2011 PERIODIC REVIEW REPORT

2200 BLEECKER STREET
UTICA, NEW YORK 13501
NYSDEC SITE NO. 622003

Prepared for

Utica Holding Company c/o
Danaher Corporation
1500 Mittel Boulevard
Wood Dale, IL 60191

Prepared by

Synapse Risk Management, LLC.
360 Erie Boulevard East
Syracuse, New York 13202

September 2012

CERTIFICATION

I, Paul M. Fisher, P.E., as a New York State licensed Professional Engineer, certify that the 2011 Periodic Review Report, Sections 1 through 5, for the property located at 2200 Bleecker Street, Utica, New York, pursuant to the Draft DER-10, December 2002 (updated November 2010), Section 1.5(a)9, has been prepared in accordance with good engineering practices and under my direct review. I further certify that the inspections and evaluations, for said sections, were implemented and that all activities were completed in accordance with the NYSDEC-approved Operation, Maintenance and Monitoring Manual and/or NYSDEC-approved changes.

Synapse Engineering, PLLC

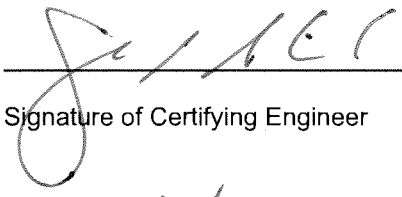
Paul M. Fisher, P.E.

CERTIFICATION

I, John P. Sobiech, as a licensed Professional Engineer in the State of New York, certify that Section 6 (January 1, 2011-December 31, 2011) of the 2011 Periodic Review Report, for the property located at 2200 Bleecker Street, Utica, New York, is prepared pursuant to the Draft DER-10, December 2002 (updated November 2010), Section 1.5(a) 8 and has been prepared in accordance with good engineering practices.

John P. Sobiech

Printed Name of Certifying Engineer



Signature of Certifying Engineer

09/14/12

Date of Certification

068973

Registration Number

NY

Registration State

Clough Harbour & Associates LLP

Company

Partner

Title

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LIST OF APPENDICES

ACRONYMS AND ABBREVIATIONS

ABBREVIATION	NAME
BBL	Blasland, Bouck & Lee
bgs	below ground surface
cfm	cubic feet per minute
cis-1,2-DCE	cis-1,2-dichloroethene
CMP	corrugated metal pipe
Coolidge	Coolidge Utica Properties, LLC
CPTC	Chicago Pneumatic Tool Company
Danaher	Danaher Corporation
DER-10	NYSDEC's Draft DER-10, *Technical Guidance for Site Investigation and Remediation* dated December 25, 2002
DMRs	Discharge Monitoring Reports
Fathead Minnow	Pimephales promelas (vertebrate)
FER	Final Engineering Report
gpd	gallons per day
gpm	gallons per minute
GTS	groundwater treatment system
HDPE	high-density polyethylene
IRM	Surface Water Interim Remedial Measures
ISACC	Intelligent System for Automatic Control & Communication (Auto Dialer System)
Main Building	former main manufacturing building
MH	Manhole
mg/l	Milligrams/liter
NCT	northern collection trench
ng/l	nanograms/liter
NYSDEC	New York State Department of Environmental Conservation
OBG	O'Brien and Gere Engineers, Inc.
OCDWC	Oneida County Department of Water Quality and Water Pollution Control
OM&M	Operation, Maintenance and Monitoring
PCB	polychlorinated biphenyl
PVC	polyvinyl chloride
QA/QC	Quality assurance/quality control
RA	Remedial Action
RAF	Remedial Action Facility
RD	Remedial Design
RI	Remedial Investigation
ROD	Record of Decision
SCT	southern collection trench
SECOR	SECOR International Incorporated
SPDES	State Pollutant Discharge Elimination System
SVOC	semi-volatile organic compound
TCE	Trichloroethylene
the Property	2200 Bleecker Street in Utica, New York
TOGS 1.1.1	NYSDEC Division of Water *Technical and Operation Guidance Series (1.1.1) Ambient Water Quality and Guidance Values and Groundwater Effluent Limitations* dated June 1998
trans-1,2-DCE	trans-1,2-dichloroethene
TSS	total suspended solids
ug/l	micrograms/liter
UHC	Utica Holding Company
VC	vinyl chloride
VOC	volatile organic compound
Water Flea	Ceriodaphnia dubia (invertebrate)

ASSOCIATED DOCUMENTS

ABBREVIATION	TITLE	AUTHOR	DATE
Phase 1	Phase I Investigation	BBL	8/85
SIR	Site Investigation Report	BBL	7/90
PSA	Preliminary Site Assessment	NYSDEC	11/90
Order	Order on Consent for RI/FS Index No. A6-0279-920-04	NYSDEC	10/26/93
RI	Remedial Investigation Report	BBL	10/94
IRM	Surface Water Interim Remedial Measures (Design)	BBL	10/94
IRM-DWG	IRM Contract Drawing	BBL	04/95
IRM OM&M	IRM Operation & Maintenance Manual	BBL	04/95
RI/FS	Health and Safety Plan - Addendum #1 Remedial Investigation/Feasibility Study	BBL	10/95
SRI/FS	Supplemental Remedial Investigation Report/Feasibility Study	BBL	12/95
ROD	Record of Decision - Site No. 622003	NYSDEC	3/29/96
ORDER	Administrative Order on Consent Index No. B6-0491-96-04	NYSDEC	10/02/97
RD	Remedial Design Work Plan	BBL	11/97
RDS	Remedial Design Specifications	BBL	4/98
SPDES-SAP	SPDES Stormwater Action Plan	SECOR	6/00
FER	Final Engineering Report (Final)	SECOR	8/01
OMM	Operation, Maintenance & Monitoring Manual (Final)	SECOR	4/01
2000-RPT	2000 Annual Operation, Maintenance & Monitoring Report	SECOR	4/01
2001-RPT	2001 Annual Operation Maintenance & Monitoring Report	SECOR	8/02
UHC SPDES	Utica Holding Company SPDES Permit No. NY-0257087	NYSDEC	9/1/02
CPTC SPDES	Chicago Pneumatic SPDES Permit No. NY-0108537	NYSDEC	9/1/02
2002-RPT	2002 Annual Operation, Maintenance and Monitoring Report	SECOR	3/03
2003-RPT	2003 Annual Operation, Maintenance and Monitoring Report	Domani	3/04
2004-RPT	2004 Annual Operation, Maintenance and Monitoring Report	Synapse	3/05
2005-RPT	2005 Annual Operation, Maintenance and Monitoring Report	Synapse	2/06
2006-RPT	2006 Annual Operation, Maintenance and Monitoring Report	Synapse	4/07
2007-RPT	2007 Annual Operation, Maintenance and Monitoring Report	Synapse	4/08 revised 6/08
2008-RPT	2008 Annual Operation, Maintenance and Monitoring Report	Synapse	5/09
2009-RPT	2009 Annual Operation, Maintenance and Monitoring Report	Synapse	7/10
2010-PRR	2010 Periodic Review Report	Synapse	8/11

1.0 INTRODUCTION

This 2011 Periodic Review Report (PRR) provides an annual account of activities relative to the property located at 2200 Bleecker Street in Utica, New York (the Property).

Chicago Pneumatic Tool Company (CPTC) occupied the Property from 1948 through 1997 for manufacturing. In 1997, Coolidge Utica took title to the former main manufacturing building (Main Building), land beneath the Main Building, and other improvements. Utica Holding Company (UHC), a subsidiary of Danaher Corporation (Danaher), owns and, in 1997, leased the land surrounding the Main Building (Leased Premises) to Utica Land Equities, LLC (ULE).

In November 2009, 2200 Bleecker Street Properties LLC (2200 Bleecker) acquired the fee ownership interests in the buildings and land beneath the Main Building from Coolidge Utica LLC. It is understood from 2200 Bleecker that a to be formed limited liability company with similar ownership interests to 2200 Bleecker seeks to enter into a restated and amended the adjoining ground lease with UHC for the Leased Premises.

1.1 Regulatory History

Environmental assessments and investigations conducted between 1985 through 1990 identified impacted soil, surface water, and groundwater at the Property, and prompted the New York State Department of Environmental Conservation (NYSDEC) to issue an Administrative Order on Consent in 1993, directing the investigation and remediation of impacted areas at the Property. In 1996, NYSDEC issued a Record of Decision (ROD) for the Property, and listed it in the Registry of Inactive Hazardous Waste Disposal Sites, followed by a second administrative Order on Consent. This set forth a Remedial Design (RD) and subsequent Remedial Action (RA) required for the Property. Following completion of the RA construction and reporting activities, NYSDEC issued a letter indicating that the RA had been approved. A chronological list entitled Associated Documents, Page vii, summarizes key documents.

1.2 Purpose

This PRR has been prepared in conformance with the requirements set forth in NYSDEC's DER-10, dated May 2010, *Technical Guidance for Site Investigation and Remediation* (DER-10), and has been prepared in reference to the Final Engineering Report (FER), previously submitted and accepted by NYSDEC for the Property. Additionally, the April 2001 site specific OM&M Manual was approved by NYSDEC, along with subsequent annual reports. This PRR, as guided by the OM&M Manual, has the following objectives:

- To provide an ongoing review and evaluation with regards to the compliance of the RA with the requirements of the ROD and subsequent Order on Consent;
- To provide an evaluation of the effectiveness of the ongoing remedial operations, engineering controls, and treatment systems in use at the Property, and identification of any needed repairs or modifications;
- To provide an assessment of the performance and effectiveness of the remedy;
- To document any necessary changes to the remedy and/or monitoring systems;
- To provide recommendations for changes and/or new conclusions regarding environmental impact at the Property based on this evaluation;
- To provide information to the public; and
- Submit the Period Review Report for the Property.

1.3 Report Organization

This report has been organized into six sections, each addressing a specific physical area/feature and/or regulatory program/requirement pertaining to ongoing operations at the Property as follows:

Section 1.0 – Introduction - Discusses the regulatory history of the Property, the purpose of this annual report, the report's originations and an overview of party contributions and subsequent responsibilities;

Section 2.0 - Property Background - Discusses the current ownership and uses of the Property, geology and hydrogeology and environmental investigations;

Section 3.0 – Site Management - Remedial Action Facility (RAF) - Discusses the Site Management of the RAF and the associated Engineering Controls at the Property;

Section 4.0 – Site Management - Groundwater Monitoring – Discusses the Semi-annual groundwater sampling events at the Property;

Section 5.0 – Site Management - State Pollutant Discharge Elimination System (SPDES) - Discusses the SPDES permitted surface water discharges through four of the five outfalls at the Property, and the routine and additional effluent sampling, including the analytical programs required by the permit;

Section 6.0 – Engineering Controls - Operation, Maintenance and Performance Monitoring - Discusses CPTC's operation and maintenance of the groundwater treatment system (GTS) and SPDES Outfall 03A installed to monitor the GTS effluent, at the Property. This section was prepared by Clough Harbour Associates on behalf of CPTC;

Each section contains appropriate tables and figures, as they apply to that specific section. This PRR also discusses, and presents as appendices, applicable data and information collected in compliance with satisfying the DER-10 requirements, such as site inspection forms, field monitoring logs, and laboratory analytical data.

1.4 Property Management

On behalf of UHC, Synapse Risk Management, LLC (Synapse), of Syracuse, New York, has managed the administrative and technical requirements pursuant to the RA during 2011, with the exception of the GTS, which has been operated by Clough Harbour Associates of Syracuse, New York since September 2008, on behalf of CPTC.

2.0 PROPERTY BACKGROUND

The overall Property consists of a 77-acre parcel (see Figure 2-1 – Aerial Property Map) located in an industrial setting, with approximately 35 acres of undeveloped woodland at the southern portion of the Property. 2200 Bleecker took title to the Main Building, land beneath the Main Building and other improvements in November 2010 and subsequently rents/leases portions/sections of the building to various tenants. UHC retains ownership of the Leased Premises (see Figure 2-2 – Facility Plan). The peripheral Property receives monthly inspection and maintenance in conjunction with the required inspections of the RAF and associated components. UHC did not have access to the Main Building during Coolidge's ownership period and inspections of the building interior have not been conducted since 2005. This section includes inspection and maintenance only of the portions of the Property that is owned and accessible by UHC, not the Main Building. The RAF, groundwater monitoring, Property SPDES, and GTS are discussed in Section 3, Section 4, Section 5, and Section 6, respectively.

2.1 Property Ownership

CPTC occupied the Property from 1948 until 1997 for the manufacture of pneumatic tools. Danaher owned CPTC, but later transferred ownership to Atlas Copco.

In 1997, Coolidge Utica took title to the 458,000 square foot Main Building, land beneath the Main Building, and other improvements. UHC, a subsidiary of Danaher, owns the land with the exception of the Main Building and other improvements and beginning in 1997, leased the Leased Premises to ULE. In November 2009, 2200 Bleecker acquired the fee ownership interests in the buildings and land beneath the Main Building from Coolidge Utica. It is understood from 2200 Bleecker that a to be formed limited liability company with similar ownership interests to 2200 Bleecker seeks to enter into a restated and amended the adjoining ground lease with UHC for the Leased Premises.

In 2011, the majority of the Property buildings were occupied by tenants that generally include warehouse storage, food (dough) manufacturing, marine dock fabrication and uniform manufacture. The Main Building, 458,000 square feet, is surrounded by approximately 57,000 square feet of ancillary buildings. Paved access roads and parking areas that accounts for approximately 12 acres. An approximate 35-acre wooded tract, at the southern portion of the Property, remains undeveloped. No specific changes in the Property's makeup or unusual activities related to the operation and maintenance requirements were noted during the calendar year 2011.

2.2 Summary of Environmental Investigations

Remedial Investigation/Remedial Action

Potential environmental conditions at the Property were first identified in a 1985 Phase I Site Assessment (see Associated Documents). A subsequent site investigation was conducted in July 1990, and NYSDEC conducted a Preliminary Site Assessment later that year. Based on the findings presented in these investigation reports, NYSDEC issued an Administrative Order on Consent in 1993 which mandated the further investigation and remediation of impacted areas at the Property. Pursuant to this Order on Consent, Blasland Bouck & Lee, Inc. (BBL) submitted a Remedial Investigation (RI) report and a Surface Water Interim Remedial Measures (IRM) design in 1994, and a Supplemental Remedial Investigation/Feasibility Study in 1995. In 1996, NYSDEC issued a ROD for the Property, and listed the Property in the Registry of Inactive Hazardous Waste Sites (No. 622003 - Class 2), specifying the RA required for the Property. A second administrative Order on Consent was issued in 1997 followed by the RD. The IRM included the installation of an air stripper that has been in operation since 1995. The air stripper and pumping appurtenance were incorporated into the RD.

Soil Vapor Intrusion

In October 2005, Synapse initially prepared a Soil Vapor Intrusion Work Plan on behalf of UHC that was approvable by the New York State Department of Environmental Conservation (NYSDEC) in response to NYSDEC's July 18, 2005 letter requesting participation in a soil vapor intrusion evaluation.

On November 10, 2005, Coolidge Utica, LLC, the main building owner at the time, denied UHC access into the building to undertake said evaluation. In response, the NYSDEC issued, via an email dated November 25, 2005, acknowledgment of the denial of access and indicated NYSDEC was postponing further review and approval subject to access to the building.

Given the ownership change to 2200 Bleecker (November 2009), UHC submitted a revised Vapor Intrusion Workplan to NYSDEC (March 2010) that was approved by NYSDEC on April 26, 2010.

In June 2010, a total of 24 sub-slab soil vapor samples were collected concurrently with the four soil vapor and seven ambient air samples. Volatile Organic Compounds (VOCs) were present in 19 of the 24 sub-slab soil vapor samples collected in the main building at concentrations above NYSDOH Soil Vapor/Indoor Air Matrix 1 and/or Matrix 2 mitigation guidance levels.

- VOCs were present in 16 of the 24 sub-slab vapor samples at concentrations above NYSDOH Soil Vapor/Indoor Air Matrix 1 mitigation guidance levels.
- VOCs were present in 9 of the 24 sub-slab vapor samples at concentrations above NYSDOH Soil Vapor/Indoor Air Matrix 2 mitigation guidance levels.
- VOCs were not detected in outdoor air samples at concentrations above NYSDOH Air Guideline Values.
- VOCs were not detected in the indoor air samples at concentrations above NYSDOH Air Guideline Values, with one exception.
    - TCE was detected in 3 of the 7 samples at concentrations that exceed the NYSDEC Air Guideline Value of 5 ug/m^3 as follows:

Based on the vapor intrusion investigation results and findings, it was recommended that a soil vapor mitigation system design, for the main building be prepared and submitted to NYSDEC and NYSDOH for review and approval.

In December 2011 a sub-slab diagnostic communication testing program was conducted to determine whether a sub-slab depressurization system would be a viable mitigation strategy to reduce subsurface vapor identified beneath the main building. The intent of the sub-slab diagnostic communication testing was to gain an understanding the sub-slab flow conditions with the design goal of determining horizontal suction point distances, effective pipe diameter, blower horse power (hp) and anticipated radius of influence (ROI). The results of the sub-slab communication testing indicated that a sub-slab depressurization system is a feasible mitigation method with allowable horizontal distances for vacuum sumps ranging between 100 and 125 feet.

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2.3 Summary of Remedial Actions

The RA was implemented from May 1998 through December 1999. A June 2000 SPDES Stormwater Action Plan was prepared and transmitted to NYSDEC to document SPDES corrective actions performed at the Property and to set forth contingency measures. NYSDEC issued a letter dated December 11, 2001 indicating that the FER and accompanying drawings and OM&M Manual for the Property had been approved. Additionally, the NYSDEC issued an earlier letter dated March 7, 2000 reclassifying the

Property as a Class 4 Inactive Hazardous Waste Disposal Site. CPTC and UHC retain responsibility for implementing long term OM&M of the GTS and RAF, respectively, at the Property.

The RA included the following major components:

- Remediation involving soil and sediment removal at 14 identified source areas (see Figure 2-3 - Historical Remedial Action Areas);

- Construction of a containment cell to store a portion of impacted soil and sediment from 12 identified source areas. The containment cell and associated leachate collection system and building are surrounded by a perimeter fence and access is limited to authorized individuals associated with UHC. This fenced area is referred to as the RAF; and

- Construction and connection of two trenches, northern collection trench (NCT) and southern collection trench (SCT), to the existing air stripper, creating the GTS.

UHC is the Permittee on the SPDES permit associated with four outfalls located on the Property, which is discussed in Section 5. CPTC maintains responsibility for the GTS and associated SPDES permit for one outfall which is discussed in Section 6.

2.4 Property Geology and Hydrogeology

The Property is located on the southern side of the Mohawk Valley, which is a broad, east-west trending lowland, the floor of which consists of a uniform sequence of laminated, calcareous black shale known as the Utica Shale. South of the Property, the land surface rises abruptly off the valley floor, forming a bluff capped by limestone. The Mohawk River is located approximately 3,000 feet north of the Property. In general, regional dip of the bedrock unit is to the southwest. Regional estimates of depth to bedrock range from 21 to 75 feet.

Subsurface materials at the Property were described during installation of monitoring wells, soil borings, test pits, and excavations performed during investigations and remedial actions conducted primarily between 1988 and 1999. The unconsolidated subsurface materials are composed of varying consistencies of sand, silt, and clay. Some of the materials have been reworked to varying depths across the site by former facility activity and are classified as fill. The depth of the unconsolidated natural material across the Property ranges from three feet to 12 feet below grade. A till layer was encountered below the unconsolidated material and ranged in thickness from 12 to 24 feet. The till deposits are described as over-consolidated, dark gray silt and clay, that slopes gradually toward the north-northwest.

The regional groundwater flow is northeast, toward the Mohawk River. Two distinct hydrogeologic units, separated by a semi-confining till unit, are present at the Property. The first water-bearing unit is the unconsolidated overburden material (sand, silt, clay). Depth to first groundwater encountered in the overburden at the Property is generally within 5 feet of the ground surface. Weathered shale bedrock is the second water-bearing unit, and was reportedly encountered between 23 and 30 feet below ground surface.

2.5 Property Drainage and Outfalls

The Property is generally drained via existing drainage ditches located at the east and west portions of the Property. The west unnamed creek, (former Area 1) (See Figure 2-3), flows from the south through a wooded area and runs along the western extent of the Property, exiting at the northwest corner of the Property. The west unnamed creek drainage contribution primarily consists of roof leaders conveyed via the northern and southwestern stormwater systems emanating from of the Main Building. Surface water runoff from the western parking lot and surface water runoff from a southern agriculture area also contribute to the west unnamed creek. The southwestern and northern stormwater systems are monitored from manholes identified as SPDES Outfall 001 and Outfall 002, respectively. SPDES outfall

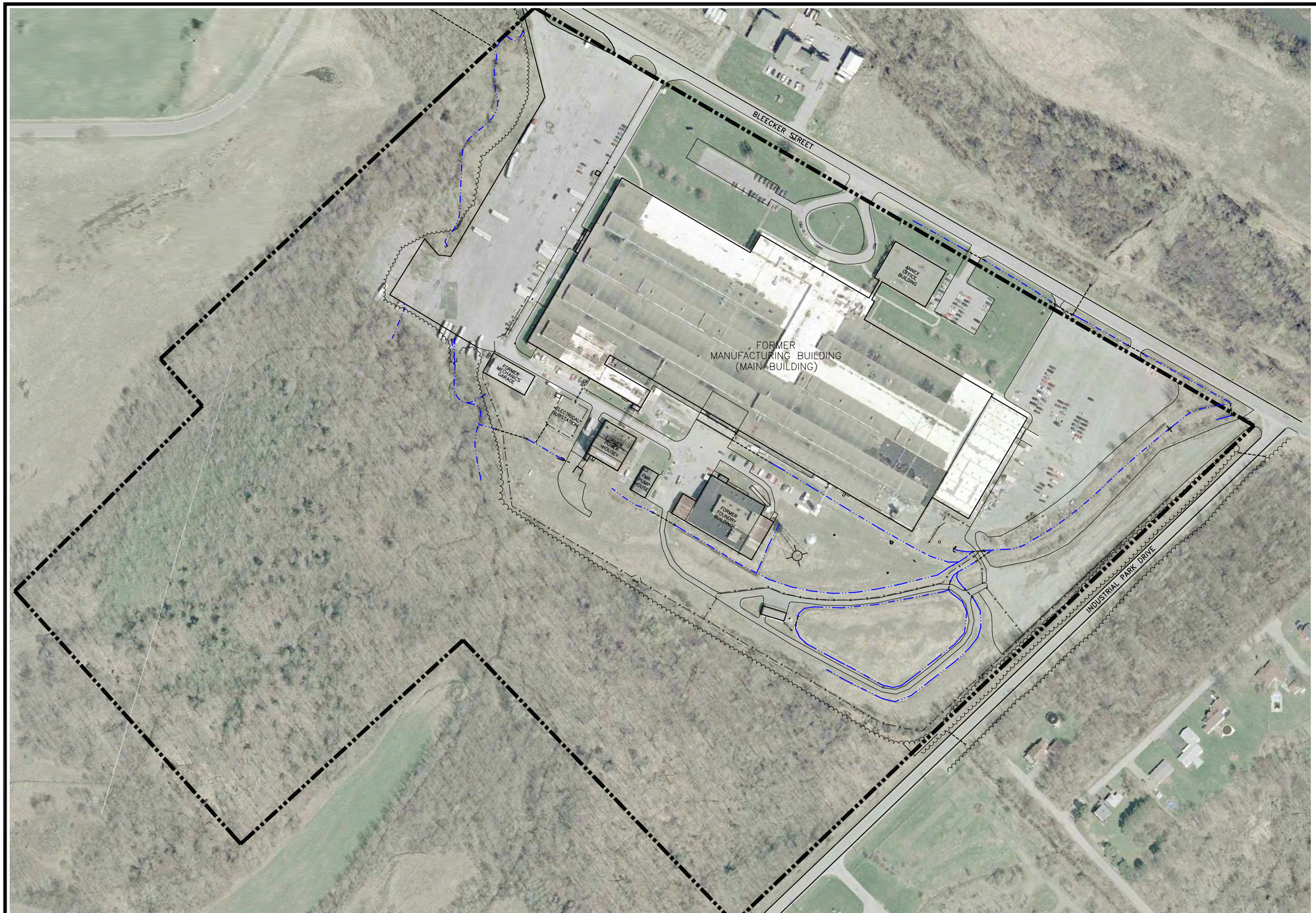
monitoring for the Property is discussed in Section 5. The west unnamed creek floods occasionally in the spring and fall, primarily due to restrictions in an off-site stormwater piping system. A culvert was installed in 2003 by the county across Bleecker Street, approximately 300 feet off-site to the west. This culvert was installed to limit flooding of Bleecker Street by water backing up the west unnamed creek.

Two east-west oriented surface water drainage ditches (former Area 4 and Area 6), originate from the mid portion of the Property, south of the Main Building, and converge to form one south-north ditch, (Area 14), along the eastern portion of the Property. This east drainage ditch joins a road ditch located parallel to Bleecker Street. Treated effluent from the GTS, which is covered in Section 6, is discharged to the east drainage ditch via CPTC SPDES Outfall 03A. The newest Outfall 03B permitted and constructed in April 2010 is manually discharged on a quarterly basis to former Area 6 ditch, Outfall 03B is discussed further in Section 3. The east drainage ditch also receives stormwater from roof leaders connected to the southeastern stormwater system and the RAF surface drainage, as well as surface water from the eastern parking lots. The SPDES Outfall 003 is located near the northern end of the eastern drainage ditch; prior to joining a drainage ditch parallel to Bleecker Street, ultimately discharging off site via a culvert under Bleecker Street.

2.6 Summary

The northern portion of the Property continued to be the most active during 2011; the southern portion of the Property remains wooded and undeveloped. Tenants occupy approximately 65% of the Main Building and continue to use the surrounding access roads and parking lots. The Property is inspected a minimum of once per month allotting for reviews of exterior building activities and review of the Outfalls and Property drainage. No reportable issues of concern were noted with regard to property or physical conditions during 2011.

2.7 Figures



LEGEND

- APPROXIMATE PROPERTY LINE
- CHAIN LINK FENCE
- SURFACE DRAINAGE CULVERT
- DRAINAGE DITCH
- TREE LINE

NOTES:

1. BASE MAP INFORMATION SHOWN ON THIS DRAWING IS BASED ON A LIMITED FIELD SURVEY PERFORMED BY BLASLAND, BOUCK & LEE, INC. (BBL), DATED 10/97. AS-BUILT SURVEY INFORMATION PERFORMED BY LAFAVE, WHITE & MCGIVERN, L.S., P.C., DATED 5/99, AND ON INFORMATION OBTAINED FROM PREVIOUS SITE PLANS WHICH MAY BE CONCEPTUAL OR ASSUMED.
2. PROPERTY LINE INFORMATION TAKEN FROM HERKIMER COUNTY TAX MAPS AND IS APPROXIMATE.
3. 2003 AERIAL PHOTO FROM NYSGIS WEBSITE.

