76 - 120	8	20
1,3-Dichlorobenzene	ND		25.0	25.1		ug/L		101	77 - 120	8	20
1,4-Dichlorobenzene	ND		25.0	24.6		ug/L		99	78 - 124	8	20
2-Butanone (MEK)	ND		125	114		ug/L		91	57 - 140	5	20
2-Hexanone	ND		125	130		ug/L		104	65 - 127	7	15
4-Methyl-2-pentanone (MIBK)	ND		125	127		ug/L		102	71 - 125	7	35

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-165720-1 MSD
Matrix: Water
Analysis Batch: 515681

Client Sample ID: MWN-57A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		125	103		ug/L		83	56 - 142	8	15
Benzene	ND		25.0	26.5		ug/L		106	71 - 124	9	13
Bromodichloromethane	ND		25.0	23.9		ug/L		96	80 - 122	9	15
Bromoform	ND		25.0	23.1		ug/L		92	61 - 132	7	15
Bromomethane	ND		25.0	25.6		ug/L		102	55 - 144	1	15
Carbon disulfide	ND		25.0	27.4		ug/L		110	59 - 134	9	15
Carbon tetrachloride	ND		25.0	26.1		ug/L		104	72 - 134	8	15
Chlorobenzene	ND		25.0	25.6		ug/L		102	80 - 120	8	25
Dibromochloromethane	ND		25.0	24.1		ug/L		96	75 - 125	7	15
Chloroethane	ND		25.0	24.1		ug/L		96	69 - 136	9	15
Chloroform	ND		25.0	24.1		ug/L		96	73 - 127	9	20
Chloromethane	ND		25.0	23.9		ug/L		96	68 - 124	7	15
cis-1,2-Dichloroethene	ND		25.0	26.1		ug/L		104	74 - 124	8	15
cis-1,3-Dichloropropene	ND		25.0	23.8		ug/L		95	74 - 124	8	15
Cyclohexane	ND		25.0	27.3		ug/L		109	59 - 135	7	20
Dichlorodifluoromethane	ND		25.0	25.0		ug/L		100	59 - 135	9	20
Ethylbenzene	ND		25.0	25.9		ug/L		104	77 - 123	7	15
1,2-Dibromoethane	ND		25.0	24.7		ug/L		99	77 - 120	8	15
Isopropylbenzene	ND		25.0	26.5		ug/L		106	77 - 122	8	20
Methyl acetate	ND		50.0	43.0		ug/L		86	74 - 133	9	20
Methyl tert-butyl ether	ND		25.0	24.7		ug/L		99	77 - 120	7	37
Methylcyclohexane	ND		25.0	27.6		ug/L		111	68 - 134	7	20
Methylene Chloride	ND		25.0	26.1		ug/L		104	75 - 124	8	15
Styrene	ND		25.0	23.0		ug/L		92	80 - 120	8	20
Tetrachloroethene	ND		25.0	26.8		ug/L		107	74 - 122	9	20
Toluene	ND		25.0	26.2		ug/L		105	80 - 122	9	15
trans-1,2-Dichloroethene	ND		25.0	26.9		ug/L		108	73 - 127	8	20
trans-1,3-Dichloropropene	ND		25.0	23.6		ug/L		94	80 - 120	9	15
Trichloroethene	ND		25.0	26.0		ug/L		104	74 - 123	9	16
Trichlorofluoromethane	ND		25.0	25.4		ug/L		102	62 - 150	9	20
Vinyl chloride	ND		25.0	28.1		ug/L		112	65 - 133	8	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*101*		*77 - 120*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*
Dibromofluoromethane (Surr)	*104*		*75 - 123*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-516031/1-A
Matrix: Water
Analysis Batch: 516289

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 516031

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	ND		5.0	0.45	ug/L		02/04/20 07:24	02/05/20 15:02	1
2,6-Dinitrotoluene	ND		5.0	0.40	ug/L		02/04/20 07:24	02/05/20 15:02	1
2-Chloronaphthalene	ND		5.0	0.46	ug/L		02/04/20 07:24	02/05/20 15:02	1
2-Methylnaphthalene	ND		5.0	0.60	ug/L		02/04/20 07:24	02/05/20 15:02	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-516031/1-A
Matrix: Water
Analysis Batch: 516289

