PERIODIC REVIEW REPORT (2015)
PRIMOSHIELD INC.
NYSDEC SITE NO. 633027

WORK ASSIGNMENT NO. D007619-18

Prepared for:

New York State Department of Environmental Conservation
Albany, New York

Prepared by:

MACTEC Engineering and Consulting, P.C.
Portland, Maine

MACTEC: 3612122251

JANUARY 2016

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TABLE OF CONTENTS

LIST OF FIGURES

Figure

LIST OF TABLES

Table

GLOSSARY OF ACRONYMS AND ABBREVIATIONS

bgs	below ground surface
EC	engineering controls
GWCS	groundwater treatment collection system
IC	institutional controls
LTM	long term monitoring
MACTEC	MACTEC Engineering and Consulting, P.C.
mg/L	milligram(s) per liter
NYSDEC	New York State Department of Environmental Conservation
POTW	Publicly Owned Treatment Works
PRR	Periodic Review Report
RAO	remedial action objective
RI	remedial investigation
ROD	Record of Decision
Site	Primoshield, Incorporated site
SM	site management
SMP	site management plan
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound

EXECUTIVE SUMMARY

The Primoshield, Incorporated site (Site No. 633027; hereinafter referred to as the Site) is a 2.4 acre former metal electroplating facility located at 1212 St. Vincent Street in Utica, Oneida County, New York. In March 1995 a Record of Decision (ROD) was signed for the Site; the ROD established the following Remedial Action Objectives (RAOs):

- Reduce, control, or eliminate the contamination present within the soils on Site.
- Eliminate the threat to surface waters by eliminating future contaminated surface water run-off from the contaminated soils on Site, and potential future discharge from site sewer lines to the Oneida County Sewer System.
- Eliminate the potential for direct human contact with the contaminated soils onsite.
- Mitigate the impacts of contaminated groundwater to the environment and to nearby residents.
- Prevent to the extent possible migration of contaminants in the soils to groundwater.
- Provide for attainment of standards, criteria, and guidance values for groundwater quality at the limits of the area of concern.
- Remediate the Site and adjoining property to provide for future delisting and unrestricted use.

A Site Management (SM) Plan (SMP) has been created which outlines the controls established to meet the RAOs. Because remaining contaminated groundwater exists beneath the Site, engineering controls (ECs)/institutional controls are required to protect human health and the environment. EC systems at the Site include: the groundwater collection system, site access controls, and groundwater monitoring wells. The SMP includes a soil excavation plan because post remediation sampling was not conducted to document remaining soil conditions; therefore, contaminant concentrations greater than the Soil Cleanup Objectives may be present at the Site. The remedial processes will be considered to be completed when effectiveness monitoring indicates that the remedy has achieved the RAOs identified by the ROD.

This Periodic Review Report summarizes the SM activities completed at the Site during 2015 including long term monitoring, semiannual inspections, and discharge monitoring. Additional activities conducted during the reporting period included: the installation of a groundwater monitoring point to evaluate groundwater quality downgradient of the collection trench. During

the reporting period, SM requirements were met. Contaminants of concern at the Site include volatile organic compounds (VOCs), cadmium, chromium, lead, nickel and cyanide. The groundwater collection system discharge monitoring sample results from May and September 2015 showed detections of VOCs, nickel, and zinc (zinc detected in September only) below the discharge criteria. MACTEC Engineering and Consulting P.C. concludes that the remedy for the Site is appropriate.

1.0 SITE HISTORY

Primoshield, Incorporated (Inc.) (the Site), a former metal electroplating facility, is located at 1212 St. Vincent Street, Utica, New York (Figure 1.1). The 2.4 acre Site is comprised of four parcels located between Conkling Avenue and St. Vincent Street. The City of Utica owns two parcels totaling approximately 0.82 acres which are enclosed by a chain link fence. The fenced portion of the Site is designated as 1223 Conkling Avenue (tax map parcel number 41) and as 1212 St. Vincent Street (tax map parcel number 33), and is located in a mixed commercial/residential area. The St. Agnes R.C. cemetery is located immediately southeast of the Site. The Mohawk River is located down-gradient, approximately one and one half miles to the north of the Site. Figure 1.2 shows the current Site features.

Primoshield, Inc. operated a metal electroplating facility from the early 1970's until August 1985. The property consisted of a factory (production building), a small laboratory, and a small storage trailer, all of which were in an advanced state of disrepair at the time the Site was abandoned in 1985. Additionally, a large number of drums and open vats containing chemicals were left behind. Later in that year there was a fire at the facility. The local citizens communicated their health concerns to the New York State Department of Environmental Conservation (NYSDEC), and samples collected in December 1985 showed a high risk to the public from the Site. Consequently, on March 12, 1986, NYSDEC formally petitioned the United States Environmental Protection Agency (USEPA) to remediate the Site, including but not limited to the cleanup and removal of all the surficial and containerized hazardous wastes as well as the installation of a fence and gate system to secure the Site.

Following the fire in 1985, the facility was abandoned by its owners, and the City of Utica assumed ownership of the Site through tax foreclosure. In December 1989, NYSDEC signed a negotiated Consent Order with the City of Utica in which the city agreed to perform a Remedial Investigation (RI)/Feasibility Study to further investigate and remediate residual hazardous waste contamination remaining at the Site. The RI identified cadmium, chromium, nickel, and cyanide in surficial soils and trichloroethene, 1,1,1-trichloroethane, 1,1-dichloroethane, and chromium in groundwater at the Site. The site was re-assigned by NYSDEC as a State Superfund project in November 1996 because the City of Utica had inadequate funds to complete the remediation.

According to the Record of Decision (ROD) (NYSDEC, 1995), signed on March 30, 1995, the preferred remedy was:

- Excavation and disposal of hazardous and non-hazardous soils
- Building demolition,
- Groundwater collection trench installation
- Operation, maintenance, and monitoring of a groundwater collection system, the purpose of which is to intercept, collect, and discharge contaminated groundwater.

The originally installed groundwater treatment system was designed to intercept and collect the plume of contaminated groundwater and treat the water by carbon filtration, with effluent discharged to the Publicly Owned Treatment Works (POTW). However, because contaminated groundwater concentrations decreased to levels below the discharge criteria, the carbon filters have not been in use since 2001, and the groundwater treatment system continues to be used for groundwater collection to intercept and collect contaminated groundwater. Site Management (SM) is currently underway and consists of:

- Semi-annual site inspections
- Semi-annual POTW discharge monitoring
- Long term monitoring (LTM) consisting of groundwater monitoring every 15 months.

In 2015, two site inspections were performed and LTM sampling was conducted. Also, a groundwater monitoring well (GW-01) was installed down gradient of the collection trench to obtain data for evaluating the effectiveness of the groundwater collection system.

2.0 SITE MANAGMENT STATUS

This Periodic Review Report (PRR) documents SM activities from January 2015 through December 2015 and includes:

- Inspection, Discharge Monitoring, and Maintenance – May (MACTEC 2015a)
- Inspection, Discharge Monitoring, and Maintenance – September (MACTEC 2015b)
- LTM - September

This PRR was completed using site-specific documentation including the Site's ROD (NYSDEC, 1995), the SM Plan (SMP) (MACTEC Engineering and Consulting, P.C. [MACTEC], 2013), periodic site inspection and discharge monitoring reports (MACTEC, 2015a and MACTEC, 2015b). This review was conducted to confirm that controls established according to the SMP are operational and effective, that the SM requirements are being implemented and conducted accordingly, and that the remedy remains protective of the environment and/or public health.

SM requirements, as described in the SMP, are outlined in Table 2.1. These include:

- Semi-annual inspections of institutional/engineering controls (IC/ECs)
- Semi-annual discharge monitoring
- LTM of groundwater from existing monitoring wells, see Figure 1.2

Existing wells are monitored to evaluate contaminant of concern concentrations (i.e., cadmium, chromium, lead, nickel, cyanide and volatile organic compounds [VOCs]) in groundwater compared to the Site cleanup goals (New York State Class GA Standards [6 New York Codes, Rules and Regulations Parts 700-705].

A summary of SM activities completed during the reporting period and an evaluation of the performance, protectiveness, and effectiveness of the remedy is provided below.

2.1 INSTITUTIONAL CONTROLS/ENGINEERING CONTROLS PLAN

Because contaminated groundwater exists beneath the ground surface, IC/ECs are required to protect human health and the environment. EC systems at the Site include: the groundwater collection system, site access controls, and groundwater monitoring wells.

Restrictions are imposed pursuant to the SMP and include:

- Allow access to the Site for operation of the groundwater collection system (GWCS)
- Groundwater extraction, for anything other than collection at the GWCS, is prohibited
- Animal production for human consumption is prohibited
- Vegetable gardens are prohibited onsite unless planted in gardens where soil achieves the residential use soil clean-up objectives
- Site use is limited to industrial uses only
- Site owner(s) must follow the requirements of this SMP
- Excavation on the property is prohibited without written permission from the NYSDEC.

Based on the inspections conducted in 2015, there has not been a change in property use and the Site is in compliance with these ICs. Inspections of the ECs and semi-annual discharge monitoring were conducted in May and September. The ECs are in place; EC observations made during 2015 include:

- During the May and September inspections, infringing vegetation was removed from the perimeter fence.
- During the May inspection a hole was noted in the northeast section of the perimeter fence. During the September inspection an additional area of damaged fence was noted along St Vincent Street where construction vehicles had caused considerable damage. The NYSDEC is coordinating repairs with the City of Utica for the section of fence along St. Vincent Street (see Subsection 2.3 below).
- Covers for the five collection trench cleanouts were replaced. However, due to settlement of the concrete the northernmost cleanout cover needs to be replaced with a lower profile cover so that the protective steel cap will seat properly.

Inspection forms, Site photos, field data records, and laboratory results are provided in Appendix A (May 2015) and Appendix B (September 2015).

2.2 LONG TERM MONITORING PLAN

The requirement for the groundwater monitoring program in the SMP includes groundwater elevation monitoring, monitoring well inventory and repair, and groundwater sampling and analysis. Monitoring locations have been sampled since 1999 and are currently scheduled for sampling at 15 month intervals. The Site monitoring locations are shown on Figure 1.2; Table 2.2 summarizes the LTM sampling and analysis plan.

2.2.1 Groundwater Elevation Monitoring

Groundwater elevations were measured in September 2015 and compared to water level measurements from previous years (Table 2.3). Interpreted shallow groundwater flow direction based on the September elevations is to the northeast, and measurements from overburden monitoring wells are approximately 0.7 to 2.4 feet lower than those reported in May 2015, reflecting the unusually dry regional conditions.

2.2.2 Monitoring Well Inventory and Repair

Monitoring well inspections were conducted in September 2015. The monitoring wells were observed to be in good condition (see Appendix B).

2.2.3 LTM Sampling and Analysis

Environmental groundwater samples were collected in September 2015 as part of the LTM program. Shallow groundwater contamination at concentrations exceeding Class GA standards was observed in monitoring wells P-103 and P-107S shown on Figure 2.1. A Category A data validation was conducted for the LTM analytical data and is provided Appendix C; results for contaminants detected in one or more samples is summarized on Table 2.4.

Trend plots (i.e. concentration vs. time plots) were prepared for Site contaminants of concern detected in monitoring wells for the period beginning December 2011 and ending September 2015 (Appendix D). Trend plots were prepared to visually evaluate trends, which are generally

decreasing, in contaminant concentrations following the startup of the groundwater collection system in 2012. Trend plot observations are as follows:

P-103 Organics

- 1,1,1-TCA – The reported concentration decreased as noted in the first LTM conducted following groundwater collection system startup, and has remained at relatively consistent concentrations since.
- 1,1-DCA – The reported concentration increased after system startup, however, concentrations have remained relatively consistent since.
- 1,2-DCA – The reported concentration increased after system startup, however, concentrations have remained relatively consistent since.
- TCE – The reported concentration decreased after the system startup, and concentrations have remained relatively consistent since.

P-106S Organics

- 1,1,1-TCA – The reported concentration decreased as noted in the first LTM conducted following groundwater collection system startup, then slightly rebounded; concentrations remain relatively consistent.
- TCE – The reported concentration increased as noted in the first LTM conducted following groundwater collection system startup; concentrations remain relatively consistent.

P-107S Organics

- 1,1,1-TCA – The reported concentration decreased as noted in the first LTM conducted following groundwater collection system startup, and has remained at relatively consistent concentrations since.
- 1,1-DCA – The reported concentration decreased after the system startup, and concentrations have remained relatively consistent since.
- TCE – The reported concentration decreased after the system startup, and concentrations have remained relatively consistent since.

P-107D Metals

- Nickel– the reported concentration increased as noted in the first LTM conducted following groundwater collection system startup, and has decreased to non-detect in the latest groundwater sampling event.

P-107S Metals

- Nickel– The reported concentration decreased as noted in the first LTM conducted following groundwater collection system startup, and has remained at relatively consistent concentrations since.
- Zinc– the reported concentration has been consistently decreasing since the system startup.

2.2.4 Performance Monitoring

Discharge of effluent from the groundwater collection system is permitted by the Oneida County Department of Water Quality & Water Pollution Control. Groundwater Remediation Discharge Permit No. GW-040 establishes semiannual monitoring requirements and discharge criteria. During the reporting period, effluent samples were collected (in May and September) and analyzed by USEPA Methods: VOCs by 624; copper, nickel and zinc by 200.7, cyanide by 9012B, and pH by SM4500-H+B. Discharge reports were submitted to the Oneida County Sewer District for both sampling events (OCSD, 2015a; OCSC 2015b). The following compounds were detected; as shown, concentrations did not exceed the discharge criteria.

POLLUTANT/PARAMETER	PERMITTED LIMIT	May 2015 Results	September 2015 Results
pH (units)	5.0-12.5	7.21	7.06
Cadmium, mg/L	1	0.005 U	0.005 U
Chromium, mg/L	5	0.010 U	0.010 U
Copper, mg/L	3	0.020 U	0.020 U
Lead, mg/L	5	0.050 U	0.050 U
Nickel, mg/L	2	0.044	0.068
Zinc, mg/L	4	0.020 U	0.021
Cyanide, mg/L	3	0.010 U	0.010 U
Total VOCs, mg/L	2.0*	0.026	0.027

*Total Volatile Organics is the sum of all detectable VOCs substances as determined using the USEPA Method 624.

U= Not Detected; value represents quantization limit.

mg/L = milligrams per liter

2.3 OPERATION AND MAINTENANCE PLAN

According to the SMP, site wide inspections are to be conducted semi-annually. The semi-annual inspections include the inspection and maintenance of the perimeter fence, and inspection and

monitoring of the groundwater collection system. Inspections were conducted in May and September, and LTM was also conducted in September as described above.

The reading from the flow totalizer was 1,865,200 gallons in May and 1,974,500 gallons in September (Appendix A and B).

NYSDEC project manager Will Welling conducted a site visit on September 8. There appeared to be some fence damage to the perimeter fence at the end of St. Vincent (Appendix E). Mr. Welling noted that material was being staged at the end of St. Vincent St. for sewer repairs in the direct area. He discussed the fence damage with Ms. Stephanie Wurz, City of Utica engineer, who was overseeing Marcellus Construction Infrastructure conducting the sewer repairs. He told Ms. Wurz that the fence belongs to the City.

2.4 ADDITIONAL SITE MANAGEMENT ACTIVITIES

On September 8, one direct push boring was installed (GW-01) and completed with a micro-well downgradient from groundwater collection trench #2, between the collection trench and the residence to the north of the Site. The well is located approximately ten feet from the trench and 20 feet from the residence. The objective of the well installation is to collect data for evaluating the effectiveness of the treatment system in treating VOC concentrations in groundwater which may have potential to migrate via soil vapor into the abutting residence. The boring was advanced to 20 feet below ground surface (bgs) and logged utilizing the Unified Soil Classification System. The soil boring log is included in Appendix C.

A micro-well was installed in the boring, constructed with 1 inch ID Schedule 40 polyvinyl chloride and a 10 foot screen from approximately eight to 18 feet bgs; the well construction diagram is included in Appendix D. Water was not observed in the micro-well directly after installation, likely due to the extremely dry regional conditions. The well was checked again the following morning; no water was observed. On September 10, approximately 1.6 feet of water was measured in the well. The well was developed by surging and purging until dry. Three hours after development, a groundwater grab sample of the recharge water was collected and sent to ALS labs of Rochester NY for analysis by USEPA method 8260B.

Results from the GW-01 grab sample show acetone was detected; this result is unlikely site related as acetone is a common laboratory contaminant and not a contaminant of concern for the site. There were no other VOCs detected above reporting limits during this sampling round. Data validation (Category A) for the laboratory analytical data from GW-01 is included in Appendix C.

Water samples from the collection trench cleanouts scheduled for collection to aid in evaluating current VOC levels in the trenches compared to the newly installed micro well were not obtained due to the dry regional conditions (i.e. water was not observed in the cleanouts).

3.0 CONCLUSIONS AND RECOMMENDATIONS

Current SM activities being conducted are in compliance with the requirements of the Site's SMP. Based on a review of the data collected during this reporting period, the remedy continues to be protective of public health and the environment and is in compliance with the remedial action objectives (RAOs) established in the ROD.

The results of sample analyses shows that effluent from the groundwater collection system met the requirements of the Oneida County Department of Water Quality & Pollution Control discharge permit at the time of sample collection. Site inspections conducted in 2015 indicate that the collection system is functioning properly, and that ICs are in place and effective.

The groundwater collection system is currently operating and achieving its objective of intercepting, collecting, and discharging contaminated groundwater.

Based on the findings presented in this PRR, the following recommendations are provided:

ICs/ECs Plan

- Continue to conduct inspections of the facility as required by the SMP to ensure the EC/ICs are in place and are effective.

Monitoring Plan

- Continue to conduct performance monitoring of the groundwater collection system discharge as required by the POTW permit.
- Conduct LTM to evaluate the effectiveness of the groundwater collection system as required by the SMP.
- Discontinue sampling at monitoring wells P-101 S/D and P-108 and consider decommissioning these wells. These are background wells used to evaluate groundwater conditions upgradient of the Site; however, P-105 is also representative of background conditions and is closer to the Site.
- Revise the LTM plan to include new monitoring well GW-01 to aid in evaluating the effectiveness of the groundwater collection system.

Site Management Plan:

- The SMP should be updated to reflect new information and changes at the Site since 2013 including:
    - A property boundary survey
    - Installation of monitoring well GW-01
    - Changes to the LTM

ROD Remedial Action Objectives:

Based on a review of available historical documentation, the following RAOs for the Site have been achieved:

- Reduce, control or eliminate the contamination present within the soils on site.
- Eliminate the threat to surface waters by eliminating future contaminated surface water run-off from the contaminated soils on site, and potential future discharge from site sewer lines to the Oneida County Sewer System.
- Prevent, to the extent possible, migration of contaminants in the soils to groundwater.

Based on the findings presented herein, adherence to the SMP for the Site is effective in monitoring the status of the following RAOs:

- Eliminate the potential for direct human contact with the contaminated soils onsite.
- Mitigate the impacts of contaminated groundwater to the environment and to nearby residents.

Based on a review of available historical data the following RAOs have not been achieved:

- Provide for attainment of standards, criteria, and guidance values for groundwater quality at the limits of the area of concern (Table 2.4).
- Remediate the Site and adjoining property to provide for future delisting and unrestricted use.

To meet these RAOs, the following is recommended:

- Collect soil samples onsite to evaluate if the current concentrations of site contaminants of concern meet the Soil Clean-up Objectives for unrestricted use.
- Effectiveness evaluation should continue in 2016. Groundwater samples should be collected from the newly installed monitoring well (GW-01) to evaluate concentrations of VOCs in groundwater relative to nearby receptors and the potential for exposure from groundwater or soil vapor intrusion. If results of this evaluation show groundwater concentrations below the GA standards, consider discontinuing sampling P-104 as part of the LTM.

4.0 REFERENCES

MACTEC Engineering and Consulting, P.C. (MACTEC), 2015a. Site Inspection and Discharge Monitoring Report – May 2015, Primoshield Plating Site, Site Number 633027, City of Utica Oneida County, New York. June 19, 2015.

MACTEC, 2015b. Site Inspection and Discharge Monitoring Report – Sept 2015, Primoshield Plating Site, Site Number 633027, City of Utica Oneida County, New York. –October 19, 2015.

MACTEC, 2013. Site Management Plan, Primoshield Plating Site, Site Number 633027, City of Utica Oneida County, New York. August, 2013.

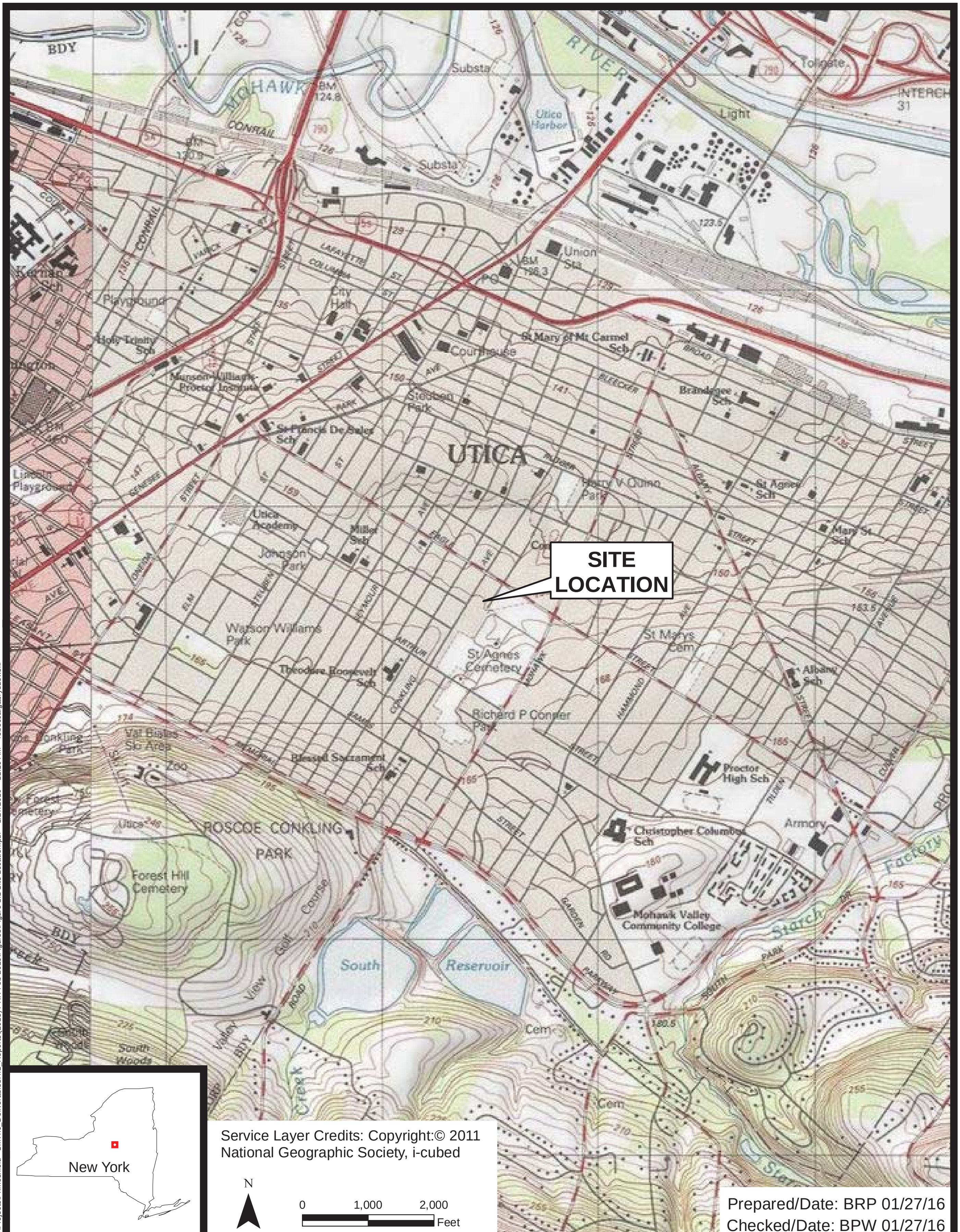
New York State Department of Environmental Conservation (NYSDEC), 1995. Record of Decision, Primoshield Plating Site, Site Number 633027, City of Utica Oneida County, New York. March, 1995.

NYSDEC, 2015. Primoshield Site Visit, Primoshield Plating Site, Site Number 633027, City of Utica Oneida County, New York. September, 2015.