120' 0 120' 240'

GRAPHIC SCALE: 1" = 240'

X: CP-BASE
P: DL2BC
8/27/12
SYNAPSE/WIP/DANA 01-11/2011 SMP/DANAB03.DWG

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360 ERIE BLVD. EAST
SYRACUSE, NEW YORK 13202

2011 PERIODIC REVIEW REPORT

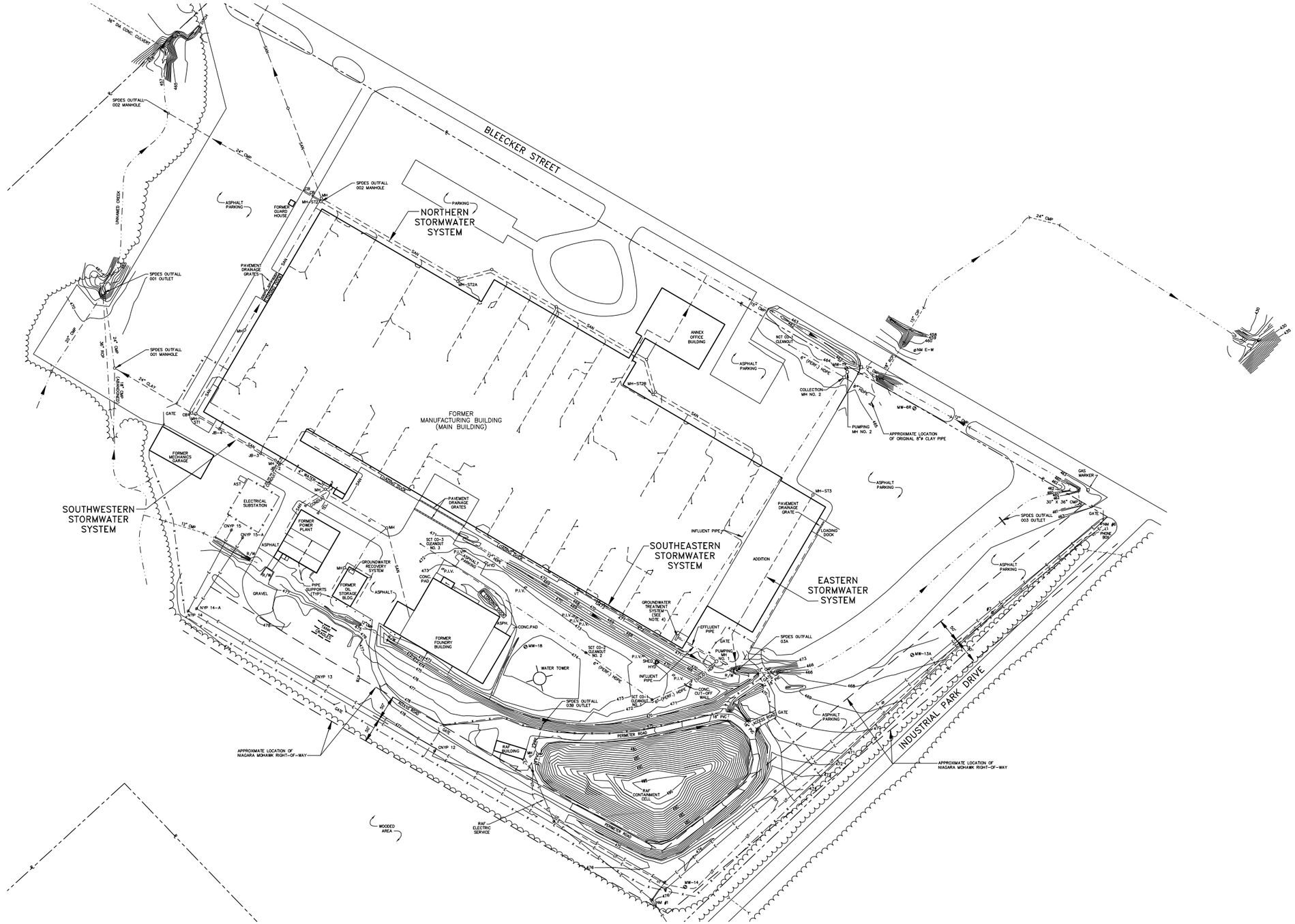
2200 BLEECKER STREET
UTICA, NEW YORK

AERIAL PROPERTY MAP

PROJECT NO.: DANA 01-11

DATE: SEPT. 2012

FIGURE NO.: 2-1



LEGEND

470	ELEVATION CONTOUR
⊙MH	MANHOLE
x x x x x	CHAIN LINK FENCE
ø CNYP 12	UTILITY POLE
R/W	RETAINING WALL
	SURFACE DRAINAGE CULVERT
	DRAINAGE DITCH
	DRAINAGE PIPE
SAN	SANITARY SEWER PIPE
	STORMWATER DRAIN PIPE
	TREE LINE
UT	TELEPHONE (UNDERGROUND)
⊙ MW-14	MONITORING WELL
HYD	FIRE HYDRANT
P.I.V.	VALVE
	DRAIN
E	POWER LINE (ABOVE GROUND)
E	POWER LINE (UNDERGROUND)
RAF	REMEDIAL ACTION FACILITY

NOTES:

1. BASE MAP INFORMATION SHOWN ON THIS DRAWING IS BASED ON A LIMITED FIELD SURVEY PERFORMED BY BLASLAND, BOUCK & LEE, INC. (BBL), DATED 10/97. AS-BUILT SURVEY INFORMATION PERFORMED BY LAFAVE, WHITE & MCGIVERN, L.S., P.C., DATED 5/99, AND ON INFORMATION OBTAINED FROM PREVIOUS SITE PLANS WHICH MAY BE CONCEPTUAL OR ASSUMED.
2. ELEVATIONS SHOWN ARE IN FEET ABOVE SEA LEVEL (DATUM IS NGVD OF 1988).
3. CONTOUR INTERVAL EQUALS 1 FOOT.
4. THE GROUNDWATER TREATMENT SYSTEM CONSISTS OF AN AIR STRIPPER AND TWO PUMPING MANHOLES IMPLEMENTED AS AN INTERIM REMEDIAL MEASURE SYSTEM DESIGNED AND INSTALLED IN 1995.

X: CP-BASE
P: BL
8/27/12
SYNAPSE/WIP/DANA 01-11/2011 SMP/DANAB04.DWG

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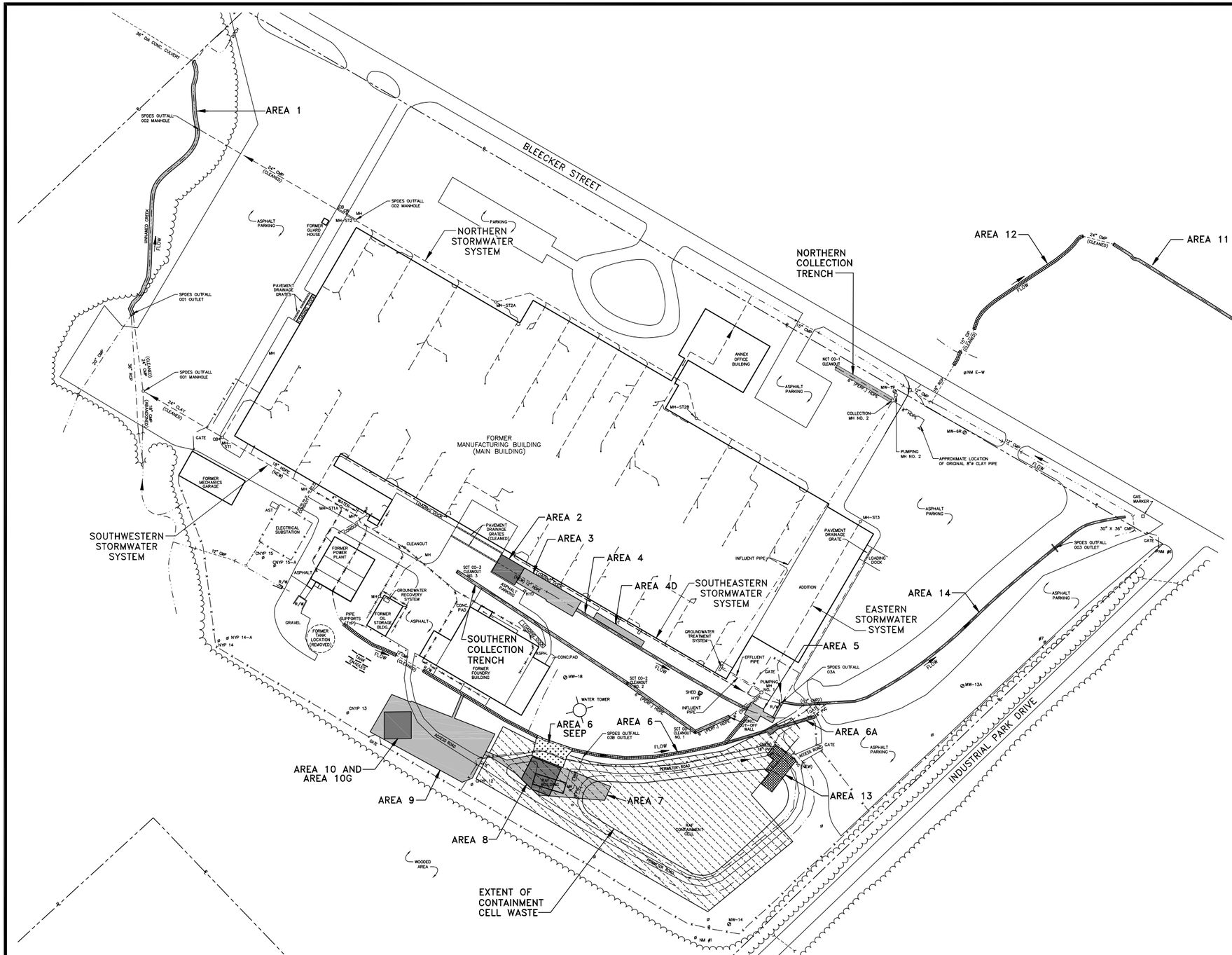
2011 PERIODIC REVIEW REPORT
2200 BLEECKER STREET
UTICA, NEW YORK

FACILITY PLAN

PROJECT NO.: DANA 01-11
DATE: SEPT. 2012
FIGURE NO.: 2-2



LEGEND

- MANHOLE
- CHAIN LINK FENCE
- UTILITY POLE
- RETAINING WALL
- DRAINAGE CULVERT
- DRAINAGE DITCH
- DRAINAGE PIPE
- STORMWATER DRAIN
- NEW STORMWATER DRAIN
- ABANDONED UNDERGROUND PIPE
- TREE LINE
- MONITORING WELL
- FIRE HYDRANT
- VALVE
- EXCAVATION AREA REQUIRING OFF-SITE DISPOSAL AS A TSCA-REGULATED MATERIAL PCB CONCENTRATION >50 ppm)
- EXCAVATION AREA REQUIRING PLACEMENT INTO THE SVE PORTION OF THE ON-SITE CONTAINMENT CELL (VOC CONCENTRATION >10 ppm, PCBs <50ppm)
- EXCAVATION AREA REQUIRING PLACEMENT INTO THE ON-SITE CONTAINMENT CELL (VOC CONCENTRATION <10 ppm, PCBs <50ppm)
- SELECT WASTE (TOPSOIL)
- EXCAVATION AREA REQUIRING OFF-SITE DISPOSAL (VOC CONCENTRATION >10 ppm)
- CULVERT THAT WAS CLEANED
- NEW CULVERT
- DRAIN
- REMEDIAL ACTION FACILITY

NOTES:

1. BASE MAP INFORMATION SHOWN ON THIS DRAWING IS BASED ON A LIMITED FIELD SURVEY PERFORMED BY BLASLAND, BOUCK & LEE, INC. (BBL), DATED 10/97, AS-BUILT SURVEY INFORMATION PERFORMED BY LAFAVE, WHITE & MCGIVERN, L.S., P.C., DATED 5/99, AND ON INFORMATION OBTAINED FROM PREVIOUS SITE PLANS WHICH MAY BE CONCEPTUAL OR ASSUMED.
2. ELEVATIONS SHOWN ARE IN FEET ABOVE SEA LEVEL (DATUM IS NGVD OF 1988).
3. CONTOUR INTERVAL EQUALS 1 FOOT.
4. ALL ORIGINAL DRAINS AND DRAIN PIPE LOCATIONS INSIDE AND OUTSIDE OF THE BUILDINGS WERE DIGITIZED FROM COPIES OF THE 1948 CONSTRUCTION DRAWINGS AND ARE APPROXIMATE.

X: CP-BASE
P: BL
8/27/12
SYNAPSE/WIP/DANA 01-11/2011 SMP/DANAB05.DWG

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2011 PERIODIC REVIEW REPORT

2200 BLEECKER STREET
UTICA, NEW YORK

HISTORICAL REMEDIAL ACTION AREAS

PROJECT NO.: DANA 01-11

DATE: SEPT. 2012

FIGURE NO.: 2-3

3.0 SITE MANAGEMENT – REMEDIAL ACTION FACILITY

The RAF is situated in the mid-eastern portion of the Property, within a fenced area encompassing approximately 3.8 acres, as presented on Figure 3-1 – Remedial Action Facility Plan. The OM&M of the RAF was conducted by Synapse, in accordance with the guidelines set forth in the NYSDEC-approved OM&M Manual dated April 2001. Field reports provide monthly documentation of the site inspection events and any adjustments made to components associated with the RAF. The result of these inspections generally sets forth any maintenance activities, if required.

Key components of the RAF are the fences, roads, drainage ditches, containment cell, leachate collection, and building systems, which constitute the engineering controls. The primary function of the RAF is collection and subsequent disposal of leachate generated from the containment cell.

Four groundwater monitoring wells (with the exception of MW-14), are located outside of the perimeter fence of the RAF, and are discussed in Section 4. The GTS is located within the southeast corner of the Main Building and is discussed in Section 6.

3.1 Construction

The RAF is surrounded by an 8-foot high barbed wire over chain link fence, with access gates to the north and west, with the primary access via the western gate. The RAF is generally comprised of the following components:

- *Containment Cell* - In 1999, construction of a 1.4-acre containment cell was completed to store 16,117 cubic yards of impacted soil and sediment generated during the RA. The containment cell was lined with a single composite liner system and completed with a composite cap placed over the impacted soil and sediment. Two gas vents and a leachate collection pipe were also installed within the containment cell. A series of ditches were installed around the containment cell to collect surface water runoff and direct stormwater away from the containment cell. A gravel service road surrounds the perimeter of the containment cell allowing for vehicle access to conduct inspection and maintenance.

- *Leachate Collection System* - A leachate collection system is comprised of a collection pipe that extends the length of the containment cell and is connected to the collection manhole, which is installed adjacent to the western side of the containment cell. The collection manhole is equipped with two pumps to transfer leachate to a storage tank prior to disposal. All components of the leachate collection system are double contained with fail safe monitoring systems. The collection pipe surfaces at the east end of the containment cell providing access for cleaning, as needed. The leachate collection system components are noted on Figure 3-1.

- *Leachate Storage System* – Beginning in April 2010, Leachate is no longer pumped from the collection manhole and stored in an aboveground 5,000-gallon steel storage tank which has a steel secondary containment structure as shown on Figure 3-2 – Building, Tank, and Piping Plan. The flow totalizer was relocated to the collection manhole with the totalizer continuing to track the quantity of leachate generated. The leachate generated and stored in the collection manhole is discharged on a quarterly basis to Outfall 03B following the receipt of analytical data and confirmation of compliance with the effluent limits.. The aboveground tank remained empty during 2011 and has been out of service since March 27, 2009.

- *RAF Building* - A 1,278-square foot building constructed of a steel frame and siding on a concrete slab foundation is used to house the leachate collection tank (tank area), and truck pad (truck loading area), noted above. Additionally, the building enclosure has an office area for maintaining OM&M records, the communication components, electrical service boxes and a storage area for tools, supplies, and equipment, known as the office/storage area. The building is located west of the containment cell and collection manhole.

3.2 Operations and Inspections

The RAF and associated components are scheduled for monthly visual inspection and documentation as set forth in the OM&M Manual. Operation is also monitored via telecommunication with the RAF auto dialer system, Intelligent System for Automatic Control & Communication (ISACC). Scheduled site visits and subsequent Site Inspection Reports – Form A (Appendix A) consists of the following inspection components associated with the RAF:

- General Property Access and Drainage;
- Cell Perimeter Components;
- Containment Cell;
- Leachate Collection Manhole;
- Building Structure, Electrical, Telephone, and Auto Dialer Controls; and
- Leachate Storage System.

The cell perimeter road and facility access road were reviewed during the monthly inspections to ensure access for facility maintenance. The immediate surface drain ways were inspected to insure that ponding or erosion does not occur from runoff. All Property ditches and culverts were accessed and viewed during the inspection, for the same. The RAF perimeter fence was also inspected to ensure facility security, and the facility overhead utilities were viewed and tested, in the building.

Inspection of the containment cell involved viewing the cell from the perimeter road and traversing its surface. Components viewed were the four perimeter drains, the two passive gas vents, and the cell cleanout pipe. These were checks for functionality, which also included periodic screening of the passive gas vents for volatile organic compounds (VOCs). The surface of the cell was inspected for stressed vegetation, burrows, erosion, and settlement.

Operation of the leachate collection manhole involves structural, electrical, pumping, and alarm components. Each inspection required checking the manhole control panel and recording running hours of the two pumps. Additionally, this included testing the operation of each pump, as well as opening the manhole and conducting visual inspection of its components. The lead/lag pumping system remains in the hand off position and are only operated to conduct discharges to Outfall 03B.

The RAF building was viewed during the inspection for inconsistencies in the structural, security, electrical, and telephone systems, as well as, assessing the condition of the heat and vent systems. The ISACC is located in the RAF building, provides continuous monitoring information of the leachate collection manhole and previously the leachate storage tank. The ISACC system is generally accessed remotely via modem semi-monthly for data collection and management. In the event of an alarm condition, the ISACC system alerts designated Synapse personnel based on the guidelines set forth in the OM&M Manual and the ISACC program logic. The Auto Dialer Alarm Incident and Testing Report, Form F, included in Appendix B, provides documentation of alarm conditions received, if any, and testing during the 2011 calendar year. An annual total system check was performed on December 21, 2011, as required, and documented on Form F, included in Appendix B. No alarms were triggered during 2011.

3.3 Maintenance

General maintenance requirements of the RAF are set forth in the OM&M Manual, which provides inspection criteria, forms, guidance, and procedures to perform scheduled maintenance requirements, as well as contingency plans for unscheduled matters. The OM&M procedures and protocols are generally cross-referenced with and supported by the August 2001 FER.

Scheduled Maintenance

The scheduled maintenance activities associated with the RAF and site components that occurred during the 2011 calendar year consisted of the following:

- RAF site access (snow removal, road maintenance, and fence maintenance);
- RAF building (ISACC program diagnostic/communication response);
- Containment cell (vegetation management, mowing, and erosion control);

Drainage ditches (vegetation, riprap and culvert management).

Unscheduled Maintenance

Unscheduled maintenance activities associated with the RAF and site components that occurred during the 2011 calendar year consist of the following:

- Elimination of persistent and damaging vectors from the containment cell;
- Placement and grading of top soil followed by seeding and mulch;
- Spot restoration of vegetative cover on the containment cell;
- Removal of woody vegetation; and
- General cleaning of the building.

3.4 Leachate Collection

The leachate generated from the containment cell is collected, conveyed, and stored on-site. The leachate generated from the containment cell is drained, via gravity flow, to a perforated 6-inch, high-density polyethylene (HDPE) pipe located along the bottom of the containment cell, just above the liner. The leachate collection pipe passes through the western perimeter berm, and discharges into the double walled leachate collection manhole. The portion of the leachate collection pipe between the containment cell and collection manhole is equipped with double-walled piping that provides secondary containment outside the containment cell. Beginning in April 2009 (see Page 3-1) the leachate is allowed to collect in the collection manhole prior to batch sampling and discharge to State Pollutant Discharge Elimination System (SPDES) Outfall 03B via manually controlled pumps. The automated lead/lag pumping system is no longer used as the primary and backup system.

Leachate generation/collection is monitored by two methods; measuring the fill height in the collection manhole and through a flow totalizer. The operation of this unit, associated with the leachate collection system, is discussed in the OM&M Manual. One of the eight programmed ISACC channels is no longer used for tracking of tank filling events (i.e., water level in the tank).

The leachate generation rate is tracked by the inline flow totalizer that is read and recorded during the monthly inspections. . Table 3-1 – Cumulative Leachate Generation provides a summary of the recorded flow from May 1999, inception, through December 21, 2011. Chart 3-1 – Cumulative Leachate Generation graphically represents the data from Table 3-1. A total of 2,500 gallons were metered during 2011 comparable to an average flow of approximately 6.9 gallons per day (gpd) and discharged to Outfall 03B. The general overall trend of yearly leachate production is similar to the flow rate observed in 2010 as depicted in Table 3-2 – Leachate Generation Per Year, and Chart 3-2 – Leachate Generation Per Year.

3.5 Leachate Disposal

Prior to March 27, 2009 the leachate was stored in the on-site 5,000-gallon aboveground tank, with a steel secondary containment sized to contain 110% of the tank volume. The leachate requires laboratory analysis prior to bulk batch disposal. Previous scheduling of the sampling events and subsequent disposal was based on tank level data monitored by the ISACC system. No disposal of the leachate to the municipal sanitary system was performed during 2011 under Permit No. GW-050 issued by the Oneida County Department of Water Quality and Water Pollution Control (OCDWPC). The Oneida County permit remains active and current with the OCDWPC, in the event that the leachate does not meet the permit effluent limits specified for SPDES Outfall 03B. The collection manhole leachate level was visually observed during scheduled monthly RAF inspections. The manhole controls have been switched to operate by hand to perform transfers of leachate from the collection manhole to Outfall 03B. The liquid level in the collection manhole is monitored utilizing two of the existing eight programmed ISACC (auto dialer system) channels. The ISACC channels are programmed to provide telephone notification to Synapse in the event 90% full conditions are identified in the leachate collection manhole.

3.6 Summary

The RAF facility and associated components operated as designed during 2011. The monitoring and inspection continues, as necessary, to evaluate trends and the ongoing condition of the RAF. The operation and maintenance performed during the 2011 calendar year were performed within the guidelines set forth in the OM&M Manual. In addition to scheduled maintenance, unscheduled maintenance conditions were recognized and corrected as follows:

- Persistent and damaging vectors were eliminated from the containment cell; and
- Small areas of stressed vegetative cover, on the containment cell, were restored.

The evaluation of the data relating to the leachate generated and metered during 2011 (2,500 gallons), indicates a similar flow rate of leachate generated in comparison to 2010. The average production rate for 2011 was approximately 6.9 gpd. The leachate storage system is now Outfall 03B discharge, actuated on a quarterly basis. Three leachate batch discharges to Outfall 03B were conducted during 2011. Synapse concludes that the engineering controls associated with the RAF performed as designed during 2011, no modifications or changes to the OM&M manual are required or proposed at this time.

3.7 Tables

TABLE 3-1
CUMULATIVE LEACHATE GENERATION

2011 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Reading Date	Monitoring Period	Totalizer Reading	Gallons Per Period	Flow (gpd)
5/19/1999	0	0	0	0
6/1/1999	13	4200	4200	323
6/22/1999	21	8200	4000	190
7/23/1999	31	12200	4000	129
9/27/1999	66	16200	4000	61
12/21/1999	85	20200	4000	47
1/21/2000	31	21400	1200	39
2/4/2000	14	22400	1000	71
3/14/2000	39	23800	1400	36
4/21/2000	38	24800	1000	26
5/11/2000	20	25700	900	45
6/6/2000	26	26700	1000	38
7/11/2000	35	27700	1000	29
8/18/2000	38	28800	1100	29
9/1/2000	14	29500	700	50
10/27/2000	56	31000	1500	27
11/14/2000	18	31600	600	33
12/15/2000	31	32700	1100	35
1/31/2001	47	33800	1100	23
2/28/2001	28	34400	600	21
3/29/2001	29	34800	400	14
4/26/2001	28	35400	600	21
5/23/2001	27	35900	500	19
6/21/2001	29	36500	600	21
7/17/2001	26	37100	600	23
8/15/2001	29	37600	500	17
9/14/2001	30	38400	800	27
10/23/2001	39	39200	800	21
12/3/2001	41	40000	800	20
12/18/2001	15	40400	400	27
1/11/2002	24	40800	400	17
2/6/2002	26	41400	600	23
3/5/2002	27	41800	400	15
4/16/2002	42	42300	500	12
5/9/2002	23	42700	400	17
6/5/2002	27	43100	400	15
7/23/2002	48	43900	800	17
8/9/2002	17	44100	200	12
9/19/2002	41	44900	800	20
10/16/2002	27	45400	500	19
11/27/2002	42	46200	800	19
12/13/2002	16	46400	200	13
1/31/2003	49	47200	800	16
2/18/2003	18	47400	200	11
3/19/2003	29	47800	400	14
4/16/2003	28	48200	400	14
5/15/2003	29	48400	200	7
6/5/2003	21	48600	200	10
7/9/2003	34	49200	600	18
8/1/2003	23	49600	400	17
9/23/2003	53	50400	800	15
10/2/2003	9	50400	0	0
11/21/2003	50	51500	1100	22
12/31/2003	40	52600	1100	28
1/13/2004	13	52600	0	0
2/27/2004	45	54100	1500	33
3/10/2004	12	54100	0	0
4/7/2004	28	54600	500	18
5/18/2004	41	54800	200	5
6/18/2004	31	55200	400	13
7/29/2004	41	55800	600	15
8/26/2004	28	56200	400	14
9/23/2004	28	56500	300	11
10/20/2004	27	56700	200	7
11/30/2004	41	57100	400	10
12/17/2004	17	57300	200	12
1/12/2005	26	57700	400	15
2/10/2005	29	57900	200	7

TABLE 3-1
CUMULATIVE LEACHATE GENERATION

2011 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Reading Date	Monitoring Period	Totalizer Reading	Gallons Per Period	Flow (gpd)
3/7/2005	29	58100	400	14
4/6/2005	30	58300	200	7
6/2/2005	57	58700	400	7
7/27/2005	55	59300	600	11
8/10/2005	14	59500	200	14
9/14/2005	35	60000	500	14
10/11/2005	27	60300	300	11
11/15/2005	35	60600	300	9
12/28/2005	43	60900	300	7
1/25/2006	28	61200	300	11
2/20/2006	26	61400	200	8
3/24/2006	32	61800	400	13
4/12/2006	19	62000	200	11
5/17/2006	35	62200	200	6
6/2/2006	16	62400	200	13
7/11/2006	39	62600	200	5
8/23/2006	43	63200	600	14
9/20/2006	28	63400	200	7
10/5/2006	15	63600	200	13
11/3/2006	29	63800	200	7
12/29/2006	56	64400	600	11
1/26/2007	28	64700	300	11
2/21/2007	26	64900	200	8
3/23/2007	30	65100	200	7
4/18/2007	26	65300	200	8
5/31/2007	43	65700	400	9
6/12/2007	12	65700	0	0
7/26/2007	44	66100	400	9
8/14/2007	19	66300	200	11
9/19/2007	36	66500	200	6
10/30/2007	41	66800	300	7
11/30/2007	31	67200	400	13
12/28/2007	28	67400	200	7
1/14/2008	17	67700	300	18
2/21/2008	38	68000	300	8
3/18/2008	26	68300	300	12
4/18/2008	31	68500	200	6
5/13/2008	25	68700	200	8
6/23/2008	41	69000	300	7
7/23/2008	30	69200	200	7
8/6/2008	14	69400	200	14
9/15/2008	40	69600	200	5
10/1/2008	16	69600	0	0
11/25/2008	55	69900	300	5
12/24/2008	29	70200	300	10
1/20/2009	27	70500	300	11
2/26/2009	37	70800	300	8
3/11/2009	13	71100	300	23
3/27/2009	16	71600	500	31
4/8/2009	12	71600	0	0
5/29/2009	51	71900	300	6
6/11/2009	13	71900	0	0
7/23/2009	42	72500	600	11
8/5/2009	13	72500	0	0
9/4/2009	30	73100	600	14
10/16/2009	42	73100	0	0
11/25/2009	40	73100	0	0
12/24/2009	29	73600	500	5
1/18/2010	25	73600	0	0
2/4/2010	17	73600	0	0
3/19/2010	43	73600	0	0
4/16/2010	28	74300	700	8
5/14/2010	28	74300	0	0
6/11/2010	28	74300	0	0
7/2/2010	21	74300	0	0
8/6/2010	35	75300	1000	12
9/17/2010	42	75300	0	0
10/16/2010	29	75300	0	0

TABLE 3-1
CUMULATIVE LEACHATE GENERATION

2011 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Reading Date	Monitoring Period	Totalizer Reading	Gallons Per Period	Flow (gpd)
11/13/2010	28	75800	500	5
12/22/2010	39	75800	0	0
1/7/2011	16	75800	0	0
2/4/2011	28	75800	0	0
3/18/2011	42	76680	880	10
4/1/2011	14	76680	0	0
5/12/2011	41	76680	0	0
6/24/2011	43	76680	0	0
7/8/2011	14	76680	0	0
8/19/2011	42	77500	820	8
9/26/2011	38	77500	0	0
10/20/2011	24	77500	0	0
11/29/2011	40	78300	800	8
12/21/2011	22	78300	0	0

NOTES:
1. Monitoring Period = Days between totalizer readings.
2. Totalizer reading in gallons.
3. gpd = Gallons per day.
4. Outfall 03B installed on April 8, 2009.