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 516031

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitroaniline	ND		10	0.42	ug/L		02/04/20 07:24	02/05/20 15:02	1
3,3'-Dichlorobenzidine	ND		5.0	0.40	ug/L		02/04/20 07:24	02/05/20 15:02	1
3-Nitroaniline	ND		10	0.48	ug/L		02/04/20 07:24	02/05/20 15:02	1
4-Bromophenyl phenyl ether	ND		5.0	0.45	ug/L		02/04/20 07:24	02/05/20 15:02	1
4-Chloroaniline	ND		5.0	0.59	ug/L		02/04/20 07:24	02/05/20 15:02	1
4-Chlorophenyl phenyl ether	ND		5.0	0.35	ug/L		02/04/20 07:24	02/05/20 15:02	1
4-Nitroaniline	ND		10	0.25	ug/L		02/04/20 07:24	02/05/20 15:02	1
Acenaphthene	ND		5.0	0.41	ug/L		02/04/20 07:24	02/05/20 15:02	1
Acenaphthylene	ND		5.0	0.38	ug/L		02/04/20 07:24	02/05/20 15:02	1
Acetophenone	ND		5.0	0.54	ug/L		02/04/20 07:24	02/05/20 15:02	1
Anthracene	ND		5.0	0.28	ug/L		02/04/20 07:24	02/05/20 15:02	1
Atrazine	ND		5.0	0.46	ug/L		02/04/20 07:24	02/05/20 15:02	1
Benzaldehyde	ND		5.0	0.27	ug/L		02/04/20 07:24	02/05/20 15:02	1
Benzo(a)anthracene	ND		5.0	0.36	ug/L		02/04/20 07:24	02/05/20 15:02	1
Benzo(a)pyrene	ND		5.0	0.47	ug/L		02/04/20 07:24	02/05/20 15:02	1
Benzo(b)fluoranthene	ND		5.0	0.34	ug/L		02/04/20 07:24	02/05/20 15:02	1
Benzo(g,h,i)perylene	ND		5.0	0.35	ug/L		02/04/20 07:24	02/05/20 15:02	1
Benzo(k)fluoranthene	ND		5.0	0.73	ug/L		02/04/20 07:24	02/05/20 15:02	1
Biphenyl	ND		5.0	0.65	ug/L		02/04/20 07:24	02/05/20 15:02	1
bis (2-chloroisopropyl) ether	ND		5.0	0.52	ug/L		02/04/20 07:24	02/05/20 15:02	1
Bis(2-chloroethoxy)methane	ND		5.0	0.35	ug/L		02/04/20 07:24	02/05/20 15:02	1
Bis(2-chloroethyl)ether	ND		5.0	0.40	ug/L		02/04/20 07:24	02/05/20 15:02	1
Bis(2-ethylhexyl) phthalate	ND		5.0	2.2	ug/L		02/04/20 07:24	02/05/20 15:02	1
Butyl benzyl phthalate	ND		5.0	1.0	ug/L		02/04/20 07:24	02/05/20 15:02	1
Caprolactam	ND		5.0	2.2	ug/L		02/04/20 07:24	02/05/20 15:02	1
Carbazole	ND		5.0	0.30	ug/L		02/04/20 07:24	02/05/20 15:02	1
Chrysene	ND		5.0	0.33	ug/L		02/04/20 07:24	02/05/20 15:02	1
Dibenz(a,h)anthracene	ND		5.0	0.42	ug/L		02/04/20 07:24	02/05/20 15:02	1
Dibenzofuran	ND		10	0.51	ug/L		02/04/20 07:24	02/05/20 15:02	1
Diethyl phthalate	ND		5.0	0.22	ug/L		02/04/20 07:24	02/05/20 15:02	1
Dimethyl phthalate	ND		5.0	0.36	ug/L		02/04/20 07:24	02/05/20 15:02	1
Di-n-butyl phthalate	ND		5.0	0.31	ug/L		02/04/20 07:24	02/05/20 15:02	1
Di-n-octyl phthalate	ND		5.0	0.47	ug/L		02/04/20 07:24	02/05/20 15:02	1
Fluoranthene	ND		5.0	0.40	ug/L		02/04/20 07:24	02/05/20 15:02	1
Fluorene	ND		5.0	0.36	ug/L		02/04/20 07:24	02/05/20 15:02	1
Hexachlorobenzene	ND		5.0	0.51	ug/L		02/04/20 07:24	02/05/20 15:02	1
Hexachlorobutadiene	ND		5.0	0.68	ug/L		02/04/20 07:24	02/05/20 15:02	1
Hexachlorocyclopentadiene	ND		5.0	0.59	ug/L		02/04/20 07:24	02/05/20 15:02	1
Hexachloroethane	ND		5.0	0.59	ug/L		02/04/20 07:24	02/05/20 15:02	1
Indeno(1,2,3-cd)pyrene	ND		5.0	0.47	ug/L		02/04/20 07:24	02/05/20 15:02	1
Isophorone	ND		5.0	0.43	ug/L		02/04/20 07:24	02/05/20 15:02	1
Naphthalene	ND		5.0	0.76	ug/L		02/04/20 07:24	02/05/20 15:02	1
Nitrobenzene	ND		5.0	0.29	ug/L		02/04/20 07:24	02/05/20 15:02	1
N-Nitrosodi-n-propylamine	ND		5.0	0.54	ug/L		02/04/20 07:24	02/05/20 15:02	1
N-Nitrosodiphenylamine	ND		5.0	0.51	ug/L		02/04/20 07:24	02/05/20 15:02	1
Phenanthrene	ND		5.0	0.44	ug/L		02/04/20 07:24	02/05/20 15:02	1
Pyrene	ND		5.0	0.34	ug/L		02/04/20 07:24	02/05/20 15:02	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-516031/1-A
Matrix: Water
Analysis Batch: 516289