Oneida County Sewer District (OCSD), 2015a. Semiannual Discharge Results Report. June 16, 2015.

OCSD, 2015b. Semiannual Discharge Results Report. October 9, 2015.

FIGURES



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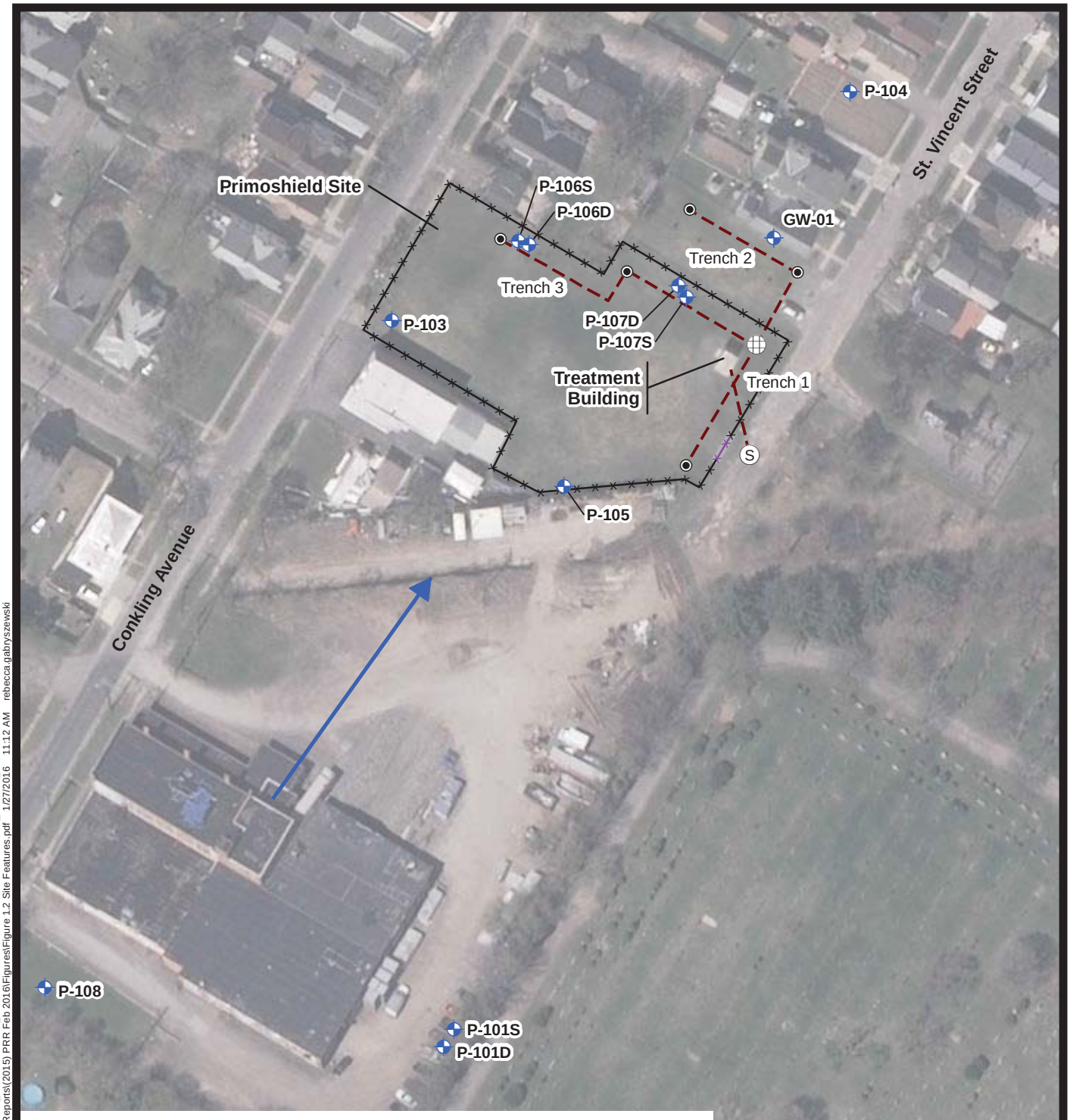
SITE LOCATION

Project 3612122251 Figure 1.1



Legend

- Cleanout access point
- 4-foot diameter manhole
- Discharge to sanitary sewer
- Groundwater Monitoring Well
- Perimeter Fence
- Perimeter Fence Gate
- Approximate GW flow direction
- Underground collection trench

N

0 50 100 Feet

Oneida County color digital orthoimagery (2008) from New York State GIS Clearinghouse at: http://www.nysgis.state.ny.us

Prepared/Date: BRP 01/27/16
Checked/Date: RLG 01/27/16

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UTICA, NEW YORK

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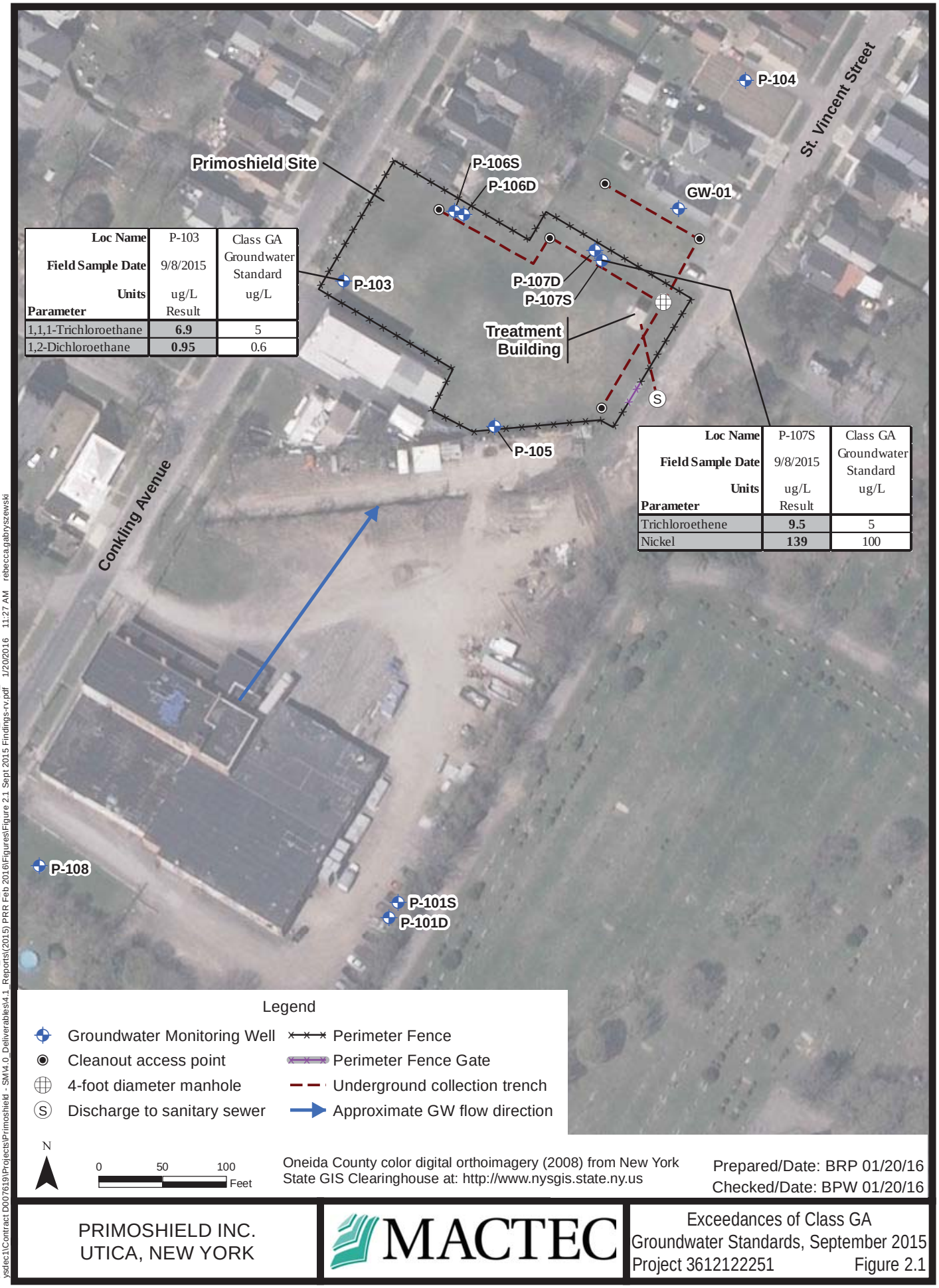
SITE FEATURES

Project 3612122251 Figure 1.2



Loc Name	P-103	Class GA Groundwater Standard
Field Sample Date	9/8/2015	
Units	ug/L	ug/L
Parameter	Result	
1,1,1-Trichloroethane	**6.9**	5
1,2-Dichloroethane	**0.95**	0.6

Loc Name	P-107S	Class GA Groundwater Standard
Field Sample Date	9/8/2015	
Units	ug/L	ug/L
Parameter	Result	
Trichloroethene	**9.5**	5
Nickel	**139**	100

Oneida County color digital orthoimagery (2008) from New York State GIS Clearinghouse at: http://www.nysgis.state.ny.us

Prepared/Date: BRP 01/20/16
Checked/Date: BPW 01/20/16

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Exceedances of Class GA Groundwater Standards, September 2015
Project 3612122251 Figure 2.1

TABLES

Table 2.1: Site Management Plan Requirements
(Inspection and Long Term Monitoring)

Component	Action	Required Frequency
TREATMENT SYSTEM		
Treatment System	Inspection	Semi-annually in spring and summer
Effluent	Grab sample	Semi-annually in spring and summer
ENVIRONMENTAL MONITORING		
Groundwater Monitoring Program		
10 monitoring locations	Low flow sampling	Every 15 months (December 2016, March 2018)
Groundwater Monitoring System	Inspection	Every 15 months (December 2016, March 2018)

Table 2.2: Sampling and Analysis Plan

Performance Monitoring - Semi-Annual		
Sample Locations	**pH (SM 4500-H+) Metals (200.7)* Cyanide (9012B)**	**VOC (624)**
Effluent	X	X
Monitoring Wells - 15 Month**		
Sample Locations	**Metals (6010B)**	**VOC (8260B)**
P-103	X	X
P-104	X	X
P-105	X	X
P-106S	X	X
P-106D	X	X
P-107S	X	X
P-107D	X	X
P-108	X	X
P-101S	X	X
P-101D	X	X

Notes:
*- Cadmium, chromium, copper, lead, nickel and zinc.
An 'X' marked in a column indicates the analysis to be performed for that sample location.
VOCs = Volatile Organic Compounds

**-Samples collected in September 2015; next groundwater monitoring event is December 2016.

Table 2.3: Summary of Monitoring Well Measurements
Primoshield Site 1212 St Vincent Street, Utica, NY.

Well ID	Ground Elevation (feet msl)	Estimated Measurement Point Elevation (feet msl)	Stickup on Casing (feet)	TOC to TOR (feet)	12/20/2011 Depth to BOW (feet TOR)	12/20/2011 Water Level (feet TOR)	12/11/2012 Water Level (feet TOR)	3/27/2013 Water Level (feet TOR)	6/23/2014 Water Level (feet TOR)	9/8/2015 Water Level (feet TOR)	12/20/2011 Water Elevation (feet msl)	12/11/2012 Water Elevation (feet msl)	3/27/2013 Water Elevation (feet msl)	6/23/2014 Water Elevation (feet msl)	9/8/2015 Water Elevation (feet msl)
P-101-S	525.0	Unknown	NM	NM	18.5	>18.45 (DRY)	>18.45 (DRY)	>18.45 (DRY)	>18.45 (DRY)	17.55	NA	NA	NA	NA	NA
P-101-D	525.0	527.2	2.6	0.39	86.9	28.18	28.48	28.07	28.30	28.67	499.03	498.73	499.14	520.14	498.54
P-103	521.8	524.3	2.8	0.34	18.1	7.04	6.74	6.77	7.07	8.47	517.22	517.52	517.49	518.13	515.79
P-104	516.1	518.0	2.2	0.33	17.4	6.15	4.25	5.22	6.13	7.23	511.82	513.72	512.75	513.40	510.74
P-105	522.7	525.1	2.9	0.48	18.2	4.75	3.85	4.35	4.57	5.3	520.37	521.27	520.77	517.20	519.82
P-106-S	521.1	524.8	4.0	0.27	18.5	7.38	5.81	6.62	7.92	9.98	517.45	519.02	518.21	495.86	514.85
P-106-D	520.8	524.3	3.9	0.39	77.6	28.81	29.11	28.73	28.97	29.16	495.50	495.20	495.58	516.20	495.15
P-107-S	519.4	522.1	2.9	0.21	17.2	6.43	4.89	6.43	8.11	10.17	515.66	517.20	515.66	492.64	511.92
P-107-D	519.3	522.0	3.2	0.50	77.7	29.28	29.57	29.13	29.45	29.56	492.72	492.43	492.87	515.99	492.44
P-108	530.0	532.2	2.5	0.27	18.7	5.91	5.96	5.31	6.01	8.43	526.32	526.27	526.92	532.23	523.80

Notes:
1) Ground Elevation from monitoring well logs included in Monitoring Plan for Primoshield Plating January 2004.
2) Measurement Point Elevation calculated using the ground elevation and field measurements of casing stickup and the distance from the top of riser to the top of casing; therefore, the water elevations are approximate
3) NM = Not measured

Table 2.4: Summary of Compounds Detected - September 2015

Location Name			GW-01		P-101D		P-103		P-104		P-104		P-105		P-106D		P-106S		P-107D		P-107S		P-108	
Sample Date			9/10/2015		9/9/2015		9/9/2015		9/8/2015		9/8/2015		9/9/2015		9/9/2015		9/9/2015		9/9/2015		9/9/2015		9/9/2015	
Sample ID			633027GW01		633027P101D		633027P103XX		633027P104		633027P104D		633027P105XX		633027P106D		633027P106SXX		633027P107D		633027P107S		633027P108XX	
Qc Code			FS		FS		FS		FS		FD		FS		FS		FS		FS		FS		FS	
Parameter	**GA**	**Units**	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Volatile Organic Compounds 8260																								
1,1,1-Trichloroethane	5	µg/L	1	UJ	1	UJ	**6.9**	J	1	UJ	1	UJ	1	UJ	1	UJ	**1.7**	J	1	UJ	**1.6**	J	1	UJ
1,1-Dichloroethane	5	µg/L	1	UJ	1	UJ	**1.8**	J	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	**1.9**	J	1	UJ
1,2-Dichloroethane	0.6	µg/L	1	UJ	1	UJ	**0.95**	J	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
Acetone	--	µg/L	**2.6**	J	5	UJ	**1.7**	J	5	UJ	5	UJ	5	UJ	5	UJ	5	UJ	3.2	J	**5.8**	J	1.4	J
Carbon disulfide	--	µg/L	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	**0.37**	J	1	UJ	1	UJ	1	UJ	1	UJ
Trichloroethene	5	µg/L	1	UJ	1	UJ	**1.6**	J	1	UJ	1	UJ	1	UJ	1	UJ	**0.92**	J	1	UJ	**9.5**	J	1	UJ
Metals (Total) 6010C																								
Lead	25	µg/L			50	U	50	U	50	U	**5**	J	50	U	50	U	50	U	50	U	**6**	J	50	U
Nickel	100	µg/L			40	U	40	U	**3**	J	40	U	**3**	J	40	U	**5**	J	40	U	**139**		40	U
Cadmium	5	µg/L			5	U	5	U	5	U	5	U	5	U	5	U	5	U	5	U	**1.8**	J	5	U

Notes:
Only compounds detected shown
GA = NYS Class GA groundwater quality standard Part 703
Shaded = Result exceeds GA standard.
Bold = contaminant detected
J = result estimated
U = not detected
µg/L = micrograms per liter
Blank cell represents compound not tested for.
FS- field sample
FD- field duplicate

APPENDIX A

MAY 2015 INSPECTION REPORT

Checked by Josh Bowe 6/3/15 @ 12:30

New York Department of Environmental Conservation
Inactive Hazardous Waste Site
Inspection Form-Treatment Systems

Site Name: *Primoshield Inc.*	NYSDEC Site Number: *633027*	NYSDEC PM: *Will Welling*
Site Location: *St. Vincent Street, Utica, NY*	Site Classification # (circle): 1 2 2a 3 4	Primary Site Contact: *Will Welling*

Site Inspection Date: 5/28/15	Purpose of Inspection: Spring Inspection		
Name of Inspector: Dylan Farrell	Title: Environmental Tech	Agency/Company: MACTEC/AMEC	Address: *511 Congress Streeet, Suite 200 Portland, ME 04101*
Phone Number: 207 828 2668			

Treatment Systems

System Status			
System in Operation During Visit?	Yes	(No)	
Manned on a Fulltime basis?	Yes	(No)	
Maintenance Logs Current?	Yes	No	(NA)
Equipment Calibration Logs Current?	Yes	No	(NA)
Pump working?	(Yes) (JwB)	No	
Initial flow rate (gpm):			
Pressure before basket strainers (P1):	N/A basket strainers permently removed		
Pressure after basket strainers: (P2)	N/A basket strainers permently removed		
Basket Strainer Inspected and cleaned?	N/A basket strainers permently removed		
Flow rate after cleaning filters (gpm):	N/A basket strainers permently removed		
Pressuer after cleaning basket strainers: (P1)	N/A basket strainers permently removed		
Totalizer reading (gallons)	1865.2		
Discharge Monitoring	Yes	No	(DF)
Does the system require a discharge permit or discharge to a POTW?	(Yes)	No	
Is Permit Performance Monitoring Implemented?	(Yes)	No	

Condition of Operational Controls	(Good) JwB	Poor	NA
Condition of Gauges	(Good)	Poor	NA
Condition of flow meters	(Good)	Poor	NA
Condition of System Alarms	(Good)	Poor	NA
Condition of Pumps	(Good)	Poor	NA
Condition of Flow Pipes or Hoses	(Good)	Poor	NA
Pipes Labeled with Direction of Flow and Contents	Yes	(No)	NA
Condition of Valves	(Good)	Poor	NA
Condition of Containment Structures (berms etc.)	Good	Poor	(NA)
Evidence of Leaking	Yes	(No)	NA
Condition of Feed/Extraction Pumps	Good	Poor	(NA)
Vaulted Area Condition	Good	Poor	(NA)
Lighting in Work Areas Adequate	(Yes)	No	NA
Condition of Collection/Discharge Trenches	(Good)	Poor	NA
Clean of Debris	(Good) DF	Poor	(NA)
Evidence of Sedimentation	Good	Poor	(NA)
Condition of Extraction Wells/Recharge Wells	(Good)	Poor	NA

General Observations:

- No water observed in trench 3 cleanout
- Noted: we need a replacement cap at trench cleanout #3 and Trench cleanout #2 (JwB)

- Flow rate approximately 30 gpm.

List other applicable treatment systems/components and their overall condition:

Interviews/Additional Contacts

Name/Title	Phone:	Company/Entity	Contact Information

Additional Observation Notes:

Manhole was opened and pump assembly was examined and looks in good ~~condition~~ (JwB) condition.

New York Department of Environmental Conservation
Inactive Hazardous Waste Site
Inspection Form-Treatment Systems

Previously observed: Review and comment as to status (include photo documentation)

1. Is there vegitation infringing on the perimeter fence? Remove infringing vegitation that can be removed without the use of power tools.

Yes, Karl Ladner on site upon arrival clearing vegetation along perimeter fence

2. Inspect the previously documented gap between the fence post and neighboring building (1.5"-3.5") - has it increased?

NO, still a gap but around the same time

Photograph Log:

Photograph 1	
Photograph 2	see Photolog Attachment
Photograph 3	
Photograph 4	
Photograph 5	
Photograph 6	
Photograph 7	
Photograph 8	
Photograph 9	
Photograph 10	

Performance Monitoring

Were check samples collected during this visit? Yes (No)

Sample type collected *(circle or write in other)*: Groundwater (Effluent)

List Parameters/Methods Collected Per Media:

VOCs 624
Metals 200.7
pH 150.1
Cyanide 9010

Analytical Laboratory/Location:
ALS

Sample Observations: NA

Attachment 1 – Inspection Photographic Log

Client:	NYSDEC	***Project Number:***	3612122251
Site Name:	Primoshield, Inc	***Site Location:***	Utica, New York.

Photographer: Dylan Farrell ***Date:*** 05/28/2015 ***Photograph:*** 1 ***Direction:*** n/a ***Description:*** Flow meter/totalizer reading	
Photographer: Dylan Farrell ***Date:*** 05/28/2015 ***Photograph:*** 2 ***Direction:*** North ***Description:*** Hole in northeast section of fence.	

Attachment 1 – Air Sampling Photographic Log

Client:	NYSDEC	***Project Number:***	3612122251
Site Name:	Primoshield, Inc	***Site Location:***	Utica, New York.

Photographer:
Dylan Farrell

Date:
05/28/2015

Photograph: 3

Direction:
Northeast

Description:
Fence without top rail.

Photographer:
Dylan Farrell

Date:
05/28/2015

Photograph: 4

Direction:
n/a

Description:
Collection trench #3 well cap. Rusted bolt and broken nut.

Attachment 1 – Air Sampling Photographic Log

Client:	NYSDEC	***Project Number:***	3612122251
Site Name:	Primoshield, Inc	***Site Location:***	Utica, New York.

Photographer: Dylan Farrell ***Date:*** 05/28/2015 ***Photograph:*** 5 ***Direction:*** West ***Description:*** Gap between the adjacent building and the Primoshield property.	
Photographer: Dylan Farrell ***Date:*** 05/28/2015 ***Photograph:*** 6 ***Direction:*** North ***Description:*** Previous repair of fence.	

EFFLUENT SAMPLING RECORD

PROJECT NAME	Primoshield Inc.
PROJECT NUMBER	3612122251.03
SAMPLER NAME	Dylan Farrell
SAMPLER SIGNATURE	
CHECKED BY:	DATE: 05/20/15 6/3/15 @ 12:30

Monitoring Location	Collection System Effluent
Sample ID	633027 EFFluent
Sample Date/Time	05/28/15 – 14:10

SKETCH/NOTES:

ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED
X	VOCs	624	4Cel	
X	Metals*	200.7	HNO_3	
X	pH	150.1	NA	
X	Cyanide	9010	NaOH	

MACTEC
511 Congress Street, Portland Maine 04101

*- cadmium, chromium, copper, lead, nickel and zinc

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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

26293

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name: Primoshield	Project Number: 361212251-04
Project Manager: Jayme Connolly	Report CC: Tige Cunningham
Company/Address: AMEC Foster Wheeler 511 Congress St. PO# C0129009946 Portland ME 04101	
Phone #: 207 828 3657	Email: tige.cunningham@amecfw.com
Sampler's Signature:	Sampler's Printed Name: Dylan Farrell

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs ○ 8260 ○ 624 ○ CLP	GC/MS SVOAs ○ 8270 ○ 625	GC VOAs ○ 8021 ○ 601/602	PESTICIDES ○ 8081 ○ 608	PCBs ○ 8082 ○ 608	METALS, TOTAL 200.7 (List in comments below)	METALS, DISSOLVED (List in comments below)	Cyanide 9010	DH 200.7 (5)					
633027 Effluent		5/28/15	14:10	GW	6	X					X		X	X					
Trip Blank		5/28/15	—	—	3	X													

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS

Metals

- Category A deliverable
- ~~Mactec~~ Mactec Equis Edd to tige.cunningham@amecfw.com
- metals: cadmium, Copper, Cr, Ni, Zn (200.7) (Please report lead also)

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS

_____ RUSH (SURCHARGES APPLY)

_____ 1 day _____ 2 day _____ 3 day

_____ 4 day _____ 5 day

REQUESTED REPORT DATE _____

REPORT REQUIREMENTS

____ I. Results Only

____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)

____ III. Results + QC and Calibration Summaries

____ IV. Data Validation Report with Raw Data

Edata ____Yes ____No

INVOICE INFORMATION

PO # C0129009946

BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Dylan Farrell					
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name: Dylan Farrell	Printed Name	Printed Name	Printed Name	Printed Name	Printed Name
Firm: AMEC FW	Firm	Firm	Firm	Firm	Firm
Date/Time: 5/29/15 11:50	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return to Originator

ALS Environmental
ALS Group USA, Corp
1565 Jefferson Rd, Building 300, Suite 360
Rochester, NY 14623
T: 585-288-5380
F: 585-288-8475
www.alsglobal.com

June 09, 2015

Analytical Report for Service Request No: R1504214

Ms. Jayme Connolly
AMEC Environmental & Infrastructure
511 Congress Street
Portland, ME 04112-7050

Laboratory Results for: NYSDEC Primoshield/3612122251-04

Dear Ms. Connolly:

Enclosed are the results of the sample(s) submitted to our laboratory on May 30, 2015. For your reference, these analyses have been assigned our service request number **R1504214**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Janice Jaeger
Project Manager

CC: Tige Cunningham

CASE NARRATIVE

This report contains analytical results for the following samples:
Service Request Number: R1504214

Lab ID	Client ID
R1504214-001	633027 EFFLUENT
R1504214-002	TRIP BLANK

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by ALS personnel have been in accordance with "ALS Field Procedures and Measurements Manual" or by client specifications.