TABLE 3-2
ANNUAL LEACHATE GENERATION

2011 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Year	Reading Date	Monitoring Period	Totalizer Reading	Gallons Per Year	Flow (gpd)	Flow (gpm)
Begin	5/19/1999		0			
1999	12/21/1999	216	20200	20200	93.5	0.0649
2000	12/15/2000	360	32700	12500	34.7	0.0241
2001	12/18/2001	368	40400	7700	20.9	0.0145
2002	12/13/2002	360	46400	6000	16.7	0.0116
2003	12/31/2003	383	52600	6200	16.2	0.0112
2004	12/17/2004	352	57300	4700	13.4	0.0093
2005	12/28/2005	376	60900	3600	9.6	0.0066
2006	12/29/2006	366	64400	3500	9.6	0.0066
2007	12/29/2007	365	67400	3000	8.2	0.0057
2008	12/24/2008	361	70200	2800	7.8	0.0054
2009	12/20/2009	361	73600	3400	9.4	0.0065
2010	12/22/2010	367	75800	2200	6.0	0.0042
2011	12/21/2011	364	78300	2500	6.9	0.0048

NOTES:

1. Monitoring Period = Days between totalizer readings.
2. Totalizer reading in gallons.
3. gpd = Gallons per day.
4. gpm = Gallons per minute.

3.8 Charts

CHART 3-1
LEACHATE PRODUCTION OVER TIME

2011 PERIODIC REVIEW REPORT
2200 BLEEKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

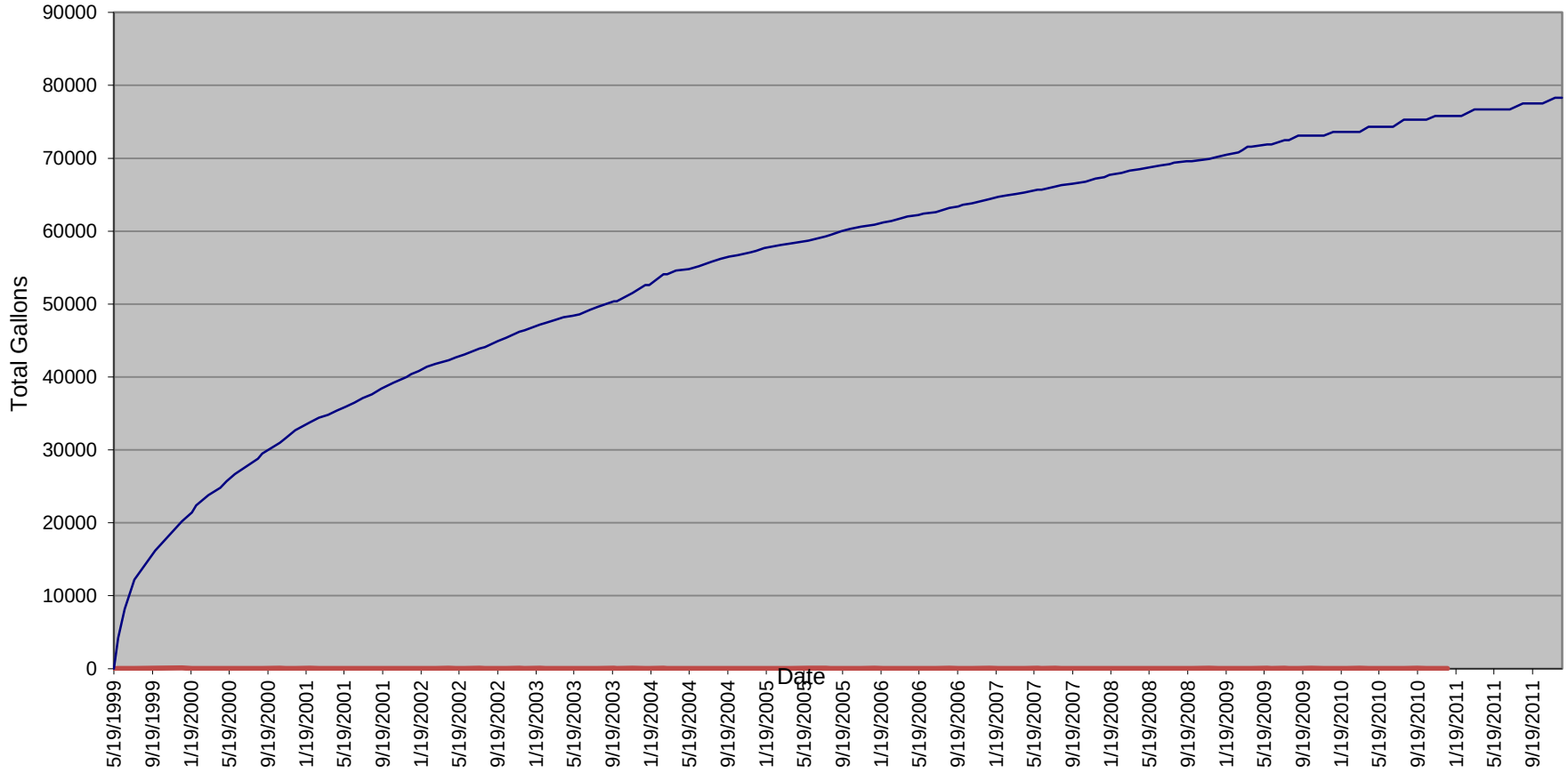
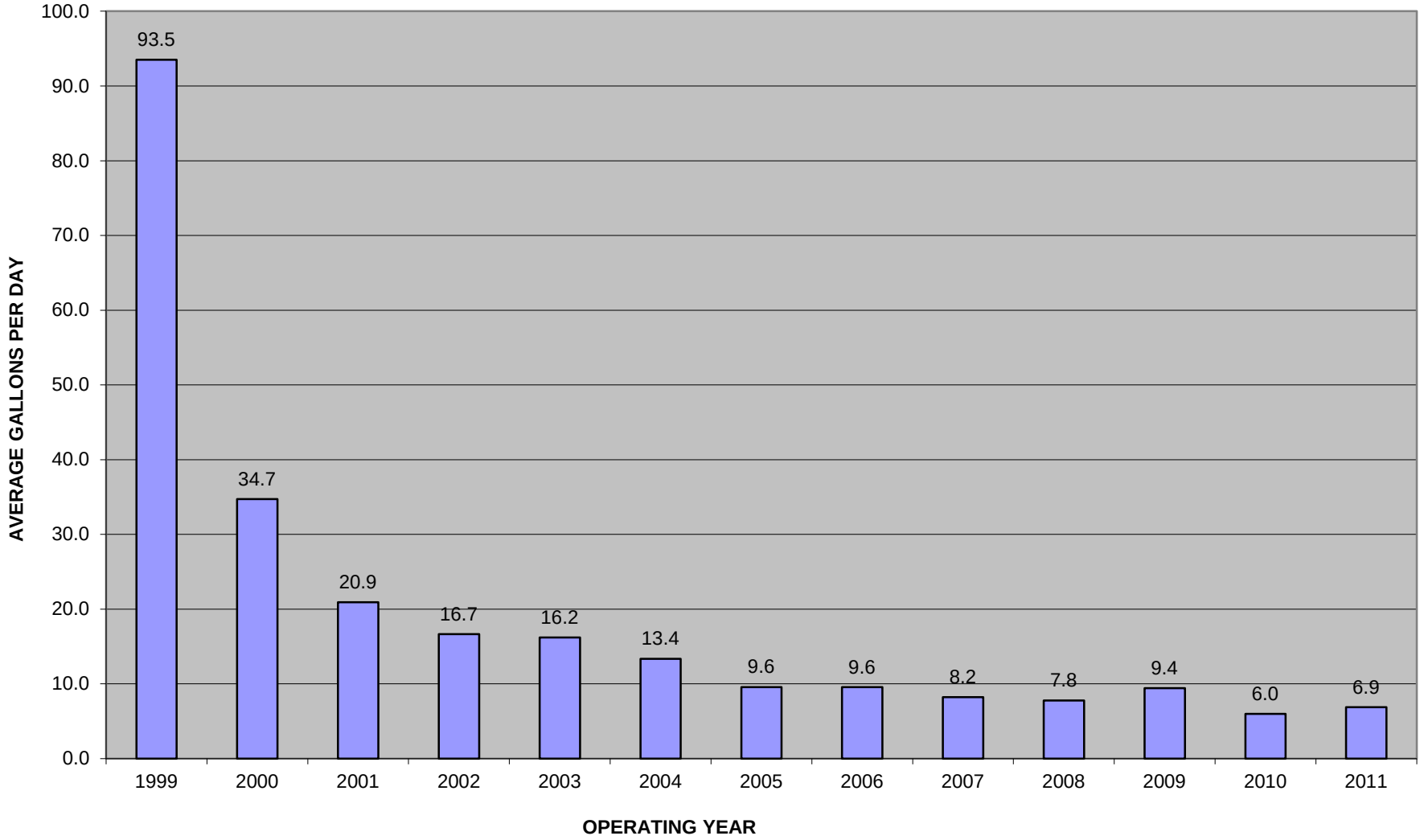
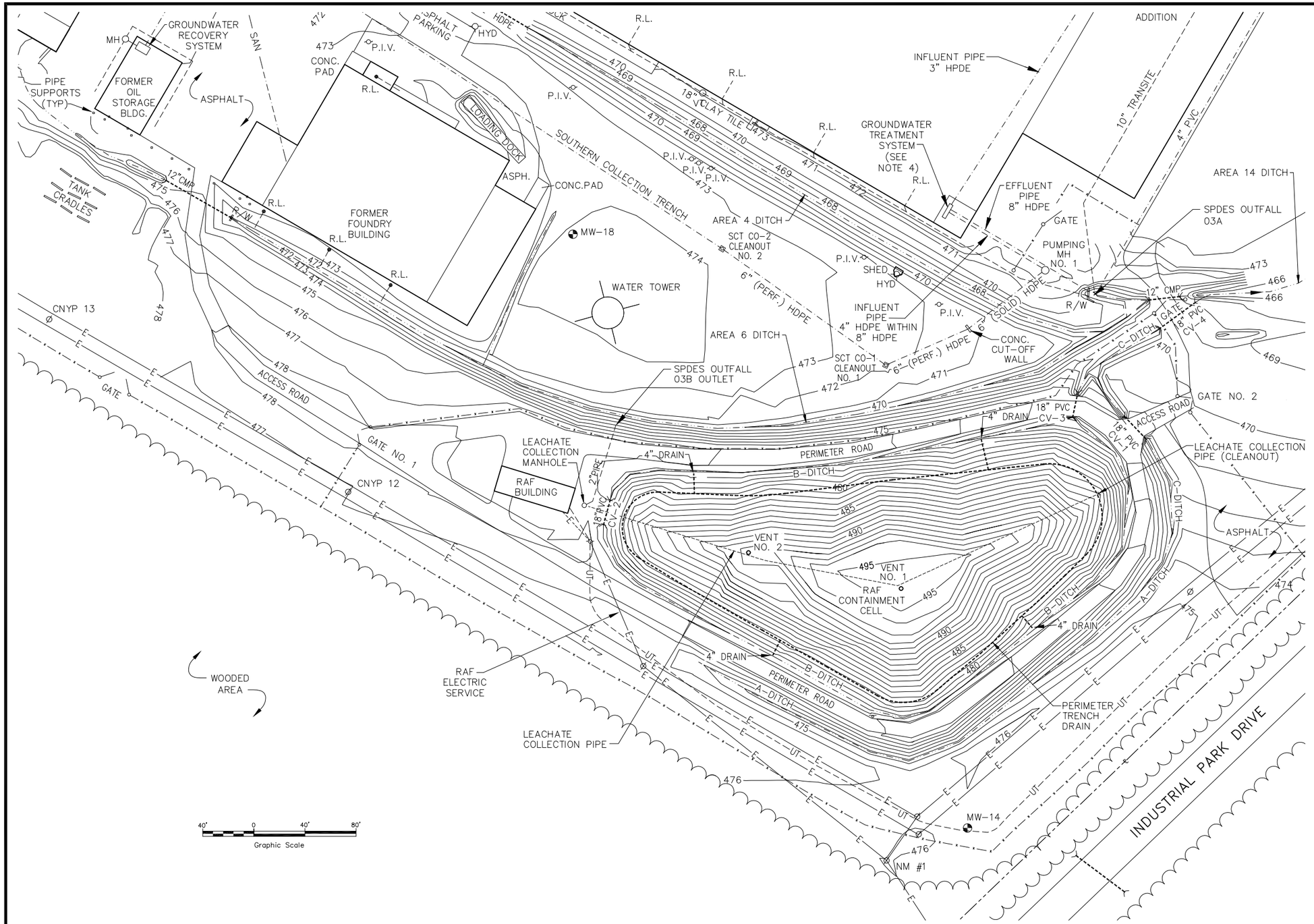


CHART 3-2
LEACHATE GENERATION PER YEAR

2011 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003



3.9 Figures



NOTES:

1. BASE MAP INFORMATION SHOWN ON THIS DRAWING IS BASED ON A LIMITED FIELD SURVEY PERFORMED BY BLASLAND, BOUCK & LEE, INC. (BBL), DATED 10/97, AS-BUILT SURVEY INFORMATION PERFORMED BY LAFAVE, WHITE & MCGIVERN, L.S., P.C., DATED 5/99, AND ON INFORMATION OBTAINED FROM PREVIOUS SITE PLANS WHICH MAY BE CONCEPTUAL OR ASSUMED.
2. ELEVATIONS SHOWN ARE IN FEET ABOVE SEA LEVEL (DATUM IS NGVD OF 1988).
3. CONTOUR INTERVAL EQUALS 1 FOOT.
4. THE GROUNDWATER TREATMENT SYSTEM CONSISTS OF AN AIR STRIPPER AND TWO PUMPING MANHOLES IMPLEMENTED AS AN INTERIM REMEDIAL MEASURE SYSTEM DESIGNED AND INSTALLED BY BBL IN 1995.
5. PROPERTY LINE INFORMATION TAKEN FROM HERKIMER COUNTY TAX MAPS AND IS APPROXIMATE.

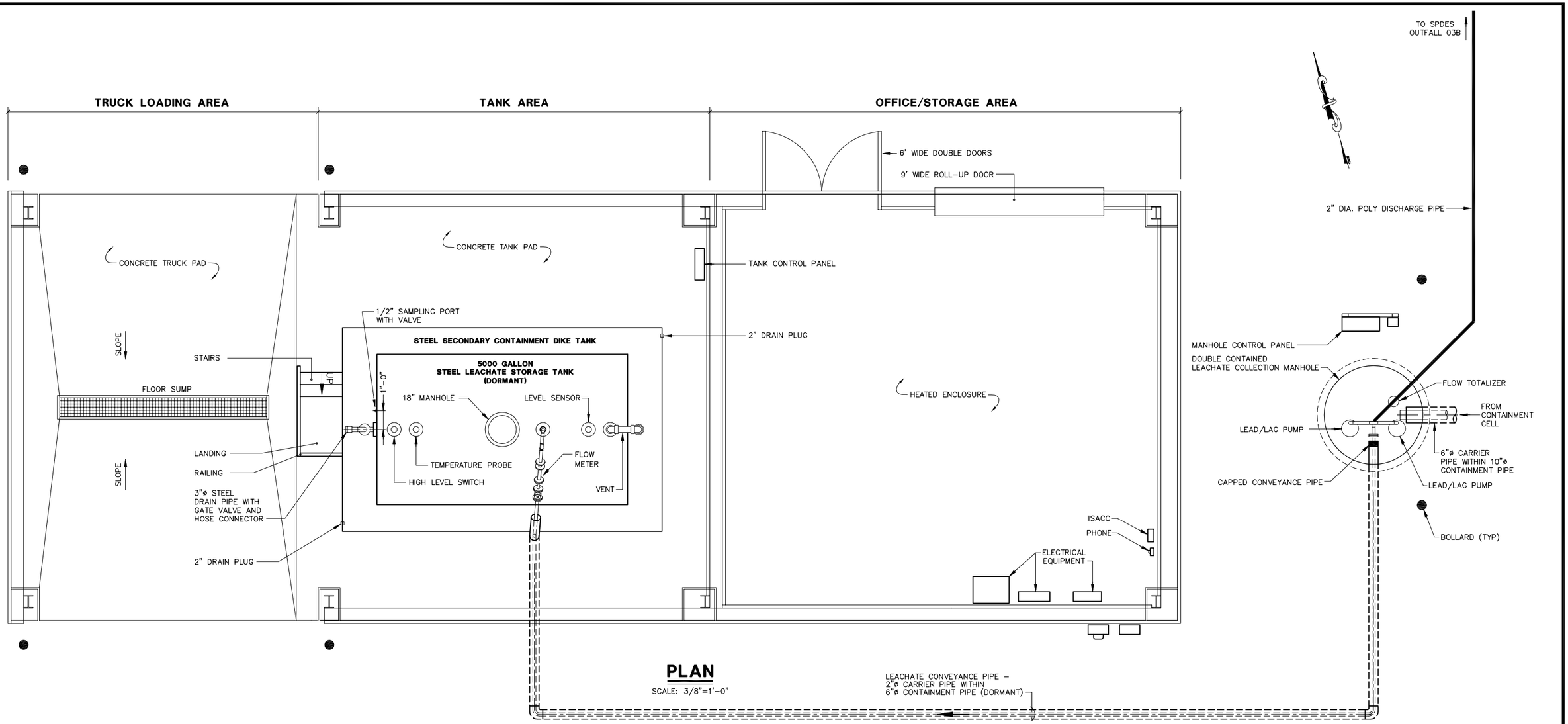
X: CP-BASE.DWG
D2BBW
8/27/12
SYNAPSE/WIP/DANA 01-11/2011 SMP/DANAB11.DWG

synapse
SYNAPSE RISK MANAGEMENT, LLC
360 ERIE BLVD. EAST
SYRACUSE, NEW YORK 13202

2011 PERIODIC REVIEW REPORT
2200 BLEECKER STREET
UTICA, NEW YORK

REMEDIAL ACTION FACILITY PLAN

PROJECT NO.: DANA 01-11
DATE: SEPT. 2012
FIGURE NO.: 3-1



PLAN

SCALE: 3/8"=1'-0"

0 4' 10'

GRAPHIC SCALE

X: FOUNDAT.DWG
D2BBW
8/27/12
SYNAPSE/WIP/DANA 01-11/2011 SMP/DANAB10.DWG

synapse
SYNAPSE RISK MANAGEMENT, LLC
360 ERIE BLVD. EAST
SYRACUSE, NEW YORK 13202

2011 PERIODIC REVIEW REPORT

2200 BLEECKER STREET
UTICA, NEW YORK

BUILDING, TANK, AND PIPING PLAN

PROJECT NO.: DANA 01-11

DATE: SEPT. 2012

FIGURE NO.: 3-2

4.0 SITE MANAGEMENT - GROUNDWATER MONITORING

This section presents the results of the semi-annual groundwater monitoring events conducted at the Property in 2011. The Property OM&M Manual details the procedures that were followed during groundwater monitoring. The FER provides the procedures followed during the implementation of the RA that adjusted the groundwater monitoring program, which included monitoring well decommissioning and new monitoring well installation. The sub-sections that follow review the construction, monitoring, sampling, and data evaluation as part of the groundwater monitoring program and include specific tables and figures. The summary section provides comments, conclusions, and recommendations.

4.1 Monitoring Well Construction

The monitoring well network currently consists of five monitoring wells designated as: MW-6R, MW-13A, MW-14, MW-17, and MW-18. The monitoring wells are located to provide groundwater quality data for site-specific RA areas and monitor the performance of the GTS, including hydraulic control and contaminate removal.

The monitoring wells consist of 2-inch diameter polyvinyl chloride (PVC) risers and 10-foot lengths of 0.010-inch slotted PVC screen. The well screens were installed to straddle the groundwater table within the overburden soils above the glacial till. Shallow groundwater flow is generally from the south to the north across the Property. The locations of the monitoring wells are shown on Figure 2-2. The detailed descriptions of the monitoring well locations, as well as hydraulic consideration, are as follows:

- MW-6R, located hydraulically downgradient of the eastern portion of the Property;
- MW-13A, located hydraulically crossgradient (east) of former RA Areas 5, 7, 8, 13, and 14 as well as the RAF;
- MW-14, located at the southeastern corner of the Property hydraulically upgradient of all former RA areas and the RAF;
- MW-17, located hydraulically downgradient of the NCT; and
- MW-18, located hydraulically downgradient of the former RA Areas 6, 7, 8, 9, and 10, as well as hydraulically upgradient of the SCT.

4.2 Groundwater Elevation Measurement

As part of the semi-annual groundwater monitoring program, groundwater level elevations were measured from the aforementioned monitoring wells on April 26, 2011 and October 25, 2011. Groundwater levels in the cleanouts for the NCT and SCT were also measured during the 2011 events, in order to contour the cone of depression created by NCT and SCT. Monitoring well groundwater levels were measured from a designated reference point at the top of the PVC well riser using the procedures outlined in the OM&M Manual. The groundwater levels were measured on the same day, prior to purging or groundwater sampling activities. Groundwater level measurements were recorded in a dedicated field book and later transferred to the Water Level Field Logs – Form D and are provided in Appendix D. The groundwater level measurements were converted to elevations based on as-built survey information. The groundwater levels for the two groundwater sampling events conducted in 2011 are shown in Table 4-1 – 2011 Groundwater Elevation Summary. Monitoring well MW-17 was found to have insufficient groundwater to allow for sample collection, during both sampling events. This is attributed to Pumping Manhole No. 2, effectively lowered the water table to an elevation at or less than the total depth of MW-17. The potentiometric surface is depicted in Figure 4-1 – Overburden Groundwater Elevation Contour Map - April 26, 2011, and Figure 4-2 – Overburden Groundwater Elevation Contour Map – October 25,

2011. A summary of groundwater levels from 1999 to 2011 is provided in Table 4-2 – Cumulative Groundwater Elevations.

4.3 Groundwater Sampling

Groundwater samples were obtained during two groundwater monitoring events conducted on April 26, 2011 and October 25, 2011, as part of the OM&M program. Groundwater samples were collected from monitoring wells MW-6R, MW-13A, MW-14, and MW-18. As discussed in Section 4.1, MW-17 had insufficient groundwater during both sampling events to allow for sample collection.

Based on the guidance set forth in the OM&M Manual, the groundwater sampling events completed in 2011 were scheduled as semi-annual. The groundwater samples were submitted for laboratory analysis for VOCs of concern, polychlorinated biphenyls (PCBs), and select metals. Analytical results for VOCs, PCBs, and metals were compared to standards presented in the NYSDEC Division of Water *Technical and Operation Guidance Series* (1.1.1) (TOGS 1.1.1), June 1998.

Beginning with the April 26, 2011 sampling event the overburden monitoring wells were sampled via low flow sampling methods. In addition to reducing total dissolved solids (TDS) and turbidity levels, low flow sampling methods provide the following benefits:

- Improved sample quality, analytical accuracy and precision through reduced disturbance to the well and formation;
- Reduced purge water volume (90-95%);
- Improved detection and resolution of contaminants;
- Reduced time for purging and sampling; and
- Significant technical and cost benefits.

Groundwater samples were collected after the field indicator parameters stabilized to within the acceptable tolerances. Groundwater field parameters were obtained from each monitoring well just prior to sampling, and included groundwater levels, pH, conductivity, dissolved oxygen, turbidity, ORP and temperature. Following stabilization, the groundwater samples were collected prior to the inlet of the flow-through-cell. Groundwater samples were discharged directly from the sample tubing into appropriate sample containers, containing the appropriate sample preservative for each analysis, supplied by the analytical laboratory. The purged groundwater was containerized and transferred to the on-site leachate collection manhole, part of the RAF, for discharge through Outfall 03B.

Groundwater samples were collected and analyzed for VOCs, PCBs and total metals. Each grab sample was placed directly into laboratory-provided containers, labeled, logged in to a chain of custody document, and stored on ice in an insulated cooler pending delivery to the laboratory for analysis. Quality assurance/quality control (QA/QC) groundwater samples were collected at a frequency described below.

Trip Blanks

On events/days when aqueous samples were delivered to the laboratory for VOC analysis, a trip blank was included. A trip blank is an aliquot of analyte-free water, sealed in a 40 milliliter glass vial with a Teflon-lined septum cap prepared by the laboratory prior to initiation of fieldwork. The sealed vials were prepared by the laboratory and included with each shipment of sample bottles for aqueous media sampling at the Property. The trip blank may determine if contamination of the samples has occurred during shipment/delivery.

Duplicate Samples

Duplicate samples were collected and analyzed to evaluate the reproducibility of the analytical technique used. One duplicate sample (DUP-1) was collected from monitoring well MW-18 for all parameters during April and October sampling events. Groundwater from a selected monitoring well was divided between

the primary sample and the duplicate sample laboratory containers, logged on the chain of custody and submitted to the laboratory.

Matrix Spike / Matrix Spike Duplicates

Matrix spike and matrix spike duplicate samples were collected to measure the accuracy of organic analyte recovery from the sample matrices. For organic constituents and metals, one matrix spike and one matrix spike duplicate sample was analyzed for each sampling event.

The 2011 samples were submitted to Test America Laboratories of Amherst, New York. Table 4-3 – Groundwater Constituents, Methods, and Practical Quantification Limits, details the groundwater sample analytical requirements. The Groundwater Sampling Logs - Form E, used during well sampling to record the groundwater field parameters, are provided in Appendix E.

4.4 Groundwater Analytical Results

The analytical results from the semi-annual groundwater sampling events, as compared to the TOGS 1.1.1 are presented in the subsequent summary tables. Table 4-4 – 2011 Groundwater Analytical Results, summarizes the groundwater analytical data from the two semi-annual sampling events. Table 4-5 – Cumulative Groundwater Analytical Results, provides a historic summary of the groundwater analytical results from 1999 through 2011. The original laboratory analytical data for 2011 were provided under separate cover to NYSDEC upon receipt from the laboratory, and are provided in Appendix F – Groundwater Analytical Data.

The following summarizes analytical data from each monitoring well and long term trends.

MW-6R

- No VOCs were detected at concentrations above their respective MDLs during either of the 2011 sampling events;
- No PCBs were detected at concentrations above their respective MDLs during either of the 2011 sampling events;
- No metals were detected at concentrations above their respective MDLs during the April 2011 sampling event;
- Chromium, copper and zinc were detected during the October 2011 sampling event at estimated concentrations of 2.4 ug/l, 3.9 ug/l and 9.5 ug/l, however below TOGS 1.1.1 guidance values of 50 ug/l, 200 ug/l and 2000 ug/l, respectively; and
- Historically, VOCs and PCBs have not been detected at concentrations above their respective MDLs.

MW-13A

- No VOCs were detected at concentrations above their respective MDLs during either of the 2011 sampling events;
- No PCBs were detected at concentrations above their respective MDLs during either of the 2011 sampling events;
- No metals were detected at concentrations above their respective MDLs during the April 2011 sampling events;

- Chromium and zinc were detected during the October 2011 sampling event at estimated concentrations of 1.0 ug/l and 4.0 ug/l, however below TOGS 1.1.1 guidance values of 50 ug/l, and 2000 ug/l, respectively;

- Historically, VOCs and PCBs have not been detected at concentrations above their respective MDL.

MW-14

- One VOC, Trichloroethlene (TCE) was detected at an estimated concentration of 0.48 ug/l in this sample, however below TOGS 1.1.1 guidance value of 5 ug/l. TCE was also identified the method blank. No other VOCs were detected at concentrations above MDLs during either April 2011 sampling event;

- No VOCs were detected at concentrations above their respective MDLs during October 2011 sampling events;

- No PCBs were detected at concentrations above their respective MDLs during either of the 2011 sampling events;

- Chromium, copper and zinc were detected during the April 2011 sampling event at estimated concentrations of 1.2 ug/l, 4.9 ug/l and 9.1 ug/l however below TOGS 1.1.1 guidance value of 50 ug/l, 200 ug/l and2,000 ug/l, respectively;

- Chromium, copper and zinc were detected during the October 2011 sampling event at estimated concentrations of 1.3 ug/l, 2.2 ug/l and 4.7 ug/l however below TOGS 1.1.1 guidance value of 50 ug/l, 200 ug/l and2,000 ug/l, respectively; and

- Historically, VOCs and PCBs have not been detected at concentrations above their respective MDL.