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 516031

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	88		41 - 120	02/04/20 07:24	02/05/20 15:02	1
2-Fluorobiphenyl	92		48 - 120	02/04/20 07:24	02/05/20 15:02	1
2-Fluorophenol	69		35 - 120	02/04/20 07:24	02/05/20 15:02	1
Nitrobenzene-d5	94		46 - 120	02/04/20 07:24	02/05/20 15:02	1
Phenol-d5	50		22 - 120	02/04/20 07:24	02/05/20 15:02	1
p-Terphenyl-d14	101		60 - 148	02/04/20 07:24	02/05/20 15:02	1

Lab Sample ID: LCS 480-516031/2-A
Matrix: Water
Analysis Batch: 516289

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 516031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrotoluene	32.0	33.3		ug/L		104	69 - 120
2,6-Dinitrotoluene	32.0	33.2		ug/L		104	68 - 120
2-Chloronaphthalene	32.0	29.4		ug/L		92	58 - 120
2-Methylnaphthalene	32.0	29.9		ug/L		93	59 - 120
2-Nitroaniline	32.0	32.7		ug/L		102	54 - 127
3,3'-Dichlorobenzidine	64.0	64.9		ug/L		101	49 - 135
3-Nitroaniline	32.0	28.7		ug/L		90	51 - 120
4-Bromophenyl phenyl ether	32.0	34.1		ug/L		106	65 - 120
4-Chloroaniline	32.0	24.9		ug/L		78	30 - 120
4-Chlorophenyl phenyl ether	32.0	32.2		ug/L		100	62 - 120
4-Nitroaniline	32.0	34.8		ug/L		109	65 - 120
Acenaphthene	32.0	31.1		ug/L		97	60 - 120
Acenaphthylene	32.0	31.9		ug/L		100	63 - 120
Acetophenone	32.0	30.0		ug/L		94	45 - 120
Anthracene	32.0	33.3		ug/L		104	67 - 120
Atrazine	64.0	78.2		ug/L		122	71 - 130
Benzaldehyde	64.0	56.0		ug/L		88	10 - 140
Benzo(a)anthracene	32.0	32.2		ug/L		101	70 - 121
Benzo(a)pyrene	32.0	32.6		ug/L		102	60 - 123
Benzo(b)fluoranthene	32.0	33.2		ug/L		104	66 - 126
Benzo(g,h,i)perylene	32.0	32.9		ug/L		103	66 - 150
Benzo(k)fluoranthene	32.0	33.3		ug/L		104	65 - 124
Biphenyl	32.0	30.7		ug/L		96	59 - 120
bis (2-chloroisopropyl) ether	32.0	26.2		ug/L		82	21 - 136
Bis(2-chloroethoxy)methane	32.0	28.9		ug/L		90	50 - 128
Bis(2-chloroethyl)ether	32.0	26.5		ug/L		83	44 - 120
Bis(2-ethylhexyl) phthalate	32.0	33.3		ug/L		104	63 - 139
Butyl benzyl phthalate	32.0	33.6		ug/L		105	70 - 129
Caprolactam	64.0	25.8		ug/L		40	22 - 120
Carbazole	32.0	39.6	*	ug/L		124	66 - 123
Chrysene	32.0	31.9		ug/L		100	69 - 120
Dibenz(a,h)anthracene	32.0	34.0		ug/L		106	65 - 135
Dibenzofuran	32.0	31.7		ug/L		99	66 - 120
Diethyl phthalate	32.0	34.6		ug/L		108	59 - 127
Dimethyl phthalate	32.0	33.6		ug/L		105	68 - 120
Di-n-butyl phthalate	32.0	33.5		ug/L		105	69 - 131

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-516031/2-A
Matrix: Water
Analysis Batch: 516289

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 516031

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-octyl phthalate	32.0	32.7		ug/L		102	63 - 140
Fluoranthene	32.0	33.1		ug/L		104	69 - 126
Fluorene	32.0	32.6		ug/L		102	66 - 120
Hexachlorobenzene	32.0	34.2		ug/L		107	61 - 120
Hexachlorobutadiene	32.0	26.7		ug/L		84	35 - 120
Hexachlorocyclopentadiene	32.0	25.8		ug/L		81	31 - 120
Hexachloroethane	32.0	25.4		ug/L		79	43 - 120
Indeno(1,2,3-cd)pyrene	32.0	33.8		ug/L		106	69 - 146
Isophorone	32.0	30.8		ug/L		96	55 - 120
Naphthalene	32.0	29.2		ug/L		91	57 - 120
Nitrobenzene	32.0	30.7		ug/L		96	53 - 123
N-Nitrosodi-n-propylamine	32.0	30.2		ug/L		95	32 - 140
N-Nitrosodiphenylamine	32.0	31.8		ug/L		99	61 - 120
Phenanthrene	32.0	33.0		ug/L		103	68 - 120
Pyrene	32.0	33.3		ug/L		104	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*133*	*X*	*41 - 120*
2-Fluorobiphenyl	*99*		*48 - 120*
2-Fluorophenol	*74*		*35 - 120*
Nitrobenzene-d5	*95*		*46 - 120*
Phenol-d5	*60*		*22 - 120*
p-Terphenyl-d14	*107*		*60 - 148*