ALS Environmental

REPORT QUALIFIERS AND DEFINITIONS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.

Spike was diluted out.

\+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% (25% for CLP) difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).

X See Case Narrative for discussion.

MRL Method Reporting Limit. Also known as:
LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.

MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).

LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.

ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID # 294100 A/B
Delaware Accredited	Nebraska Accredited	
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	AMEC Foster Wheeler Environment & Infrastructure Inc. (MACTEC)	**Service Request:**	R1504214
Project:	NYSDEC Primoshield/3612122251-04	**Date Collected:**	5/28/15 1410
Sample Matrix:	Water	**Date Received:**	5/30/15
Sample Name:	633027 EFFLUENT		
Lab Code:	R1504214-001	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Cyanide, Total	9012B	0.010	U	mg/L	0.010	1	6/2/15	6/3/15 10:39	
pH	SM 4500-H+ B	7.21		pH Units		1	NA	6/1/15 14:52	H
Temperature of pH Analysis	SM 4500-H+ B	19.7		deg C		1	NA	6/1/15 14:52	H

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	AMEC Foster Wheeler Environment & Infrastructure Inc. (MACTEC)	**Service Request:**	R1504214
Project:	NYSDEC Primoshield/3612122251-04	**Date Collected:**	5/28/15 1410
Sample Matrix:	Water	**Date Received:**	5/30/15
Sample Name:	633027 EFFLUENT		
Lab Code:	R1504214-001	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Cadmium, Total	200.7	5.0	U	µg/L	5.0	1	6/2/15	6/7/15 14:40	
Chromium, Total	200.7	10	U	µg/L	10	1	6/2/15	6/7/15 14:40	
Copper, Total	200.7	20	U	µg/L	20	1	6/2/15	6/7/15 14:40	
Lead, Total	200.7	50	U	µg/L	50	1	6/2/15	6/7/15 14:40	
Nickel, Total	200.7	**44**		µg/L	40	1	6/2/15	6/7/15 14:40	
Zinc, Total	200.7	20	U	µg/L	20	1	6/2/15	6/7/15 14:40	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	AMEC Foster Wheeler Environment & Infrastructure Inc. (MACTEC)	**Service Request:**	R1504214
Project:	NYSDEC Primoshield/3612122251-04	**Date Collected:**	5/28/15 1410
Sample Matrix:	Water	**Date Received:**	5/30/15
		Date Analyzed:	6/2/15 16:48
Sample Name:	633027 EFFLUENT	**Units:**	µg/L
Lab Code:	R1504214-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	624	**Analysis Lot:**	447187
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\060215\M2254.D\	**Instrument Name:**	R-MS-06
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	**8.2**		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane (1,1-DCA)	**1.1**		1.0	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
110-75-8	2-Chloroethyl Vinyl Ether	10	U	10	
107-02-8	Acrolein	10	U	10	
107-13-1	Acrylonitrile	10	U	10	
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	1.0	U	1.0	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
75-09-2	Methylene Chloride	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	
108-88-3	Toluene	1.0	U	1.0	
79-01-6	Trichloroethene (TCE)	**17**		1.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	
75-01-4	Vinyl Chloride	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
179601-23-1	m,p-Xylenes	2.0	U	2.0	
95-47-6	o-Xylene	1.0	U	1.0	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	AMEC Foster Wheeler Environment & Infrastructure Inc. (MACTEC)	**Service Request:**	R1504214
Project:	NYSDEC Primoshield/3612122251-04	**Date Collected:**	5/28/15 1410
Sample Matrix:	Water	**Date Received:**	5/30/15
		Date Analyzed:	6/2/15 16:48
Sample Name:	633027 EFFLUENT	**Units:**	Percent
Lab Code:	R1504214-001	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	624	**Analysis Lot:**	447187
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\060215\M2254.D\	**Instrument Name:**	R-MS-06
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	101	81-127	6/2/15 16:48	
4-Bromofluorobenzene	97	79-123	6/2/15 16:48	
Toluene-d8	100	83-120	6/2/15 16:48	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	AMEC Foster Wheeler Environment & Infrastructure Inc. (MACTEC)	**Service Request:**	R1504214
Project:	NYSDEC Primoshield/3612122251-04	**Date Collected:**	5/28/15 1410
Sample Matrix:	Water	**Date Received:**	5/30/15
		Date Analyzed:	6/2/15 16:16
Sample Name:	TRIP BLANK	**Units:**	µg/L
Lab Code:	R1504214-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	624	**Analysis Lot:**	447187
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\060215\M2253.D\	**Instrument Name:**	R-MS-06
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
110-75-8	2-Chloroethyl Vinyl Ether	10	U	10	
107-02-8	Acrolein	10	U	10	
107-13-1	Acrylonitrile	10	U	10	
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	1.0	U	1.0	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
75-09-2	Methylene Chloride	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	
108-88-3	Toluene	1.0	U	1.0	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	
75-01-4	Vinyl Chloride	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
179601-23-1	m,p-Xylenes	2.0	U	2.0	
95-47-6	o-Xylene	1.0	U	1.0	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	AMEC Foster Wheeler Environment & Infrastructure Inc. (MACTEC)	**Service Request:**	R1504214
Project:	NYSDEC Primoshield/3612122251-04	**Date Collected:**	5/28/15 1410
Sample Matrix:	Water	**Date Received:**	5/30/15
		Date Analyzed:	6/2/15 16:16
Sample Name:	TRIP BLANK	**Units:**	Percent
Lab Code:	R1504214-002	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	624	**Analysis Lot:**	447187
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\060215\M2253.D\	**Instrument Name:**	R-MS-06
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	101	81-127	6/2/15 16:16	
4-Bromofluorobenzene	98	79-123	6/2/15 16:16	
Toluene-d8	100	83-120	6/2/15 16:16	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	AMEC Foster Wheeler Environment & Infrastructure Inc. (MACTEC)	**Service Request:**	R1504214
Project:	NYSDEC Primoshield/3612122251-04	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1504214-MB	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Cyanide, Total	9012B	0.010	U	mg/L	0.010	1	6/ 2/15	6/3/15 10:17	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	AMEC Foster Wheeler Environment & Infrastructure Inc. (MACTEC)	**Service Request:**	R1504214
Project:	NYSDEC Primoshield/3612122251-04	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1504214-MB	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Cadmium, Total	200.7	5.0	U	µg/L	5.0	1	6/ 2/15	6/7/15 12:07	
Chromium, Total	200.7	10	U	µg/L	10	1	6/ 2/15	6/7/15 12:07	
Copper, Total	200.7	20	U	µg/L	20	1	6/ 2/15	6/7/15 12:07	
Lead, Total	200.7	50	U	µg/L	50	1	6/ 2/15	6/7/15 12:07	
Nickel, Total	200.7	40	U	µg/L	40	1	6/ 2/15	6/7/15 12:07	
Zinc, Total	200.7	20	U	µg/L	20	1	6/ 2/15	6/7/15 12:07	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	AMEC Foster Wheeler Environment & Infrastructure Inc. (MACTEC)	**Service Request:**	R1504214
Project:	NYSDEC Primoshield/3612122251-04	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	6/2/15 12:31
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1506006-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	624	**Analysis Lot:**	447187
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\060215\M2246.D\	**Instrument Name:**	R-MS-06
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	1.0	U	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0	U	1.0	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
110-75-8	2-Chloroethyl Vinyl Ether	10	U	10	
107-02-8	Acrolein	10	U	10	
107-13-1	Acrylonitrile	10	U	10	
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	1.0	U	1.0	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
75-09-2	Methylene Chloride	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	
108-88-3	Toluene	1.0	U	1.0	
79-01-6	Trichloroethene (TCE)	1.0	U	1.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	
75-01-4	Vinyl Chloride	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
179601-23-1	m,p-Xylenes	2.0	U	2.0	
95-47-6	o-Xylene	1.0	U	1.0	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	AMEC Foster Wheeler Environment & Infrastructure Inc. (MACTEC)	**Service Request:**	R1504214
Project:	NYSDEC Primoshield/3612122251-04	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Analyzed:	6/2/15 12:31
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	RQ1506006-04	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	624	**Analysis Lot:**	447187
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\060215\M2246.D\	**Instrument Name:**	R-MS-06
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	104	81-127	6/2/15 12:31	
4-Bromofluorobenzene	100	79-123	6/2/15 12:31	
Toluene-d8	102	83-120	6/2/15 12:31	

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: AMEC Foster Wheeler Environment & Infrastructure Inc. (MACTEC)
Project: NYSDEC Primoshield/3612122251-04
Sample Matrix: Water

Service Request: R1504214
Date Analyzed: 6/3/15

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

		Lab Control Sample R1504214-LCS1			
Analyte Name	**Method**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**
Cyanide, Total	9012B	0.0992	0.100	99	85 - 115

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: AMEC Foster Wheeler Environment & Infrastructure Inc. (MACTEC)
Project: NYSDEC Primoshield/3612122251-04
Sample Matrix: Water

Service Request: R1504214
Date Analyzed: 6/ 3/15

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1504214-LCS2 Result	Spike Amount	% Rec	% Rec Limits
Cyanide, Total	9012B	0.424	0.400	106	85 - 115

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: AMEC Foster Wheeler Environment & Infrastructure Inc. (MACTEC)
Project: NYSDEC Primoshield/3612122251-04
Sample Matrix: Water

Service Request: R1504214
Date Analyzed: 6/ 7/15

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1504214-LCS Result	Spike Amount	% Rec	% Rec Limits
Cadmium, Total	200.7	53.4	50.0	107	85 - 115
Chromium, Total	200.7	207	200	104	85 - 115
Copper, Total	200.7	256	250	102	85 - 115
Lead, Total	200.7	519	500	104	85 - 115
Nickel, Total	200.7	528	500	106	85 - 115
Zinc, Total	200.7	540	500	108	85 - 115

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: AMEC Foster Wheeler Environment & Infrastructure Inc. (MACTEC)
Project: NYSDEC Primoshield/3612122251-04
Sample Matrix: Water

Service Request: R1504214
Date Analyzed: 6/2/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method: 624

Units: µg/L
Basis: NA

Analysis Lot: 447187

Lab Control Sample
RQ1506006-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	20.0	20.0	100	52 - 162
1,1,2,2-Tetrachloroethane	20.2	20.0	101	46 - 157
1,1,2-Trichloroethane	20.5	20.0	103	52 - 150
1,1-Dichloroethane (1,1-DCA)	20.0	20.0	100	59 - 155
1,1-Dichloroethene (1,1-DCE)	21.0	20.0	105	10 - 234
1,2-Dichlorobenzene	20.3	20.0	102	18 - 190
1,2-Dichloroethane	19.3	20.0	96	49 - 155
1,2-Dichloropropane	20.3	20.0	102	10 - 210
1,3-Dichlorobenzene	20.5	20.0	102	59 - 156
1,4-Dichlorobenzene	20.4	20.0	102	18 - 190
2-Chloroethyl Vinyl Ether	20.8	20.0	104	10 - 305
Acrolein	109	100	109	10 - 186
Acrylonitrile	123	100	123	84 - 128
Benzene	20.8	20.0	104	37 - 151
Bromodichloromethane	21.6	20.0	108	35 - 155
Bromoform	23.5	20.0	118	45 - 169
Bromomethane	16.2	20.0	81	10 - 242
Carbon Tetrachloride	22.2	20.0	111	70 - 140
Chlorobenzene	20.4	20.0	102	37 - 160
Chloroethane	20.4	20.0	102	14 - 230
Chloroform	20.1	20.0	100	51 - 138
Chloromethane	22.9	20.0	114	10 - 273
Dibromochloromethane	22.1	20.0	111	53 - 149
Methylene Chloride	20.8	20.0	104	10 - 221
Ethylbenzene	20.0	20.0	100	37 - 162
Tetrachloroethene (PCE)	19.2	20.0	96	64 - 148
Toluene	20.5	20.0	102	47 - 150
Trichloroethene (TCE)	20.5	20.0	103	71 - 157
Trichlorofluoromethane (CFC 11)	19.6	20.0	98	17 - 181
Vinyl Chloride	23.3	20.0	116	10 - 251
cis-1,3-Dichloropropene	21.0	20.0	105	10 - 227
m,p-Xylenes	40.6	40.0	101	76 - 131
o-Xylene	19.9	20.0	100	78 - 127

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: AMEC Foster Wheeler Environment & Infrastructure Inc. (MACTEC)
Project: NYSDEC Primoshield/3612122251-04
Sample Matrix: Water

Service Request: R1504214
Date Analyzed: 6/2/15

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method: 624

Units: µg/L
Basis: NA

Analysis Lot: 447187

Analyte Name	Lab Control Sample RQ1506006-03 Result	Spike Amount	% Rec	% Rec Limits
trans-1,2-Dichloroethene	20.6	20.0	103	54 - 156
trans-1,3-Dichloropropene	24.1	20.0	120	17 - 183

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

26293

ALS Environmental

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name: Primoshield	Project Number: 361212251-04
Project Manager: Jayne Connolly	Report CC: Tige Cunningham
Company/Address: AMEC Foster Wheeler 511 Congress St. PO# C012900946 Portland ME 04101	
Phone #: 207 828 3657	Email: tige.cunningham@amecfw.com
Sampler's Signature: DF	Sampler's Printed Name: Dylan Farrell

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GCMS VOAs • 8260 • 624 • CLP	GCMS SVOAs • 8270 • 625	GC VOAs • 8021 • 601/602	PESTICIDES • 8081 • 608	PCBs • 8082 • 608	METALS, TOTAL 200.7 (List in comments below)	METALS, DISSOLVED (List in comments below)	Cyanide 9010	DH Sp Cond 150.1						
635027 Effluent		5/28/15	1411 0	GW	6	X					X	-	X	X						
Trip Blank		5/28/15	—	—	3	X														

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
Metals
- Category A deliverable

AMEC DF - Mactec Equis Edd to tige.cunningham@amecfw.com
- Metals: cadmium, Copper, Cr, Ni, Zn (200.7)
See QAPP ☐ (Please report lead also)

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day
REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
Edata ____ Yes ____ No

INVOICE INFORMATION
PO # C012900946
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: DF	Signature:	Signature:	Signature:	Signature:	
Printed Name: Dylan Farrell	Printed Name: Gregory O. Esmerian	Printed Name:	Printed Name:	Printed Name:	
Firm: AMEC FW	Firm: ALS	Firm:	Firm:	Firm:	
Date/Time: 5/29/15 11:50	Date/Time: 5-30-15 09:03	Date/Time:	Date/Time:	Date/Time:	

R1504214 5
AMEC Environmental & Infrastructure
NYSDEC Primoshield

Distribution: White - Lab Copy; Yellow - Return to Originator

Cooler Receipt and Preservation Check Form

Project/Client AMEC Folder Number ALS - 92114

Cooler received on 5-30-15 by: MZ COURIER: ALS UPS (FEDEX) VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y (N)	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (**Wet Ice**) **Dry Ice** **Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 5-30-15 Time: 09:08 ID: (IR#3) IR#5 From: (Temp Blank) Sample Bottle

Observed Temp (°C)	4.1						
Correction Factor (°C)	+0.6						
Corrected Temp (°C)	4.7						
Within 0-6°C?	(Y) N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: _____ Ice melted Poorly Packed Same Day Rule

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-002 by MZ on 5-30-15 at 09:11
5035 samples placed in storage location: _____ by _____ on _____ at _____

PC Secondary Review: JMS 6/1/15

Cooler Breakdown: Date: 6/1/15 Time: 0833 by: JFS

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies:

pH	Reagent	Yes	No	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH	✓		WC1401226	4/16				
≤2	HNO_3	✓		0D826143D	5/16				
≤2	H_2SO_4								
<4	$NaHSO_4$								
Residual Chlorine (-)	For CN Phenol and 522			If +, contact PM to add $Na_2S_2O_3$ (CN), ascorbic (phenol).					
	$Na_2S_2O_3$	-	-						
	ZnAcetate	-	-						
	HCl	**	**						

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Yes=All samples OK

No=Samples were preserved at The lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 5-022-001, 0D826143D, 032315-2AAD,
Other Comments:

PC Secondary Review: JMS 6/1/15 *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

APPENDIX B

SEPTEMBER 2015 INSPECTION REPORT

New York Department of Environmental Conservation
Inactive Hazardous Waste Site
Inspection Form-Treatment Systems

Checked by J Ruffle 9/29/15

Site Name: *Primoshield Inc.*		NYSDEC Site Number: *633027*	NYSDEC PM: *Will Welling*
Site Location: *St. Vincent Street, Utica, NY*		Site Classification # (circle): 1 (2) 2a 3 4	Primary Site Contact: *Will Welling*
Site Inspection Date: 9-8-15	Purpose of Inspection: Full Inspection and GWLTM		
Name of Inspector: Karl Ladner Phone Number: 518-622-3014	Title: Env. Tech	Agency/Company: MACTEC/AMEC	Address: *511 Congress Streeet, Suite 200 Portland, ME 04101*

Treatment Systems

System Status			
System in Operation During Visit?	Yes	(No)	
Manned on a Fulltime basis?	Yes	(No)	
Maintenance Logs Current?	KL (Yes)	No	(NA)
Equipment Calibration Logs Current?	Yes	No	(NA)
Pump working?	(Yes)	No	
Initial flow rate (gpm):			
Pressure before basket strainers (P1):	N/A basket strainers permently removed		
Pressure after basket strainers: (P2)	N/A basket strainers permently removed		
Basket Strainer Inspected and cleaned?	N/A basket strainers permently removed		
Flow rate after cleaning filters (gpm):	N/A basket strainers permently removed		
Pressuer after cleaning basket strainers: (P1)	N/A basket strainers permently removed		
Totalizer reading (gallons)	01974500		
Discharge Monitoring	(Yes)	No	
Does the system require a discharge permit or discharge to a POTW?	(Yes)	No	
Is Permit Performance Monitoring Implemented?	(Yes)	No	
Condition of Operational Controls	Good	Poor	NA
Condition of Gauges	(Good)	Poor	NA
Condition of flow meters	(Good)	Poor	NA
Condition of System Alarms	(Good)	Poor	NA
Condition of Pumps	(Good)	Poor	NA
Condition of Flow Pipes or Hoses	(Good)	Poor	NA
Pipes Labeled with Direction of Flow and Contents	Yes	(No)	NA
Condition of Valves	(Good)	Poor	NA
Condition of Containment Structures (berms etc.)	Good	Poor	(NA)
Evidence of Leaking	Yes	(No)	NA
Condition of Feed/Extraction Pumps	Good	Poor	(NA)
Vaulted Area Condition	Good	Poor	NA
Lighting in Work Areas Adequate	(Yes)	No	NA
Condition of (Collection)/Discharge Trenches	(Good)	Poor	NA
Clean of Debris	(Good)	Poor	NA
Evidence of Sedimentation	(Good)	Poor	NA
Condition of Extraction Wells/Recharge Wells	Good	Poor	NA

General Observations:
Treatment System in auto on arrival Not Running. Tested pump in Hand, OK (KL.)

Water levels are quite low. No water in cleanouts of collection trenches. Waterlevel in Manhole is 9.38' to top of metal rim. Pump did not engage during our 3 day visit due to low water.

Cleanout of Trench #2 Cleanout #5 (northernmost) - concrete has settled - metal lid to cleanout will not seat properly.

List other applicable treatment systems/components and their overall condition:

NA

Repl

Interviews/Additional Contacts

Name/Title	Phone:	Company/Entity	Contact Information

Additional Observation Notes:
On arrival a construction crew was Loading gravel into a dump Truck. The Truck hit the fence and caused damage
Replaced and labeled expansion caps on all Collection trench cleanouts.

New York Department of Environmental Conservation
Inactive Hazardous Waste Site
Inspection Form-Treatment Systems

Previously observed: Review and comment as to status (include photo documentation)

1. Is there vegitation infringing on the perimeter fence? Remove infringing vegitation that can be removed without the use of power tools.

Yes there is quite a lot of vegetation infringing on perimeter fence. Removed much of it on the southern perimeter.

2. Inspect the previously documented gap between the fence post and neighboring building (1.5"-3.5") - has it increased?

Gap in fence appears unchanged. Does not appear to be a concern.

Photograph Log:

Photograph 1	Flowmeter Totalizer reading
Photograph 2	Hole in fence - northeast section
Photograph 3	End of top rail where fence changes height NE of ~~MW~~ P-107S.
Photograph 4	Replaced expansion cup Trench #1 Element #1.
Photograph 5	Minor gap in fence near adjacent building.
Photograph 6	Previous repair of fence and vegetation growth.
Photograph 7	Damage to fence from dumptruck traffic
Photograph 8	Close up of damage above.
Photograph 9	Vegetation on fence. Photo-11: Collection manhole.
Photograph 10	House buried wire - southeast Photo-12: P-101S and P-101D.

Performance Monitoring

Were check samples collected during this visit? (Yes) No

Sample type collected *(circle or write in other)*: (Groundwater) (Effluent)

List Parameters/Methods Collected Per Media:

Ground water - VOCs(8260), Metals(6010B)

Effluent - VOCs(624), Metals(2000.7) (Cd, Cu, Cr, Pb, Ni, Zn), pH(150.1), Cyanide(9010)

Analytical Laboratory/Location:
585-288-5380 ALS Environmental, 1565 Jefferson Rd, Building 300, Suite 360, Rochester, NY 14623

Sample Observations: Many wells very low recharge purged dry with whole pump then low flow sample of recharge the following day. (P-101D, P-103, P-105, P-106S, P-107S, P-108).

JR 9/29/15

Attachment 1 – Inspection Photographic Log

Client:	NYSDEC	***Project Number:***	3612122251
Site Name:	Primoshield, Inc	***Site Location:***	Utica, New York.

Photographer: Karl Ladner ***Date:*** 09/08/2015 ***Photograph:*** 1 ***Direction:*** n/a ***Description:*** Flow meter/totalizer reading	
Photographer: Karl Ladner ***Date:*** 09/08/2015 ***Photograph:*** 2 ***Direction:*** North ***Description:*** Hole in northeast section of fence.	

Attachment 1 – Air Sampling Photographic Log

Client:	NYSDEC	***Project Number:***	3612122251
Site Name:	Primoshield, Inc	***Site Location:***	Utica, New York.

Photographer: Jerry Rawcliffe ***Date:*** 09/10/2015 ***Photograph:*** 3 ***Direction:*** Northeast ***Description:*** End of top rail where fence height changes.	
Photographer: Jerry Rawcliffe ***Date:*** 09/10/2015 ***Photograph:*** 4 ***Direction:*** **n/a** ***Description:*** Collection trench #1, cleanout #1 replaced expansion cap. (All cleanout caps replaced)	

Attachment 1 – Air Sampling Photographic Log

Client:	NYSDEC	***Project Number:***	3612122251
Site Name:	Primoshield, Inc	***Site Location:***	Utica, New York.

Photographer: Jerry Rawcliffe ***Date:*** 09/10/2015 ***Photograph:*** 5 ***Direction:*** West ***Description:*** Gap between the adjacent building and the Primoshield property.	
Photographer: Jerry Rawcliffe ***Date:*** 09/10/2015 ***Photograph:*** 6 ***Direction:*** North ***Description:*** Previous repair of fence.	

Attachment 1 – Air Sampling Photographic Log

Client:	NYSDEC	***Project Number:***	3612122251
Site Name:	Primoshield, Inc	***Site Location:***	Utica, New York.

Photographer: Karl Ladner ***Date:*** 09/08/2015 ***Photograph:*** 7 ***Direction:*** West ***Description:*** Damage to fence from Dump truck traffic.	
Photographer: Jerry Rawcliffe ***Date:*** 09/10/2015 ***Photograph:*** 8 ***Direction:*** North ***Description:*** Close up of damage above.	