MW-17

- Monitoring well MW-17 had insufficient water to allow sample collection during both 2011 sampling events.

MW-18

- Vinyl chloride (VC) was detected at a concentration of 1.1 ug/l in the primary and duplicate samples, respectively, however below the TOGS 1.1.1 guidance value of 2 ug/l, during the April 2011 sampling event. No other VOCs were detected at concentrations above MDLs during either 2011 sampling event;

- VC was detected at a concentration of 22 ug/l, in the primary and duplicate sample, respectively, which exceeded the TOGS 1.1.1 guidance value of 2 ug/l, during the October 2011 sampling event. No other VOCs were detected at concentrations above MDLs during either 2011 sampling event;

- Copper was detected during the April 2011 sampling event at an estimated concentration of 3.3 ug/l from the duplicate sample, however below TOGS 1.1.1 guidance values of 200 ug/l;

- Zinc was detected during the October 2011 sampling event at an estimated concentration of 2.2 ug/l, however below TOGS 1.1.1 guidance values of 50 ug/l;

- No PCBs were detected at concentrations above their respective MDLs during either 2011 sampling events; and

- Historically, PCBs have not been detected at concentrations above the MDL.

4.5 Summary

An interpretation of the groundwater elevation measurements obtained during the April and October 2011 sampling events indicated that the overburden groundwater flow was generally to the north. The groundwater flow direction was influenced in the vicinity of the NCT and the SCT, due to the operation of the GTS. Monitoring well MW-17 continues to have insufficient groundwater to measure or sample, as a result of the NCT effectively lowering the groundwater table.

The groundwater quality from both the April and October 2011 groundwater sampling events are generally consistent with historic data. VC has been detected in monitoring well MW-18 above its analytical MDL for ten consecutive sampling events and continues to demonstrate the degradation of site specific groundwater constituents. As MW-18 is upgradient of the groundwater depression created by the SCT, (see Figure 4-1 and 4-2), the groundwater monitored at MW-18 is directed, collected, and treated via the GTS, discussed in Section 6.

The April 26, 2011 sampling event represents the first sampling event conducted utilizing low flow sampling methods. Concentrations of certain metals did not exceed TOGS 1.1.1 guidance values and have not demonstrated exceedances since 2002. Detectable concentrations of PCBs were not identified in groundwater from any of the current monitoring locations during the 2011 sampling events.

Based on the successful integration of low-flow sampling into the groundwater monitoring program Synapse concludes that the OM&M Manual groundwater sampling procedures section should be modified to reflect the new sampling method.

4.6 Tables

TABLE 4-1
2011 GROUNDWATER ELEVATION SUMMARY

2011 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA NEW YORK
NYSDEC SITE NO. 622003

Monitoring Well ID	Ground Surface Elevation	Installed Depth from TOR	Measured Depth from TOR	TOR Elevation	Water Depth from TOR	Water Elevation
Date Gauged: 4/26/11						
MW-6R	462.69	10.52	10.51	465.47	4.25	461.22
MW-13A	467.30	11.07	11.05	469.23	3.22	466.01
MW-14	475.71	12.94	12.93	478.45	3.15	475.30
MW-17	463.89	11.25	11.25	466.02	11.19	Note 5
MW-18	474.10	11.73	11.72	475.96	5.69	470.27
SCT CO-1	NA	NA	NA	472.30	Dry	465.20
SCT CO-2	NA	NA	NA	473.42	7.72	465.70
SCT CO-3	NA	NA	NA	471.21	Dry	465.61
NCT CO-1	NA	NA	NA	464.70	Dry	453.42
MH-2	NA	NA	NA	465.31	11.94	453.37

Monitoring Well ID	Ground Surface Elevation	Installed Depth from TOR	Measured Depth from TOR	TOR Elevation	Water Depth from TOR	Water Elevation
Date Gauged: 10/25/11						
MW-6R	462.69	10.52	10.45	465.47	4.15	461.32
MW-13A	467.30	11.07	11.07	469.23	3.11	466.12
MW-14	475.71	12.86	12.85	478.37	3.09	475.28
MW-17	463.89	11.25	11.25	466.02	11.20	Note 5
MW-18	474.10	11.73	11.72	475.96	5.31	470.65
SCT CO-1	NA	NA	NA	472.30	Dry	465.20
SCT CO-2	NA	NA	NA	473.42	7.71	465.71
SCT CO-3	NA	NA	NA	471.21	Dry	465.61
NCT CO-1	NA	NA	NA	464.70	Dry	453.42
MH-2	NA	12.80	NA	465.31	11.96	453.35

Notes:

1. All values reported in feet.
2. TOR = Top of Riser.
3. Depth measurements are taken in hundredths of a foot from the TOR, which is a reference point at the highest part on the 2-inch riser pipe.
4. Elevations are referenced to sea level, as set by the National Geodetic Vertical Datum (NGVD) of 1988.
5. MW-17 was found dry during both monitoring events, bottom elevation = 454.70 feet.
6. The top of riser elevation was adjusted during maintenance on May 15, 2003 for monitoring wells MW-6R and MW-14.
7. MW = Monitoring Well.
8. SCT = Southern Collection Trench.
9. NCT = Northern Collection Trench.
10. CO = Clean Out (Depths and Elevations are Approximate).
11. MH = Manhole.
12. NA = Not Applicable.
13. NM = Not measured. Installed well depths used to calculate well casing columns.
14. Groundwater elevations were inferred at the following locations: SCT CO-1, SCT CO-2, SCT CO-3, and NCT CO-1.

TABLE 4-2
CUMULATIVE GROUNDWATER ELEVATIONS

2011 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Sample Date	Well ID					
	MW-3	MW-6R	MW-13A	MW-14	MW-17	MW-18
3/26/1999	467.93	461.78	465.83	474.82	462.14	469.97
9/20/1999	467.60	461.14	464.36	470.78	460.70	467.83
3/14/2000	467.72	461.63	466.38	475.05	459.45	470.03
9/14/2000	467.42	461.15	464.98	473.72	457.37	468.83
3/29/2001	470.86	456.35	460.93	467.74	457.24	469.52
9/13/2001	Note 2	460.85	464.18	470.9	457.11	469.56
3/27/2002	Note 2	460.96	466.89	475.19	DRY	470.82
9/19/2002	Note 2	461.21	465.41	470.92	DRY	468.10
4/24/2003	Note 2	461.55	466.81	475.24	DRY	472.13
10/22/2003	Note 2	460.97	465.23	474.66	DRY	469.61
4/22/2004	Note 2	461.59	466.67	475.34	DRY	471.25
10/18/2004	Note 2	461.03	465.01	472.53	DRY	468.93
4/27/2005	Note 2	461.54	466.51	475.13	DRY	471.06
10/20/2005	Note 2	461.15	465.17	474.47	DRY	469.66
4/19/2006	Note 2	461.4	466.16	474.66	DRY	470.40
9/26/2006	Note 2	461.01	465.07	472.46	DRY	469.15
4/18/2007	Note 2	461.78	467.09	475.46	DRY	471.24
10/23/2007	Note 2	461.71	465.17	471.42	DRY	469.25
4/29/2008	Note 2	461.87	466.82	475.5	DRY	470.84
10/14/2008	Note 2	460.98	464.98	472.94	DRY	469.64
4/13/2009	Note 2	461.44	466.67	474.89	DRY	470.84
10/15/2009	Note 2	461.2	465.58	473.8	DRY	470.14
4/29/2010	Note 2	461.12	466.38	474.2	DRY	470.15
10/28/2010	Note 2	461.44	466.04	475.62	DRY	471.51
4/26/2011	Note 2	461.22	466.01	475.3	DRY	470.27
10/25/2011	Note 2	461.32	466.12	475.28	DRY	470.65

Notes:

1. All elevations reported in feet above mean sea level.
2. MW-3 was decommissioned in September 2001.
3. MW-17 has been "Dry" since the installation of Pumping MH-2 in March 2002.

TABLE 4-3
GROUNDWATER CONSTITUENTS, METHODS AND PRACTICAL QUANTIFICATION LIMITS

2011 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Constituent	Practical Quantification Limits (PQLs)
VOCs of Concern - USEPA Method 8260	
cis-1,2-Dichloroethene	1
trans-1,2-Dichloroethene	1
Trichloroethylene	1
Vinyl Chloride	1
Metals of Concern - USEPA Method 200.7	
Chromium	10
Copper	10
Lead	10
Zinc	10
PCBs - USEPA Method 608	
Aroclor 1016	0.05
Aroclor 1221	0.05
Aroclor 1232	0.05
Aroclor 1242	0.05
Aroclor 1248	0.05
Aroclor 1254	0.05
Aroclor 1260	0.05

Notes:

1. All values reported in micrograms per liter (ug/l), approximately equivalent to parts per billion (ppb).
2. VOCs = Volatile Organic Compounds.
3. PCBs = Polychlorinated biphenyls.
4. VOCs of concern PQLs are based on USEPA SW-846 Method 8260 contract required quantification limits (CRQLs). Specific quantifications are highly matrix dependent. The quantification limits shown are provided for guidance and may not always be achievable.
5. USEPA Method 200.7 will be used for analysis of metals of concern. PQLs presented are based on RCRA TCL CRQLs. CQRLs shown for metals of concern are provided for guidance and may not always be achievable.

TABLE 4-4
2011 GROUNDWATER ANALYTICAL RESULTS

2011 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

April 2011 Sampling Event

Well ID	Detection Limit	Standards and Guidance Values	MW-6R	MW-13A	MW-14	MW-17	MW-18	042811-DUP
Date Sampled			4/28/2011	4/28/2011	4/28/2011	4/28/2011	4/28/2011	4/28/2011
Sample Type			Primary	Primary	Primary	Primary	Primary	Duplicate of MW-18
Volatile Organic Compounds								
cis-1,2-Dichloroethene	1	5	<1	<1	<1	NS	<1	<1
trans-1,2-Dichloroethene	1	5	<1	<1	<1	NS	<1	<1
Trichloroethylene	1	5	<1	<1	0.48 J B	NS	<1	<1
Vinyl Chloride	1	2	<1	<1	<1	NS	1.1	1.1
Metals								
Chromium	10	50	<10	<10	1.2 J	NS	<10	<10
Copper	10	200	<10	<10	4.9 J	NS	<10	3.3 J
Lead	10	25	<10	<10	<5	NS	<10	<10
Zinc	10	2,000	<20	<20	9.1 J	NS	<20	<20
Polychlorinated Biphenyls								
Aroclor 1016	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1221	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1232	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1242	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1248	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1254	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1260	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05

October 2011 Sampling Event

Well ID	Detection Limit	Standards and Guidance Values	MW-6R	MW-13A	MW-14	MW-17	MW-18	102511-DUP
Date Sampled			10/25/2011	10/25/2011	10/25/2011	10/25/2011	10/25/2011	10/25/2011
Sample Type			Primary	Primary	Primary	Primary	Primary	Duplicate of MW-18
Volatile Organic Compounds								
cis-1,2-Dichloroethene	1	5	<1	<1	<1	NS	<1	<1
trans-1,2-Dichloroethene	1	5	<1	<1	<1	NS	<1	<1
Trichloroethylene	1	5	<1	<1	<1	NS	<1	<1
Vinyl Chloride	1	2	<1	<1	<1	NS	**22.0**	**22**
Metals								
Chromium	10	50	2.4 J	1.0 J	1.3	NS	<4	<4
Copper	10	200	3.9 J	<10	2.2 J	NS	<10	<10
Lead	10	25	<5	<5	<5	NS	<5	<5
Zinc	10	2,000	9.5 J	4.0 J	4.7 J	NS	2.2 J	2.8 J
Polychlorinated Biphenyls								
Aroclor 1016	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1221	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1232	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1242	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1248	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1254	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05
Aroclor 1260	0.05	0.09	<0.05	<0.05	<0.05	NS	<0.05	<0.05

Notes:
1. Sample results and NYSDEC Standards reported in ug/l; approximately equivalent to parts per billion (ppb).
2. Guidance Values are established by NYSDEC Division of Water Technical and Operational Guidance Series (TOGS 1.1.1).
3. NS = Not Sampled (Well Dry).
4. Bolded values exceed the constituent's established Standards and Guidance Values.

TABLE 4-5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS

2011 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Monitoring Well ID	Parameters	Units	NYSDEC Guidance	1999		2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
				March	September	March	September	March	September	March	September	April	October	April	October	April	October	April	September	April	October	April	October	April	October	April	October	April	October
				Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
MW-3	cis-1,2-Dichloroethene	ug/l	5	<5	<5	<5	<5	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1
MW-3	trans-1,2-Dichloroethene	ug/l	5	<5	<5	<5	<5	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1
MW-3	Trichloroethylene	ug/l	5	<5	<5	<5	<5	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1
MW-3	Vinyl Chloride	ug/l	2	<5	<5	<5	<5	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1
MW-3	Chromium	ug/l	50	4.4	4.6B	<10	<10	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1
MW-3	Copper	ug/l	200	16.8	6.1B	<10	<10	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1
MW-3	Lead	ug/l	25	5.5	4	<5	<5	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1
MW-3	Zinc	ug/l	2,000	15.1	16.1B	13	38	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1
MW-3	PCBs (Aroclor 1016)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1
MW-3	PCBs (Aroclor 1221)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1
MW-3	PCBs (Aroclor 1232)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1
MW-3	PCBs (Aroclor 1242)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1
MW-3	PCBs (Aroclor 1248)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1
MW-3	PCBs (Aroclor 1254)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1
MW-3	PCBs (Aroclor 1260)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1	NS-1
MW-6R	cis-1,2-Dichloroethene	ug/l	5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-6R	trans-1,2-Dichloroethene	ug/l	5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-6R	Trichloroethylene	ug/l	5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-6R	Vinyl Chloride	ug/l	2	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-6R	Chromium	ug/l	50	19.9	2.2B	<10	<10	<10	23	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	16	12	<10	<10	5	<10	2.4 J
MW-6R	Copper	ug/l	200	45	6.7B	<10	<10	<10	58	11	<10	34	17	<10	<10	10	<10	<10	<10	<10	<10	<10	<10	36	<10	<10	9.7	<10	3.9 J
MW-6R	Lead	ug/l	25	7.4	3.6	<5	<5	<5	23	<10	<10	14	13	<10	<10	<10	<10	<10	<10	13	<10	<10	11	24	<10	<10	5.7	<10	<5
MW-6R	Zinc	ug/l	2,000	49.5	26.5	26.0	47	19	140	64	29	100	24	<10	19	12	13	37	<10	<10	<10	20	11	80	27	<20	17.9	<20	9.5 J
MW-6R	PCBs (Aroclor 1016)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-6R	PCBs (Aroclor 1221)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-6R	PCBs (Aroclor 1232)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-6R	PCBs (Aroclor 1242)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-6R	PCBs (Aroclor 1248)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-6R	PCBs (Aroclor 1254)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-6R	PCBs (Aroclor 1260)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-13A	cis-1,2-Dichloroethene	ug/l	5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-13A	trans-1,2-Dichloroethene	ug/l	5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-13A	Trichloroethylene	ug/l	5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-13A	Vinyl Chloride	ug/l	2	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-13A	Chromium	ug/l	50	7.8B	4.8E	19.0	<10	<10	<10	<10	**200**	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	11	<10	<10	11.8	<10	1.0 J
MW-13A	Copper	ug/l	200	45	5.3B	<10	<10	<10	<10	14	20	<10	14	<10	<10	14	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	9.7	<10	<10
MW-13A	Lead	ug/l	25	9.2	2.3	<5	<5	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	13	<10	<10	<10	<10	<10	<10	5.7	<10	<5
MW-13A	Zinc	ug/l	2,000	38.1	10.7B	29.0	47	10	<10	18	92	<10	19	29	12	20	<10	14	11	24	<10	19	12	26	<10	<20	20.7	<20	4.0 J
MW-13A	PCBs (Aroclor 1016)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-13A	PCBs (Aroclor 1221)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-13A	PCBs (Aroclor 1232)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-13A	PCBs (Aroclor 1242)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-13A	PCBs (Aroclor 1248)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-13A	PCBs (Aroclor 1254)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-13A	PCBs (Aroclor 1260)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05

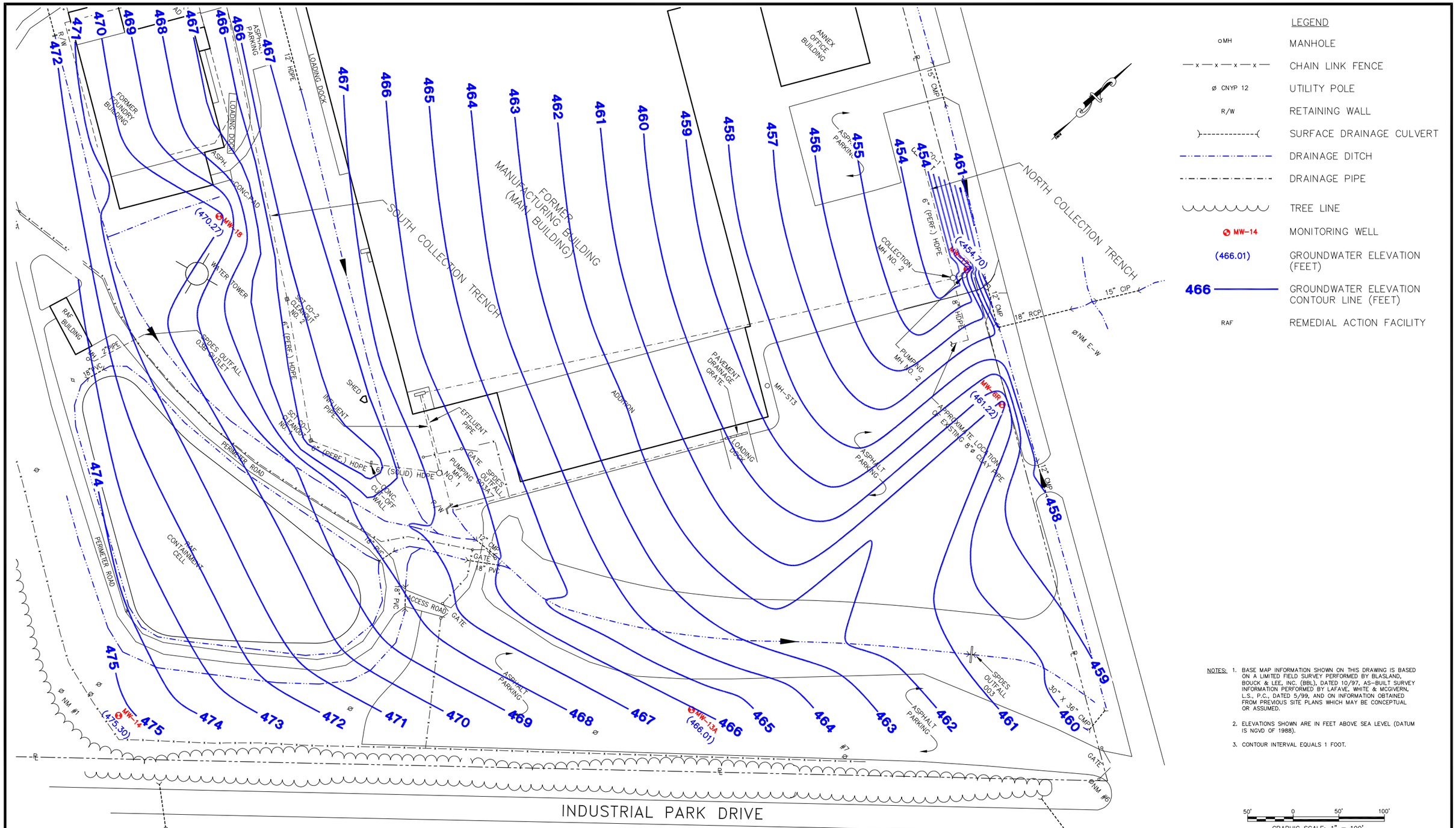
TABLE 4-5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS

2011 PERIODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Monitoring Well ID	Parameters	Units	NYSDEC Guidance	1999		2000		2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
				March	September	March	September	March	September	March	September	April	October	April	October	April	October	April	September	April	October	April	October	April	October	April	October	April	October
				Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
MW-14	cis-1,2-Dichloroethene	ug/l	5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-14	trans-1,2-Dichloroethene	ug/l	5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-14	Trichloroethylene	ug/l	5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.48 J	<1
MW-14	Vinyl Chloride	ug/l	2	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-14	Chromium	ug/l	50	20.4	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1.8	1.2 J	1.8
MW-14	Copper	ug/l	200	48	6B	<10	<10	<10	<10	<10	<10	<10	27	12	<10	16	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	5.3	4.9 J	5.3
MW-14	Lead	ug/l	25	8	<5	<5	<5	<5	<10	<10	<10	<10	10	<10	<10	13	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<5	<5	<5
MW-14	Zinc	ug/l	2,000	36	6.5B	28	42	15	<10	<10	20	29	100	17	<10	15	<10	<10	<10	<10	<10	21	14	16	<10	<20	5.8	9.1 J	5.8
MW-14	PCBs (Aroclor 1016)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-14	PCBs (Aroclor 1221)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-14	PCBs (Aroclor 1232)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-14	PCBs (Aroclor 1242)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-14	PCBs (Aroclor 1248)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-14	PCBs (Aroclor 1254)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-14	PCBs (Aroclor 1260)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-17	cis-1,2-Dichloroethene	ug/l	5	<5	**7**	<5	**5.2**	**8.9**	**7.4**	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	trans-1,2-Dichloroethene	ug/l	5	<5	<5	<5	<5	<5	<5	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	Trichloroethylene	ug/l	5	<5	**25**	**22**	**22**	**24**	**16**	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	Vinyl Chloride	ug/l	2	<2	<2	<5	<5	<2	<2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	Chromium	ug/l	50	4	21B	<10	<10	<10	<10	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	Copper	ug/l	200	16B	<10	<10	<10	<10	<10	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	Lead	ug/l	25	2.4B	<5	<5	<5	<5	<10	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	Zinc	ug/l	2,000	14.6B	7.1B	13	57	32	<10	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	PCBs (Aroclor 1016)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	PCBs (Aroclor 1221)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	PCBs (Aroclor 1232)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	PCBs (Aroclor 1242)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	PCBs (Aroclor 1248)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	PCBs (Aroclor 1254)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-17	PCBs (Aroclor 1260)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2	NS-2
MW-18	cis-1,2-Dichloroethene	ug/l	5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-18	trans-1,2-Dichloroethene	ug/l	5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-18	Trichloroethylene	ug/l	5	<5	<5	<5	<5	<5	<5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
MW-18	Vinyl Chloride	ug/l	2	<2	<2	<5	<5	<2	<5	<2	**2.6**	**3.9**	**6.1**	**3.5**	**7**	**5.6**	**7.1**	**9.9**	**15**	**7.5**	**17**	**15**	**34**	**15**	**16**	**20**	**3.5**	1.1	**22.0**
MW-18	Chromium	ug/l	50	**60.1**	19.4	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	16	<10	<10	1.5	<10	<4
MW-18	Copper	ug/l	200	109	7.6B	<10	<10	<10	<10	<10	<10	<10	11	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	15	<10	<10	8.4	<10	<10
MW-18	Lead	ug/l	25	**35.6**	9.3	<5	<5	<5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	14	<10	<10	<10	15	<10	<10	<5	<10	<5
MW-18	Zinc	ug/l	2,000	172	51	16	58	21	22	<10	<10	11	17	18	<10	13	<10	63	<10	<10	<10	24	26	42	<10	<20	2.4	<20	2.2 J
MW-18	PCBs (Aroclor 1016)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-18	PCBs (Aroclor 1221)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-18	PCBs (Aroclor 1232)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-18	PCBs (Aroclor 1242)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-18	PCBs (Aroclor 1248)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-18	PCBs (Aroclor 1254)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05
MW-18	PCBs (Aroclor 1260)	ug/l	0.09	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.05	<0.05	<0.05	<0.05

Notes:
1. All results reported in micrograms per liter (ug/l) approximately equivalent to parts per billion (ppb).
2. B = The reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
3. C = Value was reported as a laboratory cross-contaminant.
4. E = The reported value is estimated due to the presence of interference(s).
5. NS-1 = No Sample - Well Decommissioned.
6. NS-2 = No Sample - Well Dry.
7. Bolded values exceed the constituent's established TOGS 1.1.1 guidance values.

4.7 Figures



NOTES:

1. BASE MAP INFORMATION SHOWN ON THIS DRAWING IS BASED ON A LIMITED FIELD SURVEY PERFORMED BY BLASLAND, BOUCK & LEE, INC. (BBL), DATED 10/97, AS-BUILT SURVEY INFORMATION PERFORMED BY LAFAVE, WHITE & MCGIVERN, L.S., P.C., DATED 5/99, AND ON INFORMATION OBTAINED FROM PREVIOUS SITE PLANS WHICH MAY BE CONCEPTUAL OR ASSUMED.
2. ELEVATIONS SHOWN ARE IN FEET ABOVE SEA LEVEL (DATUM IS NGVD OF 1988).
3. CONTOUR INTERVAL EQUALS 1 FOOT.

X: CP-BASE
P: BL
9/12/12
SYNAPSE/WP/DANA 01-11/2011 SMP/DANAB01.DWG

synapse

SYNAPSE RISK MANAGEMENT, LLC
360 ERIE BLVD. EAST
SYRACUSE, NEW YORK 13202

2011 PERIODIC REVIEW REPORT

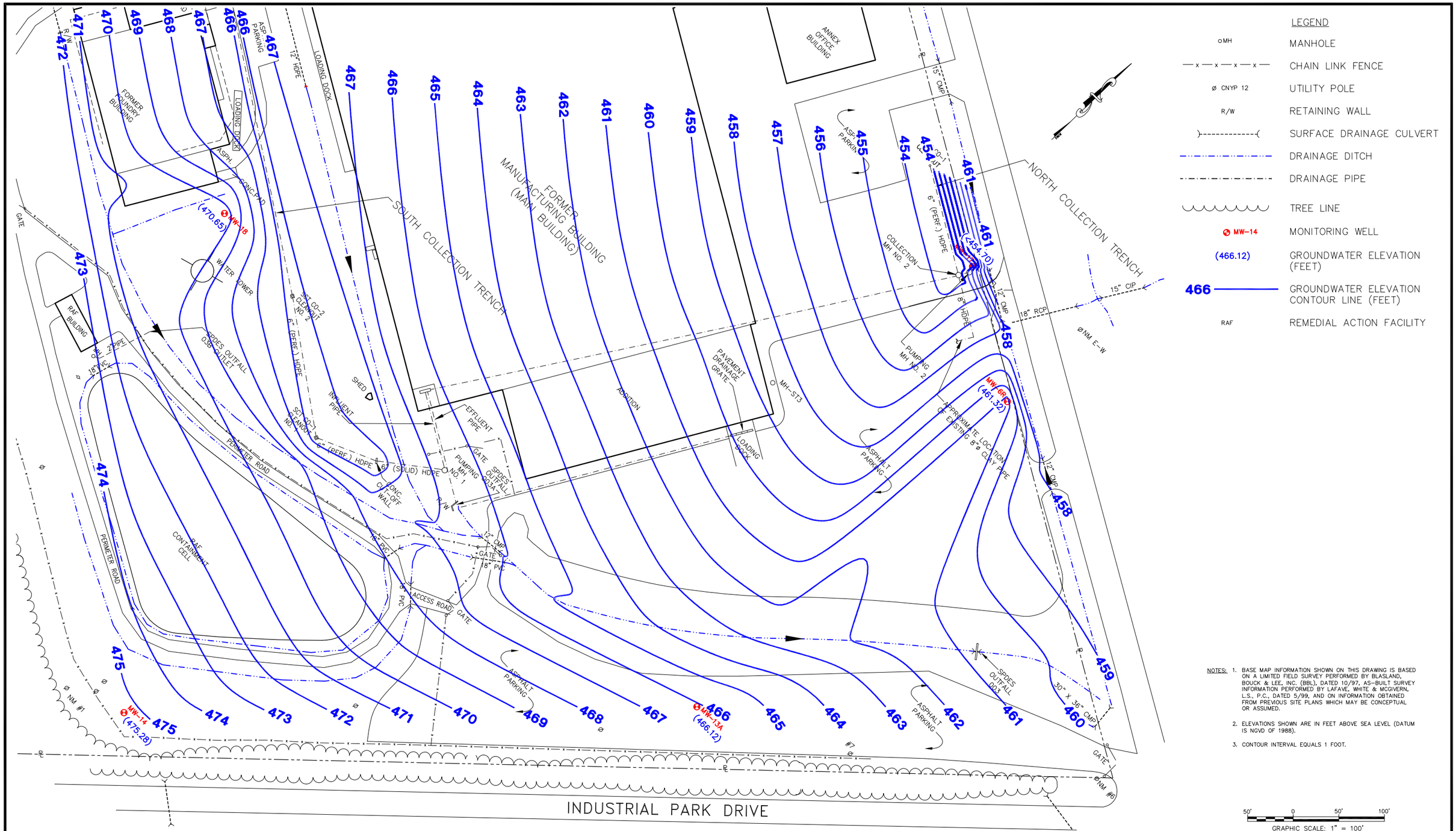
2200 BLEECKER STREET
UTICA, NEW YORK

OVERBURDEN GROUNDWATER ELEVATION CONTOUR MAP APRIL 26, 2011

PROJECT NO.: DANA 01-11

DATE: SEPT. 2012

FIGURE NO.: 4-1



NOTES:
1. BASE MAP INFORMATION SHOWN ON THIS DRAWING IS BASED ON A LIMITED FIELD SURVEY PERFORMED BY BLASLAND, BOUCK & LEE, INC. (BBL), DATED 10/97, AS-BUILT SURVEY INFORMATION PERFORMED BY LAFAVE, WHITE & MCGIVERN, L.S., P.C., DATED 5/99, AND ON INFORMATION OBTAINED FROM PREVIOUS SITE PLANS WHICH MAY BE CONCEPTUAL OR ASSUMED.
2. ELEVATIONS SHOWN ARE IN FEET ABOVE SEA LEVEL (DATUM IS NGVD OF 1988).
3. CONTOUR INTERVAL EQUALS 1 FOOT.