Lab Sample ID: 480-165720-1 MS
Matrix: Water
Analysis Batch: 516289

Client Sample ID: MWN-57A
Prep Type: Total/NA
Prep Batch: 516031

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4-Dinitrotoluene	ND		32.0	26.7		ug/L		84	54 - 138
2,6-Dinitrotoluene	ND		32.0	26.1		ug/L		82	17 - 150
2-Chloronaphthalene	ND		32.0	28.5		ug/L		89	52 - 124
2-Methylnaphthalene	ND		32.0	29.5		ug/L		92	34 - 140
2-Nitroaniline	ND	F2	32.0	32.4		ug/L		101	44 - 136
3,3'-Dichlorobenzidine	ND	F2	64.0	26.7		ug/L		42	10 - 150
3-Nitroaniline	ND		32.0	22.0		ug/L		69	32 - 150
4-Bromophenyl phenyl ether	ND	F2	32.0	31.5		ug/L		99	63 - 126
4-Chloroaniline	ND		32.0	15.2		ug/L		47	16 - 124
4-Chlorophenyl phenyl ether	ND	F2	32.0	25.4		ug/L		79	61 - 120
4-Nitroaniline	ND		32.0	30.9		ug/L		97	32 - 150
Acenaphthene	1.2	J	32.0	31.6		ug/L		95	48 - 120
Acenaphthylene	ND		32.0	31.2		ug/L		97	63 - 120
Acetophenone	ND		32.0	28.5		ug/L		89	53 - 120
Anthracene	ND		32.0	33.9		ug/L		106	65 - 122
Atrazine	ND		64.0	60.2		ug/L		94	50 - 150
Benzaldehyde	ND		64.0	46.8		ug/L		73	10 - 150
Benzo(a)anthracene	ND		32.0	33.1		ug/L		104	43 - 124
Benzo(a)pyrene	ND		32.0	30.4		ug/L		95	23 - 125

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-165720-1 MS
Matrix: Water
Analysis Batch: 516289

Client Sample ID: MWN-57A
Prep Type: Total/NA
Prep Batch: 516031

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo(b)fluoranthene	ND		32.0	29.9		ug/L		94	27 - 127
Benzo(g,h,i)perylene	ND		32.0	30.9		ug/L		96	16 - 147
Benzo(k)fluoranthene	ND		32.0	34.0		ug/L		106	20 - 124
Biphenyl	ND		32.0	29.1		ug/L		91	57 - 120
bis (2-chloroisopropyl) ether	ND		32.0	24.0		ug/L		75	28 - 121
Bis(2-chloroethoxy)methane	ND		32.0	27.3		ug/L		85	44 - 128
Bis(2-chloroethyl)ether	ND		32.0	27.3		ug/L		85	45 - 120
Bis(2-ethylhexyl) phthalate	ND		32.0	33.5		ug/L		105	16 - 150
Butyl benzyl phthalate	ND		32.0	32.4		ug/L		101	51 - 140
Caprolactam	ND		64.0	21.9		ug/L		34	10 - 120
Carbazole	ND	*	32.0	41.1		ug/L		128	16 - 148
Chrysene	ND		32.0	31.5		ug/L		98	44 - 122
Dibenz(a,h)anthracene	ND		32.0	31.2		ug/L		98	16 - 139
Dibenzofuran	ND		32.0	31.1		ug/L		97	60 - 120
Diethyl phthalate	ND		32.0	26.0		ug/L		81	53 - 133
Dimethyl phthalate	ND		32.0	24.2		ug/L		76	59 - 123
Di-n-butyl phthalate	ND		32.0	36.1		ug/L		113	65 - 129
Di-n-octyl phthalate	ND		32.0	32.9		ug/L		103	16 - 150
Fluoranthene	ND		32.0	34.9		ug/L		109	63 - 129
Fluorene	ND		32.0	26.7		ug/L		83	62 - 120
Hexachlorobenzene	ND	F1	32.0	36.1		ug/L		113	57 - 121
Hexachlorobutadiene	ND		32.0	26.5		ug/L		83	37 - 120
Hexachlorocyclopentadiene	ND		32.0	25.6		ug/L		80	21 - 120
Hexachloroethane	ND		32.0	24.3		ug/L		76	16 - 130
Indeno(1,2,3-cd)pyrene	ND		32.0	30.9		ug/L		97	16 - 140
Isophorone	ND		32.0	29.5		ug/L		92	48 - 133
Naphthalene	ND		32.0	27.9		ug/L		87	45 - 120
Nitrobenzene	ND		32.0	28.7		ug/L		90	45 - 123
N-Nitrosodi-n-propylamine	ND		32.0	28.4		ug/L		89	49 - 120
N-Nitrosodiphenylamine	ND		32.0	32.0		ug/L		100	39 - 138
Phenanthrene	ND		32.0	35.9		ug/L		112	65 - 122
Pyrene	ND		32.0	31.8		ug/L		99	58 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol	*133*	*X*	*41 - 120*
2-Fluorobiphenyl	*93*		*48 - 120*
2-Fluorophenol	*65*		*35 - 120*
Nitrobenzene-d5	*88*		*46 - 120*
Phenol-d5	*52*		*22 - 120*
p-Terphenyl-d14	*73*		*60 - 148*