Attachment 1 – Air Sampling Photographic Log

Client:	NYSDEC	***Project Number:***	3612122251
Site Name:	Primoshield, Inc	***Site Location:***	Utica, New York.

Photographer: Jerry Rawcliffe ***Date:*** 09/10/2015 ***Photograph:*** 9 ***Direction:*** Northwest ***Description:*** Growth on fence.	
Photographer: Jerry Rawcliffe ***Date:*** 09/10/2015 ***Photograph:*** 10 ***Direction:*** Southeast ***Description:*** Loose barbed wire.	

Attachment 1 – Air Sampling Photographic Log

Client:	NYSDEC	***Project Number:***	3612122251
Site Name:	Primoshield, Inc	***Site Location:***	Utica, New York.

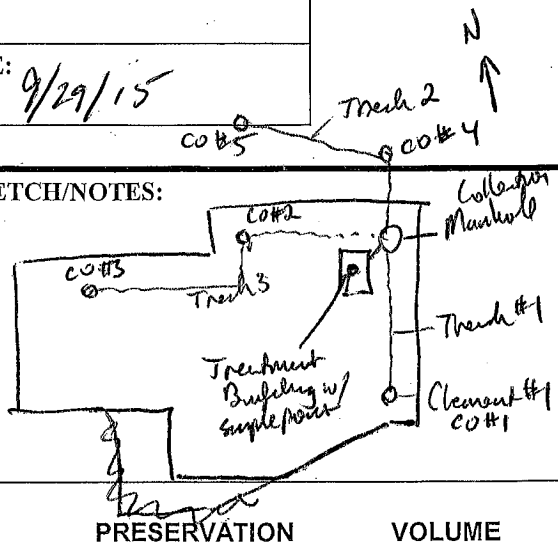
Photographer: Jerry Rawcliffe ***Date:*** 09/10/2015 ***Photograph:*** 11 ***Direction:*** NA ***Description:*** Collection manhole.	
Photographer: Jerry Rawcliffe ***Date:*** 09/10/2015 ***Photograph:*** 12 ***Direction:*** North ***Description:*** P-101S (far) and P-101D (near).	

EFFLUENT SAMPLING RECORD

PROJECT NAME	Primoshield Inc.
PROJECT NUMBER	3612122251.03
SAMPLER NAME	Karl Vasdner / Jerry Rawcliffe
SAMPLER SIGNATURE	Jerry Rawcliffe
CHECKED BY: BW & WP	DATE: 9/29/15

Monitoring Location	Collection System Effluent
Sample ID	633027 Effluent
Sample Date/Time	9/8/15 1610

SKETCH/NOTES:



ANALYTICAL PARAMETERS

	PARAMETER	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED
X	VOCs	624	HCl	3 x 40ml
X	Metals*	200.7	HNO_3	1x500ml poly
X	pH	150.1	ICE	125ml cup
X	Cyanide	9010	NaOH	1x250ml poly

MACTEC

511 Congress Street, Portland Maine 04101

*- cadmium, chromium, copper, lead, nickel and zinc

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	AMEC Foster Wheeler Environment & Infrastructure Inc. (MACTEC)	**Service Request:**	R1507571
Project:	NYSDEC Primoshield/3612122251	**Date Collected:**	9/ 8/15 1610
Sample Matrix:	Water	**Date Received:**	9/11/15
Sample Name:	633027EFFLUENT		
Lab Code:	R1507571-003	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Cyanide, Total	9012B	0.010	U	mg/L	0.010	1	9/15/15	9/16/15 11:20	
pH	SM 4500-H+ B	7.06		pH Units		1	NA	9/11/15 18:05	H
Temperature of pH Analysis	SM 4500-H+ B	24.0		deg C		1	NA	9/11/15 18:05	H

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	AMEC Foster Wheeler Environment & Infrastructure Inc. (MACTEC)	**Service Request:**	R1507571
Project:	NYSDEC Primoshield/3612122251	**Date Collected:**	9/ 8/15 1610
Sample Matrix:	Water	**Date Received:**	9/11/15
Sample Name:	633027EFFLUENT		
Lab Code:	R1507571-003	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Cadmium, Total	200.7	5.0	U	µg/L	5.0	1	9/21/15	9/22/15 20:06	
Chromium, Total	200.7	10	U	µg/L	10	1	9/21/15	9/22/15 20:06	
Copper, Total	200.7	20	U	µg/L	20	1	9/21/15	9/24/15 11:31	
Lead, Total	200.7	50	U	µg/L	50	1	9/21/15	9/22/15 20:06	
Nickel, Total	200.7	**68**		µg/L	40	1	9/21/15	9/22/15 20:06	
Zinc, Total	200.7	**21**		µg/L	20	1	9/21/15	9/22/15 20:06	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	AMEC Foster Wheeler Environment & Infrastructure Inc. (MACTEC)	**Service Request:**	R1507571
Project:	NYSDEC Primoshield/3612122251	**Date Collected:**	9/ 8/15 1610
Sample Matrix:	Water	**Date Received:**	9/11/15
		Date Analyzed:	9/11/15 23:03
Sample Name:	633027EFFLUENT	**Units:**	µg/L
Lab Code:	R1507571-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	624	**Analysis Lot:**	461767
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\091115\M4394.D\	**Instrument Name:**	R-MS-06
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
71-55-6	1,1,1-Trichloroethane (TCA)	9.5		1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.2		1.0	
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
110-75-8	2-Chloroethyl Vinyl Ether	10	U	10	
107-02-8	Acrolein	10	U	10	
107-13-1	Acrylonitrile	10	U	10	
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	1.0	U	1.0	
56-23-5	Carbon Tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
75-09-2	Methylene Chloride	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
127-18-4	Tetrachloroethene (PCE)	1.0	U	1.0	
108-88-3	Toluene	1.0	U	1.0	
79-01-6	Trichloroethene (TCE)	17		1.0	
75-69-4	Trichlorofluoromethane (CFC 11)	1.0	U	1.0	
75-01-4	Vinyl Chloride	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
179601-23-1	m,p-Xylenes	2.0	U	2.0	
95-47-6	o-Xylene	1.0	U	1.0	
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	AMEC Foster Wheeler Environment & Infrastructure Inc. (MACTEC)	**Service Request:**	R1507571
Project:	NYSDEC Primoshield/3612122251	**Date Collected:**	9/ 8/15 1610
Sample Matrix:	Water	**Date Received:**	9/11/15
		Date Analyzed:	9/11/15 23:03
Sample Name:	633027EFFLUENT	**Units:**	Percent
Lab Code:	R1507571-003	**Basis:**	NA

Volatile Organic Compounds by GC/MS, Unpreserved

Analytical Method:	624	**Analysis Lot:**	461767
Data File Name:	I:\ACQUDATA\MSVOA6\DATA\091115\M4394.D\	**Instrument Name:**	R-MS-06
		Dilution Factor:	1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	105	81-127	9/11/15 23:03	
4-Bromofluorobenzene	98	79-123	9/11/15 23:03	
Toluene-d8	103	83-120	9/11/15 23:03	

APPENDIX C

SEPTEMBER 2015 – LTM FIELD DATA RECORDS AND CATEGORY A DATA VALIDATION

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

JOB NUMBER	3612122251-04.****		
PROJECT	NYSDEC Primoshield Inc.	FIELD SAMPLE NUMBER	633027P101D
SITE ID	(MW) P- 101D	SITE TYPE	WELL
DATE	9/8/15 - 9/9/15		
ACTIVITY	START 9/8/15 1415 END 9/9/15 1235	SAMPLE TIME	9/9/15 1220

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
- [X] TOP OF WELL RISER
- [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	28.67 FT
FINAL DEPTH TO WATER	— FT
DRAWDOWN VOLUME (Initial - final x 0.16 {2-inch} or x 0.65 {4-inch})	— GAL
TOTAL VOL. PURGED (purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)	— GAL
WELL DEPTH (TOR)	86.7' FT
SCREEN LENGTH	10' FT
RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED	—
PROTECTIVE CASING STICKUP (FROM GROUND)	2.7 FT
PID AMBIENT AIR	— PPM
PID WELL MOUTH	— PPM
PRESSURE TO PUMP	— PSI
REFILL SETTING	—
CASING / WELL DIFFER.	0.46 FT
WELL DIAM.	2" IN
DISCHARGE SETTING	—

WELL INTERGRITY:

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X	cracked	

PURGE DATA (ft TOR)

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (deg. c)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
9/8/15									
1432	28.67	Purging with whale pump.							
1441									5 gallons
1456									10 gallons
1506	Purged 13.5 gallons then pump stopped due to depth.								13.5 gallons
1509	81.22								
1520	80.36								
9/9/15	38.15	1115 Set pump to sample recharge							
1134	35.93	Start pump							
1143	38.52	180	17.8	1.437	8.2	3.2	24	-100	
1150	39.22	140	16.7	1.540	8.0	0.5	22	-144	
1155	39.88	↓	17.6	1.539	8.0	0.5	14.2	-155	
1200	40.64	135	17.6	1.537	8.0	0.5	9.7	-156	
1205	41.42	140	17.6	1.523	8.0	0.5	5.4	-157	
1210	42.17	135	18.0	1.537	8.0	0.5	4.4	-162	
1215	42.66	120	18.0	1.534	8.0	0.5	3.4	-160	
			18	1.534	8.0	0.5	3.4	-160	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
- [ ] GEOPUMP (peristaltic)
- [X] QED BLADDER

TYPE OF TUBING
- [ ] HIGH DENSITY POLYETHYLENE
- [X] OTHER LDPE

TYPE OF PUMP MATERIAL
- [X] STAINLESS STEEL
- [ ] OTHER Pump 12207

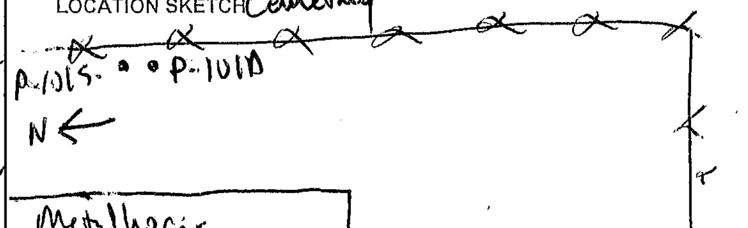
TYPE OF BLADDER MATERIAL
- [X] TEFLON
- [ ] OTHER

ANALYTICAL PARAMETERS

PARAMETER	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[X] VOC	8260B	HNO3 to pH <2	3 x 40ml	[ ]
[ ] VOC	624	HNO3 to pH <2	2 x 40ml	[ ]
[X] TAL METALS	6010B/7470A/7141A	HNO3 to pH <2	500 ml poly	[ ] ~~Field Filtered~~
[ ] TAL METALS (Dissolved)	6010B/7470A/7141A	HNO3 to pH <2	500 ml poly	[ ]
[ ] pH	150.1	4 DEG. C		[ ]
[ ] Cyanide	9010			[ ]
[ ]				[ ]

NOTES: Protective casing dented a little bent. concrete collar is cracked. Purged near dry with whale pump 9/8/15. Sampled recharge 9/9/15

LOCATION SKETCH Cemetery



SIGNATURE: [signature] BF 9/29/15

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

JOB NUMBER: 3612122251-04.****

PROJECT: NYSDEC Primoshield Inc.
FIELD SAMPLE NUMBER: 433027P103XX
SITE ID: (MW) P-103
SITE TYPE: WELL
DATE: 9-9-15
ACTIVITY: START 1030 END 1200
SAMPLE TIME: 1140

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	9.17 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	2.8 FT
FINAL DEPTH TO WATER	10.25 FT	CASING / WELL DIFFER.	0.32 FT
DRAWDOWN VOLUME (initial - final x 0.16 {2-inch} or x 0.65 {4-inch})	.17 GAL	WELL DEPTH (TOR)	19.82 FT
TOTAL VOL. PURGED (purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)	3.5 + 0.95 GAL	SCREEN LENGTH	10 FT
RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED	.04	PID AMBIENT AIR	— PPM
		PID WELL MOUTH	— PPM
		PRESSURE TO PUMP	— PSI
		REFILL SETTING	—
		WELL DIAM.	2" IN
		DISCHARGE SETTING	NA

WELL INTERGRITY:

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (deg. c)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1100	Started pump and set Rate								
1105	9.38	125	19.98	0.695	7.25	5.92	4.40	241.6	
1110	9.50	100	20.53	0.695	7.25	5.84	1.92	234.2	
1115	9.61	100	20.76	0.696	7.24	5.83	1.57	212.5	
1120	9.70	100	20.85	0.697	7.24	5.96	1.44	208.3	
1125	9.84	100	20.71	0.700	7.23	5.84	0.96	231.3	
1130	9.92	100	20.65	0.701	7.23	5.78	0.82	226.9	
1130	10.03	100	20.59	0.704	7.23	5.87	0.88	215.6	
1135	10.10	100	20.32	0.706	7.23	5.84	1.74	218.8	
			20	0.706	7.2	5.9	1.8	220	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] GEOPUMP (peristaltic) [ ] QED BLADDER
TYPE OF TUBING: [ ] HIGH DENSITY POLYETHYLENE [X] OTHER LDPE
TYPE OF PUMP MATERIAL: [ ] STAINLESS STEEL [ ] OTHER
TYPE OF BLADDER MATERIAL: [ ] TEFLON [ ] OTHER

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[X] VOC	8260B	HNO3 to pH <2	3 x 40ml	[X]
[ ] VOC	624	HNO3 to pH <2	2 x 40ml	[ ]
[X] TAL METALS	6010B/7470A/7141A	HNO3 to pH <2	500 ml poly	[X] ~~Field Filtered~~
[ ] TAL METALS (Dissolved)	6010B/7470A/7141A	HNO3 to pH <2	500 ml poly	[ ]
[ ] pH	150.1	4 DEG. C		[ ]
[ ] Cyanide	9010			[ ]
[ ] _____				[ ]

NOTES: 9-8-15 pumped well dry ~3.5 gal

SIGNATURE: Karl Zachar 9/29/15

LOCATION SKETCH

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

JOB NUMBER: 3612122251-04.****

PROJECT: NYSDEC Primoshield Inc.
FIELD SAMPLE NUMBER: 633027P104
SITE ID: (MW) P- 104
SITE TYPE: WELL
DATE: 9-8-15
ACTIVITY: START 1420 END 1515
SAMPLE TIME: 1520

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

PROTECTIVE CASING STICKUP (FROM GROUND): 2 x 1 FT
CASING / WELL DIFFER.: 0.33 FT
INITIAL DEPTH TO WATER: 7.23 FT
WELL DEPTH (TOR): 17.5 FT
PID AMBIENT AIR: — PPM
WELL DIAM.: 2" IN
FINAL DEPTH TO WATER: 8.40 FT
SCREEN LENGTH: 10 FT
PID WELL MOUTH: — PPM
DRAWDOWN VOLUME: .19 GAL
(initial - final x 0.16 {2-inch} or x 0.65 {4-inch})
RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: .08
PRESSURE TO PUMP: — PSI
TOTAL VOL. PURGED: 2.5 GAL
(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)
REFILL SETTING: —
DISCHARGE SETTING: —

WELL INTERGRITY:

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X		

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (deg. c)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (ntu)	ORP REDOX (mv)	COMMENTS
1420	Started Purging using Geo Pump								
1425	7.85	350	17.34	.582	7.31	1.80	3.76	259.2	1750
1430	7.97	300	17.49	.582	7.37	2.60	2.97	243.9	1000
1435	8.16	150	17.98	.578	7.45	3.33	2.94	236.1	
1440	8.21	150	18.36	.579	7.46	3.22	1.70	237.1	
1445	8.24	150	18.24	.582	7.46	3.19	1.16	232.6	
1450	8.30	150	18.24	.582	7.46	2.98	1.15	237.7	
1455	8.35	150	18.23	.583	7.44	2.77	1.77	236.15	
1500	8.40	150	18.25	.587	7.44	2.53	1.72	234.4	
1505	8.40	150	18.25	.589	7.43	2.43	1.65	234.8	
1510	8.40	150	18.35	.590	7.43	2.39	1.02	234.1	
1515	8.40	150	18.35	.592	7.44	2.33	1.11	234.7	6750
			18	0.592	7.4	2.3	1.1	230	

EQUIPMENT DOCUMENTATION

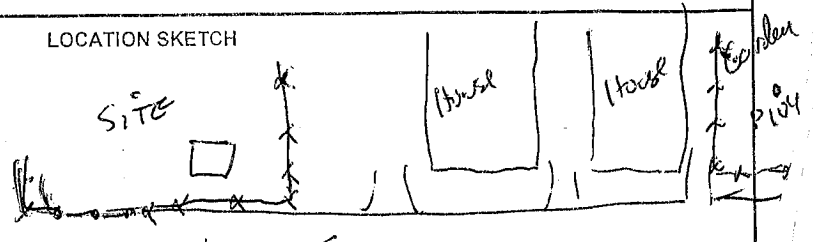
TYPE OF PUMP: [X] GEOPUMP (peristaltic) [ ] QED BLADDER
TYPE OF TUBING: [ ] HIGH DENSITY POLYETHYLENE [X] OTHER LDPE
TYPE OF PUMP MATERIAL: [ ] STAINLESS STEEL [ ] OTHER
TYPE OF BLADDER MATERIAL: [ ] TEFLON [ ] OTHER

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[X] VOC	8260B	HNO3 to pH <2	2 x 40ml	✓
[ ] VOC	624	HNO3 to pH <2	2 x 40ml	
[X] TAL METALS	6010B/7470A/7141A	HNO3 to pH <2	500 ml poly	✓ Field-Filtered
[ ] TAL METALS (Dissolved)	6010B/7470A/7141A	HNO3 to pH <2	500 ml poly	
[ ] pH	150.1	4 DEG. C		
[ ] Cyanide	9010			
[ ]				

NOTES: Also collected duplicate sample 633027P104 D

LOCATION SKETCH



SIGNATURE: Kent Lashbrook 9/28/15

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

JOB NUMBER: 3612122251-04.****

PROJECT: NYSDEC Primoshield Inc.
FIELD SAMPLE NUMBER: 633027 P105 ~~X~~
SITE ID: (MW) P- 105
SITE TYPE: WELL
DATE: 9-9-15
ACTIVITY: START 0900 END 1030
SAMPLE TIME: 1010

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	5.32 FT	WELL DEPTH (TOR)	17.95 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	2.9 FT
FINAL DEPTH TO WATER	7.70 FT	SCREEN LENGTH	10 FT	PID AMBIENT AIR	NA PPM
DRAWDOWN VOLUME	0.38 2 GAL	PID WELL MOUTH	NA PPM	CASING / WELL DIFFER.	0.46 FT
(initial - final x 0.16 {2-inch} or x 0.65 {4-inch})		PRESSURE TO PUMP	NA PSI	WELL DIAM.	2" IN
TOTAL VOL. PURGED	7+1.6=8.62 GAL	RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED	.104	REFILL SETTING	NA
(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)				DISCHARGE SETTING	NA

WELL INTERGRITY:

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	~~X~~	X	

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (deg. c)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
0925	Began purge with Geo pump								
0930	6.80	150	17.50	0.855	7.28	2.91	16.8	248.3	
0935	7.10	150	17.87	0.857	7.29	2.70	12.7	222.0	
0940	7.22	150	18.23	0.855	7.28	2.72	11.4	244.1	
0945	7.65	150	17.70	0.847	7.29	2.98	6.44	223.2	
0950	7.70	150	17.52	0.848	7.30	2.94	7.17	213.9	
0955	7.70	150	17.42	0.846	7.30	2.85	6.22	212.6	
1000	7.70	160	17.32	0.846	7.31	2.85	4.55	212.0	
1005	7.70	150	17.48	0.842	7.31	2.87	4.56	211.2	
			18	0.842	7.3	2.9	6.6	210	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] GEOPUMP (peristaltic) [ ] QED BLADDER

TYPE OF TUBING: [ ] HIGH DENSITY POLYETHYLENE [X] OTHER LDPE

TYPE OF PUMP MATERIAL: [ ] STAINLESS STEEL [ ] OTHER

TYPE OF BLADDER MATERIAL: [ ] TEFLON [ ] OTHER

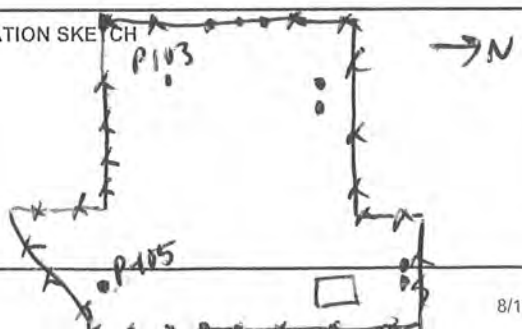
ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[X] VOC	8260B	HNO3 to pH <2	3 x 40ml	[ ]
[ ] VOC	624	HNO3 to pH <2	2 x 40ml	[ ]
[X] TAL METALS	6010B/7470A/7141A	HNO3 to pH <2	500 ml poly	[X] ~~Field Filtered~~
[ ] TAL METALS (Dissolved)	6010B/7470A/7141A	HNO3 to pH <2	500 ml poly	[ ]
[ ] pH	150.1	4 DEG. C		[ ]
[ ] Cyanide	9010			[ ]
[ ] _____				[ ]

NOTES: 9-8-15 purged well dry ~ 7gal

SIGNATURE: Karl Jacobson 9/29/15

LOCATION SKETCH



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

JOB NUMBER: 3612122251-04.****

PROJECT: NYSDEC Primoshield Inc.
FIELD SAMPLE NUMBER: G330927P1065
SITE ID: (MW) P-1065
SITE TYPE: WELL
DATE: 9-9-15
ACTIVITY: START 1215 END 1255
SAMPLE TIME: 1305

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [x] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	10.06 FT	WELL DEPTH (TOR)	18.25 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	4.1 FT
FINAL DEPTH TO WATER	12.55 FT	SCREEN LENGTH	10 FT	PID AMBIENT AIR	— PPM
DRAWDOWN VOLUME	.40 GAL	PID WELL MOUTH	— PPM	CASING / WELL DIFFER.	0.27 FT
(initial - final x 0.16 {2-inch} or x 0.65 {4-inch})		RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED		PRESSURE TO PUMP	— PSI
TOTAL VOL. PURGED	8+1.4 = 9.4 GAL	.04		REFILL SETTING	—
(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)				WELL DIAM.	2" IN

WELL INTERGRITY:

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X		

DISCHARGE SETTING: —

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (deg. c)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1215	Started pump to set flow								
1220	10.67	200	19.52	0.715	7.16	8.50	2.02	241.7	
1225	10.93	125	20.75	0.713	7.27	3.70	1.55	230.8	
1230	11.20	125	21.11	0.712	7.26	3.93	←	227.7	
1235	11.51	125	20.79	0.704	7.29	3.84	—	223.6	
1240	11.70	125	21.49	0.693	7.29	3.82	—	220.7	
1245	11.92	125	21.34	0.696	7.30	3.96	1.23	220.6	
1250	12.07	125	20.80	0.688	7.29	3.97	1.55	220.7	
1255	12.35	125	20.94	0.687	7.27	3.98	1.47	219.4	
			21	0.687	7.3	4.0	1.5	220	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [x] GEOPUMP (peristaltic) [ ] QED BLADDER
TYPE OF TUBING: [ ] HIGH DENSITY POLYETHYLENE [x] OTHER LDPE
TYPE OF PUMP MATERIAL: [ ] STAINLESS STEEL [ ] OTHER
TYPE OF BLADDER MATERIAL: [ ] TEFLON [ ] OTHER

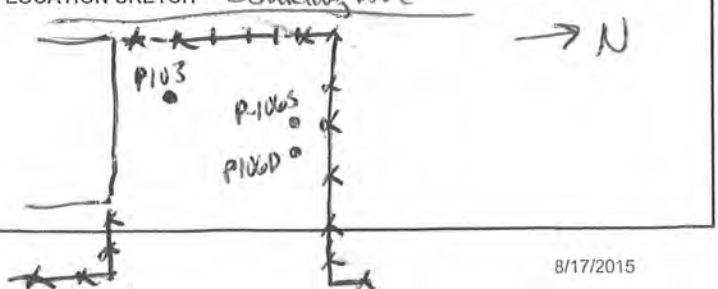
ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[x] VOC	8260B	HNO3 to pH <2	3 x 40ml	[x]
[ ] VOC	624	HNO3 to pH <2	2 x 40ml	[ ]
[x] TAL METALS	6010B/7470A/7141A	HNO3 to pH <2	500 ml poly	[x] Field Filtered
[ ] TAL METALS (Dissolved)	6010B/7470A/7141A	HNO3 to pH <2	500 ml poly	[ ]
[ ] pH	150.1	4 DEG. C		[ ]
[ ] Cyanide	9010			[ ]
[ ] _____				[ ]