50' 0 50' 100'
GRAPHIC SCALE: 1" = 100'

X: CP-BASE
P: BL
9/12/12
SYNAPSE/WIP/DANA 01-11/2011 SMP/DANAB02.DWG

synapse
SYNAPSE RISK MANAGEMENT, LLC
360 ERIE BLVD. EAST
SYRACUSE, NEW YORK 13202

2011 PERIODIC REVIEW REPORT
2200 BLEECKER STREET
UTICA, NEW YORK

OVERBURDEN GROUNDWATER ELEVATION CONTOUR MAP OCTOBER 25, 2011

PROJECT NO.: DANA 01-11
DATE: SEPT. 2012
FIGURE NO.: 4-2

5.0 SITE MANAGEMENT - STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM

UHC was issued a SPDES permit (No. NY0257087) for the Property on September 1, 2002, with two subsequent modifications issued by NYSDEC, dated August 1, 2003, and November 20, 2003. On behalf of UHC, Synapse has been tasked to administer the scheduled technical and reporting requirements set forth in the SPDES Permit. The SPDES Permit was administratively renewed on September 18, 2007, however without the requested modifications to Outfall 001, 002 and 003.

In March 2009 UHC received a SPDES Permit modification that created Outfall 03B, approving liquids generated from the containment cell to accumulate in the leachate collection manhole, and no longer be directed to the 5,000-gallon aboveground storage tank. The collection manhole leachate was visually observed during scheduled monthly RAF inspections and maintenance. The controls are operated by hand to transfer leachate from the collection manhole to Outfall 03B. Additionally, liquid levels are monitored utilizing one of the existing eight programmed ISACC (auto dialer system) channels. The ISACC channel is programmed to provide telephone notification to Synapse when 90% full conditions are identified in the leachate collection manhole. Based on volume of the leachate collection manhole and the current average liquid generation rate of 6.9 gpd, three batches were discharged, metered at 880, 820 and 800 gallons, from the collection manhole to Outfall 03B during 2011 (See Table 3-1).

The SPDES Permit is specific to activities conducted at the Property, including the 2200 Bleecker-owned Main Building, and permits the discharge stormwater and leachate from four outfalls as depicted in Figure 5-1 – SPDES Outfall 001 Manhole Plan and Section, Figure 5-2 – SPDES Outfall 002 Manhole Plan and Section, Figure 5-3 – SPDES Outfall 003 Plan and Section, and Figure 5-4 – SPDES Outfall 03B Plan. UHC however has no control of 2200 Bleecker activities, nor that of its tenants. A significant portion approximately (85%) of the total flow monitored by UHC at the permitted Outfalls 001, 002 and 003 is from contribution associated with the operations of 2200 Bleecker, its tenants, and CPTC's Outfall 03A permitted under SPDES Permit No. NY0108537 (see Section 6.4). The following section reviews Outfall contributions, construction, routine monitoring, analytical results, specialized studies and testing, as well as, unscheduled maintenance.

As a result of a civil litigation pending in Herkimer County Supreme Court and following an Order of Civil Contempt entered against Coolidge Utica LLC, Coolidge Utica LLC was judicially required to submit an application to NYSDEC for a SPDES permit authorizing discharges by Coolidge Utica LLC and its tenants. Coolidge Utica LLC did submit a SPDES permit application to NYSDEC on or about March 2006, which was determined incomplete by NYSDEC. According to public records, the main building and other improvements at 2200 Bleecker Street were conveyed by deed dated October 12, 2009 to 2200 Bleecker Street, LLC. On or about December of 2009, 2200 Bleecker Street, LLC submitted an application to NYSDEC for a SPDES permit authorizing discharges from the facility by 2200 Bleecker Street and its tenants. NYSDEC reportedly issued a notice of complete application to 2200 Bleecker Street, LLC's in 2010 and, upon information and belief, remains pending.

5.1 Outfall Contributions

Water contributions that discharge via the three permitted SPDES outfalls are as follows:

Outfall 001

UHC Contribution

- Parking lot catch basin (overland flow).

2200 Bleecker Contributions

- Building roof leaders;
- Sprinkler system drains (periodic); and
- Air conditioning condensate (during warm weather).

Outfall 002

UHC Contribution

- Parking lot catch basins (overland flow).

2200 Bleecker Contributions

- Building roof leaders; and
- Air conditioning condensate (during warm weather).

Outfall 003

UHC Contributions

- Stormwater from overland flow, including that from the RAF;
- Effluent from the containment cell discharged to via Outfall 03B (SPDES Permit No. NY-0257087); and
- Parking lots.

2200 Bleecker Contributions

- Building roof leaders;
- Sprinkler system drains (periodic); and
- Air conditioning condensate (during warm weather).

CPTC Contribution

- Post treated effluent from the GTS via Outfall 03A (SPDES Permit No. NY0108537).

Figure 5-5 – Stormwater System Partial Plan, depicts the numerous source points and areas, particularly from the Main Building, that contribute water to each outfall.

5.2 Outfall Construction

The four SPDES outfalls were located and constructed to facilitate collection of effluent samples and flow measurements representative of actual discharge conditions at the Property. The construction of each outfall is provided below.

Outfall 001

Construction activities for the Outfall 001 monitoring location were conducted between April 16 and April 26, 2002, and incorporated the following:

- Pavement and soil was excavated to install Outfall 001 Manhole at an area in the western parking lot where an existing drainage pipes, a 24-inch corrugated metal pipe (CMP) and a 24-inch vitrified clay pipe (VCP) intersected, approximately 5 feet below ground surface (bgs);

- A prefabricated 5-foot diameter cast concrete manhole base, with influent and effluent pipe penetrations, was placed in line with the existing subsurface drainage pipes and grouted;

- An 8-inch thick concrete cover, with a cast iron access cover, was installed to complete the manhole structure, followed by engineered fill and paving;

- A stainless steel, sharp edged, 120-degree, V-notch weir was installed at the effluent side of the manhole. The weir was fastened to the floor and sidewalls of the manhole utilizing concrete fasteners and sealed with grout;

- A 2-inch diameter, schedule 80, PVC flow measurement port was affixed adjacent to the weir, and calibrated to allow measurements of effluent flow rates based on the water level flowing over the weir; and

- A NYSDEC-approved sign was posted at the actual outfall outlet.

A detailed drawing of SPDES Outfall 001 Manhole is presented on Figure 5-1. Ultimately, the water is discharged further west of the monitoring point, into the unnamed creek.

Outfall 002

The Outfall 002 monitoring location was constructed from an existing 10.5-foot deep, 4- foot diameter red brick manhole near the northwestern corner of the Main Building. A 24-inch VCP, that is the part of the northern stormwater system, is sectioned by this manhole. As such, effluent flowing through the manhole was accessible and measurable upon application of the following upgrades:

- A stainless steel sharp edge, 120-degree, V-notch weir was installed adjacent to the effluent 24-inch VCP, at the bottom of the manhole. The weir was fastened to the floor and sidewalls of the manhole utilizing concrete fasteners and sealed with grout;

- A 2-inch diameter, schedule 80, PVC flow measurement port was affixed adjacent to the weir, and effluent flow rates were calibrated based on the water level flowing over the weir; and

- A NYSDEC-approved sign was posted on the bank, adjacent to the actual outfall outlet.

A detailed drawing of SPDES Outfall 002 Manhole is presented on Figure 5-2. Ultimately, the water is discharged further west of the monitoring point, into the unnamed creek.

Outfall 003

The Outfall 003 discharge location was constructed in an existing unnamed tributary to the Mohawk River, at the northeastern extent of the Property as follows:

- A 12-inch HDPE pipe was installed within a concrete headwall spanning the width of the tributary allowing surface water to flow through the pipe. Samples are collected and parameters measured directly from the effluent end of the 12-inch HDPE pipe;

- A monitoring port was installed adjacent to the concrete headwall to facilitate flow measurement data collection representative of actual discharge conditions. The monitoring port was constructed by installing a horizontal 2-inch PVC pipe at a measured elevation adjacent to the influent side of the headwall. This horizontal pipe connects (via a 90 degree elbow) to a vertical riser extending several feet above grade adjacent to the tributary. The water level of the tributary, and thus the flow rate, can be measured from this monitoring port; and

- A NYSDEC-approved sign was posted on the bank adjacent to the outfall outlet.

A detailed drawing of SPDES Outfall 003 is presented on Figure 5-3.

Outfall 03B

The Outfall 03B discharge location was constructed April 2009 in an existing unnamed tributary to the Mohawk River (former Area 6 drainage ditch), at the eastern portion of the Property as follows:

- A 2-inch diameter PVC pipe extends upward from each pump, passing through a check valve, an elbow, and a ball valve prior to joining the other pump at a tee. A 90 degree elbow was installed above the tee and connected to the flow meter with union connections on the influent and effluent end of the flow meter. The effluent end of the flow meter was connected to the 2-inch diameter poly pipe via a barbed connection. The ball valve is a union connection, facilitates pump removal, flow meter removal and plumbing repair, if required. The piping is inspected on a monthly basis during the scheduled RAF inspection from the surface through the access door; and

- The 2-inch diameter poly pipe emerges at the top of the slope of drainage ditch 6 where pipe transitions form 2-inch poly to 4-inch Polyvinyl Chloride (PVC). The 4-inch PVC pipe was affixed at the end with a metal screen to prevent access to vectors. At the point of discharge rip-rap has been placed as an energy dissipation device and adjacent to the point of discharge is the (18" x 24") green back sign with Outfall 03B's information.

A detailed drawing of SPDES Outfall 03B is presented on Figure 5-4.

5.3 Monitoring

A primary regulatory requirement of the Property SPDES permit is to monitor concentrations of select constituents and physical parameters in the outfall effluent. A schedule of routine monitoring of effluent from Outfalls 001, 002, 003, and 03B have been set forth by NYSDEC, as discussed in Section 5.3.1 and 5.3.4, respectively. In addition, two non-routine monitoring/sampling programs have been prescribed for by NYSDEC, to include, PCB Congeners and Acute Toxicity, as discussed in Sections 5.3.2 and 5.3.3, respectively.

5.3.1 Routine Monitoring

August and November 2003 modifications to the Permit resulted in minor changes to the monitoring parameters and/or their scheduled monitoring frequencies. The current routine monitoring parameters and sampling frequencies, as prescribed for each outfall, are summarized in the following table:

Parameter	Units	Monitoring Frequency		
		Outfall 001	Outfall 002	Outfall 003
pH	S.U.	Once/2 weeks	Once/2 weeks	Once/2 weeks
Flow (in-situ measurement)	gpd	Once/2 weeks	Once/2 weeks	Once/2 weeks
Temperature	^{0}F	Once/2 weeks	Once/2 weeks	Once/2 weeks
Oil & Grease	mg/l	Monthly	Monthly	Monthly
Total Suspended Solids (TSS)	mg/l	Once/2 weeks	Once/2 weeks	Once/2 weeks
Total Residual Chloride	ug/l	NR	NR	Once/2 weeks
Phenolics	ug/l	Monthly	Monthly	Monthly
Antimony	ug/l	Quarterly	NR	NR
Chromium	ug/l	Semi-Annual	NR	NR
Copper	ug/l	Once/2 weeks	NR	NR
Fluoride	ug/l	Semi-Annual	Semi-Annual	NR
Lead	ug/l	Semi-Annual	NR	Semi-Annual
Zinc	ug/l	Semi-Annual	NR	Semi-Annual
Chloroform	ug/l	Once/2 weeks	NR	Once/2 weeks
cis 1,2-dichloroethylene	ug/l	Once/2 weeks	NR	Once/2 weeks

trans 1,2- dichloroethylene	ug/l	Once/2 weeks	NR	Once/2 weeks
Trichloroethylene	ug/l	Once/2 weeks	NR	Once/2 weeks
Vinyl chloride	ug/l	NR	NR	Once/2 weeks
PCBs	ng/l	NR	NR	Quarterly

Table notes:

S.U. = Standard Units
^{0}F = Degrees Fahrenheit
mg/l = milligrams per liter
ug/l = micrograms per liter
ng/l = nanograms per liter
NR = Not Required

Analytical data and real-time measurements obtained from the 2011 routine monitoring events are summarized in Table 5-1 – Cumulative Summary of SPDES Monitoring Results. This data was also reduced and reported in monthly DMRs for submittal to NYSDEC. Results from routine monitoring events were compared to effluent compliance levels set in the Permit. DMRs were submitted to the NYSDEC Region 6, Division of Water representative, Richard Coriale, P.E., on a monthly basis. There was one excursion of compliance levels for the above parameters in 2011 as follows.

- Total Suspended Solids (TSS) was identified at Outfall 001 at a concentration of 134 milligrams per liter (mg/l) during the February 18, 2011 sampling event, exceeding the permit effluent limits of 100 mg/l. Mr. Richard Coriale of the New York State Department of Environmental Conservation was notified of this excursion on March 2, 2011 and a Report of Noncompliance Event was prepared and submitted to NYSDEC.

During a subsequent bi-weekly SPDES sampling event Outfall 001 the TSS concentrations returned to permit compliance levels. Operations conducted at the Property by 2200 Bleecker and its tenants, which UHC has no control over, have the potential to directly impact the effluent water quality monitored by UHC at its permitted outfalls. Therefore, the source of the TSS identified at the outfalls may be related to contributions from the 2200 Bleecker Main Building. It is our understanding that 2200 Bleecker, LLC has prepared and submitted a SPDES Permit application to NYSDEC for its operations and those of its tenants.

5.3.2 EPA Method 1668A PCB Study

Pursuant to the August 2003 SPDES Permit Modification, a three-year study of PCB congeners was required and previously completed at Outfall 003. Using USEPA Method 1668A, sampling and analysis of 209 PCB congeners was conducted at Outfall 003 on a quarterly basis between 2002 and 2005. There are no current or proposed regulatory requirements associated with this study.

5.3.3 Acute Toxicity Testing

As a *Special Condition* of the Permit, a Tier 1 effluent toxicity monitoring program is required to identify acute toxicity of effluent from each of the outfalls utilizing fresh water vertebrate and invertebrate species as follows:

- Outfall 001 – Effluent toxicity sampling of Outfall 001 is required quarterly during calendar years ending in [3] and [8];
- Outfall 002 – Effluent toxicity sampling of Outfall 002 is required quarterly during calendar years ending in [3] and [8]; and
- Outfall 003 – Effluent toxicity sampling of Outfall 003 is required quarterly during calendar years ending in [5] and [0].

According to the above Permit-specified schedule, effluent toxicity sampling was not required to be conducted at any of the Outfalls during the 2011 calendar year.

5.3.4 Outfall 03B

The March 2010 modifications to the Permit resulted in the addition of Outfall 03B that authorized the discharge of water generated from the containment cell to be discharged to a Property drainage ditch. The current routine monitoring parameters, sampling frequencies, analytical results and the discharges occurring during 2011, as prescribed for Outfall 03B, are summarized in the following table:

Parameter	Units	Limits	3/4/2011	6/24/2011	8/19/2011	11/29/2011
Flow Rate	gpd	8.2	6.9	6.9	6.9	6.9
Temperature	^{0}F	90	59	63	61	62
pH	S.U.	6.0-9.0	7.5	7.3	7.1	7.3
Total Suspended Solids	mg/l	10	7	No Discharge	5	<4
Oil & Grease	mg/l	15	<5	No Discharge	<5	<5
Copper, Total	ug/	500	25	No Discharge	17	5
Nickel, Total	ug/	2000	7	No Discharge	6	7
Zinc, Total	ug/	120	73	No Discharge	70	45
Lead, Total	ug/	10	<5	No Discharge	<5	<5
Bis-(2-ethylhexyl) phthalate	ug/	10	<10	No Discharge	<10	<10
Methoxychlor	ug/	18	<0.05	No Discharge	<.05	<0.05

Table notes:

S.U. = Standard Units8.2
^{0}F = Degrees Fahrenheit
mg/l = milligrams per liter
ug/l = micrograms per liter

5.4 Summary

UHC was issued the SPDES permit for Outfalls 001, 002, and 003 on September 1, 2002. During 2003, NYSDEC issued two modifications to the SPDES Permit. On behalf of UHC, Synapse has been conducting the technical and reporting requirements set forth in the SPDES Permit. In March 2010 UHC received approval of the requested SPDES Permit modification from NYSDEC that facilitated the construction of Outfall 03B.

There was one excursion of the compliance level for TSS, identified in Outfall 001 in February 2011. The New York State Department of Environmental Conservation was notified of the excursions and a Report of Noncompliance Event was prepared and submitted with the monthly DMR. During a subsequent bi-weekly SPDES sampling event Outfall 001 the TSS concentrations returned to permit compliance levels. As set forth in the Permit specified schedule, effluent toxicity sampling was not conducted at any of the Outfalls during 2011.

Operations conducted at the property by 2200 Bleecker and its tenants, which UHC has no control over, have the potential to directly impact the effluent water quality monitored by UHC at its permitted outfalls. Based on the SPDES Stormwater Action Plan (June 2000), Outfalls 001 and 002 receive significant contributions from the 2200 Bleecker Main Building. NYSDEC issued a notice of complete application to 2200 Bleecker in 2010 and, upon information and belief, remains pending. In addition, UHC's SPDES

Outfall 03B receives GTS effluent discharges from CTPC's SPDES Oufall-03A, which UHC has no control over. Based on the results of 2011 SPDES monitoring at the four permitted outfalls Synapse concludes that OM&M Manual does not require updating or modification at this time.

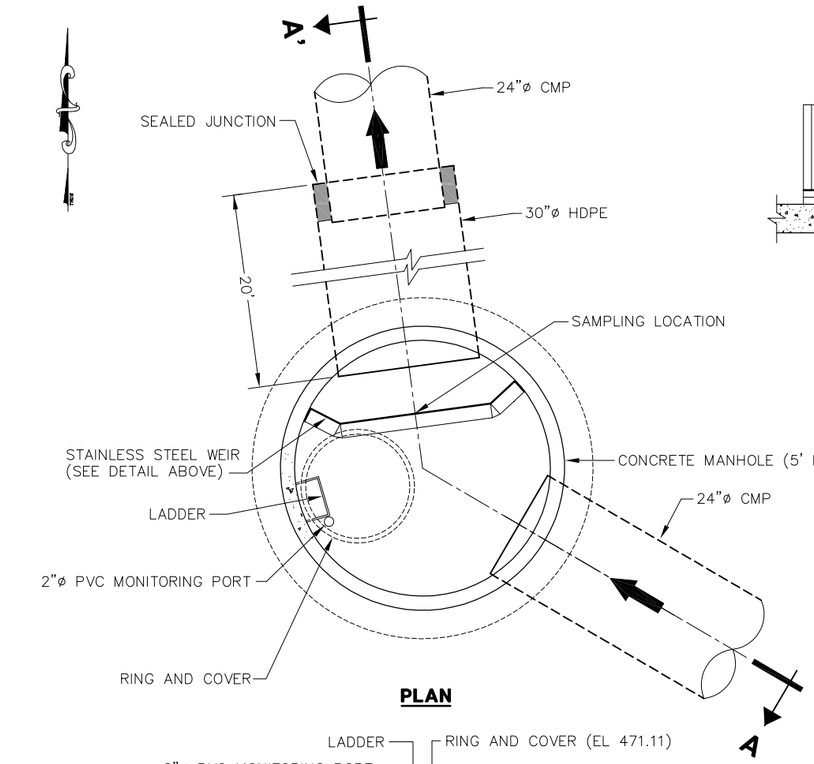
5.5 Tables

TABLE 5-1
2011 SUMMARY OF SPDES MONITORING RESULTS

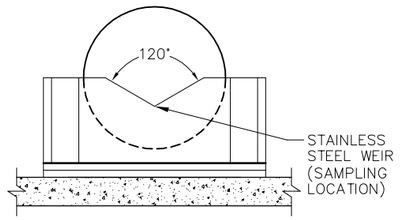
2011 PERODIC REVIEW REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087

Monitoring Period	ECL		January '11		February '11		March '11		April '11			May '11		June '11		July '11		August '11		September '11			October '11		November '11		December '11	
Monitoring Date	Daily Max	Units	1/7/2011	1/21/2011	2/5/2010	2/18/2010	3/4/2011	3/18/2011	4/1/2011	4/15/2011	4/29/2011	5/12/2011	5/27/2011	6/10/2011	6/24/2011	7/8/2011	7/22/2011	8/5/2011	8/19/2011	9/2/2011	9/16/2011	9/26/2011	10/14/2011	10/25/2011	11/11/2011	11/22/2011	12/6/2011	12/21/2011
Sampler ID			rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	bhm	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc
SPDES Outfall 001																												
Flow Rate	Monitor	gpd	3505	2314	9026	0	0	0	3505	2314	152	2314	152	3505	30835	3505	2314	1196	152	152	1196	152	9026	1196	9026	152	9026	19677
Temperature	90	°F	45	44	43	44	42	44	44	48	53	52	58	62	74	67	67	70	71	69	67	68	63	61	51	54	47	47
pH	6.0-9.0	SU	7	7.6	7.6	7.9	7.8	7.6	6.7	7.2	7.2	7.2	7.3	7.1	7.63	7.1	7.1	7.3	7.1	7.1	7.1	7.2	7.1	6.9	7.1	7	7.2	7.1
Solids, Total Suspended	10 (dry)	mg/l	42	11.6	11.6	13.4	21.6	8	28	28	11	10	16	45	4	20.4	33	21	20.8	31	13.6	32	<4	5.2	<4	24.8	<4	65.6
	50 (wet)																											
cis-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	0.96	<1	<1	<1	<1	1	2.6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4.6
trans-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	10	ug/l	<1	<1	<1	0.89	<1	<1	<1	<1	<1	0.63	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper, Total	100	ug/l	2.9	12	9.7	18	6.9	9.3	<10	5	4	5		<10	38	5.7	5.7	14	14	15	7.5	<10	21	12	21	1.7	20	16
Oil & Grease	15	mg/l		<5		3.5		5		<5	3		<5	<5			<5	<5		<5		<5	<5			1.7		2
Phenolics, Total	28	ug/l		<10		<10		<10		<10	<10		<10	<10			<10	<10		<10		5.9	<10			5.1		<10
Antimony, Total	300	ug/l				<20				<20			<20					<10					<20			<20		
Chromium, Total	51	ug/l											9.4					9.4								1.2		
Fluoride, Total	2500	ug/l											210					210								460		
Lead, Total	13	ug/l											3.4					3.4								<5		
Zinc, Total	210	ug/l											41					41								23		
SPDES Outfall 002																												
Flow Rate	Monitor	gpd	2612	1178	2621	0	0	0	1582	1178	101	1582	364	844	20,339	101	1178	208	574	208	1178	101	2314	844	3996	844	4773	20339
Temperature	90	°F	46	49	38	44	46	48	48	49	53	53	56	61	79	65	66	68	68	69	67	69	66	63	52	53	47	44
pH	6.0-9.0	SU	7.5	7.9	7.2	7.9	7.9	7.3	7.2	7.8	7.2	7.3	7.3	7.2	7.81	7.4	7.2	7.2	7.2	7	6.9	7.7	7.2	7.7	7.3	7	7.4	7.1
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	6	<4	<4	<4	<4	<4	<4	<4	<4	<4	4	<4	5.2	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
	50 (wet)																											
Oil & Grease	15	mg/l		<5		<5		4		<5	4		<5	<5			<5	<5		<5			<5			<5		<5
Phenolics, Total	24	ug/l		<10		<10		<10		<10	<10		<10	<10			<10	<10		<10			<10			7.9		<10
Fluoride, Total	1500	ug/l											500					<50								90		
SPDES Outfall 003																												
Flow Rate	Monitor	gpd	43200	37800	43200	100800	50400	43200	43200	27490	43200	20160	20160	33600	302650	86400	10080	7560	10080	46523	27490	12096	60480	30240	25200	30240	60480	151200
Temperature	90	°F	35	37	35	36	35	49	47	60	55	72	71	80	73	71	87	79	78	72	67	71	65	58	48	53	45	41
pH	6.0-9.0	SU	7.9	8	7.4	7.9	7.7	7.9	7.9	7.9	7.7	7.4	7.4	7.5	7.8	7.6	7.5	7.3	7.3	7.4	7.1	7.3	7	7.1	7.3	7.2	7.4	7
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	6.4	46.8	<4	<4	<4	<4	<4	<4	5	7.6	5.2	6.8	<4	<4	4.4	<4	<4	<4	<4	<4	<4	<4	<4
	50 (wet)																											
Chlorine, Total Residual	100	ug/l	45	45	40	50	45	55	45	50	50	45	40	45	54	40	60	70	45	40	50	45	45	40	40	45	50	45
cis-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	2.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Oil & Grease	15	mg/l		<5		3.5		<5		3	4		<5	<5			<5	<5		<5		<5	1.4			<5		<5
Phenolics, Total	44	ug/l		<10		<10		<10		<10	<10		<10	<10			<10	<10		<10		7	<10			7.9		<10
PCBs, Aroclors (Compliance)	300	ng/l				<60				<60			<60					<63					<50			<60		
PCBs, Congeners (1668A Study)	NA	pg/l																										
Lead, Total	10	ug/l											<5					<5								<5		
Zinc, Total	120	ug/l											7.2					7.2								3.1		