Lab Sample ID: 480-165720-1 MSD
Matrix: Water
Analysis Batch: 516289

Client Sample ID: MWN-57A
Prep Type: Total/NA
Prep Batch: 516031

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dinitrotoluene	ND		32.0	24.1		ug/L		75	54 - 138	10	20
2,6-Dinitrotoluene	ND		32.0	23.0		ug/L		72	17 - 150	13	15

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-165720-1 MSD
Matrix: Water
Analysis Batch: 516289

Client Sample ID: MWN-57A
Prep Type: Total/NA
Prep Batch: 516031

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chloronaphthalene	ND		32.0	28.2		ug/L		88	52 - 124	1	21
2-Methylnaphthalene	ND		32.0	29.5		ug/L		92	34 - 140	0	21
2-Nitroaniline	ND	F2	32.0	23.4	F2	ug/L		73	44 - 136	32	15
3,3'-Dichlorobenzidine	ND	F2	64.0	16.8	F2	ug/L		26	10 - 150	46	25
3-Nitroaniline	ND		32.0	20.2		ug/L		63	32 - 150	8	19
4-Bromophenyl phenyl ether	ND	F2	32.0	38.5	F2	ug/L		120	63 - 126	20	15
4-Chloroaniline	ND		32.0	13.4		ug/L		42	16 - 124	12	22
4-Chlorophenyl phenyl ether	ND	F2	32.0	30.2	F2	ug/L		94	61 - 120	17	16
4-Nitroaniline	ND		32.0	30.1		ug/L		94	32 - 150	3	24
Acenaphthene	1.2	J	32.0	31.3		ug/L		94	48 - 120	1	24
Acenaphthylene	ND		32.0	30.3		ug/L		95	63 - 120	3	18
Acetophenone	ND		32.0	29.6		ug/L		92	53 - 120	4	20
Anthracene	ND		32.0	30.9		ug/L		97	65 - 122	9	15
Atrazine	ND		64.0	61.0		ug/L		95	50 - 150	1	20
Benzaldehyde	ND		64.0	48.7		ug/L		76	10 - 150	4	20
Benzo(a)anthracene	ND		32.0	30.1		ug/L		94	43 - 124	10	15
Benzo(a)pyrene	ND		32.0	28.9		ug/L		90	23 - 125	5	15
Benzo(b)fluoranthene	ND		32.0	29.4		ug/L		92	27 - 127	2	15
Benzo(g,h,i)perylene	ND		32.0	29.9		ug/L		93	16 - 147	3	15
Benzo(k)fluoranthene	ND		32.0	30.1		ug/L		94	20 - 124	12	22
Biphenyl	ND		32.0	29.3		ug/L		91	57 - 120	0	20
bis (2-chloroisopropyl) ether	ND		32.0	24.2		ug/L		76	28 - 121	1	24
Bis(2-chloroethoxy)methane	ND		32.0	27.2		ug/L		85	44 - 128	0	17
Bis(2-chloroethyl)ether	ND		32.0	28.0		ug/L		88	45 - 120	3	21
Bis(2-ethylhexyl) phthalate	ND		32.0	31.7		ug/L		99	16 - 150	6	15
Butyl benzyl phthalate	ND		32.0	31.2		ug/L		97	51 - 140	4	16
Caprolactam	ND		64.0	22.4		ug/L		35	10 - 120	2	20
Carbazole	ND	*	32.0	39.6		ug/L		124	16 - 148	4	20
Chrysene	ND		32.0	30.0		ug/L		94	44 - 122	5	15
Dibenz(a,h)anthracene	ND		32.0	31.0		ug/L		97	16 - 139	1	15
Dibenzofuran	ND		32.0	30.2		ug/L		94	60 - 120	3	15
Diethyl phthalate	ND		32.0	25.2		ug/L		79	53 - 133	3	15
Dimethyl phthalate	ND		32.0	21.8		ug/L		68	59 - 123	11	15
Di-n-butyl phthalate	ND		32.0	34.7		ug/L		109	65 - 129	4	15
Di-n-octyl phthalate	ND		32.0	32.0		ug/L		100	16 - 150	3	16
Fluoranthene	ND		32.0	32.8		ug/L		103	63 - 129	6	15
Fluorene	ND		32.0	30.8		ug/L		96	62 - 120	14	15
Hexachlorobenzene	ND	F1	32.0	39.3	F1	ug/L		123	57 - 121	9	15
Hexachlorobutadiene	ND		32.0	27.8		ug/L		87	37 - 120	5	44
Hexachlorocyclopentadiene	ND		32.0	25.8		ug/L		81	21 - 120	1	49
Hexachloroethane	ND		32.0	24.9		ug/L		78	16 - 130	2	46
Indeno(1,2,3-cd)pyrene	ND		32.0	29.7		ug/L		93	16 - 140	4	15
Isophorone	ND		32.0	29.4		ug/L		92	48 - 133	0	17
Naphthalene	ND		32.0	28.8		ug/L		90	45 - 120	3	29
Nitrobenzene	ND		32.0	29.1		ug/L		91	45 - 123	1	24
N-Nitrosodi-n-propylamine	ND		32.0	28.8		ug/L		90	49 - 120	1	31
N-Nitrosodiphenylamine	ND		32.0	28.7		ug/L		90	39 - 138	11	15
Phenanthrene	ND		32.0	34.0		ug/L		106	65 - 122	5	15
Pyrene	ND		32.0	30.2		ug/L		94	58 - 128	5	19