NOTES: 9-8-15 purged well dry ~ 8gal

SIGNATURE: Karl Jadnus Ranlff 9/29/15

LOCATION SKETCH



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

JOB NUMBER: 3612122251-04.****

PROJECT	NYSDEC Primoshield Inc.	FIELD SAMPLE NUMBER	633027P107D
SITE ID	(MW) P- 1070	SITE TYPE	WELL
DATE	9/9/15		
ACTIVITY	START 1315 END 1800	SAMPLE TIME	1745

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	29.56 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	3.2 FT
CASING / WELL DIFFER.	0.48 FT	WELL DIAM.	2" IN
FINAL DEPTH TO WATER	30.07 FT	WELL DEPTH (TOR)	77.7 FT
PID AMBIENT AIR	— PPM	SCREEN LENGTH	10 FT
PID WELL MOUTH	— PPM	DRAWDOWN VOLUME	.08 GAL
PRESSURE TO PUMP	30 PSI	RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED	0.1
TOTAL VOL. PURGED	≈6 GAL	REFILL SETTING	14
DISCHARGE SETTING	6		

(initial - final x 0.16 {2-inch} or x 0.65 {4-inch})

(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL INTERGRITY:

	YES	NO	N/A
CAP	✓		
CASING	✓		
LOCKED	✓		
COLLAR		✓	

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (deg. c)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1357	29.61	Start pump							
1411	29.82	110	23.9	0.451	10.9	7.8	58	-18	
1415	29.80	105	20.9	0.428	10.8	4.4	29	-28	
1420	29.83	105	19.7	0.410	10.7	2.8	29	-37	
1426	29.84	105	19.4	0.397	10.6	1.9	34	-48	
1430	29.85	—	19.5	0.385	10.5	1.6	38	-56	
Rainshower - getting equipment under cover									
1452	29.97	115	18.8	0.336	9.9	0.5	88	-94	
1500	29.92	~~115~~ 90	18.7	0.331	9.8	0.4	~~100~~ 99	-101	
1505	29.99	90	19.3	0.328	9.8	0.4	139	-104	
~~1510~~			19.3	0.327	9.7	0.4	190	-108	
1512	29.97	90							
1520	29.95	↓	19.2	0.326	9.5	0.4	270	-110	
1525	29.97	90	19.3	0.333	9.4	0.3	380	-107	
1530	29.98	↓	19.3	0.386	9.2	0.3	420	-106	
1535	29.99	↓	19.3	0.452	9.0	0.3	440	-102	
1540	29.98	90	19.2	0.484	8.9	0.3	390	-95	
1550	29.98	90	19.2	0.530	8.8	0.3	360	-90	
1600	30.01	90	18.5	0.539	8.7	0.2	300	-84	
1610	30.02	90	18.1	0.547	8.7	0.2	240	-82	
1620	30.08	90	18.1	0.547	8.7	0.2	210	-83	Parameters stable except
1630	30.04	↓	18.6	0.547	8.8	0.2	170	-88	for turbidity going to let
1710	30.08	85	19.0	0.558	8.7	0.2	95	-87	purge for a while-
1715	30.07	↓	19.2	0.556	8.7	0.2	86	-90	
1720	30.08	85	19.2	0.557	8.7	0.2	79	-91	

EQUIPMENT DOCUMENTATION

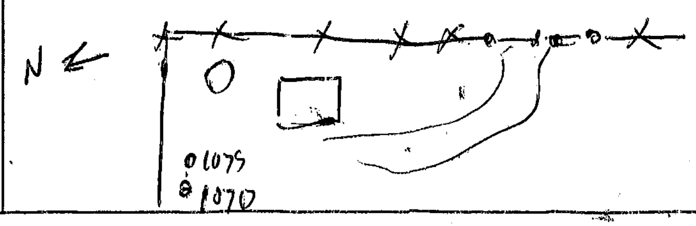
TYPE OF PUMP	TYPE OF TUBING	TYPE OF PUMP MATERIAL	TYPE OF BLADDER MATERIAL
[ ] GEOPUMP (peristaltic)	[ ] HIGH DENSITY POLYETHYLENE	[X] STAINLESS STEEL	[X] TEFLON
[X] QED BLADDER	[X] OTHER LDPE	[ ] OTHER Pump #9977	[ ] OTHER

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[X] VOC	8260B	HNO3 to pH <2	3 x 40ml	[X]
[ ] VOC	624	HNO3 to pH <2	2 x 40ml	[ ]
[X] TAL METALS	6010B/7470A/7141A	HNO3 to pH <2	500 ml poly	[X] ~~Field Filtered~~
[ ] TAL METALS (Dissolved)	6010B/7470A/7141A	HNO3 to pH <2	500 ml poly	[ ]
[ ] pH	150.1	4 DEG. C		[ ]
[ ] Cyanide	9010			[ ]
[ ] ________				[ ]

NOTES:

LOCATION SKETCH



BPW 9/29/15

SIGNATURE: Jerry Rudolph

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

JOB NUMBER 3612122251-04.****

PROJECT NYSDEC Primoshield Inc.

FIELD SAMPLE NUMBER 433027 P1075

SITE ID (MW) P- 1075

SITE TYPE WELL

DATE 9-9-15

ACTIVITY START 9/8/15 - END 1430

SAMPLE TIME 1410

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT
[X] TOP OF WELL RISER
[ ] TOP OF PROTECTIVE CASING

PROTECTIVE CASING STICKUP (FROM GROUND) 2.9 FT

CASING / WELL DIFFER. 0.23 FT

INITIAL DEPTH TO WATER 10.80 FT

WELL DEPTH (TOR) 16.9 FT

PID AMBIENT AIR — PPM

WELL DIAM. 2" IN

FINAL DEPTH TO WATER 13.48 FT

SCREEN LENGTH 10' FT

PID WELL MOUTH — PPM

WELL INTERGRITY:

	YES	NO	N/A
CAP	X	—	—
CASING	X	—	—
LOCKED	X	—	—
COLLAR	X	—	—

DRAWDOWN VOLUME 0.49 GAL
(initial - final x 0.16 {2-inch} or x 0.65 {4-inch})

RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED .07

PRESSURE TO PUMP — PSI

TOTAL VOL. PURGED 4+2.7=6.7 GAL
(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

REFILL SETTING —

DISCHARGE SETTING —

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (deg. c)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
9-8-15	Purge 4 gal with a whale pump								
9-9-15									
0750	Began pumping with Geo Pump							NR	
0755	11.45	250	16.53	0.714	4.90	4.14	225	254.0	
0800	12.50	200	16.79	0.715	4.80	4.25	156	254.0	
0805	12.65	150	17.08	0.725	4.82	4.58	150	254.4	
0810	12.73	150	17.35	0.730	4.93	4.34	99.4	254.4	
0815	12.90	150	17.60	0.737	6.84	4.44	46.3	254.7	
0820	13.0	150	17.59	0.743	4.86	4.40	18.7	254.5	
0820	13.17	125	17.96	0.744	4.88	4.46	19.5	254.8	
0825	13.40	100	17.96	0.741	4.89	5.58	19.3	255.0	
0830	13.42	100	18.00	0.736	4.89	5.21	34.1	254.9	
0835	13.42	100	18.60	0.735	4.89	5.60	49.4	254.8	
0840	13.70	100	18.63	0.734	4.91	5.65	47.5	254.7	
~~0900~~	~~Pump off~~								NR
0900	13.40								NR
~~1350~~	~~Began~~								
1350	11.90	Began pumping to set flow Rate	19.39	.737	7.01	5.14	62.9	-53.9	
1355	12.77	200	19.29	0.771	7.06	4.92	33.5	45.6	
1400	13.07	200	20.37	0.782	7.03	5.33	32.2	97.1	
1405	13.42	200							
			20	0.782	7.0	5.3	32	97	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP
[X] GEOPUMP (peristaltic)
[ ] QED BLADDER

TYPE OF TUBING
[ ] HIGH DENSITY POLYETHYLENE
[X] OTHER LDPE

TYPE OF PUMP MATERIAL
[ ] STAINLESS STEEL
[ ] OTHER

TYPE OF BLADDER MATERIAL
[ ] TEFLON
[ ] OTHER

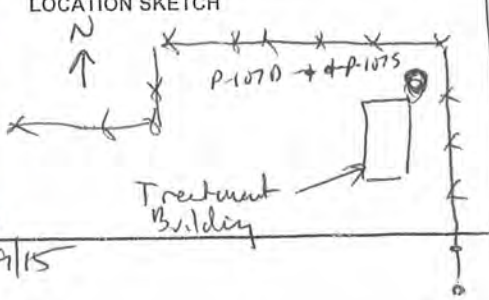
ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[X] VOC	8260B	HNO3 to pH <2	3 x 40ml	[X]
[ ] VOC	624	HNO3 to pH <2	2 x 40ml	[ ]
[X] TAL METALS	6010B/7470A/7141A	HNO3 to pH <2	500 ml poly	[X] ~~Field Filtered~~
[ ] TAL METALS (Dissolved)	6010B/7470A/7141A	HNO3 to pH <2	500 ml poly	[ ]
[ ] pH	150.1	4 DEG. C		[ ]
[ ] Cyanide	9010			[ ]
[ ] _____				[ ]

NOTES: 0840 Turbidity increasing and Lost flow. Shut pump off to recharge well. 0900 Attempted To Tighten The influent Tubing but still no flow. 1350 Resumed purging and collected Sample

SIGNATURE: Karl Locher

LOCATION SKETCH



Primoshield GW LOWFLOW.xlsx/LF PRIMOSHIELD

9/29/15

8/17/2015

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

JOB NUMBER: 3612122251-04.****

PROJECT: NYSDEC Primoshield Inc.
FIELD SAMPLE NUMBER: 633027 M06D
SITE ID: (MW) P-106D
SITE TYPE: WELL
DATE: 9/4/15
ACTIVITY: START 0800 END 1045
SAMPLE TIME: 1030

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [x] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER: 29.16 FT
FINAL DEPTH TO WATER: 31.01 FT
DRAWDOWN VOLUME: 0.3 GAL (initial - final x 0.16 {2-inch} or x 0.65 {4-inch})
TOTAL VOL. PURGED: 3.1 GAL (purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)

WELL DEPTH (TOR): 77.7 FT
SCREEN LENGTH: 10 FT
RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED: 0.1

PROTECTIVE CASING STICKUP (FROM GROUND): 3.9' FT
PID AMBIENT AIR: — PPM
PID WELL MOUTH: — PPM
PRESSURE TO PUMP: 35 PSI
REFILL SETTING: 15.5

CASING / WELL DIFFER.: 0.39' FT
WELL DIAM.: 2 IN

WELL INTERGRITY:

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR		X	

DISCHARGE SETTING: 4.5

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (deg. c)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (ntu)	ORP ~~REDOX~~ (mv)	COMMENTS
0820	28.79	Start pump and set rate							
0832	30.29	150	17.6	0.375	10.7	4.2	13.3	152	
0840	30.77	150	16.1	0.366	10.8	1.9	13.4	101	
0846	30.75	100	16.5	0.364	10.9	1.6	11.4	74	
0850	30.76	↓	17.0	0.364	11.0	1.6	12.0	63	Sun coming out getting
0855	30.78	95	17.4	0.363	11.0	1.4	11.6	46	hot.
0900	30.79	↓	17.7	0.361	11.0	1.3	12.5	37	
0910	30.75	95	17.7	0.355	11.0	1.1	15.1	17	
0920	30.84	95	17.7	0.348	11.0	1.0	15.2	-17	
0930	30.92	95	17.8	0.336	10.9	0.8	17.8	-62	
0940	30.86	~~85~~	18.5	0.322	10.7	0.6	17.9	-102	
0950	30.79	80	18.8	0.318	10.5	0.5	17.9	-126	
1000	30.80	↓	18.9	0.321	10.3	0.5	17.3	-139	Controller sticks with
1005	30.98	85	18.6	0.328	10.2	0.4	17.4	-145	pressure on every now &
1010	30.96	85	18.5	0.333	10.0	0.4	19.3	-151	again.
1015	30.98	85	18.6	0.343	10.0	0.4	16.8	-153	
1020	30.99	85	18.5	0.348	10.0	0.3	17.1	-157	
1025	31.01	85	18.9	0.353	9.9	0.3	14.8	-161	
			19	0.353	9.9	0.3	14.8	-160	

EQUIPMENT DOCUMENTATION

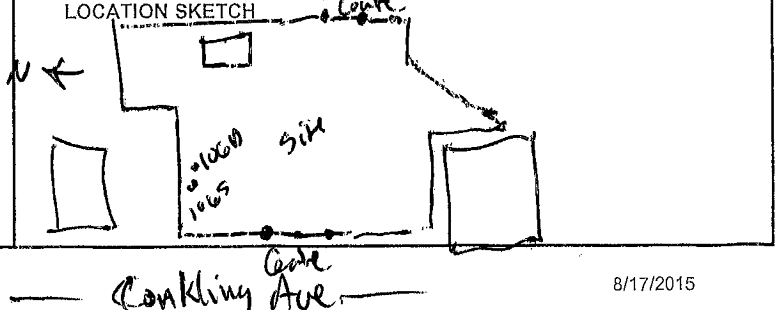
TYPE OF PUMP: [ ] GEOPUMP (peristaltic) [x] QED BLADDER
TYPE OF TUBING: [ ] HIGH DENSITY POLYETHYLENE [x] OTHER LDPE
TYPE OF PUMP MATERIAL: [x] STAINLESS STEEL [ ] OTHER Pump # 4989
TYPE OF BLADDER MATERIAL: [x] TEFLON [ ] OTHER

ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[x] VOC	8260B	HNO3 to pH <2	3 ~~2~~ x 40ml	[x]
[ ] VOC	624	HNO3 to pH <2	2 x 40ml	[ ]
[x] TAL METALS	6010B/7470A/7141A	HNO3 to pH <2	500 ml poly	[x] ~~Field Filtered~~
[ ] TAL METALS (Dissolved)	6010B/7470A/7141A	HNO3 to pH <2	500 ml poly	[ ]
[ ] pH	150.1	4 DEG. C		[ ]
[ ] Cyanide	9010			[ ]
[ ] ________				[ ]

NOTES: Protective casings a little loose - no concrete collars - Otherwise OK

LOCATION SKETCH



SIGNATURE: [signature] [initials] 9/29/15

FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

JOB NUMBER: 3612122251-04.****

PROJECT: NYSDEC Primoshield Inc.
FIELD SAMPLE NUMBER: 633027P107D
SITE ID: (MW) P-107D
SITE TYPE: WELL
DATE: 9/9/15
ACTIVITY: START 1315 END 1800
SAMPLE TIME: 1745

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	29.56 FT	WELL DEPTH (TOR)	77.7 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	3.2 FT
FINAL DEPTH TO WATER	30.07 FT	SCREEN LENGTH	10 FT	CASING / WELL DIFFER.	0.45 FT
DRAWDOWN VOLUME	.08 GAL	PID AMBIENT AIR	— PPM	WELL DIAM.	2" IN
(initial - final x 0.16 {2-inch} or x 0.65 {4-inch})		PID WELL MOUTH	— PPM		
TOTAL VOL. PURGED	≈6 GAL	RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED	.01	PRESSURE TO PUMP	30 PSI
(purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)				REFILL SETTING	14
				DISCHARGE SETTING	6

WELL INTERGRITY:

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR		X	

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (deg. c)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (ntu)	ORP REDOX (mv)	COMMENTS
1725	30.08	85	18.8	0.560	8.7	0.2	73	-90	
1730	30.07	80	18.5	0.555	8.7	0.2	70	-89	
1735							63		
1738							57		
1747							52		
1752							49		Collecting analytical samples
1800							43		
			19	0.558	8.7	0.2	43	-90	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [ ] GEOPUMP (peristaltic) [X] QED BLADDER
TYPE OF TUBING: [ ] HIGH DENSITY POLYETHYLENE [X] OTHER LDPE
TYPE OF PUMP MATERIAL: [X] STAINLESS STEEL [ ] OTHER #9977 Pump
TYPE OF BLADDER MATERIAL: [X] TEFLON [ ] OTHER

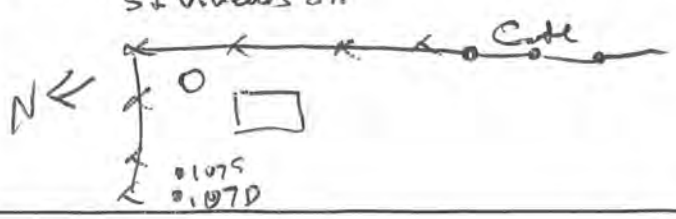
ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[X] VOC	8260B	HNO3 to pH <2	3 x 40ml	[X]
[ ] VOC	624	HNO3 to pH <2	2 x 40ml	[ ]
[X] TAL METALS	6010B/7470A/7141A	HNO3 to pH <2	500 ml poly	[X] Field-Filtered
[ ] TAL METALS (Dissolved)	6010B/7470A/7141A	HNO3 to pH <2	500 ml poly	[ ]
[ ] pH	150.1	4 DEG. C		[ ]
[ ] Cyanide	9010			[ ]
[ ]				[ ]

NOTES:

SIGNATURE: Jerry Rouleau BPW 9/29/15

LOCATION SKETCH



FIELD DATA RECORD - LOW FLOW GROUNDWATER SAMPLING

JOB NUMBER: 3612122251-04.****

PROJECT: NYSDEC Primoshield Inc.
FIELD SAMPLE NUMBER: 633027P108xx
SITE ID: (MW) P-108
SITE TYPE: WELL
DATE: 9/9/15
ACTIVITY: START 1400 END 1545
SAMPLE TIME: 1540

WATER LEVEL / PUMP SETTINGS

MEASUREMENT POINT: [X] TOP OF WELL RISER [ ] TOP OF PROTECTIVE CASING

INITIAL DEPTH TO WATER	8.70 FT	WELL DEPTH (TOR)	18.3 FT	PROTECTIVE CASING STICKUP (FROM GROUND)	2.55 FT
FINAL DEPTH TO WATER	10.57 FT	SCREEN LENGTH	10 FT	PID AMBIENT AIR	~ PPM
DRAWDOWN VOLUME (initial - final x 0.16 {2-inch} or x 0.65 {4-inch})	30 GAL	RATIO OF DRAWDOWN VOLUME TO TOTAL VOLUME PURGED	.04	PID WELL MOUTH	~ PPM
TOTAL VOL. PURGED (purge volume (milliliters per minute) x time duration (minutes) x 0.00026 gal/milliliter)	5+2=7 GAL			PRESSURE TO PUMP	~ PSI
				REFILL SETTING	~

CASING / WELL DIFFER.: 8.25 FT
WELL DIAM.: 2" IN

WELL INTERGRITY:

	YES	NO	N/A
CAP	X		
CASING	X		
LOCKED	X		
COLLAR	X		

DISCHARGE SETTING: ~

PURGE DATA

TIME	DEPTH TO WATER (ft)	PURGE RATE (ml/m)	TEMP. (deg. c)	SPECIFIC CONDUCTANCE (mS/cm)	pH (units)	DISS. O2 (mg/L)	TURBIDITY (ntu)	REDOX (mv)	COMMENTS
1435	Started pump to set flow rate								
1440	9.15	200	18.18	0.831					
1455	Started pump to set flow Rate								
1500	9.25	200	17.08	0.833	7.22	0.79	9.83	79.7	
1505	9.63	200	16.21	0.827	7.23	0.98	7.73	-10.4	
1510	9.80	150	16.57	0.825	7.24	~~9.81~~ 1.14	6.95	-30.1	DSS 1.13
1515	9.98	150	16.42	0.828	7.24	1.82	7.38	-33.1	
1520	10.15	150	16.43	0.827	7.25	2.40	7.06	-32.9	
1525	10.27	150	16.41	0.828	7.25	2.72	5.33	-32.8	
1530	10.35	150	16.44	0.828	7.25	2.76	5.10	-32.7	
1535	10.48	150	16.59	0.828	7.26	2.74	3.63	-33.7	
			17	0.828	7.3	2.7	3.6	-34	

EQUIPMENT DOCUMENTATION

TYPE OF PUMP: [X] GEOPUMP (peristaltic) [ ] QED BLADDER
TYPE OF TUBING: [ ] HIGH DENSITY POLYETHYLENE [X] OTHER LDPE
TYPE OF PUMP MATERIAL: [ ] STAINLESS STEEL [ ] OTHER
TYPE OF BLADDER MATERIAL: [ ] TEFLON [ ] OTHER

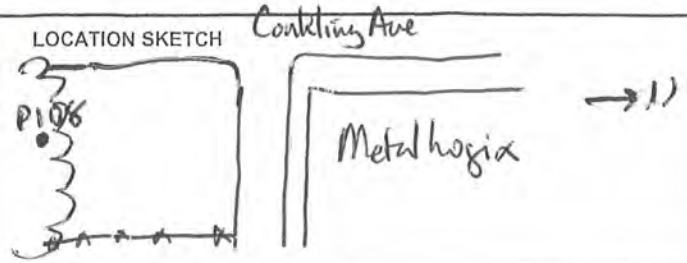
ANALYTICAL PARAMETERS

	METHOD NUMBER	PRESERVATION METHOD	VOLUME REQUIRED	SAMPLE COLLECTED
[X] VOC	8260B	HNO3 to pH <2	3 x 40ml	[X]
[ ] VOC	624	HNO3 to pH <2	2 x 40ml	[ ]
[X] TAL METALS	6010B/7470A/7141A	HNO3 to pH <2	500 ml poly	[X] ~~Field Filtered~~
[ ] TAL METALS (Dissolved)	6010B/7470A/7141A	HNO3 to pH <2	500 ml poly	[ ]
[ ] pH	150.1	4 DEG. C		[ ]
[ ] Cyanide	9010			[ ]
[ ] _____				[ ]

NOTES: 9-8-15 purged well dry ~ 5gal
1440 stopped pump due to heavy Rain

SIGNATURE: Karl Loehr 9/29/15

LOCATION SKETCH



WELL/PIEZOMETER CONSTRUCTION DIAGRAM
FLUSHMOUNT

LOCATION ID: GW-01

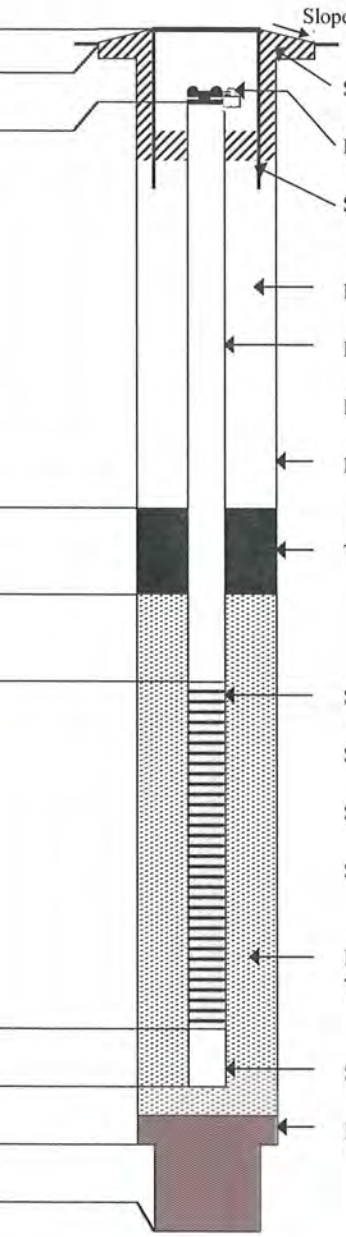
Project Name: PRIMOSHIELD
Project Location: Utica, NY
Project Number: 36121222251 Task Number .04
Subcontractor: Nothnagle Drilling Method: Direct Push
Development Method: Pump dry Development Date: 9/10/15
Bucking Posts/Ballards: NA
Notes: Microwell installed in new drought conditions

Date Started: 9/8/15 Date Completed: 9/8/15
Logged By: J. Rawcliffe
Checked By: Checked Date:

Measuring Point Information

Measuring Point (MP) Type: Top Of Riser
MP Elevation (ft):