5.6 Figures

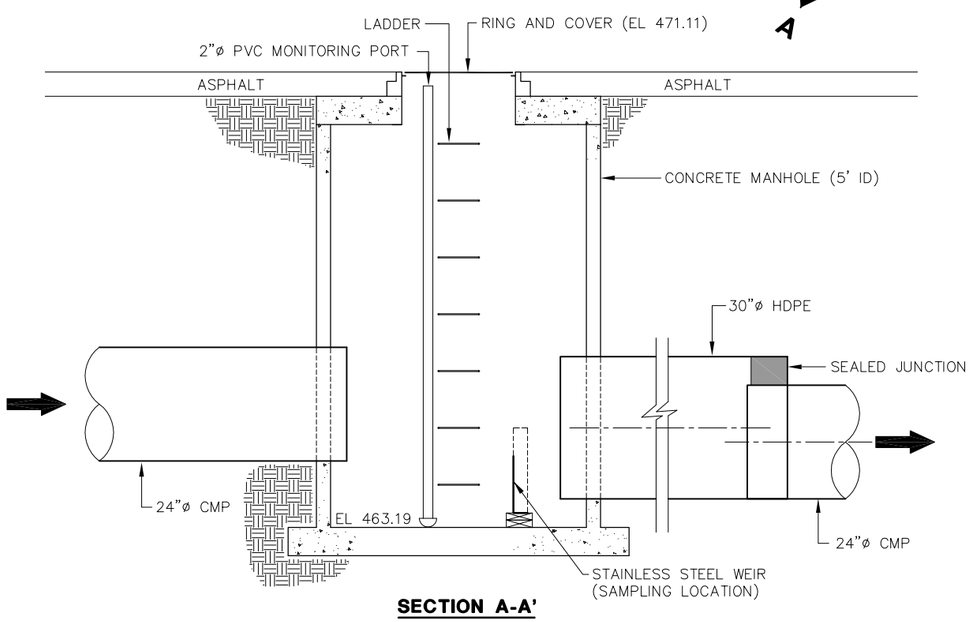


PLAN



WEIR DETAIL

SCALE: 3/8" = 1'-0"



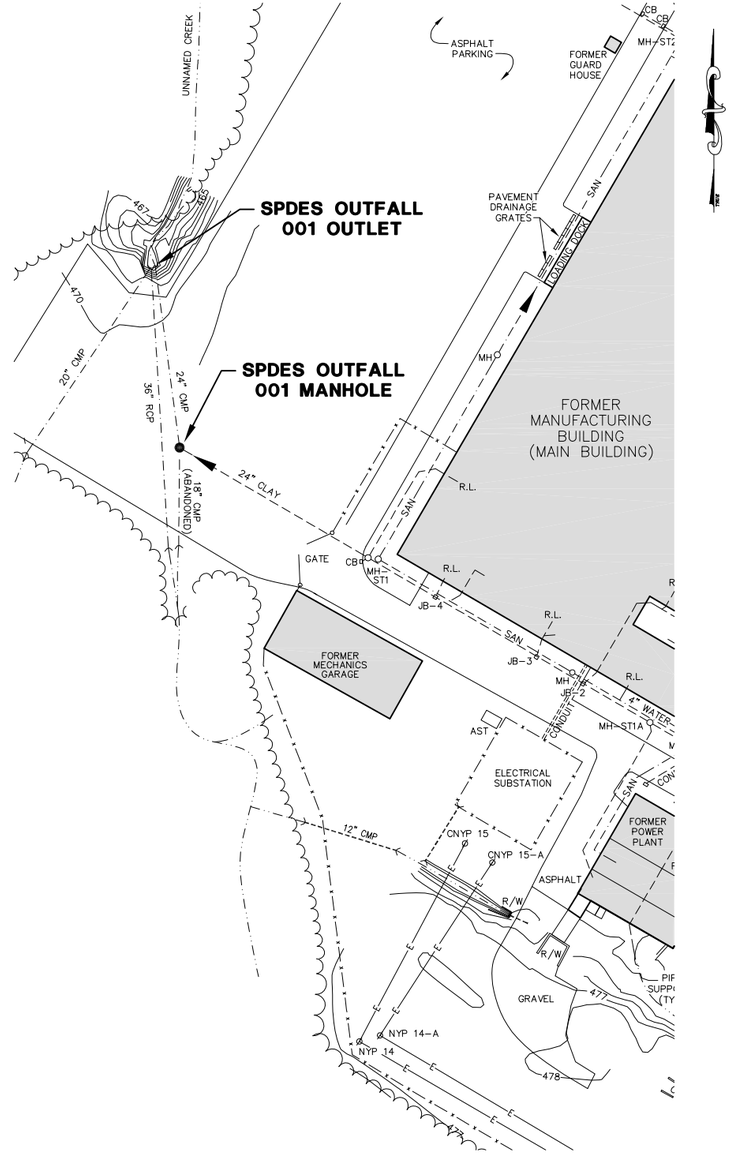
SECTION A-A'

SPDES OUTFALL 001 MANHOLE PLAN AND SECTION

SCALE: 3/8" = 1'-0"

0 2' 5'

GRAPHIC SCALE: 3/8" = 1'-0"



MANHOLE LOCATION PLAN

SCALE: 1" = 120'

0 120' 240'

GRAPHIC SCALE: 1" = 120'

X: CP-BASE
P: BL
8/27/12
SYNAPSE/WIP/DANA 01-11/2011 SMP/DANAB06.DWG

synapse
SYNAPSE RISK MANAGEMENT, LLC
360 ERIE BLVD. EAST
SYRACUSE, NEW YORK 13202

2011 PERIODIC REVIEW REPORT

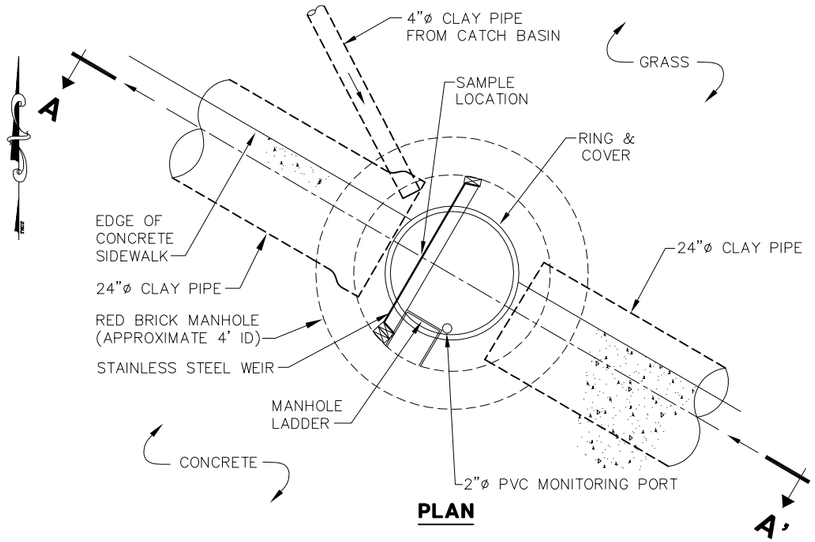
2200 BLEECKER STREET
UTICA, NEW YORK

SPDES OUTFALL 001 MANHOLE PLAN AND SECTION

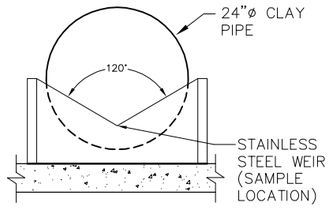
PROJECT NO.: DANA 01-11

DATE: SEPT. 2012

FIGURE NO.: 5-1

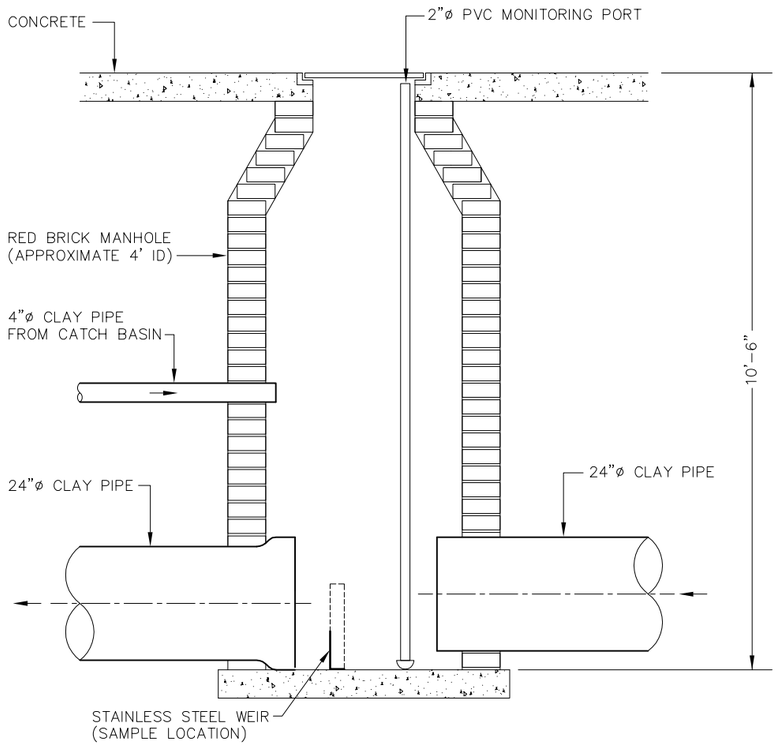


PLAN



WEIR DETAIL

SCALE: 3/8" = 1'-0"



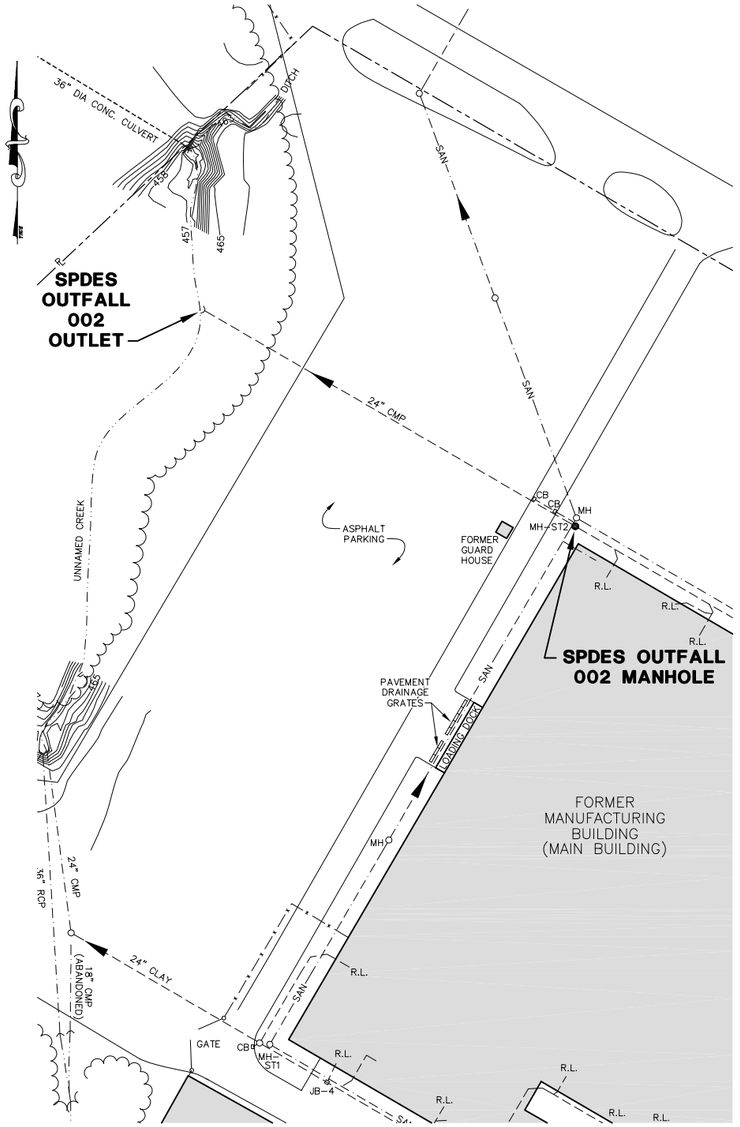
SECTION A-A'

SPDES OUTFALL 002 MANHOLE PLAN AND SECTION

SCALE: 3/8" = 1'-0"

0 2' 5'

GRAPHIC SCALE: 3/8" = 1'-0"



MANHOLE LOCATION PLAN

SCALE: 1" = 120'

0 120' 240'

GRAPHIC SCALE: 1" = 120'

X: CP-BASE
P: BL
8/27/12
SYNAPSE/WIP/DANA 01-11/2011 SMP/DANAB07.DWG

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2011 PERIODIC REVIEW REPORT

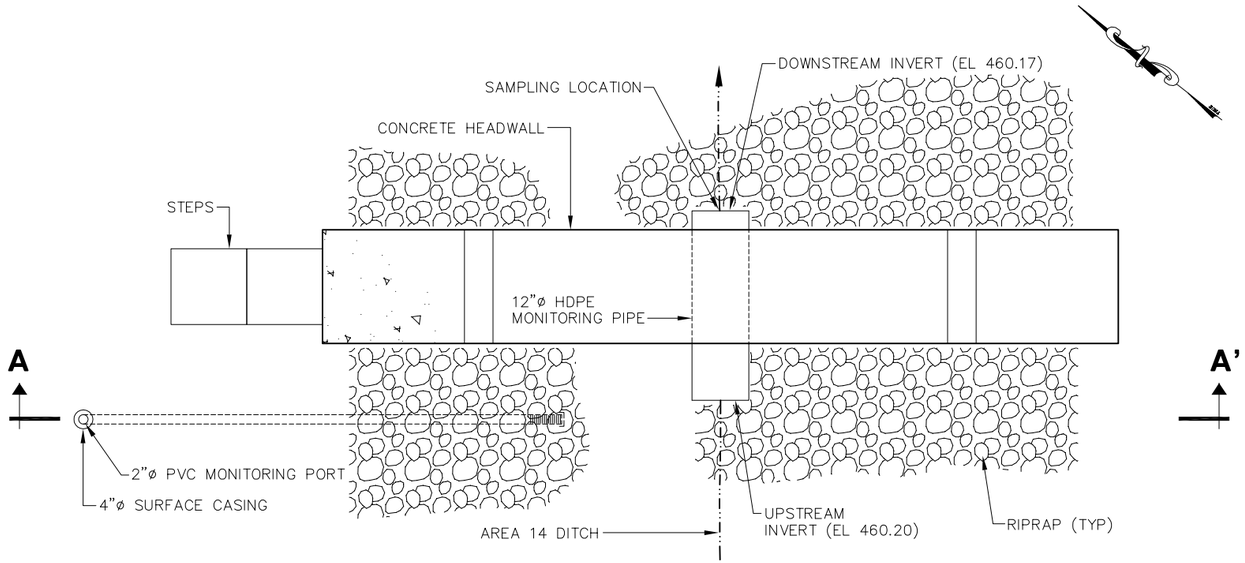
2200 BLEECKER STREET
UTICA, NEW YORK

SPDES OUTFALL 002 MANHOLE PLAN AND SECTION

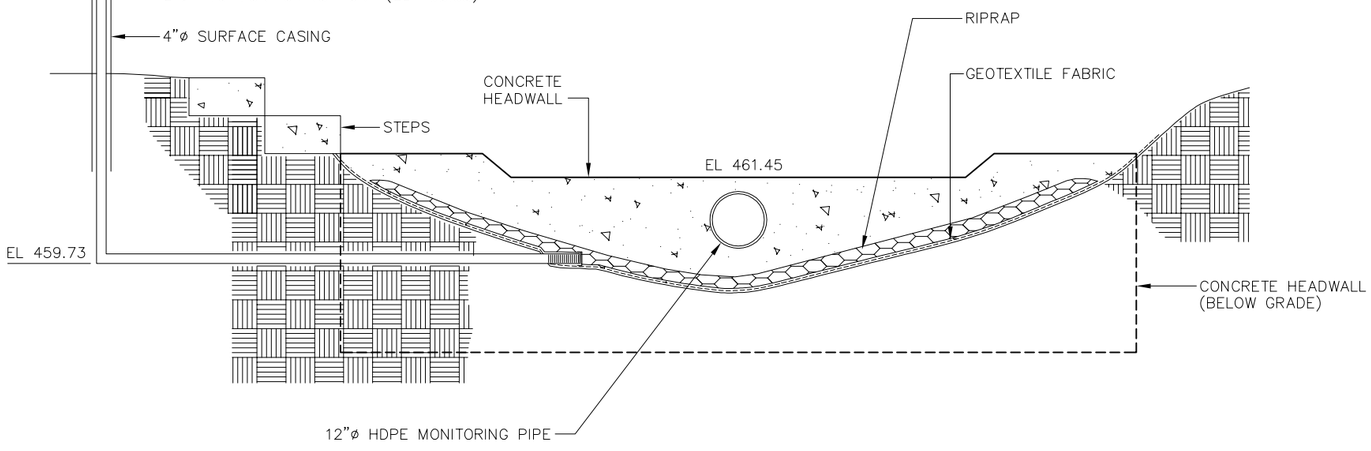
PROJECT NO.: DANA 01-11

DATE: SEPT. 2012

FIGURE NO.: 5-2



PLAN



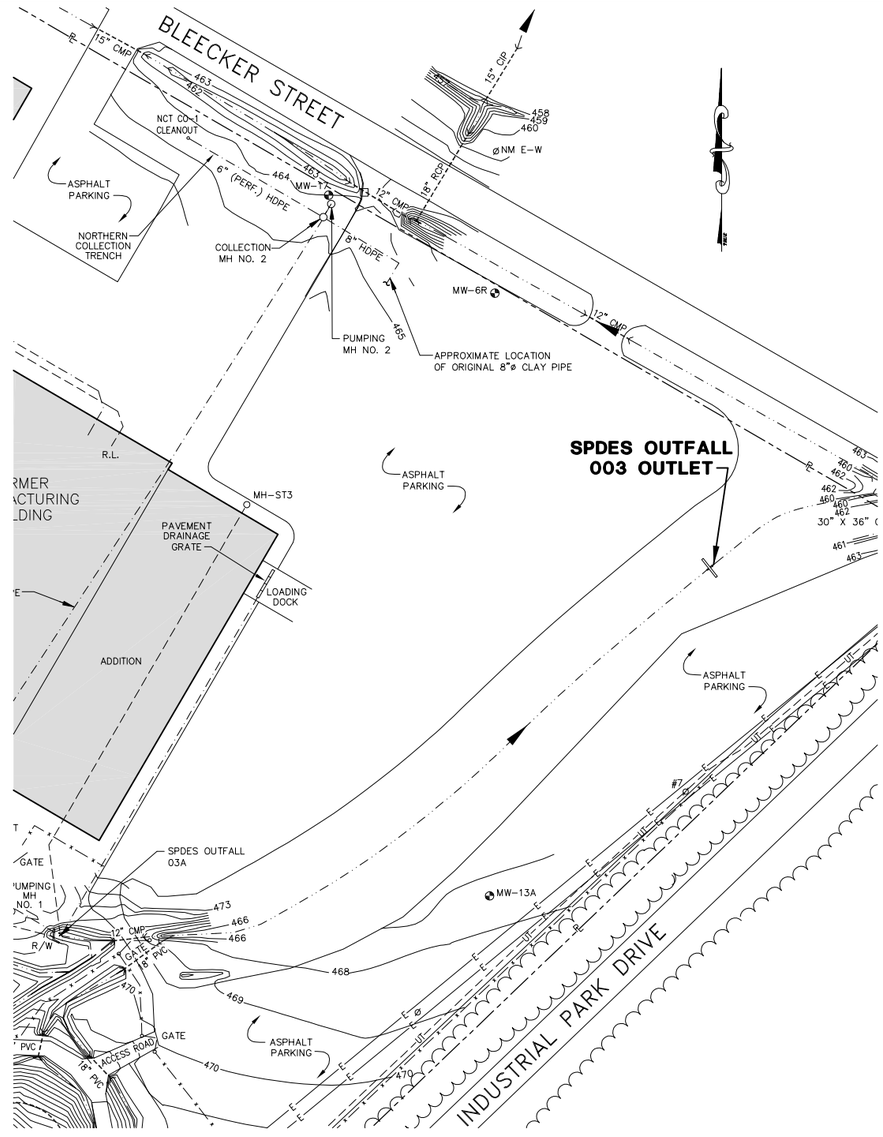
SECTION A-A'

SPDES OUTFALL 003 OUTLET PLAN AND SECTION

SCALE: 3/8" = 1'-0"

0 2' 5'

GRAPHIC SCALE: 3/8" = 1'-0"



OUTLET LOCATION PLAN

SCALE: 1" = 120'

0 120' 240'

GRAPHIC SCALE: 1" = 120'

X: CP-BASE
P: D2BBW
8/27/12
SYNAPSE/WIP/DANA 01-11/2011 SMP/DANAB08.DWG

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SYNAPSE RISK MANAGEMENT, LLC
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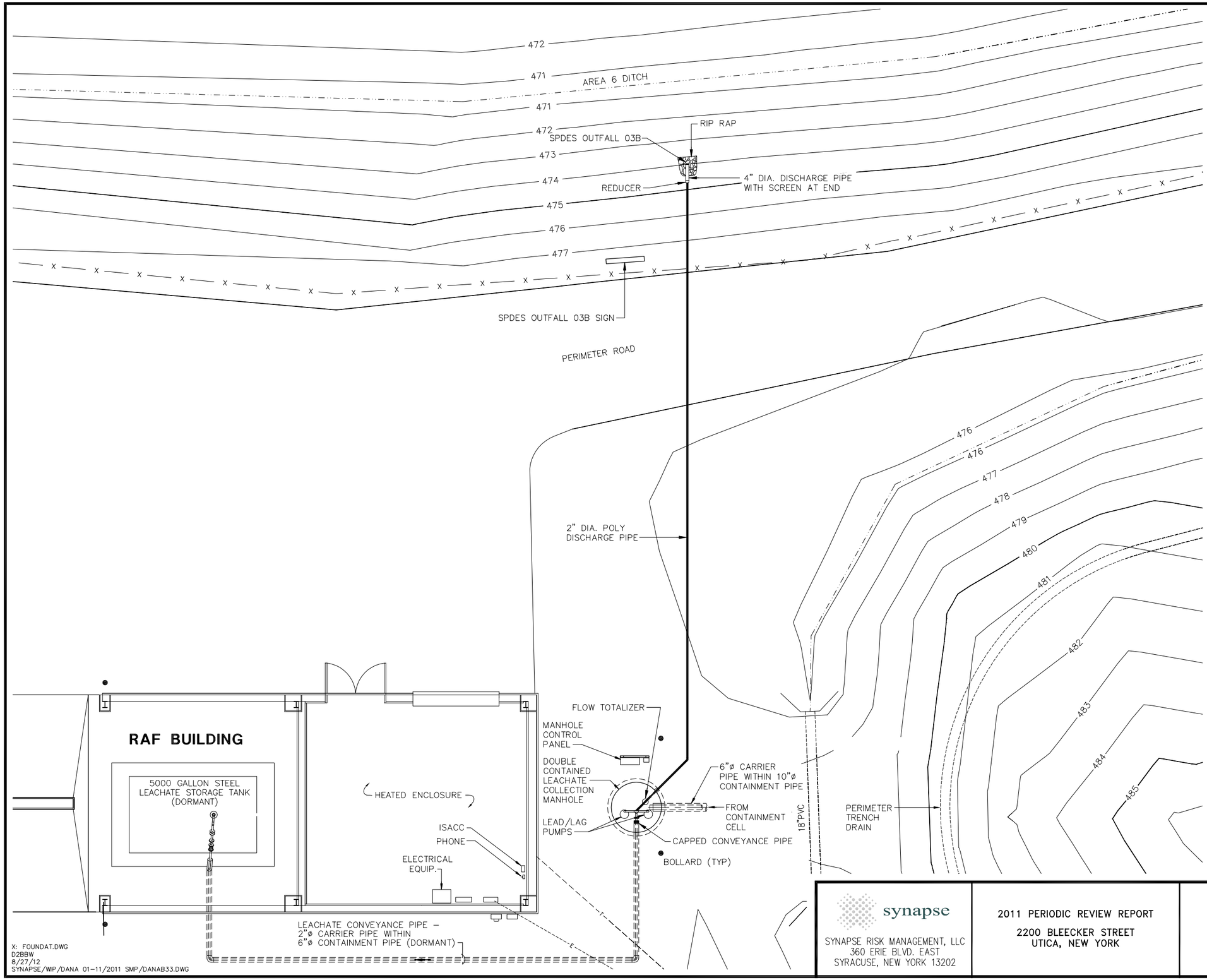
SYRACUSE, NEW YORK 13202

2011 PERIODIC REVIEW REPORT
2200 BLEECKER STREET
UTICA, NEW YORK

SPDES OUTFALL 003 PLAN AND SECTION

PROJECT NO.: DANA 01-11
DATE: SEPT. 2012
FIGURE NO.: **5-3**



LEGEND

- 470 — ELEVATION CONTOUR
- x — CHAIN LINK FENCE
- DRAINAGE CULVERT
- DRAINAGE DITCH
- T — TELEPHONE (UNDERGROUND)
- E — POWER LINE (UNDERGROUND)

NOTES:

1. BASE MAP INFORMATION SHOWN ON THIS DRAWING IS BASED ON A LIMITED FIELD SURVEY PERFORMED BY BLASLAND, BOUCK & LEE, INC. (BBL), DATED 10/97, AS–BUILT SURVEY INFORMATION PERFORMED BY LAFAVE, WHITE & MCGIVERN, L.S., P.C., DATED 5/99, AND ON INFORMATION OBTAINED FROM PREVIOUS SITE PLANS WHICH MAY BE CONCEPTUAL OR ASSUMED.
2. ELEVATIONS SHOWN ARE IN FEET ABOVE SEA LEVEL (DATUM IS NGVD OF 1988).
3. CONTOUR INTERVAL EQUALS 1 FOOT.
4. SOME LOCATIONS ARE APPROXIMATE.