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol	120		41 - 120
2-Fluorobiphenyl	92		48 - 120
2-Fluorophenol	69		35 - 120
Nitrobenzene-d5	89		46 - 120
Phenol-d5	53		22 - 120
p-Terphenyl-d14	68		60 - 148

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-515674/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 515930 — **Prep Batch: 515674**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.015		mg/L		01/31/20 07:57	01/31/20 13:31	1
Chromium	ND		0.0040		mg/L		01/31/20 07:57	01/31/20 13:31	1
Lead	ND		0.010		mg/L		01/31/20 07:57	01/31/20 13:31	1

Lab Sample ID: LCS 480-515674/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 515930 — **Prep Batch: 515674**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.200	0.207		mg/L		103	80 - 120
Chromium	0.200	0.205		mg/L		102	80 - 120
Lead	0.200	0.200		mg/L		100	80 - 120

Lab Sample ID: 480-165720-1 MS — **Client Sample ID: MWN-57A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 515930 — **Prep Batch: 515674**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		0.200	0.218		mg/L		109	75 - 125
Chromium	ND		0.200	0.203		mg/L		101	75 - 125
Lead	ND		0.200	0.209		mg/L		102	75 - 125

Lab Sample ID: 480-165720-1 MSD — **Client Sample ID: MWN-57A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 515930 — **Prep Batch: 515674**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		0.200	0.221		mg/L		111	75 - 125	2	20
Chromium	ND		0.200	0.206		mg/L		103	75 - 125	2	20
Lead	ND		0.200	0.214		mg/L		105	75 - 125	3	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 480-515751/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 515803 — **Prep Batch: 515751**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020		mg/L		01/31/20 11:47	01/31/20 14:19	1

Client: Turnkey Environmental Restoration, LLC
Project/Site: Benchmark - Steel Sun

Job ID: 480-165720-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LCS 480-515751/2-A
Matrix: Water
Analysis Batch: 515803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 515751

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00667	0.00758		mg/L		114	80 - 120		

Lab Sample ID: 480-165720-1 MS
Matrix: Water
Analysis Batch: 515803

Client Sample ID: MWN-57A
Prep Type: Total/NA
Prep Batch: 515751

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		0.00667	0.00728		mg/L		109	80 - 120		

Lab Sample ID: 480-165720-1 MSD
Matrix: Water
Analysis Batch: 515803

Client Sample ID: MWN-57A
Prep Type: Total/NA
Prep Batch: 515751

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00667	0.00733		mg/L		110	80 - 120	1	20

QC Association Summary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-165720-1
Project/Site: Benchmark - Steel Sun

GC/MS VOA

Analysis Batch: 515681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165720-1	MWN-57A	Total/NA	Water	8260C	
480-165720-2	MWN-56A	Total/NA	Water	8260C	
480-165720-3	BLIND DUP	Total/NA	Water	8260C	
480-165720-4	EQUIP BLANK	Total/NA	Water	8260C	
480-165720-5	TRIP BLANK	Total/NA	Water	8260C	
MB 480-515681/7	Method Blank	Total/NA	Water	8260C	
LCS 480-515681/5	Lab Control Sample	Total/NA	Water	8260C	
480-165720-1 MS	MWN-57A	Total/NA	Water	8260C	
480-165720-1 MSD	MWN-57A	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 516031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165720-1	MWN-57A	Total/NA	Water	3510C	
480-165720-2	MWN-56A	Total/NA	Water	3510C	
480-165720-3	BLIND DUP	Total/NA	Water	3510C	
480-165720-4	EQUIP BLANK	Total/NA	Water	3510C	
MB 480-516031/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-516031/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-165720-1 MS	MWN-57A	Total/NA	Water	3510C	
480-165720-1 MSD	MWN-57A	Total/NA	Water	3510C	

Analysis Batch: 516289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165720-1	MWN-57A	Total/NA	Water	8270D	516031
480-165720-2	MWN-56A	Total/NA	Water	8270D	516031
480-165720-3	BLIND DUP	Total/NA	Water	8270D	516031
MB 480-516031/1-A	Method Blank	Total/NA	Water	8270D	516031
LCS 480-516031/2-A	Lab Control Sample	Total/NA	Water	8270D	516031
480-165720-1 MS	MWN-57A	Total/NA	Water	8270D	516031
480-165720-1 MSD	MWN-57A	Total/NA	Water	8270D	516031

Analysis Batch: 516295

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165720-4	EQUIP BLANK	Total/NA	Water	8270D	516031