Item	Depth BMP (ft)	Elevation (ft)	Description
Surface Casing Elevation			
Ground Surface Elevation			
Riser Pipe (Top)	0.41'		
Top of Well Seal	≈1' BGS		
Top of Sand Pack	≈6' BGS		
Top of Screen	~~7.4'~~ TOR ≈~~7.8'~~ BGS		
Base of Screen	17.4' TOR 17.8' BGS		
End Cap	17.5' TOR		
Drilled Depth	20' BGS		
Bottom of Exploration	20' BGS		
Bedrock Surface	NA		



Surface Seal Type: Cement
Lock Identification: —
Stickup Casing Diameter: 3"
Backfill/Grout Type: Bentonite powder
Riser Pipe Type: Sch40 PVC
Riser Pipe ID: 1"
Borehole Diameter: 2.25"
Type of Seal: Bentonite powder
Screen Type: Sch40PVC
Screen ID: 1"
Screen Slot Size: 0.01"
Screen Length: 10'
Filter/Sand Pack Type: #0 Filter sand
Sump:
Fallback/Backfill: —

NOT TO SCALE

MACTEC
511 Congress Street, Portland Maine 04101

FIGURE 4.8
WELL/PIEZOMETER CONSTRUCTION DIAGRAM - FLUSHMOUNT
NYSDEC QUALITY ASSURANCE PROJECT PLAN

SOIL BORING LOG

MACTEC
511 Congress Street, Portland Maine 04101

Project Name: Primoshield		Boring ID: GW-01
Project Location: Utica, NY		Page No. 1
Project No.: 3612122251	Client: NYS DEC	of: 2
Boring Location: 50' N of P-107S/107D	Refusal Depth: NA	Total Depth: 20'
Weather: Hazy, hot, humid 80-85°F	Soil Drilled: 20'	Method: Direct Push
Subcontractor: Nothnagle		Protection Level: D
Driller: Jeff Schwietzer	Date Started: 9/8/15	Date Completed: 9/8/15
Rig Type/Model: Geoprobe 6610DT	Logged By: J. Rawcliffe	Checked By: BPW 9/29/15
Reference Elevation:	Water Level: >17.5' TOR	Time: 9/9/15 1815
	15.51' TOR	9/10/15 1115

Sample Information					Monitoring				Sample Description and Classification	USCS Group Symbol	Remarks
Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)									
0.0					NA						
1	MC-1	3.3/4.0	–	–	–	–	–	–	0-0.4' Brown topsoil/fill. Sand and silt with roots. Dry.	Fill	
2									0.4-0.8 Gravel layer		
3									0.8-4.0 Brown to dark brown fine sand and silt with some to a little gravel and medium to coarse sand. Massive dry becoming moist near bottom. Apparent Fill		
4										Fill	
5	MC-2	0.4/4.0	–	–	–	–	–	–	Appear to have gone through a cobble or gravel layer. Very little recovery consisting of dry gray rock fragments		
6											
7										Fill?	
8											
9	MC-3	4.0/4.0	–	–	–	–	–	–	8-10.5 light brownish gray to light olive gray fine sand and silt with some med. to coarse sand and gravel, Dry, massive.		
10									10.5-10.7 Gravel layer, Dry.		
11									10.7-12' Brown to olive brown silty fine sand with a little med. to coarse sand and a trace of gravel. Very moist to wet	SM/GM	
12											
13	MC-4	4.0/4.0	–	–	–	–	–	–	Gray/Brown to olive gray silty fine sand with some medium to coarse sand and gravel, very moist		
14									Grades to light olive gray silty fine sand matrix with a little medium to coarse sand and gravel (TILL). Moist, massive	SM/GM	
15											
16											

NOTES:

SOIL BORING LOG

MACTEC
511 Congress Street, Portland Maine 04101

Project Name: Primoshield		Boring ID: GW-01
Project Location: Utica, NY		Page No. 2
Project No.: 3612122251	Client: NYS DEC	of: 2
Boring Location: 50' N of P-1075/1070	Refusal Depth: NA	Total Depth: 20' BGS
Weather: Hazy, hot, humid 80-85°F	Soil Drilled: 20'	Method: Direct Push
Subcontractor: Nothnagle		Protection Level: D
Driller: Jeff Schwietzer	Date Started: 9/8/15	Date Completed: 9/8/15
Rig Type/Model: Geoprobe 6610DT	Logged By: J. Rawcliffe	Checked By: BPW 9/29/15
Reference Elevation:	Water Level: ~~17.75'~~ 17.75' TOR 15.91' TOR	Time: 9/9/15 1515 9/10/15 1115
		Bore Hole ~~ID~~/OD: 2.25"
		Casing Size: 1.5"/2.25"
		Sampler: MacroCore
		Sampler ID/OD: 1.5"/2.25"

Sample Information: Depth (feet bgs)	Sample Number	Penetration/ Recovery (feet)	Monitoring: NA	Sample Description and Classification	USCS Group Symbol	Remarks
~~0.0~~ 17 18 19 20	MC-5	4.0/4.0	– – – – – –	light olive gray to light brownish gray silty fine sand with a little medium to coarse sand and gravel. (TILL) Moist, massive, dense.		Soils appear to be very tight/dense unlikely to yield much water.
				Bottom of boring = 20' BGS No Refusal. Installing 1" ID Sch 40 PVC microwell screen ≈ 8-18' BGS sand ≈ 20-6' BGS bentonite ≈ 6-1' BGS		
				9/9/15 GW-01 measurements BOW = 17.50' TOR Stickup on casing = 0 GW to TOR = (Dry) TOC to TOR = 0.41'		

NOTES:

CATEGORY A REVIEW
SEPTEMBER 2015 GROUNDWATER SAMPLING PROGRAM
PRIMOSHIELD INCORPORATED SITE
UTICA, NEW YORK

1.0 INTRODUCTION

Groundwater samples were collected in September 2015 at the Primoshield Incorporated Site in Utica, New York, and shipped to ALS Environmental in Rochester, NY, for analysis. Samples were analyzed by one or more of the following methods:

- Volatile Organic Compounds (VOCs) by Method 8260C and EPA 624
- Metals (select list) by Method 6010C and 200.7
- Cyanide by Method 9012B
- pH by Method SM 4500-H+B

Results were reported in sample delivery groups (SDG):

- R1507571
- R1507572

Sample data included in this chemistry review is presented in the following tables:

- Table 1 – Summary of Samples and Analytical Methods
- Table 2 – Summary of Analytical Results
- Table 3 – Summary of Qualification Actions

Laboratory deliverables included:

- A Category A deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005) and

The Category A review included the following evaluations. Data review checklists are provided as Attachment A.

- Lab Report Narrative Review
- Data Package Completeness and COC records (Table 1 verification)
- Sample Preservation and Holding Times
- QC Blanks
- Field Duplicate Evaluation
- Reporting Limits
- Electronic Data Qualification and Verification

The following laboratory data qualifiers or data review qualifiers are used in the final data presentation:

U = target analyte is not detected at or above the reporting limit
J = concentration is estimated
UJ = target compound was not detected and the reporting limit is considered to be estimated

R = target compound was rejected

2.0 POTENTIAL DATA LIMITATIONS

Based on the Category A Review conducted the data meets the data quality objectives; however, the following potential limitations were identified:

- Results for copper and chromium in a subset of samples were qualified non-detect (U) based on blank contamination.
- A field duplicate sample was submitted for all analyses except pH and Cyanide. Good agreement was observed between the sample results indicating good sampling and analytical precision was obtained for this sampling event.
- All samples arrived at the lab outside acceptable temperature (12.9° C and 10.1° C). Based on professional judgement, all sample results for VOC and cyanide are qualified as estimated (J/UJ).
- Sample 633027effluent arrived at the lab outside of holdtime, and then analyzed outside of holdtime, for pH. The results for pH are rejected (R)

Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; July 2005.

Data Validator: Willie Stone

Date: 10/13/2015

Reviewed by: Julie Ricardi

Date: 10/14/2015

ATTACHMENT A

METALS

NYSDEC CATEGORY A REVIEW RECORD
Project: Primeshield
Method : 6010 | 200.7
Laboratory and SDG(s): ALS R1507571
Date: Oct-13, 2015
Reviewer: Willie Stone

Review Level [X] CATEGORY A

1. ☑ Case Narrative Review and Data Package Completeness COMMENTS
Were all the samples on the COC analyzed for the requested analyses? (YES) NO (circle one)
Are Field Sample IDs and Locations assigned correctly? (YES) NO (circle one)

All samples identified on the chain of custody were analyzed for the requested methods and results for all samples were reported by the laboratory.
No problems requiring rejection of analytical results were noted in the narrative.

2. ☑ Holding time and Sample Collection
Were all samples were all prepped and analyzed with the holding time (6 month). (YES) NO

All samples were properly collected and preserved, and all samples were analyzed within the method/project holding times.

3. ☑ QC Blanks
Are method blanks clean? YES (NO) (circle one) Chromium 6010 Copper

Laboratory blank summary forms were reviewed.

4. ☑ Matrix Spike
Were MS/MSDs submitted/analyzed? YES (NO)

Were all results were within 75-125% limits? YES NO (NA) (circle one)

5. ☑ Field Duplicates
Were Field Duplicates submitted/analyzed? (YES) NO
Aqueous RPD within limit? (20%) YES NO NA (circle one)
Soil RPD within limit? (35%) YES NO (NA) (circle one)

A field duplicate was collected at location _____. Good agreement was observed between the sample results indicating good sampling and analytical precision was obtained for this sampling event.

6. ☑ Reporting Limits: Were samples analyzed at a dilution? YES (NO) (circle one)

All samples were analyzed without dilutions.

7. ☑ Electronic Data Review and Edits. Does the EDD match the Form I's? (YES) NO (circle one)
No errors were found in the electronic data provided by the laboratory.

8. ☑ Table Review:
Table 1 (sample Listing), **Table 2** (results summary), **Table 3** (Reason Codes).
Were all tables produced? (YES) NO (circle one)

GENERAL CHEMISTRY

NYSDEC PROJECT CATEGORY A REVIEW RECORD
Project: Primafield
Method : Cyanide, pH
Laboratory and SDG(s): ALS R1507S1
Date: Oct. 13, 2015
Reviewer: Willie Stone
Review Level [X] Category A Review

1. [✓] **Case Narrative Review and Data Package Completeness**

   Where all the samples on the COC analyzed for the requested analyses? (YES) NO (circle one)
   Are Field Sample IDs and Locations assigned correctly? (YES) NO (circle one)

   All samples identified on the chain of custody were analyzed for the requested methods and results for all samples were reported by the laboratory.
   No problems requiring rejection of analytical results were noted in the narrative.

2. **Holding time and Sample Collection** – list problems requiring rejection of data
   Cyanide out of Temp, qualify. pH analyzed out of hold

3. [✓] **QC Blanks**
   Are method blanks free of contamination? (YES) NO (circle one)
   Are Rinse blanks free of contamination? YES NO (NA) (circle one)

   Laboratory blank summary forms were reviewed.

4. [✓] **Matrix Spike** (Lab Limits)

   Were MS/MSDs submitted/analyzed? YES (NO) (circle one)

   Were all results were within limits? YES NO (NA) (circle one)

5. [✓] **Field Duplicates** (RPD limits for soil=100, water = 50)
   Were Field Duplicates submitted/analyzed? YES (NO) Was 10-13-15
   Were RPDs within the limits? (YES) NO (NA) (circle one)

   A field duplicate was collected at location _____. Good agreement was observed between the sample results indicating good sampling and analytical precision was obtained for this sampling event.

6. [✓] **Reporting Limits:** Were samples analyzed at a dilution? (YES) NO (circle one)

   All samples were analyzed without dilutions.

7. [ ] **Electronic Data Review and Edits**

   Does the EDD match the Form I's? (YES) NO (circle one)

No errors were found in the electronic data provided by the laboratory.

8. [ ] **Table Review** **Table 1** (sample Listing), **Table 2** (results summary), **Table 3** (Reason Codes).
   Were all tables produced? (YES) NO (circle one)

VOCs

PROJECT CATEGORY A REVIEW RECORD
Project: Primoshield
Method : SW-846 8260B
Laboratory and SDG(s): ALS SDG# R1507571 / R1507571
Date: Oct 13, 2015
Reviewer: Willie Show
Review Level [X] CATEGORY A

1. [✓] **Case Narrative Review and COC/Data Package Completeness** COMMENTS
   Were problems noted?
   Were all the samples on the COC analyzed for the requested analyses? YES (NO) (circle one)
   Are Field Sample IDs and Locations assigned correctly? (YES) NO (circle one)

   All samples identified on the chain of custody were analyzed for the requested methods and results for all samples were reported by the laboratory.
   No problems requiring rejection of analytical results were noted in the narrative.

2. [✓] **Holding time and Sample Collection**
   All samples were analyzed within the 14 day holding time. (YES) NO (circle one)

   All samples were properly collected and preserved, and all samples were analyzed within the method/project holding times. no, arrived @ lab above temp, but on ice. qualify

3. [✓] **QC Blanks**
   Are method blanks free of contamination? (YES) NO (circle one)
   Are Trip blanks free of contamination? (YES) NO (circle one)
   Are Rinse blanks free of contamination? YES NO (NA) (circle one)

   Laboratory blank summary forms were reviewed.

4. [✓] **Matrix Spike** - Region II limits (water and soil 70-130%, water RPD 20, soil RPD 35)

   Were MS/MSDs submitted/analyzed? YES (NO)

   Were all results were within the Region II limits? YES NO (NA) (circle one)

5. [✓] **Field Duplicates** - Region II Limits (water RPD 50, soil RPD 100)

   Were Field Duplicates submitted/analyzed? (YES) NO

   Were all results were within Region II Limits? (YES) NO NA (circle one)

   A field duplicate was collected at location 633027P104 Good agreement was observed between the sample results indicating good sampling and analytical precision was obtained for this sampling event.

6. [✓] **Reporting Limits:** Were samples analyzed at a dilution? YES (NO) (circle one)

   ✓ All samples were analyzed without dilutions.

7. [ ] **Electronic Data Review and Edits**
   Does the EDD match the Form I's? (YES) NO (circle one)

   ✓ No errors were found in the electronic data provided by the laboratory.

8. [ ] **Table Review** **Table 1** (sample Listing), **Table 2** (results summary), **Table 3** (Reason Codes), **Table 4** (TIC's). Did lab report TICs? YES (NO) (circle one)

TABLE 1 - SAMPLE SUMMARY
CATEGORY A REVIEW
SEPTEMBER 2015 GROUNDWATER SAMPLING PROGRAM
PRIMOSHIELD INCORPORATED SITE
UTICA, NEW YORK

SDGs R1507571 and R1507572

						Method Class	VOCs	VOCs	Metals	Metals	Cyanide	Temp/Ph
						Analysis Method	E624	SW8260C	E200.7	SW6010C	SW9012B	SM 4500-H+B
						Fraction	T	T	T	T	T	T
SDG	Location	Sample ID	Sample Date	Media	Qc Code		Count	Count	Count	Count	Count	Count
R1507571	Effluent	633027EFFLUENT	9/8/2015	NA-L	FS		35		6		1	1
R1507571	P-101D	633027P101D	9/9/2015	GW	FS			35		6		
R1507571	P-103	633027P103XX	9/9/2015	GW	FS			35		6		
R1507571	P-104	633027P104	9/8/2015	GW	FS			35		6		
R1507571	P-104D	633027P104D	9/8/2015	GW	FS			35		6		
R1507571	P-105	633027P105XX	9/9/2015	GW	FS			35		6		
R1507571	P-106D	633027P106D	9/9/2015	GW	FS			35		6		
R1507571	P-106S	633027P106SXX	9/9/2015	GW	FS			35		6		
R1507571	P-107D	633027P107D	9/9/2015	GW	FS			35		6		
R1507571	P-107S	633027P107S	9/9/2015	GW	FS			35		6		
R1507571	P-108	633027P108XX	9/9/2015	GW	FS			35		6		
R1507572	GW-01	633027GW01	9/10/2015	GW	FS			35				

Notes:
GW = Groundwater sample
FS = Field sample
T = Total fraction
NA-L = Liquid

Created by: BJS
October 13, 2015
Reviewed by: WAS
October 13, 2015

TABLE 2 - ANALYTICAL SUMMARY
CATEGORY A REVIEW
SEPTEMBER 2015 GROUNDWATER SAMPLING PROGRAM
PRIMOSHIELD INCORPORATED SITE
UTICA, NEW YORK
SDG R1507571

		SDG	R1507571		R1507571		R1507571		R1507571		R1507571		R1507571	
		Location	Effluent		P-101D		P-103		P-104		P-104D		P-105	
		Sample Date	9/8/2015		9/9/2015		9/9/2015		9/8/2015		9/8/2015		9/9/2015	
		Sample ID	633027EFFLUENT		633027P101D		633027P103XX		633027P104		633027P104D		633027P105XX	
		Qc Code	FS		FS		FS		FS		FS		FS	
Class	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	1,1,1-Trichloroethane	ug/l	9.5	J	1	UJ	6.9	J	1	UJ	1	UJ	1	UJ
VOCs	1,1,2,2-Tetrachloroethane	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	1,1,2-Trichloroethane	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	1,1-Dichloroethane	ug/l	1.2	J	1	UJ	1.8	J	1	UJ	1	UJ	1	UJ
VOCs	1,1-Dichloroethene	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	1,2-Dichlorobenzene	ug/l	1	UJ										
VOCs	1,2-Dichloroethane	ug/l	1	UJ	1	UJ	0.95	J	1	UJ	1	UJ	1	UJ
VOCs	1,2-Dichloropropane	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	1,3-Dichlorobenzene	ug/l	1	UJ										
VOCs	1,4-Dichlorobenzene	ug/l	1	UJ										
VOCs	2-Butanone	ug/l			5	UJ	5	UJ	5	UJ	5	UJ	5	UJ
VOCs	2-Chloroethyl vinyl ether	ug/l	10	UJ										
VOCs	2-Hexanone	ug/l			5	UJ	5	UJ	5	UJ	5	UJ	5	UJ
VOCs	4-Methyl-2-pentanone	ug/l			5	UJ	5	UJ	5	UJ	5	UJ	5	UJ
VOCs	Acetone	ug/l			5	UJ	1.7	J	5	UJ	5	UJ	5	UJ
VOCs	Acrolein	ug/l	10	UJ										
VOCs	Acrylonitrile	ug/l	10	UJ										
VOCs	Benzene	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Bromodichloromethane	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Bromoform	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Bromomethane	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Carbon disulfide	ug/l			1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Carbon tetrachloride	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Chlorobenzene	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Chloroethane	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Chloroform	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Chloromethane	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Cis-1,2-Dichloroethene	ug/l			1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Cis-1,3-Dichloropropene	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Dibromochloromethane	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ

Created by: BJS
October 13, 2015
Reviewed by: WAS
October 13, 2015

TABLE 2 - ANALYTICAL SUMMARY
CATEGORY A REVIEW
SEPTEMBER 2015 GROUNDWATER SAMPLING PROGRAM
PRIMOSHIELD INCORPORATED SITE
UTICA, NEW YORK
SDG R1507571

		SDG	R1507571		R1507571		R1507571		R1507571		R1507571		R1507571	
		Location	Effluent		P-101D		P-103		P-104		P-104D		P-105	
		Sample Date	9/8/2015		9/9/2015		9/9/2015		9/8/2015		9/8/2015		9/9/2015	
		Sample ID	633027EFFLUENT		633027P101D		633027P103XX		633027P104		633027P104D		633027P105XX	
		Qc Code	FS		FS		FS		FS		FS		FS	
Class	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	Ethyl benzene	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Methylene chloride	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Styrene	ug/l			1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Tetrachloroethene	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Toluene	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	trans-1,2-Dichloroethene	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	trans-1,3-Dichloropropene	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Trichloroethene	ug/l	17	J	1	UJ	1.6	J	1	UJ	1	UJ	1	UJ
VOCs	Trichlorofluoromethane	ug/l	1	UJ										
VOCs	Vinyl chloride	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Xylene, o	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Xylenes (m&p)	ug/l	2	UJ	2	UJ	2	UJ	2	UJ	2	UJ	2	UJ
Metals	Cadmium	ug/l	5	U	5	U	5	U	5	U	5	U	5	U
Metals	Chromium	ug/l	10	U	10	U	10	U	10	U	10	U	10	U
Metals	Copper	ug/l	20	U	20	U	20	U	20	U	20	U	20	U
Metals	Lead	ug/l	50	U	50	U	50	U	50	U	5	J	50	U
Metals	Nickel	ug/l	68		40	U	40	U	3	J	40	U	3	J
Metals	Zinc	ug/l	21		20	U	20	U	20	U	20	U	20	U
Cyanide	Cyanide, Total	mg/l	0.01	U										
Temp/Ph	pH	ph units		R										

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TABLE 2 - ANALYTICAL SUMMARY
CATEGORY A REVIEW
SEPTEMBER 2015 GROUNDWATER SAMPLING PROGRAM
PRIMOSHIELD INCORPORATED SITE
UTICA, NEW YORK
SDG R1507571

		SDG	R1507571		R1507571		R1507571		R1507571		R1507571	
		Location	P-106D		P-106S		P-107D		P-107S		P-108	
		Sample Date	9/9/2015		9/9/2015		9/9/2015		9/9/2015		9/9/2015	
		Sample ID	633027P106D		633027P106SXX		633027P107D		633027P107S		633027P108XX	
		Qc Code	FS		FS		FS		FS		FS	
Class	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	1,1,1-Trichloroethane	ug/l	1	UJ	1.7	J	1	UJ	1.6	J	1	UJ
VOCs	1,1,2,2-Tetrachloroethane	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	1,1,2-Trichloroethane	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	1,1-Dichloroethane	ug/l	1	UJ	1	UJ	1	UJ	1.9	J	1	UJ
VOCs	1,1-Dichloroethene	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	1,2-Dichlorobenzene	ug/l										
VOCs	1,2-Dichloroethane	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	1,2-Dichloropropane	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	1,3-Dichlorobenzene	ug/l										
VOCs	1,4-Dichlorobenzene	ug/l										
VOCs	2-Butanone	ug/l	5	UJ	5	UJ	5	UJ	5	UJ	5	UJ
VOCs	2-Chloroethyl vinyl ether	ug/l										
VOCs	2-Hexanone	ug/l	5	UJ	5	UJ	5	UJ	5	UJ	5	UJ
VOCs	4-Methyl-2-pentanone	ug/l	5	UJ	5	UJ	5	UJ	5	UJ	5	UJ
VOCs	Acetone	ug/l	5	UJ	5	UJ	3.2	J	5.8	J	1.4	J
VOCs	Acrolein	ug/l										
VOCs	Acrylonitrile	ug/l										
VOCs	Benzene	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Bromodichloromethane	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Bromoform	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Bromomethane	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Carbon disulfide	ug/l	0.37	J	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Carbon tetrachloride	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Chlorobenzene	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Chloroethane	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Chloroform	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Chloromethane	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Cis-1,2-Dichloroethene	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Cis-1,3-Dichloropropene	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Dibromochloromethane	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ

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TABLE 2 - ANALYTICAL SUMMARY
CATEGORY A REVIEW
SEPTEMBER 2015 GROUNDWATER SAMPLING PROGRAM
PRIMOSHIELD INCORPORATED SITE
UTICA, NEW YORK
SDG R1507571

		SDG	R1507571		R1507571		R1507571		R1507571	
		Location	P-106D		P-106S		P-107D		P-107S		P-108	
		Sample Date	9/9/2015		9/9/2015		9/9/2015		9/9/2015		9/9/2015	
		Sample ID	633027P106D		633027P106SXX		633027P107D		633027P107S		633027P108XX	
		Qc Code	FS		FS		FS		FS		FS	
Class	Parameter	Units	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
VOCs	Ethyl benzene	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Methylene chloride	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Styrene	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Tetrachloroethene	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Toluene	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	trans-1,2-Dichloroethene	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	trans-1,3-Dichloropropene	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Trichloroethene	ug/l	1	UJ	0.92	J	1	UJ	9.5	J	1	UJ
VOCs	Trichlorofluoromethane	ug/l										
VOCs	Vinyl chloride	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Xylene, o	ug/l	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
VOCs	Xylenes (m&p)	ug/l	2	UJ	2	UJ	2	UJ	2	UJ	2	UJ
Metals	Cadmium	ug/l	5	U	5	U	5	U	1.8	J	5	U
Metals	Chromium	ug/l	10	U	10	U	10	U	10	U	10	U
Metals	Copper	ug/l	20	U	20	U	20	U	20	U	20	U
Metals	Lead	ug/l	50	U	50	U	50	U	6	J	50	U
Metals	Nickel	ug/l	40	U	5	J	40	U	139		40	U
Metals	Zinc	ug/l	20	U	20	U	20	U	20	U	20	U
Cyanide	Cyanide, Total	mg/l										
Temp/Ph	pH	ph units										