0 5' 10'
GRAPHIC SCALE

X: FOUNDAT.DWG
D2BBW
8/27/12
SYNAPSE/WIP/DANA 01-11/2011 SMP/DANAB33.DWG

synapse

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2011 PERIODIC REVIEW REPORT

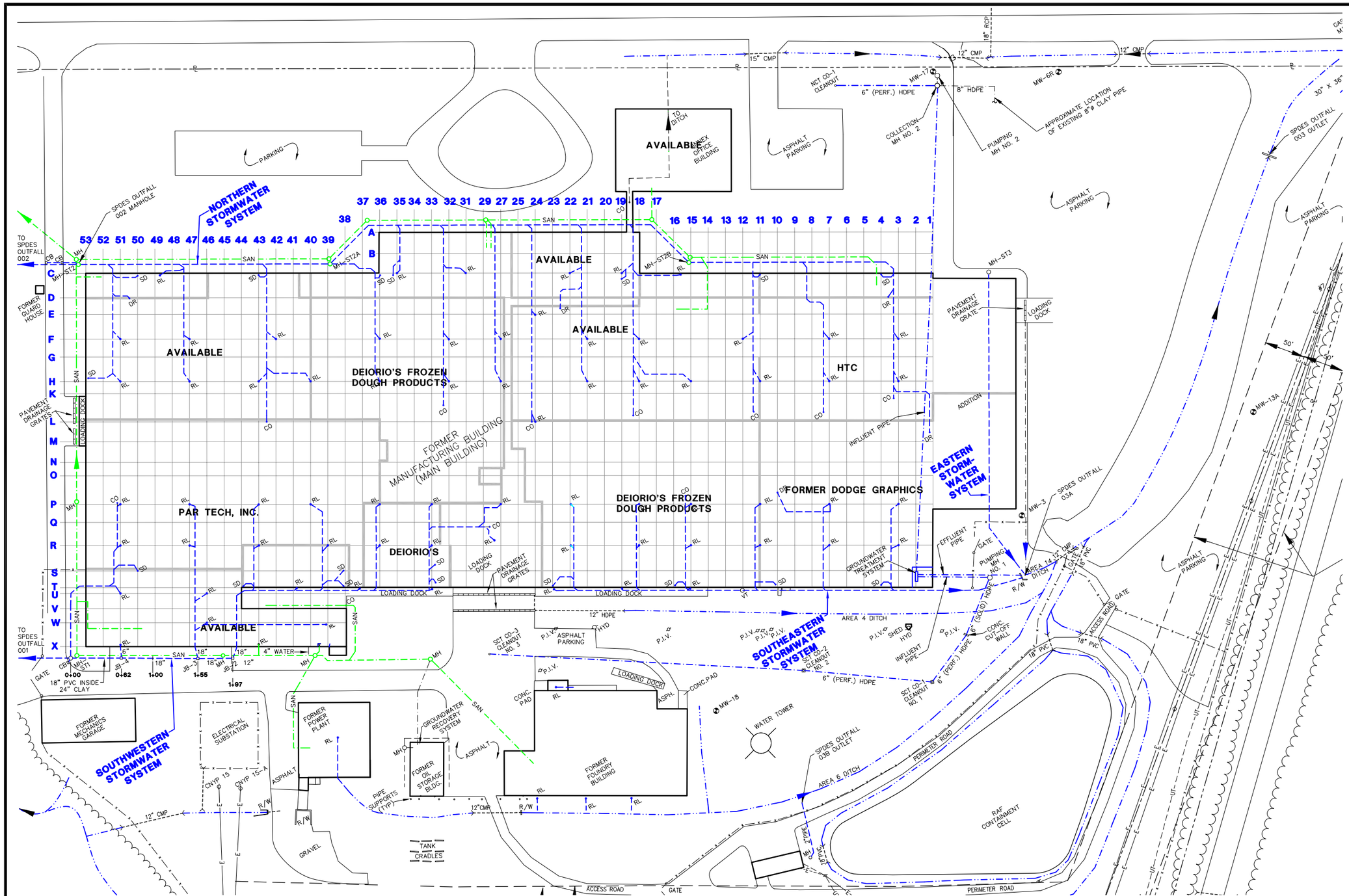
2200 BLEECKER STREET
UTICA, NEW YORK

SPDES OUTFALL 03B PLAN

PROJECT NO.: DANA 01-11

DATE: SEPT. 2012

FIGURE NO.: 5-4



LEGEND

MH	MANHOLE
x x x x	CHAIN LINK FENCE
CNYP 12	UTILITY POLE
R/W	RETAINING WALL
	SURFACE DRAINAGE CULVERT
	DRAINAGE DITCH
	DRAINAGE PIPE
SAN	SANITARY SEWER PIPE
	STORMWATER DRAIN DRAIN PIPE
	TREE LINE
MW-14	MONITORING WELL
HYD	FIRE HYDRANT
P.I.V.	VALVE
2C	COLUMN LINE ID
CO	CLEAN OUT
DR	DRAIN (STANDPIPE)
RL	ROOF LEADER DRAIN
SD	SPRINKLER DRAIN
VT	VENT
CB	CATCH BASIN
JB-3	JUNCTION BOX
0+00	STATION NUMBER

60' 0 60' 120'
GRAPHIC SCALE

DIRECTORY: C:DWGS/SECOR/CP/ENG-REP
FILE NAME: CP-Q4 X: CP-BASE1
DATE: 9/17/00

X: CP-BASE
D2BBW
8/27/12
SYNAPSE/WIP/DANA 01-11/2011 SMP/DANAB34.DWG

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2011 PERIODIC REVIEW REPORT

2200 BLEECKER STREET
UTICA, NEW YORK

STORMWATER SYSTEM PARTIAL PLAN

PROJECT NO.: DANA 01-11
DATE: SEPT. 2012
FIGURE NO.: 5-5

6.0 ENGINEERING CONTROLS – OPERATION, MAINTENANCE AND MONITORING OF THE GROUNDWATER TREATMENT SYSTEM

6.1 INTRODUCTION

The groundwater treatment system (GTS) was originally constructed as an interim remedial measure (IRM) to address volatile organic compounds (VOCs) present in surface water and groundwater. The system became fully operational in March 1995 and currently is operating as designed, with the exception of items discussed in Section 6.4. As part of the selected Remedial Action (RA), the system was modified to collect and treat shallow groundwater in 1999.

The system was significantly upgraded in December 2006 in an effort to minimize system shutdowns and improve overall efficiency. Presently, the GTS consists of the northern collection trench (NCT), the southern collection trench (SCT), pumping manhole number 1 (MH-1) pumping manhole number 2 (MH-2), the piping system, an equalization tank, transfer pumps, a control system and an air stripper. The GTS has been operating for 16 years. CHA, on behalf of Chicago Pneumatic Tool Company (CPTC), has been conducting Operation, Maintenance and Monitoring (OM&M) of the GTS since October 1, 2008.

Between January 1, 2011 and December 31, 2011 operation of the air stripper, pumps, and appurtenances has been consistent and continuous. System maintenance and emergency responses are summarized in Section 6.5; in general, emergency call outs were resolved quickly, and resulted in the GTS being shut down for minimal amount of time possible. The treatment system flow totalizers, as recorded on inspection reports, indicate that approximately 3,764,024 gallons of water was pumped, treated, and released to Outfall 03A between January 1, 2011 and December 31, 2011, operating at 99.9% efficiency and removing approximately 6.1 pounds of VOCs.

At this time, no changes to the Site Management Plan are recommended. Since concentrations of representative water samples from both the SCT and the NCT are still above regulatory standards, the requirements for discontinuing site management have not been achieved and the groundwater treatment system is required. Annual submissions of the Periodic Review Report (PRR) are recommended. Continued OM&M of this GTS is ongoing and also recommended.

6.2 SITE OVERVIEW

The treatment process includes removal of VOCs from influent water utilizing a low-profile air stripper detailed in the Air Stripper Plan Figure 6-2. The low-profile air stripper treats influent groundwater pumped from MH-1 and MH-2. The configuration at the manholes is detailed in Pumping Manhole Plans and Sections Figure 6-3. MH-1 currently receives groundwater from the SCT. MH-2 was constructed at the northern (down-gradient) extent of the property to collect effluent water from an existing clay pipe and groundwater from the NCT. The collection trenches were constructed as part of the RA at prescribed locations on the property to collect shallow groundwater. Groundwater is directed, via gravity feed, to the respective manholes where it is then pumped to the equalization tank and then through the air stripper.

MH-1 is equipped with two 3/4 horsepower (hp), 65 gallons per minute (gpm) pumps arranged in lead/lag mode, and five bulb type control switches. MH-2 is equipped with two 1/2 hp, 10 gpm pumps arranged in lead/lag mode, and five bulb type control switches. However, one of these pumps as not been in operation since prior to September 2010 when CHA began operation of the GTS. A second pump will be installed in MH-2 during 2012. It is important to note that the operation of only one pump has not impacted system operation. The pump controls are set, top to bottom in each manhole, as follows:

High level alarm;
Lag pump start;
Lead pump start;

Both pumps stop; and
Low level alarm, second off.

The main control panel for all pumps is located in the Main Building, adjacent to the air stripper. Groundwater is conveyed to the GTS area via a below grade containment piping system and single wall piping above grade. The groundwater treatment system components inside the building are located within a 6-foot high chain link fence, which is equipped with a locking security gate.

After entering the treatment system area, groundwater flows to a 2,500-gallon equalization tank, which provides a more uniform flow into the air stripper and to a limited extent, allows solids to settle out prior to treatment. The equalization tank is equipped with four float switches, which monitor and initiate events for the system operation.

Two Gould's pumps are utilized to transfer water from the equalization tank to the air stripper. These pumps are rated for greater than 120 gallons per minute at 40 feet of head. An in-line strainer is installed on the influent to each of these pumps to deter solids from entering the pumps.

Groundwater is conveyed via the Gould's pumps from the equalization tank to one 100-micron bag filter followed by one 50-micron bag filter on the effluent side of the pumps to capture smaller particles. The filter housings are stainless steel construction, rated for a maximum pressure of 120 pounds per square inch (psi). The treatment system has a typical operating range of 15 to 35 psi. When bag filter pressures exceed 35 psi the air stripper feed pumps shut down and sends an automated alarm call-out signaling that the bag filters need to be replaced before operation is able to resume. After passing through the primary and secondary bag filters, groundwater enters the air stripper unit.

The low-profile air stripper is a four-tray ShallowTray® 31200 Series model, equipped with a 3-phase, 20 hp, 1,800 cubic feet per minute (CFM) blower and is reportedly capable of processing water from 6 gpm to 425 gpm. The original control panel system was designed and constructed by Northeast Environmental Systems and the panel was further upgraded in 2006.

All data is remotely accessible via the existing phone line using EOS data management systems. Once per day, the EOS system transmits a record of the GTS operating conditions via facsimile to CHA's Syracuse office. The data is reviewed to determine whether the system is operating normally. In addition, the EOS system allows "real time" monitoring via computer, which is connected to the EOS system via a modem line. Real time monitoring of the GTS is generally conducted from one to multiple times per day depending on system demands and/or precipitation events. If the GTS is found to be in an alarm condition, an appropriate response is initiated.

The treated water from the low-profile air stripper discharges via gravity through an effluent pipe to SPDES Outfall 03A located at the upstream end of the eastern drainage ditch, formerly Area 14. The eastern drainage ditch is ultimately monitored as SPDES Outfall 003, prior to discharging off-site at the northern property boundary, as shown on Figure 6-1.

6.3 REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

Air stripper influent and effluent samples are collected and analyzed for the required VOCs. The January 1, 2011 through December 31, 2011 Influent and Effluent Analytical Summary (Table 2) provides the analytical data for influent flow from MH-1 and MH-2 on a monthly basis, and the air stripper effluent on a weekly basis. Table 3, the 2011 Air Stripper Flow Summary, provides weekly and monthly average flows measured during sampling events.

The information presented in Table 2 and Table 3 was developed to assist in evaluating mass removal of VOCs by the GTS. Table 4, the 2011 Air Stripper Mass Removal Summary, provides a monthly account of air stripper influent and effluent concentrations, VOCs removed, percent of VOCs removed, and total VOCs removed during the 12-month period from January 1, 2011 to December 31, 2011. As indicated, the total average annual removal efficiency was 99.9%, resulting in the removal of approximately 6.1 pounds of VOCs between the dates January 1, 2011 and December 31, 2011.

6.4 MONITORING PLAN COMPLIANCE

The effluent from the air stripper, SPDES Outfall 03A, requires sampling and analysis, as well as flow measurements to document compliance with the NYSDEC SPDES Permit No. NY0108537. Monitoring activities are summarized below.

- Weekly monitoring of flow and pH.
- Weekly effluent sampling and analysis for:
    - trichloroethylene (TCE);
    - cis-1,2-dichloroethene (cis-1,2-DCE);
    - trans-1,2-dichloroethene (trans-1,2-DCE); and
    - vinyl chloride (VC).

Between January 1, 2011 and December 31, 2011, representative system and manhole samples were collected by CHA personnel, placed in appropriately labeled laboratory glassware, and delivered by the CHA sampling personnel to Test America Laboratories. Specifically these samples were collected from the SPDES Outfall 03A sampling port as well as MH1 influent and MH2 influent sampling ports. Results from weekly sampling events conducted between January 1, 2011 and December 31, 2011 are provided in Table 5, Summary of Outfall 03A Analytical Results. The analytical results are submitted by CHA, on behalf of Chicago Pneumatic, to the NYSDEC in the form of monthly Discharge Monitoring Reports (DMRs). Between January 1, 2011 and December 31, 2011, there were two excursions to the SPDES Permit effluent limits, one in April 2011 and a second in August 2011. The NYSDEC was immediately notified of the excursions. There were no other permit excursions during 2011. DMR's have been provided in Appendix A.

The system is also remotely monitored daily via the existing phone line using EOS data management systems. Once per day, the EOS system transmits a record of the GTS operating conditions via facsimile to CHA's Syracuse office. The data is reviewed to determine whether the system is operating normally. In addition, the EOS system allows "real time" monitoring via computer, which is connected to the EOS system via a modem line. Beginning on October 28, 2011, the daily remote monitoring of the GTS did not fully comply with the monitoring plan. The phone line used to access the EOS data management system ceased communication. In the first quarter of 2012, CHA switched from the hard wired phone line to the use of a cellular air card and daily monitoring of the GTS resumed. It is important to note that the system operated properly and was inspected/sampled weekly during this time period. This was the only disruption to system monitoring in 2011. The system monitoring program is currently in full compliance with the Monitoring Plan.

6.4.1 Conclusions and Recommendations for Improvement

With the exception of the small disruption in daily monitoring on specified dates, the implemented monitoring fully complied with the system Monitoring Plan. Flow and pH were monitored on a weekly basis as well as effluent sampling and analysis for the listed VOCs. The monitoring plan is effective in meeting the objectives of the remedial program.

6.5 OPERATION AND MAINTENANCE PLAN COMPLIANCE

The GTS is designed to operate continuously, 24 hours per day, 7 days a week. The manhole and equalization tank pumps operate, as needed, to direct and control water flow into the air stripper. Control floats normally activate the pumps in both manholes and the equalization tank. If the pump systems fail to control the water level, due to an extremely high volume entering the manhole, an alarm is activated. If daily monitoring of the GTS status facsimile transmittals and/or daily real-time monitoring note that the GTS is in an alarm condition, an appropriate response is initiated. Copies of the field logs, included in Appendix H, provide documentation of weekly site visits, recorded alarm conditions, and modifications made to the system from January 1, 2011 through December 31, 2011. A summary of scheduled and unscheduled maintenance events including system alarms, shutdowns and responses from January 1, 2011 through December 31, 2011 are presented in the table below. These shutdowns resulted in the GTS being shut down for a relatively short period of time (e.g., generally less than one (1) day).

Alarm Conditions and Maintenance Summary

January 1, 2011 – December 31, 2011

Date	Incident/Resolution
2/21/2011	High Bag Filter Pressure Alarm caused system shut down; CHA changed out bag filters until system was operating as designed.
2/28/2011	MH-2 overload tripped in MS panel causing system shutdown and MH-2 High Level Alarm. CHA reset the panel and MH-2 began operating as designed.
3/14/2011	MH-2 overload tripped in MS panel causing system shutdown and MH-2 High Level Alarm. CHA reset the panel and MH-2 began operating as designed.
3/22/2011	MH-1 and MH-2 High Level Alarms and High Bag Filter Pressure Alarm caused system shut down; CHA changed out bag filters until system was operating as designed.
4/12/2011	MH-1, MH-2, and EQ Tank High Level Alarms caused system shutdown; CHA pumped EQ tank down manually and MH-1 and MH-2 began operating. CHA changed out bag filters until system was operating as designed.
4/14/2011	MH-1 and MH-2 High Level Alarms and High Bag Filter Pressure Alarm caused system shut down; CHA responded and changed out bag filters until system was operating as designed.
4/18/2011	MH-1 and MH-2 High Level Alarms caused system shut down; CHA changed out bag filters until system was operating as designed.
4/21/2011	CHA onsite with subcontractor Engler Electric for electrical maintenance.
4/26/2011	EQ Tank Low Level Alarm while CHA onsite; CHA pumped manholes down manually to refill EQ Tank.
4/29/2011	MH-1, MH-2, and EQ Tank High Level Alarms caused system shutdown; CHA responded and pumped EQ tank down manually and MH-1 and MH-2 began operating. CHA changed out bag filters until system was operating as designed.
5/3/2011	EQ Tank Low Level Alarm while CHA onsite; CHA pumped manholes down manually to refill EQ Tank.
5/10/2011	MH-1 and MH-2 High Level Alarms and High Bag Filter Pressure Alarm caused system shut down; CHA changed out bag filters until system was operating as designed.

Date	Incident/Resolution
5/16/2011	MH-1 High Level Alarm and High Bag Filter Pressure Alarm caused system shut down; CHA responded and changed out bag filters until system was operating as designed.
5/31/2011	MH-1, MH-2 and EQ Tank High Level Alarms and Air Stripper Low Pressure Alarm caused system shut down; CHA responded and changed out bag filters, manually pumped EQ Tank and adjusted valve around flow meter until system was operating as designed, minus MH-2.
6/1/2011	MH-1 overload tripped in MS panel; CHA reset the panel. MH-2 High Level Alarm from 5/31/2011 continues; CHA inspected MH-2 and determined the pump requires replacement.
6/20/2011	CHA onsite with subcontractor Paragon Environmental for air stripper cleaning and repair of brass flow meter.
6/21/2011	CHA onsite with subcontractor Paragon Environmental for replacement of MH-2 pump and brass flow meter. MH-1 High Level Alarm due to quantity of water being pumped from MH-2 to MH-1 to allow for the MH-2 pump replacement; CHA pumped down MH-1 manually until system was operating as designed.
6/22/2011	MH-1 High Level Alarm and High Bag Filter Pressure Alarm caused system shut down; CHA changed out bag filters until system was operating as designed.
6/24/2011	MH-1 and MH-2 High Level Alarms and High Bag Filter Pressure Alarm caused system shut down; CHA changed out bag filters; however, system remained in alarm.
6/27/2011	MH-1 and MH-2 High Level Alarms and High Bag Filter Pressure Alarm caused system shut down; CHA changed out bag filters until system was operating as designed, minus MH-1.
6/30/2011	MH-1 and MH-2 High Level Alarms, High Bag Filter Pressure Alarm and Air Stripper Low Pressure Alarm caused system shut down; CHA changed out bag filters until system was operating as designed.
7/1/2011	CHA onsite with subcontractor Paragon Environmental for EQ tank cleaning.
7/6/2011	MH-1 overload tripped in MS panel; CHA reset the panel.
7/11/2011	MH-1 overload tripped in MS panel; CHA reset the panel.
7/19/2011	MH-1 overload tripped in MS panel; CHA reset the panel.
7/25/2011	MH-1 overload tripped in MS panel; CHA reset the panel.
8/3/2011	CHA onsite with subcontractor Paragon Environmental, and Engler Electric to adjust settings on MH-1, Pump 1 to minimize overloads.
8/9/2011	MH-1, MH-2, and EQ Tank High Level Alarms and Air Stripper Low Pressure Alarm caused system shutdown; CHA changed out bag filters until system was operating as designed.
8/22/2011	CHA onsite with subcontractor Paragon Environmental for air stripper cleaning.
8/23/2011	CHA onsite with subcontractor Paragon Environmental for completion of air stripper cleaning.
8/26/2011	MH-1 and MH-2 High Level Alarms and High Bag Filter Pressure Alarm caused system shut down; CHA changed out bag filters until system was operating as designed. CHA onsite with subcontractor Paragon Environmental to clean Air Stripper fan blades.
8/31/2011	CHA onsite with subcontractor Paragon Environmental to further clean the Air Stripper fan blades and the Air Stripper effluent line.
9/15/2011	MH-1, MH-2, and EQ Tank High Level Alarms caused system shutdown; CHA changed out bag filters until system was operating as designed.
11/1/2011	MH-1, MH-2, and EQ Tank High Level Alarms and High Bag Filter Pressure alarm caused system shutdown; CHA changed out bag filters until system was operating as designed.

Date	Incident/Resolution
11/8/2011	CHA onsite with Teleco to determine the issues surrounding the ceased communication with the EOS system.
11/15/2011	MH-1, MH-2, and EQ Tank High Level Alarms caused system shutdown; CHA manually operated system and changed out bag filters until system was operating as designed.
11/22/2011	CHA onsite with subcontractor Paragon Environmental to replace brass flow meter and MH-1 flow sensor. MH-1, MH-2, and EQ Tank High Level Alarms caused system shutdown; CHA changed out bag filters until system was operating as designed.
11/30/2011	CHA onsite to clean the EQ Tank using a pressure washer.
12/1/2011	MH-1, MH-2, and EQ Tank High Level Alarms and Air Stripper VFD Fault Alarm caused system shutdown; CHA reset the system.

The total volume of water pumped to the air stripper is measured by in-line flow meters that provide both instantaneous and total flow readings. These flow meters are located at the air stripper in the influent pipes from MH-1, MH-2, and the treatment area floor sump pump as shown in Figure 6-4. Between January 1, 2011 and December 31, 2011 approximately 3,764,024 gallons of water were pumped, treated, and discharged to Outfall 03A. The 2011 Manhole Flow Summary (Table 1) indicates the manhole flow meter readings recorded during weekly inspections and provides average monthly flows for both manholes, as well as total flow for the same period of 2011. The GTS processed an average of 10,369 gpd between January 1, 2011 and December 31, 2011.

6.5.1 Conclusions and Recommendations for Improvement

The GTS has been operating for 15 years. Between January 1, 2011 and December 31, 2011 operation of the air stripper, pumps, and appurtenances has been consistent and for the most part continuous. In general, emergency call outs were resolved quickly, and resulted in the GTS being shut down for the minimal amount of time possible. The O&M plan is effective in meeting the objectives of the remedial program.

6.6 OVERALL CONCLUSIONS AND RECOMMENDATIONS

At this time, no changes to the Site Management Plan are recommended. Requirements of the Monitoring Plan were met during the reporting period. Likewise, the requirements of the Operation and Maintenance Plan were also met during the reporting period.

Based upon evaluation of the GTS, the remedial objectives for the site are being met. As indicated above, the total average annual removal efficiency was 99.9%, resulting in the removal of approximately 6.1 pounds of VOCs between the dates January 1, 2011 and December 31, 2011. The GTS is operating and performing as designed.

Since concentrations of water from both the SCT and the NCT are still above regulatory standards, the requirements for discontinuing site management have not been met and the GTS is still needed. Annual submissions of the PRR are recommended. Continued operation, maintenance, and monitoring of this groundwater treatment system is ongoing and recommended.

6.7 Tables

6.8 Figures

TABLE 6-1
JANUARY 1, 2011 THROUGH DECEMBER 31, 2011 MANHOLE FLOW SUMMARY

2011 ANNUAL OM+M REPORT
2200 BLEECKER STREET, UTICA, NY
NYSDEC SITE NO. 622003

	Flow Totalizer Reading			Flow per Monitoring Period (gpd)		
Monitoring Date	MH-1	MH-2	Days between	MH-1	MH-2	Total
1/4/2011	4387529	4699725	5	3990	8217	12207
1/10/2011	4401857	4728502	6	2388	4796	7184
1/17/2011	4416631	4760165	7	2111	4523	6634
1/25/2011	4431567	4794482	8	1867	4290	6157
1/31/2011	4443178	4817928	6	1935	3908	5843
Average Monthly Flow			**32**	**2362**	**4978**	**7340**

	Flow Totalizer Reading			Flow per Monitoring Period (gpd)		
Monitoring Date	MH-1	MH-2	Days between	MH-1	MH-2	Total
2/8/2011	4457717	4848541	8	1817	3827	5644
2/15/2011	4470210	4882349	7	1785	4830	6614
2/21/2011	4503230	4923571	6	5503	6870	12374
2/28/2011	4531678	4943813	7	4064	2892	6956
Average Monthly Flow			**28**	**3161**	**4496**	**7657**

	Flow Totalizer Reading			Flow per Monitoring Period (gpd)		
Monitoring Date	MH-1	MH-2	Days between	MH-1	MH-2	Total
3/8/2011	4588917	4980484	8	7155	4584	11739
3/14/2011	4655927	5018635	6	11168	6359	17527
3/22/2011	4705493	5085265	8	6196	8329	14525
3/29/2011	4749478	5154763	7	6284	9928	16212
Average Monthly Flow			**29**	**7510**	**7274**	**14784**

	Flow Totalizer Reading			Flow per Monitoring Period (gpd)		
Monitoring Date	MH-1	MH-2	Days between	MH-1	MH-2	Total
4/5/2011	4779915	5207698	7	4348	7562	11910
4/12/2011	4815360	5256904	7	5064	7029	12093
4/18/2011	4849240	5295428	6	5647	6421	12067
4/25/2011	4915447	5388916	7	9458	13355	22814
Average Monthly Flow			**27**	**6147**	**8672**	**14819**

	Flow Totalizer Reading			Flow per Monitoring Period (gpd)		
Monitoring Date	MH-1	MH-2	Days between	MH-1	MH-2	Total
5/3/2011	4981694	5471206	8	8281	10286	18567
5/10/2011	5024575	5521968	7	6126	7252	13378
5/16/2011	5047914	5569757	6	3890	7965	11855
5/24/2011	5080513	5630061	8	4075	7538	11613
5/31/2011	5105175	5637384	7	3523	1046	4569
Average Monthly Flow			**36**	**5270**	**6902**	**12172**

	Flow Totalizer Reading			Flow per Monitoring Period (gpd)		
Monitoring Date	MH-1	MH-2	Days between	MH-1	MH-2	Total
6/6/2011	5133932	5637887	6	4793	84	4877
6/14/2011	5158516	5639484	8	3073	200	3273
6/20/2011	5172756	5640596	6	2373	185	2559
6/30/2011	5179233	5669807	10	648	2921	3569
Average Monthly Flow			**30**	**2469**	**1081**	**3549**

TABLE 6-1
JANUARY 1, 2011 THROUGH DECEMBER 31, 2011 MANHOLE FLOW SUMMARY

2011 ANNUAL OM+M REPORT
2200 BLEECKER STREET, UTICA, NY
NYSDEC SITE NO. 622003

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
7/6/2011	5193080	5713025	6	2308	7203	9511
7/11/2011	5208290	5748103	5	3042	7016	10058
7/19/2011	5212893	5803626	8	575	6940	7516
7/25/2011	5215127	5856326	6	372	8783	9156
Average Monthly Flow			**25**	**1436**	**7461**	**8897**

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
8/3/2011	5220757	5909034	9	626	5856	6482
8/10/2011	5246914	5918963	7	3737	1418	5155
8/16/2011	5264810	5940349	6	2983	3564	6547
8/26/2011	5287776	5978427	10	2297	3808	6104
Average Monthly Flow			**32**	**2270**	**3816**	**6086**

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
9/2/2011	5287776	6076517	7	0	14013	14013
9/7/2011	5287776	6187850	5	0	22267	22267
9/15/2011	5287776	6368757	8	0	22613	22613
9/20/2011	5287776	6433620	5	0	12973	12973
9/28/2011	5287776	6533371	8	0	12469	12469
Average Monthly Flow			**33**	**0**	**16816**	**16816**

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
10/6/2011	5287776	6652815	8	0	14931	14931
10/11/2011	5287776	6652815	5	0	0	0
10/18/2011	5287776	6771515	7	0	16957	16957
10/26/2011	5287776	6856472	8	0	10620	10620
Average Monthly Flow			**28**	**0**	**11539**	**11539**

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
11/1/2011	5287776	6888043	6	0	5262	5262
11/8/2011	5287776	6976417	7	0	12625	12625
11/15/2011	5287776	7019383	7	0	6138	6138
11/22/2011	5291253	7030412	7	497	1576	2072
Average Monthly Flow			**27**	**129**	**6442**	**6571**

Monitoring Date	Flow Totalizer Reading		Days between	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
12/1/2011	5359555	7106129	9	7589	8413	16002
12/6/2011	5384287	7140954	5	4946	6965	11911
12/21/2011	5445701	7246475	15	4094	7035	11129
12/28/2011	5484153	7306090	7	5493	8516	14010
Average Monthly Flow			**36**	**5358**	**7658**	**13016**

TABLE 6-1
JANUARY 1, 2011 THROUGH DECEMBER 31, 2011 MANHOLE FLOW SUMMARY

2011 ANNUAL OM+M REPORT
2200 BLEECKER STREET, UTICA, NY
NYSDEC SITE NO. 622003

Summary of Manhole Flow for January 1, 2011 through December 31, 2011		
Total Flow	**gal**	**gpd**
MH-1	**1,116,573**	**3076**
MH-2	**2,647,451**	**7293**
Total 2011 Flow:	**3,764,024**	**10,369**

Notes:

Average monthly manhole flow is based on daily average

Table 6-2
JANUARY 1, 2011 through DECEMBER 31, 2011 INFLUENT AND EFFLUENT ANALYTICAL SUMMARY

2011 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

	Influent from MH-1					Influent from MH-2					Air Stripper Effluent					
Sample Date	Vinyl Chloride	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Total VOC's	Vinyl Chloride	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Total VOC's	Vinyl Chloride	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Total VOC's	Monthly Average VOC's
Permit Limit											10	10	10	10		
1/4/2011	7.3	78	<5	1.8	92.1	<50	190	<50	570	860	<1	<1	<1	<1	4	
1/10/2011											<1	<1	<1	<1	4	
1/17/2011											<1	<1	<1	1.1	4.1	
1/25/2011											<1	1.6	<1	1.6	5.2	
1/31/2011											<1	<1	<1	<1	4	4.3
2/8/2011	14	48	<5	1.1	68.1	<1	220	<5	610	836	<1	<1	<1	1.4	4.4	
2/15/2011											<1	1.3	<1	2	5.3	
2/21/2011											<1	<1.8	<1	2.3	6.1	
2/28/2011											<1	<2.2	<1	3	7.2	5.8
3/8/2011	11	21	<5	0.9	37.9	<100	600	<100	1900	2700	<1	0.74	<1	1.2	3.94	
3/14/2011											<1	<1	<1	<1	4	
3/22/2011											<1	1.6	<1	2	5.6	
3/29/2011											<1	0.57	<1	1.1	3.67	4.3
4/5/2011	5.3	42	<5	1.5	53.8	<5	630	<5	2100	2740	<1	3.1	<1	3.4	8.5	
4/12/2011											<1	3.2	<1	2.6	7.8	
4/18/2011											<1	7.3	<1	14	23.3	
4/25/2011											<1	1.5	<1	1.6	5.1	11.2
5/3/2011	3.6	37	<1	1.8	43.4	<1	790	<1	3300	4092	<1	3.1	<1	3.8	8.9	
5/10/2011											<1	3.7	<1	3.1	8.8	
5/16/2011											<1	1.5	<1	1.8	5.3	
5/24/2011											<1	1.8	<1	1.5	5.3	
5/31/2011											<1	<1	<1	<1	4	6.5
6/6/2011	8.7	94	<1	4.8	108.5	0	0	0	0	0	<1	<1	<1	<1	4	
6/14/2011											<1	<1	<1	<1	4	
6/20/2011											<1	<1	<1	<1	4	
6/30/2011											<1	<1	<1	<1	4	4.0
7/6/2011	20	50	<5	25	100	<250	560	<250	2100	3160	<1	<1	<1	<1	4	
7/11/2011											<1	<1	<1	<1	4	
7/19/2011											<1	<1	<1	0.69	3.69	
7/25/2011											<1	<1	<1	<1	4	3.9
8/3/2011	31	81	<1	12	125	<100	300	<100	1000	1500	<1	<1	<1	<1	4	
8/10/2011											<1	4.8	<1	11	17.8	
8/16/2011											<1	<1	<1	<1	4	
8/26/2011											<1	1.1	<1	2.9	6	8.0
9/2/2011	2.5	34	<5	4	45.5	<50	370	<50	1500	1970	<1	<1	<1	0.83	3.83	
9/7/2011											<1	<1	<1	0.93	3.93	

Table 6-2
JANUARY 1, 2011 through DECEMBER 31, 2011 INFLUENT AND EFFLUENT ANALYTICAL SUMMARY

2011 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

	Influent from MH-1					Influent from MH-2					Air Stripper Effluent					
Sample Date	Vinyl Chloride	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Total VOC's	Vinyl Chloride	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Total VOC's	Vinyl Chloride	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Total VOC's	Monthly Average VOC's
9/15/2011											<1	<1	<1	<1	4	
9/20/2011											<1	<1	<1	<1	4	
9/28/2011											<1	<1	<1	0.74	3.74	3.9
10/6/2011	7.1	49	<5	2.6	63.7	<50	220	<50	580	900	<1	<1	<1	<1	4	
10/11/2011											<1	<1	<1	<1	4	
10/18/2011											<1	<1	<1	<1	4	
10/26/2011											<1	<1	<1	<1	4	4.0
11/1/2011	3.9	59	<5	0.76	68.66	<100	380	<100	1100	1680	<1	<1	<1	<1	4	
11/8/2011											<1	<1	<1	0.61	3.61	
11/15/2011											<1	<1	<1	<1	4	
11/22/2011											<1	<1	<1	<1	4	3.9
12/1/2011	12	46	<5	1.4	64.4	<130	460	<130	1600	2320	<1	<1	<1	<1	4	
12/6/2011											<1	<1	<1	<1	4	
12/21/2011											<1	<1	<1	<1	4	
12/28/2011											<1	<1	<1	<1	4	4.0

Notes:

1) All values reported in micrograms per liter (ug/L), approximately equivalent to parts per billion (ppb).