Metals

Prep Batch: 515674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165720-1	MWN-57A	Total/NA	Water	3005A	
480-165720-2	MWN-56A	Total/NA	Water	3005A	
480-165720-3	BLIND DUP	Total/NA	Water	3005A	
480-165720-4	EQUIP BLANK	Total/NA	Water	3005A	
MB 480-515674/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-515674/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-165720-1 MS	MWN-57A	Total/NA	Water	3005A	
480-165720-1 MSD	MWN-57A	Total/NA	Water	3005A	

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-165720-1
Project/Site: Benchmark - Steel Sun

Metals

Prep Batch: 515751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165720-1	MWN-57A	Total/NA	Water	7470A	
480-165720-2	MWN-56A	Total/NA	Water	7470A	
480-165720-3	BLIND DUP	Total/NA	Water	7470A	
480-165720-4	EQUIP BLANK	Total/NA	Water	7470A	
MB 480-515751/1-A	Method Blank	Total/NA	Water	7470A	
LCS 480-515751/2-A	Lab Control Sample	Total/NA	Water	7470A	
480-165720-1 MS	MWN-57A	Total/NA	Water	7470A	
480-165720-1 MSD	MWN-57A	Total/NA	Water	7470A	

Analysis Batch: 515803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165720-1	MWN-57A	Total/NA	Water	7470A	515751
480-165720-2	MWN-56A	Total/NA	Water	7470A	515751
480-165720-3	BLIND DUP	Total/NA	Water	7470A	515751
480-165720-4	EQUIP BLANK	Total/NA	Water	7470A	515751
MB 480-515751/1-A	Method Blank	Total/NA	Water	7470A	515751
LCS 480-515751/2-A	Lab Control Sample	Total/NA	Water	7470A	515751
480-165720-1 MS	MWN-57A	Total/NA	Water	7470A	515751
480-165720-1 MSD	MWN-57A	Total/NA	Water	7470A	515751

Analysis Batch: 515930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-165720-1	MWN-57A	Total/NA	Water	6010C	515674
480-165720-2	MWN-56A	Total/NA	Water	6010C	515674
480-165720-3	BLIND DUP	Total/NA	Water	6010C	515674
480-165720-4	EQUIP BLANK	Total/NA	Water	6010C	515674
MB 480-515674/1-A	Method Blank	Total/NA	Water	6010C	515674
LCS 480-515674/2-A	Lab Control Sample	Total/NA	Water	6010C	515674
480-165720-1 MS	MWN-57A	Total/NA	Water	6010C	515674
480-165720-1 MSD	MWN-57A	Total/NA	Water	6010C	515674

Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-165720-1
Project/Site: Benchmark - Steel Sun

Client Sample ID: MWN-57A
Lab Sample ID: 480-165720-1
Date Collected: 01/29/20 11:10
Matrix: Water
Date Received: 01/30/20 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	515681	01/31/20 13:28	OMI	TAL BUF
Total/NA	Prep	3510C			516031	02/04/20 07:24	SMP	TAL BUF
Total/NA	Analysis	8270D		1	516289	02/05/20 16:58	JMM	TAL BUF
Total/NA	Prep	3005A			515674	01/31/20 07:57	EMB	TAL BUF
Total/NA	Analysis	6010C		1	515930	01/31/20 14:26	LMH	TAL BUF
Total/NA	Prep	7470A			515751	01/31/20 11:47	BMB	TAL BUF
Total/NA	Analysis	7470A		1	515803	01/31/20 14:22	BMB	TAL BUF

Client Sample ID: MWN-56A
Lab Sample ID: 480-165720-2
Date Collected: 01/29/20 12:25
Matrix: Water
Date Received: 01/30/20 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	515681	01/31/20 13:51	OMI	TAL BUF
Total/NA	Prep	3510C			516031	02/04/20 07:24	SMP	TAL BUF
Total/NA	Analysis	8270D		1	516289	02/05/20 17:26	JMM	TAL BUF
Total/NA	Prep	3005A			515674	01/31/20 07:57	EMB	TAL BUF
Total/NA	Analysis	6010C		1	515930	01/31/20 14:45	LMH	TAL BUF
Total/NA	Prep	7470A			515751	01/31/20 11:47	BMB	TAL BUF
Total/NA	Analysis	7470A		1	515803	01/31/20 14:27	BMB	TAL BUF

Client Sample ID: BLIND DUP
Lab Sample ID: 480-165720-3
Date Collected: 01/29/20 09:00
Matrix: Water
Date Received: 01/30/20 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	515681	01/31/20 14:14	OMI	TAL BUF
Total/NA	Prep	3510C			516031	02/04/20 07:24	SMP	TAL BUF
Total/NA	Analysis	8270D		1	516289	02/05/20 17:55	JMM	TAL BUF
Total/NA	Prep	3005A			515674	01/31/20 07:57	EMB	TAL BUF
Total/NA	Analysis	6010C		1	515930	01/31/20 14:59	LMH	TAL BUF
Total/NA	Prep	7470A			515751	01/31/20 11:47	BMB	TAL BUF
Total/NA	Analysis	7470A		1	515803	01/31/20 14:28	BMB	TAL BUF