Created by: BJS
October 13, 2015
Reviewed by: WAS
October 13, 2015

TABLE 2 - ANALYTICAL SUMMARY
CATEGORY A REVIEW
SEPTEMBER 2015 GROUNDWATER SAMPLING PROGRAM
PRIMOSHIELD INCORPORATED SITE
UTICA, NEW YORK
SDG R1507572

		SDG	R1507572	
		Location	GW-01	
		Sample Date	9/10/2015	
		Sample ID	633027GW01	
		Qc Code	FS	
Class	Parameter	Units	Result	Qualifier
VOCs	1,1,1-Trichloroethane	ug/l	1	UJ
VOCs	1,1,2,2-Tetrachloroethane	ug/l	1	UJ
VOCs	1,1,2-Trichloroethane	ug/l	1	UJ
VOCs	1,1-Dichloroethane	ug/l	1	UJ
VOCs	1,1-Dichloroethene	ug/l	1	UJ
VOCs	1,2-Dichloroethane	ug/l	1	UJ
VOCs	1,2-Dichloropropane	ug/l	1	UJ
VOCs	2-Butanone	ug/l	5	UJ
VOCs	2-Hexanone	ug/l	5	UJ
VOCs	4-Methyl-2-pentanone	ug/l	5	UJ
VOCs	Acetone	ug/l	2.6	J
VOCs	Benzene	ug/l	1	UJ
VOCs	Bromodichloromethane	ug/l	1	UJ
VOCs	Bromoform	ug/l	1	UJ
VOCs	Bromomethane	ug/l	1	UJ
VOCs	Carbon disulfide	ug/l	1	UJ
VOCs	Carbon tetrachloride	ug/l	1	UJ
VOCs	Chlorobenzene	ug/l	1	UJ
VOCs	Chloroethane	ug/l	1	UJ
VOCs	Chloroform	ug/l	1	UJ
VOCs	Chloromethane	ug/l	1	UJ
VOCs	Cis-1,2-Dichloroethene	ug/l	1	UJ
VOCs	Cis-1,3-Dichloropropene	ug/l	1	UJ
VOCs	Dibromochloromethane	ug/l	1	UJ
VOCs	Ethyl benzene	ug/l	1	UJ
VOCs	Methylene chloride	ug/l	1	UJ
VOCs	Styrene	ug/l	1	UJ
VOCs	Tetrachloroethene	ug/l	1	UJ
VOCs	Toluene	ug/l	1	UJ
VOCs	trans-1,2-Dichloroethene	ug/l	1	UJ

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October 13, 2015

TABLE 2 - ANALYTICAL SUMMARY
CATEGORY A REVIEW
SEPTEMBER 2015 GROUNDWATER SAMPLING PROGRAM
PRIMOSHIELD INCORPORATED SITE
UTICA, NEW YORK
SDG R1507572

		SDG	R1507572	
		Location	GW-01	
		Sample Date	9/10/2015	
		Sample ID	633027GW01	
		Qc Code	FS	
Class	Parameter	Units	Result	Qualifier
VOCs	trans-1,3-Dichloropropene	ug/l	1	UJ
VOCs	Trichloroethene	ug/l	1	UJ
VOCs	Vinyl chloride	ug/l	1	UJ
VOCs	Xylene, o	ug/l	1	UJ
VOCs	Xylenes (m&p)	ug/l	2	UJ

Notes:
ug/l = microgram per liter
mg/l = milligram per liter
FS = Field sample
J = Result is estimated
R = Result is rejected
U = Result is not detected at the reporting limit
UJ = Result is not detected and estimated
T = Total fraction

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October 13, 2015
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October 13, 2015

TABLE 3 - QUALIFICATION ACTION SUMMARY
CATEGORY A REVIEW
SEPTEMBER 2015 GROUNDWATER SAMPLING PROGRAM
PRIMOSHIELD INCORPORATED SITE
UTICA, NEW YORK
SDGs R1507571 and R1507572

SDG	Analysis Method	Lab Sample Id	Field Sample ID	Parameter Name	Lab Result	Lab Qualifier	Validated Result	Validation Qualifier	Validation Code	Units
R1507571	E624	R1507571-003	633027EFFLUENT	1,1,1-Trichloroethane	9.5		9.5	J	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	1,1,2,2-Tetrachloroethane	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	1,1,2-Trichloroethane	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	1,1-Dichloroethane	1.2		1.2	J	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	1,1-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	1,2-Dichlorobenzene	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	1,2-Dichloroethane	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	1,2-Dichloropropane	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	1,3-Dichlorobenzene	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	1,4-Dichlorobenzene	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	2-Chloroethyl vinyl ether	10	U	10	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	Acrolein	10	U	10	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	Acrylonitrile	10	U	10	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	Benzene	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	Bromodichloromethane	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	Bromoform	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	Bromomethane	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	Carbon tetrachloride	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	Chlorobenzene	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	Chloroethane	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	Chloroform	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	Chloromethane	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	Cis-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	Dibromochloromethane	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	Ethyl benzene	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	Methylene chloride	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	Tetrachloroethene	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	Toluene	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	trans-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	trans-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	Trichloroethene	17		17	J	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	Trichlorofluoromethane	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	Vinyl chloride	1	U	1	UJ	SP	ug/l
R1507571	E624	R1507571-003	633027EFFLUENT	Xylene, o	1	U	1	UJ	SP	ug/l

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TABLE 3 - QUALIFICATION ACTION SUMMARY
CATEGORY A REVIEW
SEPTEMBER 2015 GROUNDWATER SAMPLING PROGRAM
PRIMOSHIELD INCORPORATED SITE
UTICA, NEW YORK
SDGs R1507571 and R1507572

SDG	Analysis Method	Lab Sample Id	Field Sample ID	Parameter Name	Lab Result	Lab Qualifier	Validated Result	Validation Qualifier	Validation Code	Units
R1507571	E624	R1507571-003	633027EFFLUENT	Xylenes (m&p)	2	U	2	UJ	SP	ug/l
R1507571	SM 4500-H+B	R1507571-003	633027EFFLUENT	pH	7.06	H		R	HT-G	ph
R1507571	SW6010C	R1507571-001	633027P104	Chromium	0.6	BJ	10	U	BL1	ug/l
R1507571	SW6010C	R1507571-001	633027P104	Copper	6	BJ	20	U	BL1	ug/l
R1507571	SW6010C	R1507571-002	633027P104D	Chromium	0.9	BJ	10	U	BL1	ug/l
R1507571	SW6010C	R1507571-002	633027P104D	Copper	3	BJ	20	U	BL1	ug/l
R1507571	SW6010C	R1507571-004	633027P106D	Chromium	1	BJ	10	U	BL1	ug/l
R1507571	SW6010C	R1507571-004	633027P106D	Copper	3	BJ	20	U	BL1	ug/l
R1507571	SW6010C	R1507571-005	633027P101D	Chromium	0.6	BJ	10	U	BL1	ug/l
R1507571	SW6010C	R1507571-005	633027P101D	Copper	5	BJ	20	U	BL1	ug/l
R1507571	SW6010C	R1507571-006	633027P105XX	Chromium	0.5	BJ	10	U	BL1	ug/l
R1507571	SW6010C	R1507571-006	633027P105XX	Copper	4	BJ	20	U	BL1	ug/l
R1507571	SW6010C	R1507571-007	633027P103XX	Chromium	0.5	BJ	10	U	BL1	ug/l
R1507571	SW6010C	R1507571-009	633027P107S	Chromium	1	BJ	10	U	BL1	ug/l
R1507571	SW6010C	R1507571-011	633027P107D	Chromium	2	BJ	10	U	BL1	ug/l
R1507571	SW8260C	R1507571-001	633027P104	1,1,1-Trichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	1,1,2,2-Tetrachloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	1,1,2-Trichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	1,1-Dichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	1,1-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	1,2-Dichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	1,2-Dichloropropane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	2-Butanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	2-Hexanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	4-Methyl-2-pentanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	Acetone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	Benzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	Bromodichloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	Bromoform	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	Bromomethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	Carbon disulfide	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	Carbon tetrachloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	Chlorobenzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	Chloroethane	1	U	1	UJ	SP	ug/l

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TABLE 3 - QUALIFICATION ACTION SUMMARY
CATEGORY A REVIEW
SEPTEMBER 2015 GROUNDWATER SAMPLING PROGRAM
PRIMOSHIELD INCORPORATED SITE
UTICA, NEW YORK
SDGs R1507571 and R1507572

SDG	Analysis Method	Lab Sample Id	Field Sample ID	Parameter Name	Lab Result	Lab Qualifier	Validated Result	Validation Qualifier	Validation Code	Units
R1507571	SW8260C	R1507571-001	633027P104	Chloroform	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	Chloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	Cis-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	Cis-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	Dibromochloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	Ethyl benzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	Methylene chloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	Styrene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	Tetrachloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	Toluene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	trans-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	trans-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	Trichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	Vinyl chloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	Xylene, o	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-001	633027P104	Xylenes (m&p)	2	U	2	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	1,1,1-Trichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	1,1,2,2-Tetrachloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	1,1,2-Trichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	1,1-Dichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	1,1-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	1,2-Dichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	1,2-Dichloropropane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	2-Butanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	2-Hexanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	4-Methyl-2-pentanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	Acetone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	Benzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	Bromodichloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	Bromoform	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	Bromomethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	Carbon disulfide	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	Carbon tetrachloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	Chlorobenzene	1	U	1	UJ	SP	ug/l

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CATEGORY A REVIEW
SEPTEMBER 2015 GROUNDWATER SAMPLING PROGRAM
PRIMOSHIELD INCORPORATED SITE
UTICA, NEW YORK
SDGs R1507571 and R1507572

SDG	Analysis Method	Lab Sample Id	Field Sample ID	Parameter Name	Lab Result	Lab Qualifier	Validated Result	Validation Qualifier	Validation Code	Units
R1507571	SW8260C	R1507571-002	633027P104D	Chloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	Chloroform	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	Chloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	Cis-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	Cis-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	Dibromochloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	Ethyl benzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	Methylene chloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	Styrene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	Tetrachloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	Toluene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	trans-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	trans-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	Trichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	Vinyl chloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	Xylene, o	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-002	633027P104D	Xylenes (m&p)	2	U	2	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	1,1,1-Trichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	1,1,2,2-Tetrachloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	1,1,2-Trichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	1,1-Dichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	1,1-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	1,2-Dichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	1,2-Dichloropropane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	2-Butanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	2-Hexanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	4-Methyl-2-pentanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	Acetone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	Benzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	Bromodichloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	Bromoform	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	Bromomethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	Carbon disulfide	0.37	J	0.37	J	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	Carbon tetrachloride	1	U	1	UJ	SP	ug/l

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CATEGORY A REVIEW
SEPTEMBER 2015 GROUNDWATER SAMPLING PROGRAM
PRIMOSHIELD INCORPORATED SITE
UTICA, NEW YORK
SDGs R1507571 and R1507572

SDG	Analysis Method	Lab Sample Id	Field Sample ID	Parameter Name	Lab Result	Lab Qualifier	Validated Result	Validation Qualifier	Validation Code	Units
R1507571	SW8260C	R1507571-004	633027P106D	Chlorobenzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	Chloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	Chloroform	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	Chloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	Cis-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	Cis-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	Dibromochloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	Ethyl benzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	Methylene chloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	Styrene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	Tetrachloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	Toluene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	trans-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	trans-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	Trichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	Vinyl chloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	Xylene, o	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-004	633027P106D	Xylenes (m&p)	2	U	2	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	1,1,1-Trichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	1,1,2,2-Tetrachloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	1,1,2-Trichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	1,1-Dichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	1,1-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	1,2-Dichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	1,2-Dichloropropane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	2-Butanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	2-Hexanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	4-Methyl-2-pentanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	Acetone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	Benzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	Bromodichloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	Bromoform	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	Bromomethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	Carbon disulfide	1	U	1	UJ	SP	ug/l

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CATEGORY A REVIEW
SEPTEMBER 2015 GROUNDWATER SAMPLING PROGRAM
PRIMOSHIELD INCORPORATED SITE
UTICA, NEW YORK
SDGs R1507571 and R1507572

SDG	Analysis Method	Lab Sample Id	Field Sample ID	Parameter Name	Lab Result	Lab Qualifier	Validated Result	Validation Qualifier	Validation Code	Units
R1507571	SW8260C	R1507571-005	633027P101D	Carbon tetrachloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	Chlorobenzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	Chloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	Chloroform	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	Chloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	Cis-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	Cis-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	Dibromochloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	Ethyl benzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	Methylene chloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	Styrene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	Tetrachloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	Toluene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	trans-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	trans-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	Trichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	Vinyl chloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	Xylene, o	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-005	633027P101D	Xylenes (m&p)	2	U	2	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	1,1,1-Trichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	1,1,2,2-Tetrachloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	1,1,2-Trichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	1,1-Dichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	1,1-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	1,2-Dichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	1,2-Dichloropropane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	2-Butanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	2-Hexanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	4-Methyl-2-pentanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	Acetone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	Benzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	Bromodichloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	Bromoform	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	Bromomethane	1	U	1	UJ	SP	ug/l

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SEPTEMBER 2015 GROUNDWATER SAMPLING PROGRAM
PRIMOSHIELD INCORPORATED SITE
UTICA, NEW YORK
SDGs R1507571 and R1507572

SDG	Analysis Method	Lab Sample Id	Field Sample ID	Parameter Name	Lab Result	Lab Qualifier	Validated Result	Validation Qualifier	Validation Code	Units
R1507571	SW8260C	R1507571-006	633027P105XX	Carbon disulfide	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	Carbon tetrachloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	Chlorobenzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	Chloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	Chloroform	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	Chloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	Cis-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	Cis-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	Dibromochloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	Ethyl benzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	Methylene chloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	Styrene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	Tetrachloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	Toluene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	trans-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	trans-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	Trichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	Vinyl chloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	Xylene, o	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-006	633027P105XX	Xylenes (m&p)	2	U	2	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	1,1,1-Trichloroethane	6.9		6.9	J	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	1,1,2,2-Tetrachloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	1,1,2-Trichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	1,1-Dichloroethane	1.8		1.8	J	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	1,1-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	1,2-Dichloroethane	0.95	J	0.95	J	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	1,2-Dichloropropane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	2-Butanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	2-Hexanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	4-Methyl-2-pentanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	Acetone	1.7	J	1.7	J	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	Benzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	Bromodichloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	Bromoform	1	U	1	UJ	SP	ug/l

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TABLE 3 - QUALIFICATION ACTION SUMMARY
CATEGORY A REVIEW
SEPTEMBER 2015 GROUNDWATER SAMPLING PROGRAM
PRIMOSHIELD INCORPORATED SITE
UTICA, NEW YORK
SDGs R1507571 and R1507572

SDG	Analysis Method	Lab Sample Id	Field Sample ID	Parameter Name	Lab Result	Lab Qualifier	Validated Result	Validation Qualifier	Validation Code	Units
R1507571	SW8260C	R1507571-007	633027P103XX	Bromomethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	Carbon disulfide	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	Carbon tetrachloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	Chlorobenzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	Chloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	Chloroform	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	Chloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	Cis-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	Cis-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	Dibromochloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	Ethyl benzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	Methylene chloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	Styrene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	Tetrachloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	Toluene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	trans-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	trans-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	Trichloroethene	1.6		1.6	J	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	Vinyl chloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	Xylene, o	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-007	633027P103XX	Xylenes (m&p)	2	U	2	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	1,1,1-Trichloroethane	1.7		1.7	J	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	1,1,2,2-Tetrachloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	1,1,2-Trichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	1,1-Dichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	1,1-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	1,2-Dichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	1,2-Dichloropropane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	2-Butanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	2-Hexanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	4-Methyl-2-pentanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	Acetone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	Benzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	Bromodichloromethane	1	U	1	UJ	SP	ug/l

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CATEGORY A REVIEW
SEPTEMBER 2015 GROUNDWATER SAMPLING PROGRAM
PRIMOSHIELD INCORPORATED SITE
UTICA, NEW YORK
SDGs R1507571 and R1507572

SDG	Analysis Method	Lab Sample Id	Field Sample ID	Parameter Name	Lab Result	Lab Qualifier	Validated Result	Validation Qualifier	Validation Code	Units
R1507571	SW8260C	R1507571-008	633027P106SXX	Bromoform	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	Bromomethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	Carbon disulfide	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	Carbon tetrachloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	Chlorobenzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	Chloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	Chloroform	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	Chloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	Cis-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	Cis-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	Dibromochloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	Ethyl benzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	Methylene chloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	Styrene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	Tetrachloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	Toluene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	trans-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	trans-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	Trichloroethene	0.92	J	0.92	J	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	Vinyl chloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	Xylene, o	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-008	633027P106SXX	Xylenes (m&p)	2	U	2	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	1,1,1-Trichloroethane	1.6		1.6	J	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	1,1,2,2-Tetrachloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	1,1,2-Trichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	1,1-Dichloroethane	1.9		1.9	J	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	1,1-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	1,2-Dichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	1,2-Dichloropropane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	2-Butanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	2-Hexanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	4-Methyl-2-pentanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	Acetone	5.8		5.8	J	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	Benzene	1	U	1	UJ	SP	ug/l

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TABLE 3 - QUALIFICATION ACTION SUMMARY
CATEGORY A REVIEW
SEPTEMBER 2015 GROUNDWATER SAMPLING PROGRAM
PRIMOSHIELD INCORPORATED SITE
UTICA, NEW YORK
SDGs R1507571 and R1507572

SDG	Analysis Method	Lab Sample Id	Field Sample ID	Parameter Name	Lab Result	Lab Qualifier	Validated Result	Validation Qualifier	Validation Code	Units
R1507571	SW8260C	R1507571-009	633027P107S	Bromodichloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	Bromoform	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	Bromomethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	Carbon disulfide	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	Carbon tetrachloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	Chlorobenzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	Chloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	Chloroform	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	Chloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	Cis-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	Cis-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	Dibromochloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	Ethyl benzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	Methylene chloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	Styrene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	Tetrachloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	Toluene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	trans-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	trans-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	Trichloroethene	9.5		9.5	J	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	Vinyl chloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	Xylene, o	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-009	633027P107S	Xylenes (m&p)	2	U	2	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	1,1,1-Trichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	1,1,2,2-Tetrachloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	1,1,2-Trichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	1,1-Dichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	1,1-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	1,2-Dichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	1,2-Dichloropropane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	2-Butanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	2-Hexanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	4-Methyl-2-pentanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	Acetone	1.4	J	1.4	J	SP	ug/l

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CATEGORY A REVIEW
SEPTEMBER 2015 GROUNDWATER SAMPLING PROGRAM
PRIMOSHIELD INCORPORATED SITE
UTICA, NEW YORK
SDGs R1507571 and R1507572

SDG	Analysis Method	Lab Sample Id	Field Sample ID	Parameter Name	Lab Result	Lab Qualifier	Validated Result	Validation Qualifier	Validation Code	Units
R1507571	SW8260C	R1507571-010	633027P108XX	Benzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	Bromodichloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	Bromoform	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	Bromomethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	Carbon disulfide	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	Carbon tetrachloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	Chlorobenzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	Chloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	Chloroform	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	Chloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	Cis-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	Cis-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	Dibromochloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	Ethyl benzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	Methylene chloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	Styrene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	Tetrachloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	Toluene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	trans-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	trans-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	Trichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	Vinyl chloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	Xylene, o	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-010	633027P108XX	Xylenes (m&p)	2	U	2	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	1,1,1-Trichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	1,1,2,2-Tetrachloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	1,1,2-Trichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	1,1-Dichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	1,1-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	1,2-Dichloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	1,2-Dichloropropane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	2-Butanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	2-Hexanone	5	U	5	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	4-Methyl-2-pentanone	5	U	5	UJ	SP	ug/l

Created by: BJS
October 13, 2015
Reviewed by: WAS
October 13, 2015

TABLE 3 - QUALIFICATION ACTION SUMMARY
CATEGORY A REVIEW
SEPTEMBER 2015 GROUNDWATER SAMPLING PROGRAM
PRIMOSHIELD INCORPORATED SITE
UTICA, NEW YORK
SDGs R1507571 and R1507572

SDG	Analysis Method	Lab Sample Id	Field Sample ID	Parameter Name	Lab Result	Lab Qualifier	Validated Result	Validation Qualifier	Validation Code	Units
R1507571	SW8260C	R1507571-011	633027P107D	Acetone	3.2	J	3.2	J	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	Benzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	Bromodichloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	Bromoform	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	Bromomethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	Carbon disulfide	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	Carbon tetrachloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	Chlorobenzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	Chloroethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	Chloroform	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	Chloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	Cis-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	Cis-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	Dibromochloromethane	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	Ethyl benzene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	Methylene chloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	Styrene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	Tetrachloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	Toluene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	trans-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	trans-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	Trichloroethene	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	Vinyl chloride	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	Xylene, o	1	U	1	UJ	SP	ug/l
R1507571	SW8260C	R1507571-011	633027P107D	Xylenes (m&p)	2	U	2	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	1,1,1-Trichloroethane	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	1,1,2,2-Tetrachloroethane	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	1,1,2-Trichloroethane	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	1,1-Dichloroethane	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	1,1-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	1,2-Dichloroethane	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	1,2-Dichloropropane	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	2-Butanone	5	U	5	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	2-Hexanone	5	U	5	UJ	SP	ug/l

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October 13, 2015
Reviewed by: WAS
October 13, 2015

TABLE 3 - QUALIFICATION ACTION SUMMARY
CATEGORY A REVIEW
SEPTEMBER 2015 GROUNDWATER SAMPLING PROGRAM
PRIMOSHIELD INCORPORATED SITE
UTICA, NEW YORK
SDGs R1507571 and R1507572

SDG	Analysis Method	Lab Sample Id	Field Sample ID	Parameter Name	Lab Result	Lab Qualifier	Validated Result	Validation Qualifier	Validation Code	Units
R1507572	SW8260C	R1507572-001	633027GW01	4-Methyl-2-pentanone	5	U	5	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Acetone	2.6	J	2.6	J	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Benzene	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Bromodichloromethane	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Bromoform	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Bromomethane	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Carbon disulfide	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Carbon tetrachloride	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Chlorobenzene	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Chloroethane	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Chloroform	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Chloromethane	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Cis-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Cis-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Dibromochloromethane	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Ethyl benzene	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Methylene chloride	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Styrene	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Tetrachloroethene	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Toluene	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	trans-1,2-Dichloroethene	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	trans-1,3-Dichloropropene	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Trichloroethene	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Vinyl chloride	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Xylene, o	1	U	1	UJ	SP	ug/l
R1507572	SW8260C	R1507572-001	633027GW01	Xylenes (m&p)	2	U	2	UJ	SP	ug/l

HT-G = Holdtime exceeded
BL1 = Method blank qualifier
SP = Sample arrived out of temperature