Client Sample ID: EQUIP BLANK
Lab Sample ID: 480-165720-4
Date Collected: 01/29/20 10:20
Matrix: Water
Date Received: 01/30/20 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	515681	01/31/20 14:37	OMI	TAL BUF
Total/NA	Prep	3510C			516031	02/04/20 07:24	SMP	TAL BUF
Total/NA	Analysis	8270D		1	516295	02/06/20 00:30	JMM	TAL BUF
Total/NA	Prep	3005A			515674	01/31/20 07:57	EMB	TAL BUF
Total/NA	Analysis	6010C		1	515930	01/31/20 15:03	LMH	TAL BUF

Lab Chronicle

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-165720-1
Project/Site: Benchmark - Steel Sun

Client Sample ID: EQUIP BLANK
Lab Sample ID: 480-165720-4

Date Collected: 01/29/20 10:20
Matrix: Water
Date Received: 01/30/20 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			515751	01/31/20 11:47	BMB	TAL BUF
Total/NA	Analysis	7470A		1	515803	01/31/20 14:30	BMB	TAL BUF

Client Sample ID: TRIP BLANK
Lab Sample ID: 480-165720-5

Date Collected: 01/29/20 08:00
Matrix: Water
Date Received: 01/30/20 12:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	515681	01/31/20 15:00	OMI	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-165720-1
Project/Site: Benchmark - Steel Sun

Laboratory: Eurofins TestAmerica, Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-20
California	State	2931	04-01-20 *
Connecticut	State	PH-0568	09-30-20
Florida	NELAP	E87672	06-30-20
Georgia	State	10026 (NY)	03-31-20 *
Georgia (DW)	State	956	03-31-20 *
Illinois	NELAP	200003	09-30-19 *
Iowa	State	374	02-28-21
Kentucky (DW)	State	90029	12-31-20 *
Kentucky (UST)	State	30	03-31-20 *
Kentucky (WW)	State	KY90029	12-31-20
Louisiana	NELAP	02031	06-30-20
Maine	State	NY00044	12-04-20
Maryland	State	294	03-31-20 *
Massachusetts	State	M-NY044	06-30-20
Michigan	State	9937	03-31-20 *
Minnesota	NELAP	1524384	12-31-20
New Hampshire	NELAP	2337	11-17-19 *
New Jersey	NELAP	NY455	06-30-20
New York	NELAP	10026	04-01-20 *
North Dakota	State	R-176	03-31-20 *
Oklahoma	State	9421	09-01-20
Oregon	NELAP	NY200003	06-10-20
Pennsylvania	NELAP	68-00281	07-31-20
Rhode Island	State	LAO00328	12-30-20 *
Tennessee	State	02970	03-31-20 *
Texas	NELAP	T104704412-18-10	08-01-20
USDA	US Federal Programs	P330-18-00039	02-06-21
Virginia	NELAP	460185	09-14-20
Washington	State	C784	02-10-20 *
Wisconsin	State	998310390	08-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-165720-1
Project/Site: Benchmark - Steel Sun

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
7470A	Mercury (CVAA)	SW846	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
7470A	Preparation, Mercury	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Turnkey Environmental Restoration, LLC
Job ID: 480-165720-1
Project/Site: Benchmark - Steel Sun

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-165720-1	MWN-57A	Water	01/29/20 11:10	01/30/20 12:05	
480-165720-2	MWN-56A	Water	01/29/20 12:25	01/30/20 12:05	
480-165720-3	BLIND DUP	Water	01/29/20 09:00	01/30/20 12:05	
480-165720-4	EQUIP BLANK	Water	01/29/20 10:20	01/30/20 12:05	
480-165720-5	TRIP BLANK	Water	01/29/20 08:00	01/30/20 12:05	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: CAROLINE BUKOWSKI	Lab PM: Fischer, Brian J	Carrier Tracking No(s):	COC No: 480-141214-24684.1
Client Contact: Mr. Tom Forbes	Phone: 716-856-0599	E-Mail: brian.fischer@testamericainc.com		Page: Page 1 of 1
Company: Benchmark Env. Eng. & Science, PLLC				Job #:
Address: 2558 Hamburg Turnpike Suite 300	Due Date Requested:			
City: Lackawanna	TAT Requested (days): Standard			
State, Zip: NY, 14218				
Phone:	PO #: Purchase Order not required			
Email: tforbes@benchmarkturnkey.com	WO #:			
Project Name: Benchmark - Steel Sun 2 w/QC	Project #: 48017019			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - (MOD) TCL SVOA - BN only	6010C, 7470A	8260C - TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	A		
MWN-57A	1/29/20	1110	G	Water			X	X	X		
MWN-56A		1225		Water			X	X	X		
MS		1110		Water			X	X	X		
MSD		1110		Water			X	X	X		
Blind Dup		900		Water			X	X	X		
Equip Blank		1020		Water			X	X	X		
Trip Blank		8:00		Water					X		

480-165720 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		1/29/20 1300	BMTK		1/30/20 9:25	TAB
2		1/30/20 12:05	TAB		1-30-20 12:05	ETAB
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: ICE #1 24

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: Turnkey Environmental Restoration, LLC

Job Number: 480-165720-1

Login Number: 165720

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Yeager, Brian A

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ETAB
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	