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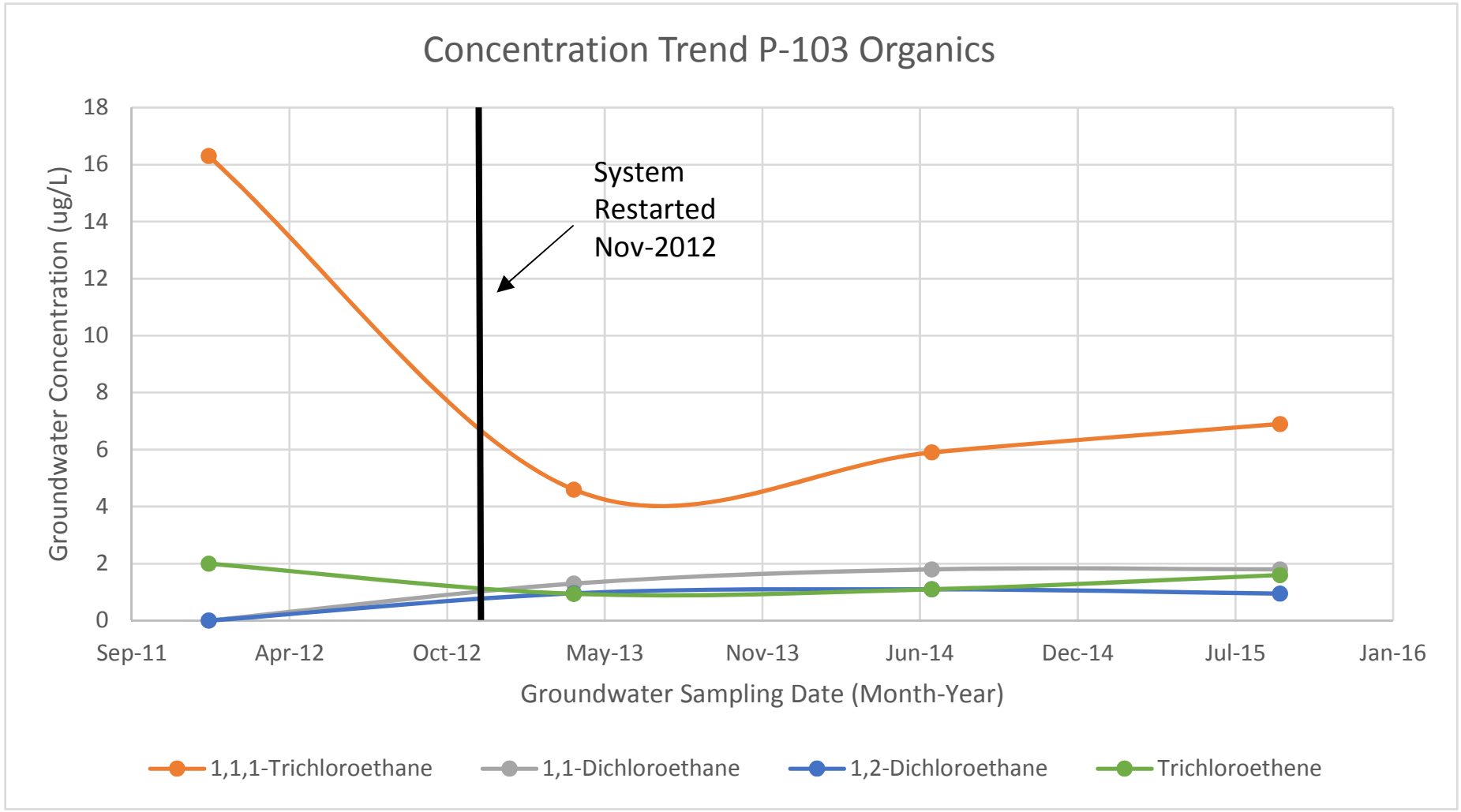
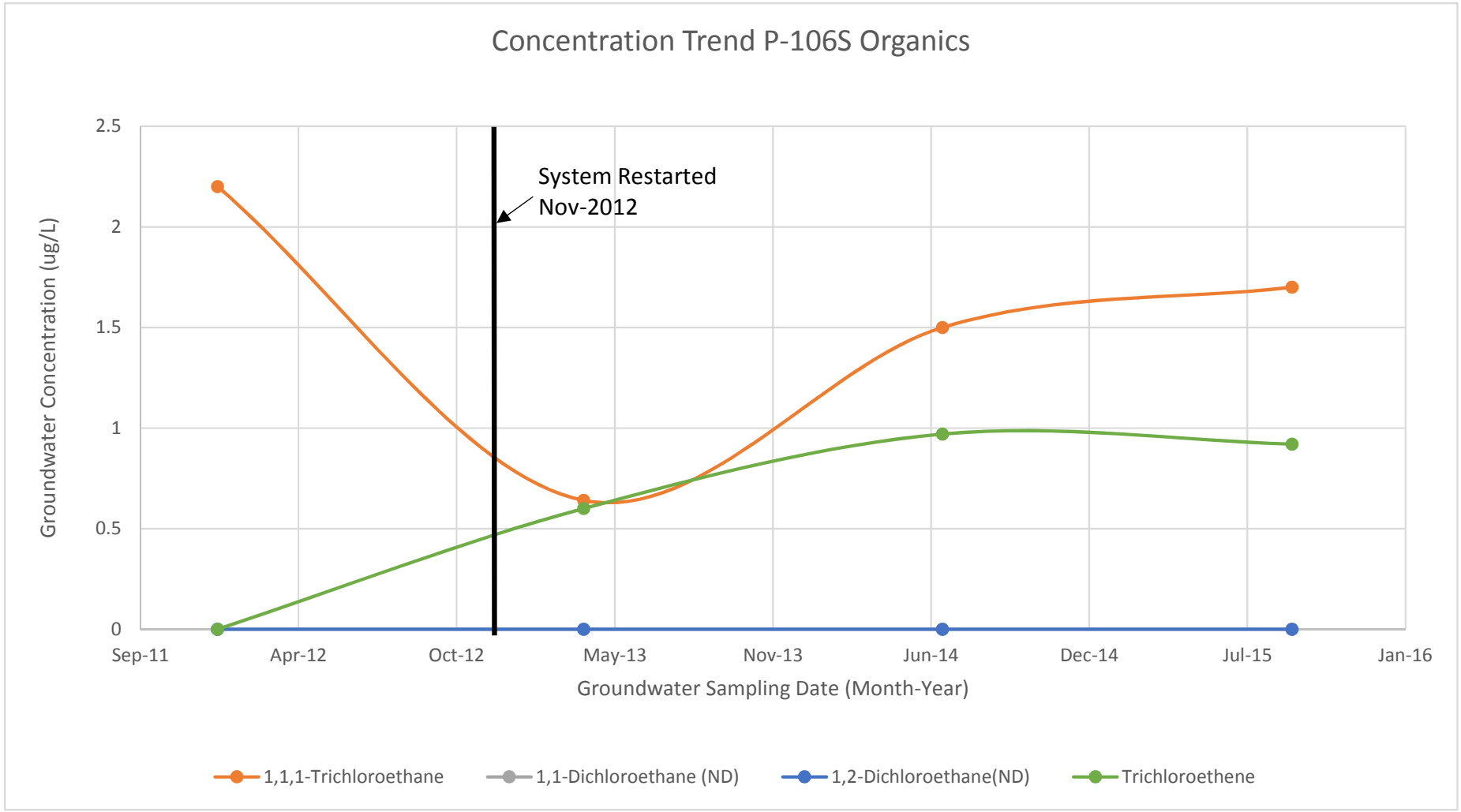
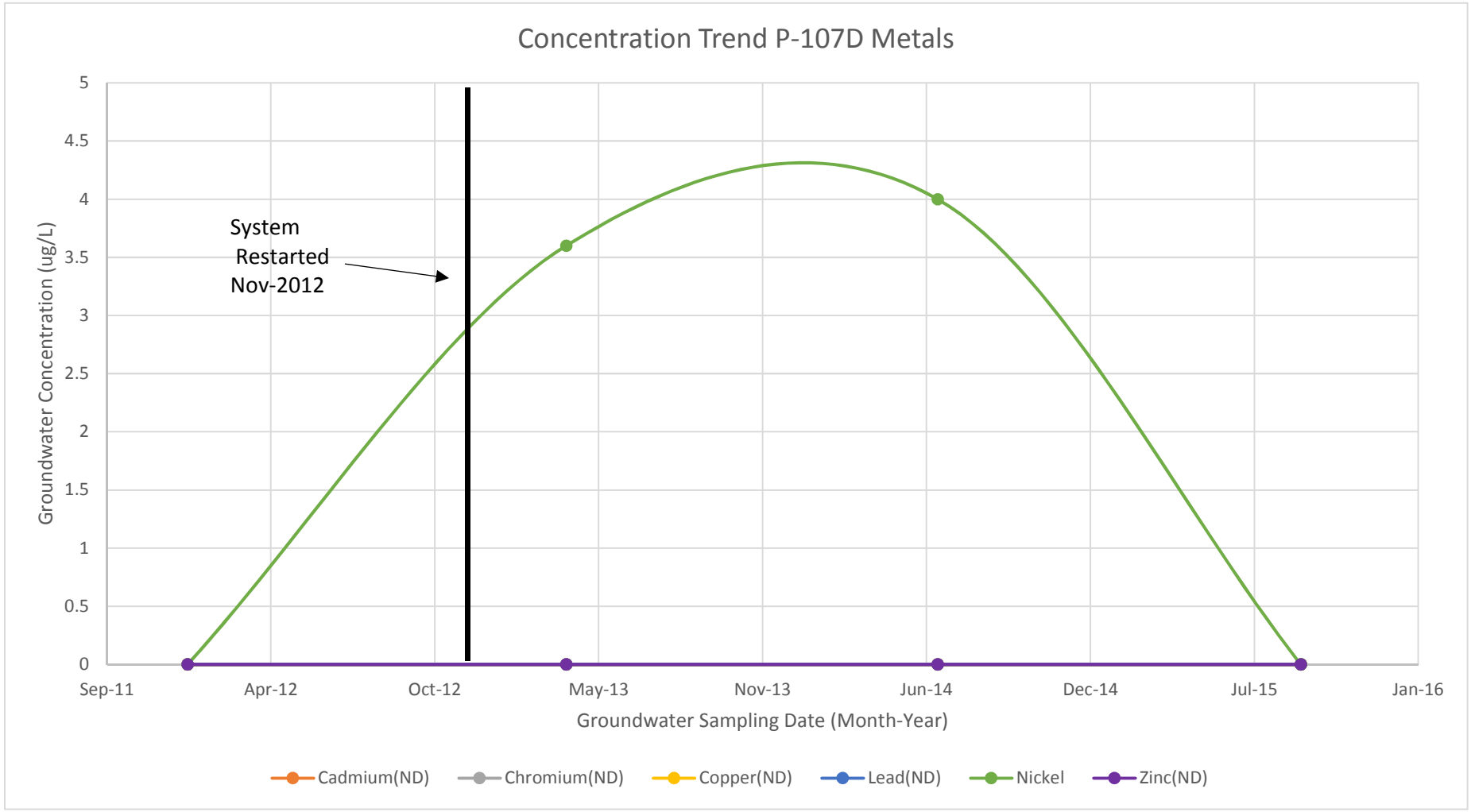
October 13, 2015

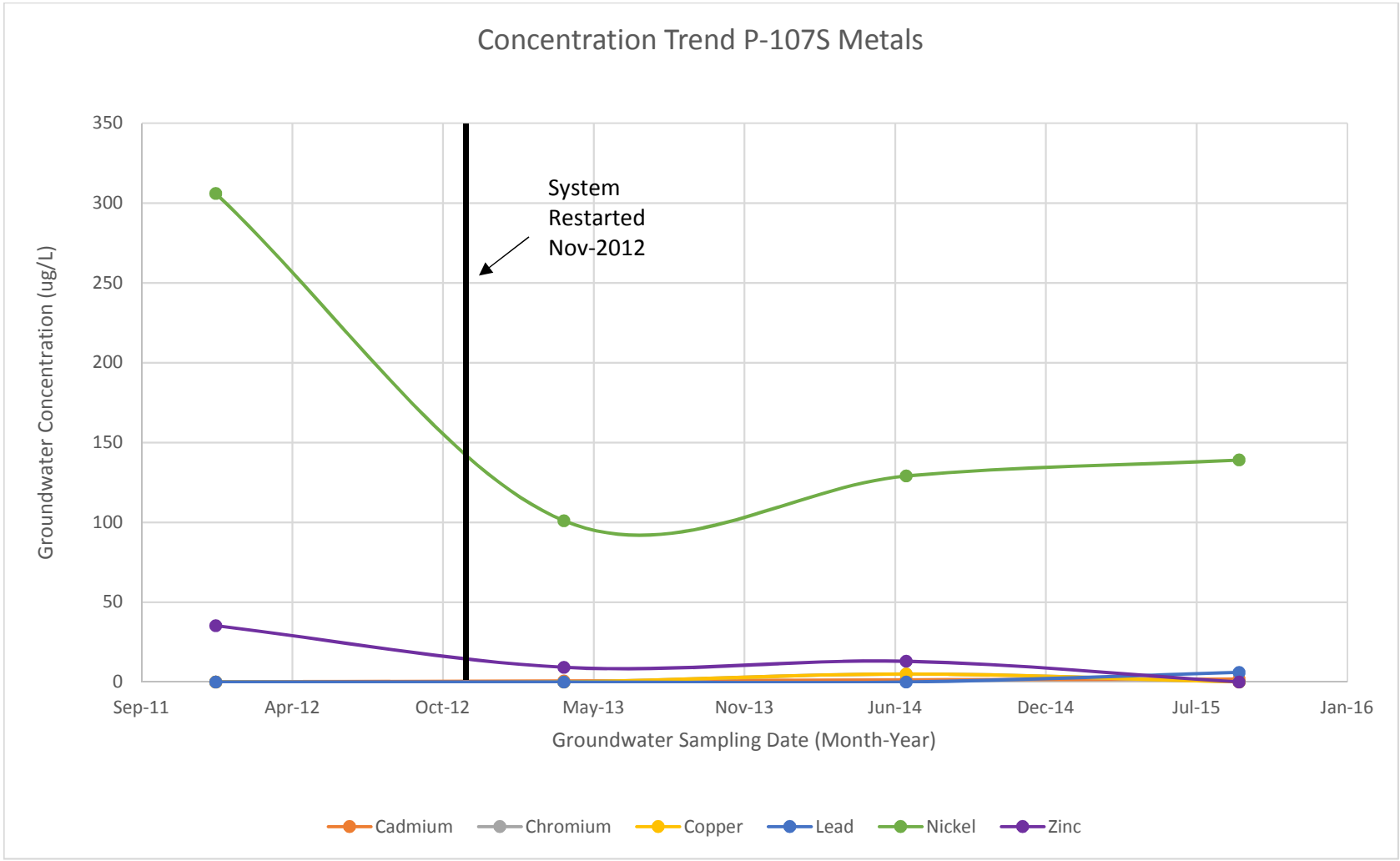
APPENDIX D

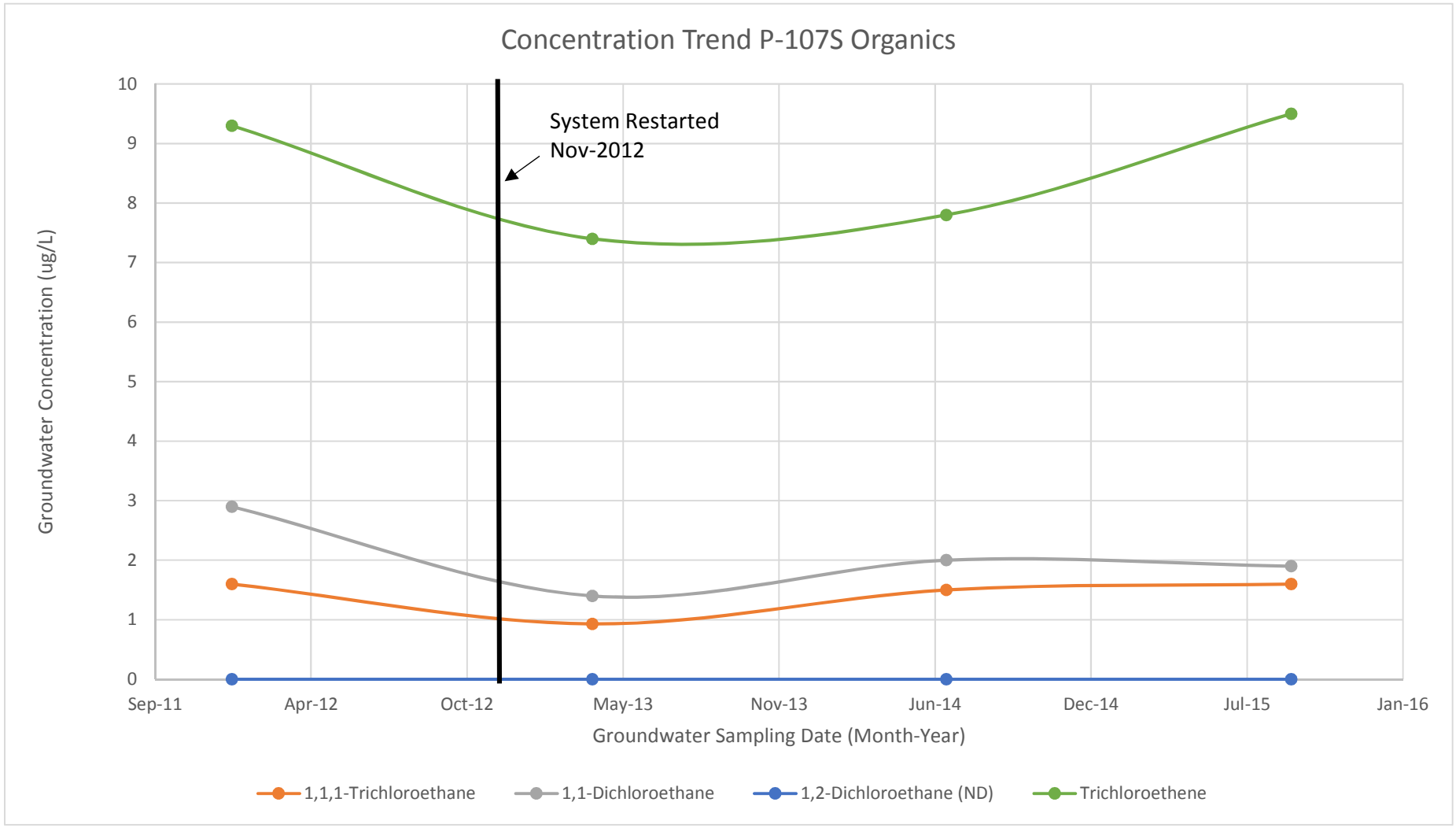
CONCENTRATION TREND PLOTS


Concentration Trend P-103 Organics
Groundwater Concentration (ug/L)
18
16
14
12
10
8
6
4
2
0
System
Restarted
Nov-2012
Sep-11
Apr-12
Oct-12
May-13
Nov-13
Jun-14
Dec-14
Jul-15
Jan-16
Groundwater Sampling Date (Month-Year)
1,1,1-Trichloroethane
1,1-Dichloroethane
1,2-Dichloroethane
Trichloroethene


Concentration Trend P-106S Organics
Groundwater Concentration (ug/L)
2.5
2
1.5
1
0.5
0
System Restarted
Nov-2012
Sep-11
Apr-12
Oct-12
May-13
Nov-13
Jun-14
Dec-14
Jul-15
Jan-16
Groundwater Sampling Date (Month-Year)
1,1,1-Trichloroethane
1,1-Dichloroethane (ND)
1,2-Dichloroethane(ND)
Trichloroethene


Concentration Trend P-107D Metals
Groundwater Concentration (ug/L)
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
System
Restarted
Nov-2012
Sep-11
Apr-12
Oct-12
May-13
Nov-13
Jun-14
Dec-14
Jul-15
Jan-16
Groundwater Sampling Date (Month-Year)
Cadmium(ND)
Chromium(ND)
Copper(ND)
Lead(ND)
Nickel
Zinc(ND)


Concentration Trend P-107S Metals
Groundwater Concentration (ug/L)
350
300
250
200
150
100
50
0
System
Restarted
Nov-2012
Sep-11
Apr-12
Oct-12
May-13
Nov-13
Jun-14
Dec-14
Jul-15
Jan-16
Groundwater Sampling Date (Month-Year)
Cadmium
Chromium
Copper
Lead
Nickel
Zinc


Concentration Trend P-107S Organics
Groundwater Concentration (ug/L)
10
9
8
7
6
5
4
3
2
1
0
System Restarted
Nov-2012
Sep-11
Apr-12
Oct-12
May-13
Nov-13
Jun-14
Dec-14
Jul-15
Jan-16
Groundwater Sampling Date (Month-Year)
1,1,1-Trichloroethane
1,1-Dichloroethane
1,2-Dichloroethane (ND)
Trichloroethene

APPENDIX E

PRIMOSHIELD SITE VISIT
DER SITE MANAGEMENT 9/8/2015

Primoshield Site Visit

DER Site Management, 09-08-2015

Oneida County, Site ID N^{o} 633027

Photos with Description

I arrived at the site at 1:30 PM. Onsite were Karl Ladner and Jerry Rawcliffe attending to well purging prior to groundwater sampling. Gear was arranged in the treatment plant.

The driller, "Jeff" from Nothnagle, was loading up his trailer after having put in "GW-01."

Jeff was the driller driving the Nothnagle rig two weeks ago from Rochester to South Cairo when the brakes failed! He didn't know about a rescheduling.

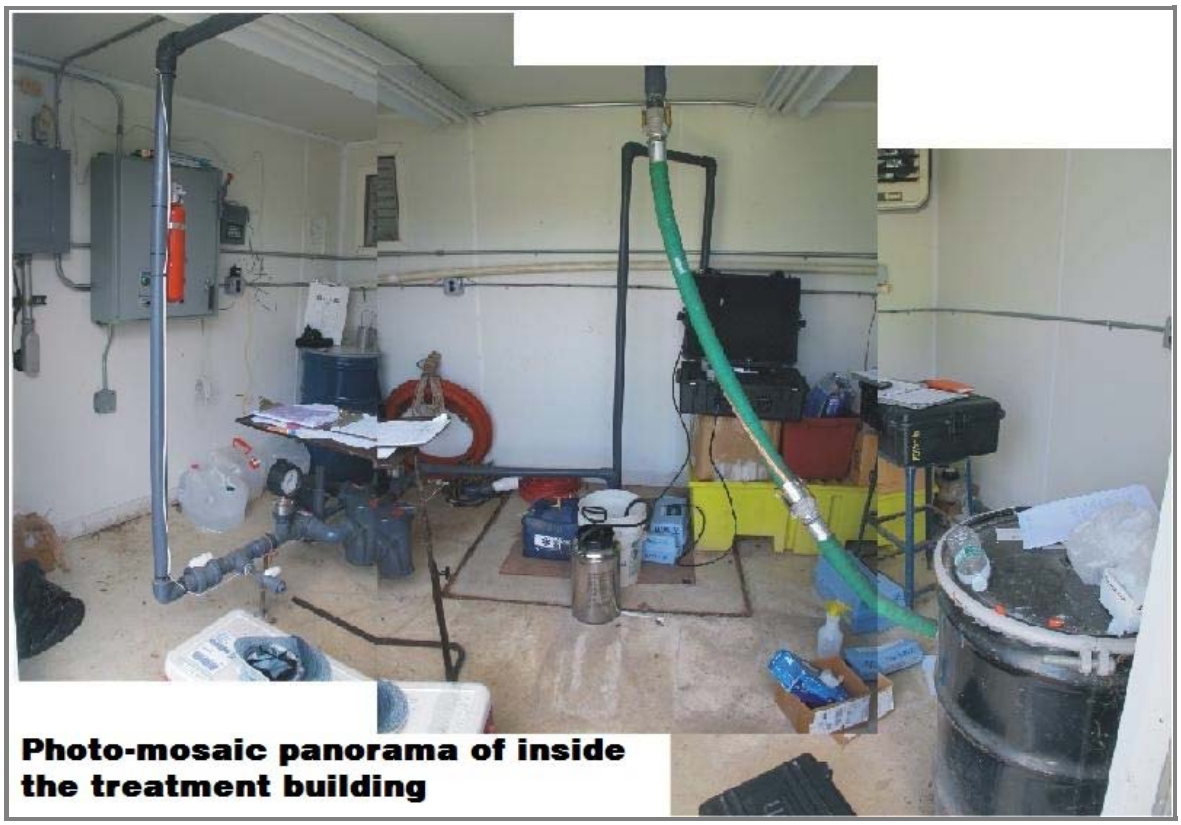


Photo-mosaic panorama of inside the treatment building

Sewer work is going on in the neighborhood. I had to detour around closed streets twice to get to the site. Much material has been staged at the end of St. Vincent Street. Karl pointed out the fence-- it looks like a truck has backed into our fence!

Bent-over fence poles and a separated top pipe.

Views of 15" and 36" pipe staged in the old railroad right-of-way at the end of the street.

Our broken fence lies at the end of the haul road.

At 2:00 PM I left the site. Driving around, I looked for the construction crew. I found them a block away, working at Mortimer Street and Taylor Avenue. As I approached them, I was greeted by Ms. Stephanie Wurz, a city engineer or technician in charge of the work. After introducing myself to her, I told her of the condition of the fence on St. Vincent Street and what I think had occurred. The construction worker standing with her said he could straighten the fence poles. The fence belongs to the city, I said.