2) VOCs = Volatile Organic Compounds.

TABLE 6-3
2011 AIR STRIPPER FLOW SUMMARY

2011 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Date	Average Flow During Monitoring Period (gpd)
1/4/2011	12207
1/10/2011	7184
1/17/2011	6634
1/25/2011	6157
1/31/2011	5843
Average Monthly Flow (gpd)	**7340**
2/8/2011	5644
2/15/2011	6614
2/21/2011	12374
2/28/2011	6956
Average Monthly Flow (gpd)	**7657**
3/8/2011	11739
3/14/2011	17527
3/22/2011	14525
3/29/2011	16212
Average Monthly Flow (gpd)	**14784**
4/5/2011	11910
4/12/2011	12093
4/18/2011	12067
4/25/2011	22814
Average Monthly Flow (gpd)	**14819**
5/3/2011	18567
5/10/2011	13378
5/16/2011	11855
5/24/2011	11613
5/31/2011	4569
Average Monthly Flow (gpd)	**12172**
6/6/2011	4877
6/14/2011	3273
6/20/2011	2559
6/30/2011	3569
Average Monthly Flow (gpd)	**3549**
7/6/2011	9511
7/11/2011	10058
7/19/2011	7516
7/25/2011	9156
Average Monthly Flow (gpd)	**8897**

TABLE 6-3
2011 AIR STRIPPER FLOW SUMMARY

2011 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

8/3/2011	6482	
8/10/2011	5155	
8/16/2011	6547	
8/26/2011	6104	
Average Monthly Flow (gpd)		**6086**
9/2/2011	14013	
9/7/2011	22267	
9/15/2011	22613	
9/20/2011	12973	
9/28/2011	12469	
Average Monthly Flow (gpd)		**16816**
10/6/2011	14931	
10/11/2011	0	
10/18/2011	16957	
10/26/2011	10620	
Average Monthly Flow (gpd)		**11539**
11/1/2011	5262	
11/8/2011	12625	
11/15/2011	6138	
11/22/2011	2072	
Average Monthly Flow (gpd)		**6571**
12/1/2011	16002	
12/6/2011	11911	
12/21/2011	11129	
12/28/2011	14010	
Average Monthly Flow (gpd)		**13016**

Note:
1) gpd = gallons per day.
2) Average flow data is calculated from data collected during site visits.
3) Total Air Stripper flow includes total flows of MH-1 and MH-2.

TABLE 6-4
JANUARY 1, 2011 - DECEMBER 31, 2011 AIR STRIPPER MASS REMOVAL SUMMARY

2011 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Sample Month	Air Stripper Influent - Average Monthly VOC[1] Concentration (µg/l)[2]	Air Stripper Effluent - Average Monthly VOC Concentration[5] (µg/l)	VOC's Removed (µg/l)	% VOC's Removed	Air Stripper Effluent - Average Monthly Flow (gpd)[3]	VOC's Removed (lbs)[4]
Jan	613	4.26	609	99.3	7340	1.2
Feb	519	5.75	513	98.9	7657	0.9
Mar	1348	4.30	1344	99.7	14784	4.8
Apr	1626	11.18	1615	99.3	14819	5.4
May	2339	6.46	2333	99.7	12172	8.5
Jun	75	4.00	71	94.7	3549	0.1
Jul	2666	3.92	2662	99.9	8897	4.9
Aug	987	7.95	979	99.2	6086	1.6
Sep	1970	3.90	1966	99.8	16816	9.1
Oct	900	4.00	896	99.6	11539	2.4
Nov	1648	3.90	1644	99.8	6571	2.4
Dec	1391	4.00	1387	99.7	13016	5.4
			2011 Average (%)[6]:	**99.1**	2011 Total (lbs):	**46.8**

Notes:
1) VOCs = volatile organic compounds
2) ug/l = micrograms per liter, approximately equivalent to parts per billion (ppb)
3) gpd = gallons per day
4) lbs = pounds
5) Test America Laboratories typical reporting limit equals 5.0 ug/L or 1.0 ug/L. Therefore, mass removal calculations are based on an estimated value of 5.0 ug/L or 1.0 ug/L, respectively.
6) 2011 Average of % VOCs removed value obtained by averaging monthly values

TABLE 6-5
JANUARY 1, 2011 through DECEMBER 31 2011 SUMMARY of SPDES OUTFALL- 03A ANALYTICAL RESULTS

2011 ANNUAL OM+M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Sample Date	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	TCE (µg/L)	VC (µg/L)	Flow (Avg. GPD)	pH (SU)
Permit Limits	**10**	**10**	**10**	**10**		
1/4/2011	<1	<1	<1	<1	12207	7.59
1/10/2011	<1	<1	<1	<1	7184	7.23
1/17/2011	<1	<1	1.1	<1	6634	7.4
1/25/2011	1.6	<1	1.6	<1	6157	8.1
1/31/2011	<1	<1	<1	<1	5843	7.89
2/8/2011	<1	<1	1.4	<1	5644	7.96
2/15/2011	1.3	<1	2	<1	6614	7.32
2/21/2011	<1.8	<1	2.3	<1	12374	6.77
2/28/2011	<2.2	<1	3	<1	6956	7.3
3/8/2011	0.74	<1	1.2	<1	11739	7.39
3/14/2011	<1	<1	<1	<1	17527	6.68
3/22/2011	1.6	<1	2	<1	14525	7.02
3/29/2011	0.57	<1	1.1	<1	16212	7.14
4/5/2011	3.1	<1	3.4	<1	11910	7.51
4/12/2011	3.2	<1	2.6	<1	12093	7.15
4/18/2011	7.3	<1	14	<1	12067	7.59
4/25/2011	1.5	<1	1.6	<1	22814	7.59
5/3/2011	3.1	<1	3.8	<1	18567	7.54
5/10/2011	3.7	<1	3.1	<1	13378	7.5
5/16/2011	1.5	<1	1.8	<1	11855	6.69
5/24/2011	1.8	<1	1.5	<1	11613	8.06
5/31/2011	<1	<1	<1	<1	4569	8.53
6/6/2011	<1	<1	<1	<1	4877	8.53
6/14/2011	<1	<1	<1	<1	3273	8.54
6/20/2011	<1	<1	<1	<1	2559	8.35

TABLE 6-5
JANUARY 1, 2011 through DECEMBER 31 2011 SUMMARY of SPDES OUTFALL- 03A ANALYTICAL RESULTS

2011 ANNUAL OM+M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Sample Date	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	TCE (µg/L)	VC (µg/L)	Flow (Avg. GPD)	pH (SU)
Permit Limits	**10**	**10**	**10**	**10**		
6/30/2011	<1	<1	<1	<1	3569	8.32
7/6/2011	<1	<1	<1	<1	9511	8.18
7/11/2011	<1	<1	<1	<1	10058	7.75
7/19/2011	<1	<1	0.69	<1	7516	7.57
7/25/2011	<1	<1	<1	<1	9156	8.13
8/3/2011	<1	<1	<1	<1	6482	7.95
8/10/2011	4.8	<1	11	<1	5155	8.05
8/16/2011	<1	<1	<1	<1	6547	8.06
8/26/2011	1.1	<1	2.9	<1	6104	8.57
9/2/2011	<1	<1	0.83	<1	14013	8.8
9/7/2011	<1	<1	0.93	<1	22267	8.75
9/15/2011	<1	<1	<1	<1	22613	8.85
9/20/2011	<1	<1	<1	<1	12973	8.88
9/28/2011	<1	<1	0.74	<1	12469	8.82
10/6/2011	<1	<1	<1	<1	14931	8.77
10/11/2011	<1	<1	<1	<1	0	8.8
10/18/2011	<1	<1	<1	<1	16957	8.88
10/26/2011	<1	<1	<1	<1	10620	0

TABLE 6-5
JANUARY 1, 2011 through DECEMBER 31 2011 SUMMARY of SPDES OUTFALL- 03A ANALYTICAL RESULTS

2011 ANNUAL OM+M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

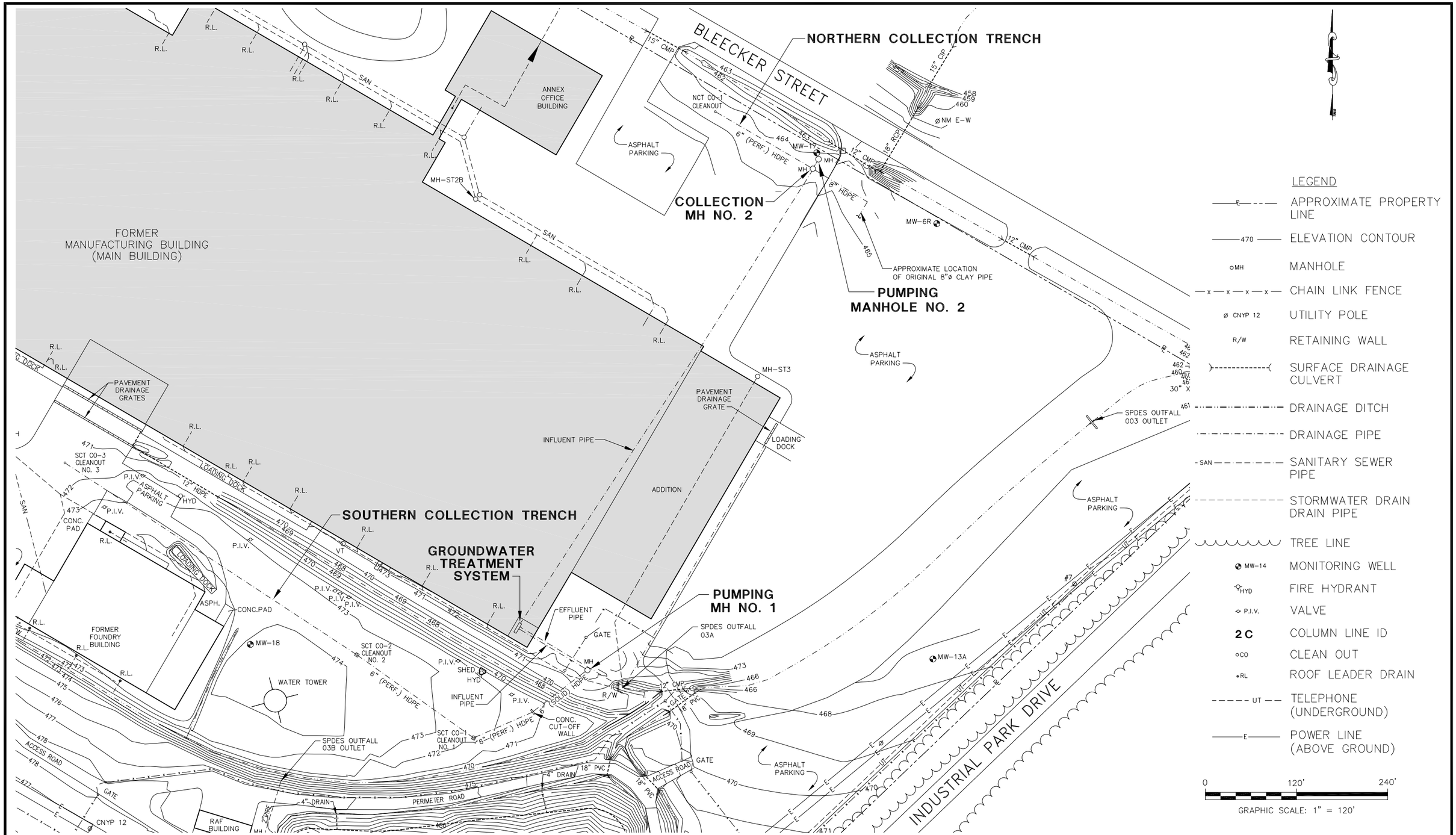
Sample Date	cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	TCE (µg/L)	VC (µg/L)	Flow (Avg. GPD)	pH (SU)
Permit Limits	**10**	**10**	**10**	**10**		
11/1/2011	<1	<1	<1	<1	5262	8.66
11/8/2011	<1	<1	0.61	<1	12625	8.68
11/15/2011	<1	<1	<1	<1	6138	8.35
11/22/2011	<1	<1	<1	<1	2072	0
12/1/2011	<1	<1	<1	<1	16002	8.47
12/6/2011	<1	<1	<1	<1	11911	8.35
12/21/2011	<1	<1	<1	<1	11129	8.65
12/28/2011	<1	<1	<1	<1	14010	8.61

Notes:

1) cis-1,2-DCE = cis-1,2-Dichloroethene

2) trans-1,2-DCE = trans-1,2-Dichloroethene

3) TCE = Trichloroethylene
4) VC = Vinyl Chloride
5) ug/L = micrograms per liter
6) gpd = gallons per day.



NOTES:

1. BASE MAP INFORMATION SHOWN ON THIS DRAWING IS BASED ON A LIMITED FIELD SURVEY PERFORMED BY BLASLAND, BOUCK & LEE, INC. (BBL), DATED 10/97, AS-BUILT SURVEY INFORMATION PERFORMED BY LAFAVE, WHITE & MCGIVERN, L.S., P.C., DATED 5/99, AND ON INFORMATION OBTAINED FROM PREVIOUS SITE PLANS WHICH MAY BE CONCEPTUAL OR ASSUMED.
2. ALL ORIGINAL DRAINS AND DRAIN PIPE LOCATIONS INSIDE AND OUTSIDE OF THE BUILDINGS WERE DIGITIZED FROM COPIES OF THE 1948 CONSTRUCTION DRAWINGS AND ARE APPROXIMATE.

X: CP-BASE
D2BBW
8/27/12
SYNAPSE/WIP/DANA 01-11/2011 SMP/DANAB0312.DWG

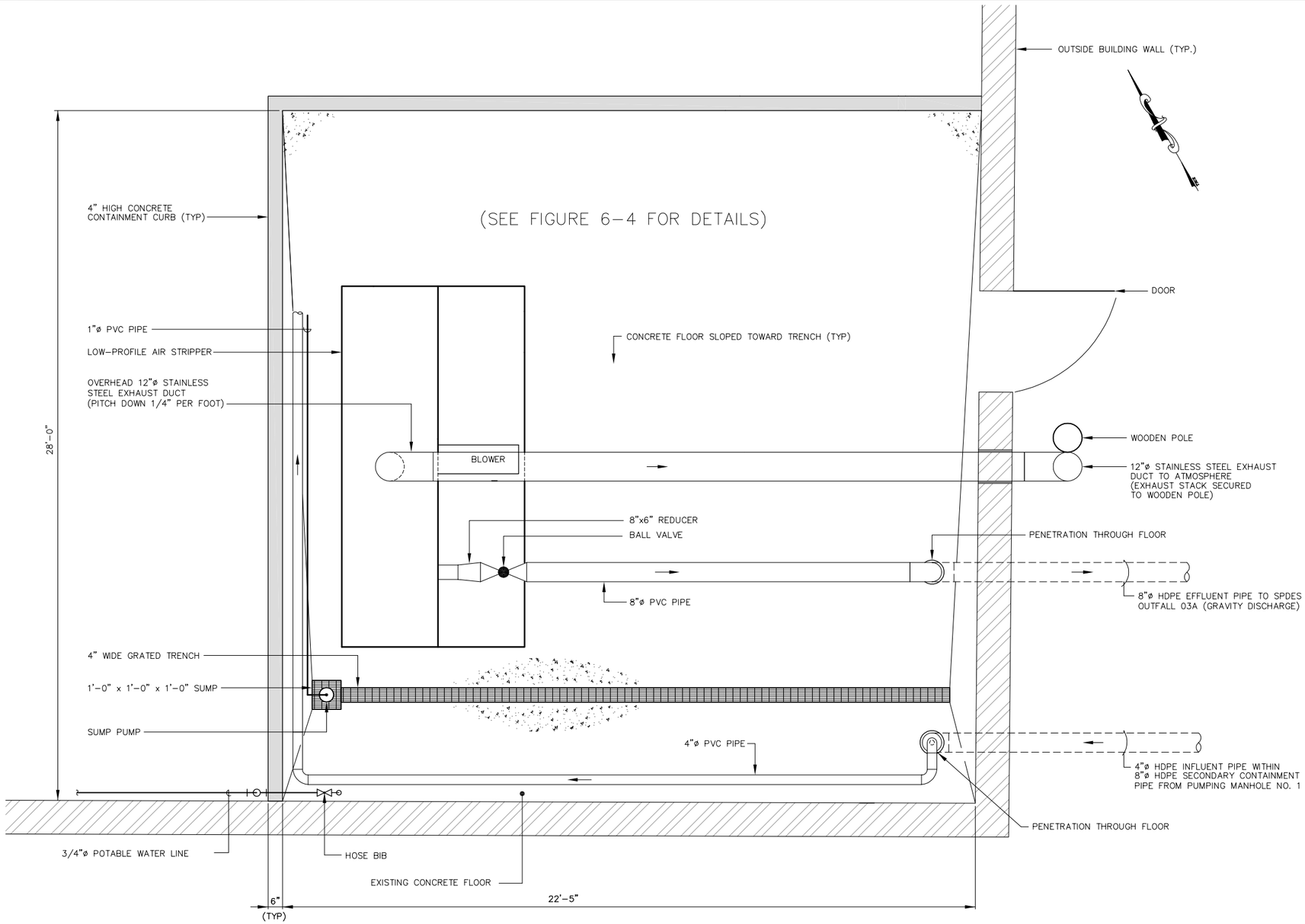
synapse
SYNAPSE RISK MANAGEMENT, LLC
360 ERIE BLVD. EAST
SYRACUSE, NEW YORK 13202

2011 PERIODIC REVIEW REPORT

2200 BLEECKER STREET
UTICA, NEW YORK

GROUNDWATER TREATMENT SYSTEM PLAN

PROJECT NO.: DANA 01-11
DATE: SEPT. 2012
FIGURE NO.: 6-1



FLOOR PLAN

1/4" = 1'-0"

GRAPHIC SCALE

0 2' 4' 8'

1/4" = 1'-0"

X: CP-BASE
P: BL
8/27/12
SYNAPSE/WIP/DANA 01-11/2011 SMP/DANAB14.DWG

synapse
SYNAPSE RISK MANAGEMENT, LLC
360 ERIE BLVD. EAST
SYRACUSE, NEW YORK 13202

2011 PERIODIC REVIEW REPORT

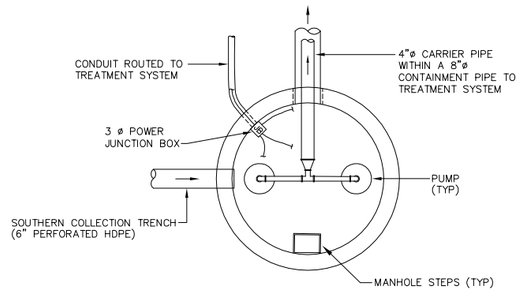
2200 BLEECKER STREET
UTICA, NEW YORK

AIR STRIPPER PLAN

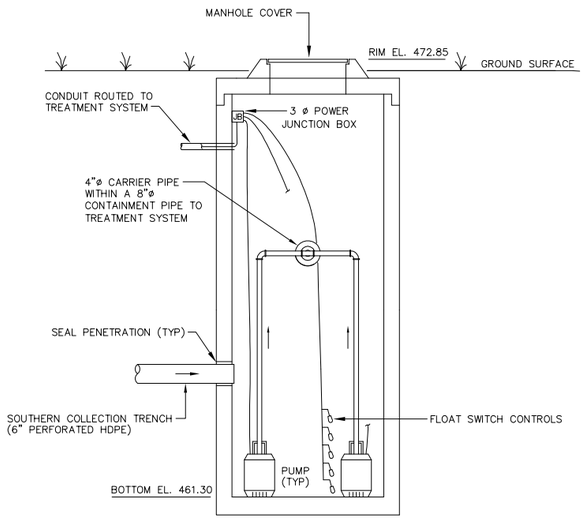
PROJECT NO.: DANA 01-11

DATE: SEPT. 2012

FIGURE NO.: 6-2



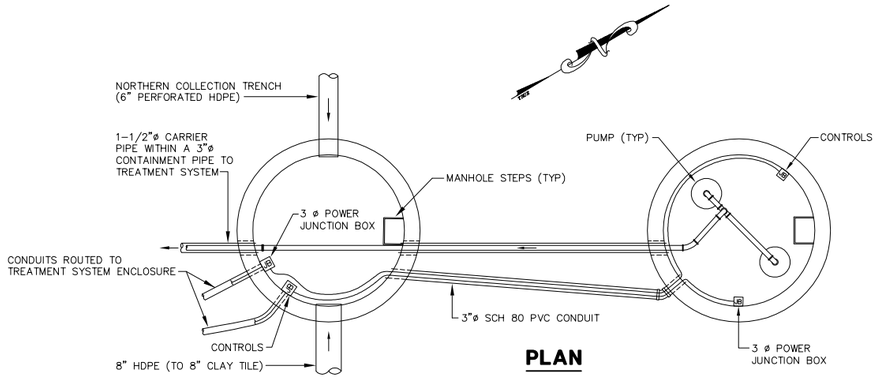
PLAN



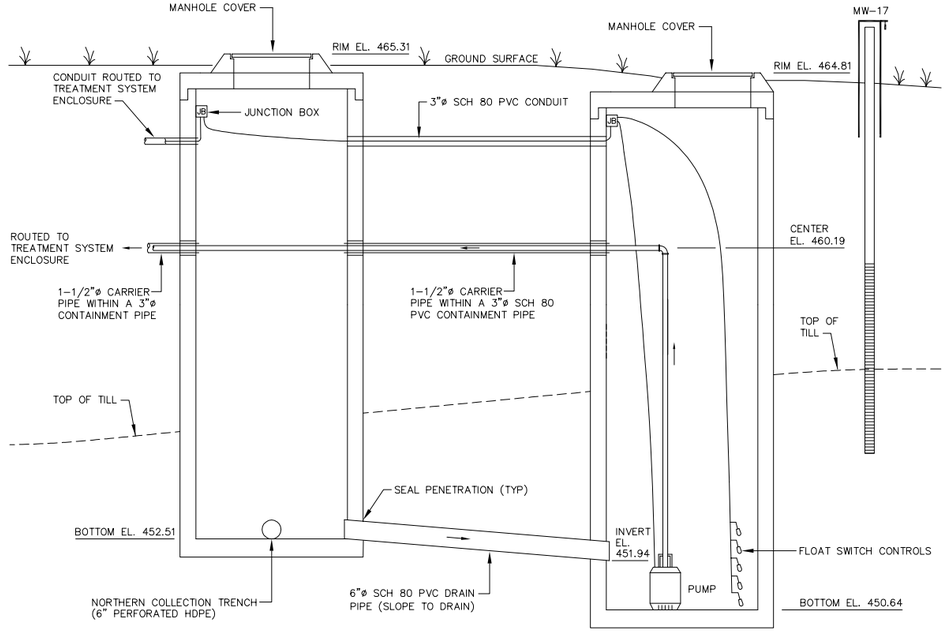
GENERAL SECTION

PUMPING MANHOLE NO. 1 PLAN AND SECTION

SCALE: 1/4" = 1'-0"



PLAN



COLLECTION MANHOLE **PUMPING MANHOLE**

GENERAL SECTION

PUMPING MANHOLE NO. 2 PLAN AND SECTION

SCALE: 1/4" = 1'-0"

0 4' 8'

GRAPHIC SCALE: 1/4" =1'-0"

X: CP-BASE
P: BL
8/27/12
SYNAPSE/WIP/DANA 01-11/2011 SMP/DANAB13.DWG

synapse
SYNAPSE RISK MANAGEMENT, LLC
360 ERIE BLVD. EAST
SYRACUSE, NEW YORK 13202

2011 PERIODIC REVIEW REPORT
2200 BLEECKER STREET
UTICA, NEW YORK

PUMPING MANHOLE PLANS AND SECTIONS

PROJECT NO.: DANA 01-11
DATE: SEPT. 2012
FIGURE NO.: 6-3

APPENDIX A
SITE INSPECTION REPORTS – FORM A & FORM A1

2011 PERIODIC REVIEW REPORT

2200 BLEECKER STREET
UTICA, NEW YORK 13501
NYSDEC SITE NO. 622003

SEPTEMBER 2012

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 1/7/2011

Category		Inspected	Observation/Condition	✓
1	**General Property**			
	A	General Property Access	Good	✓
	B	General Property Drainage	SPDES Outfall (001 ✓ 002 ✓ 003 ✓)	✓
2	**Cell Perimeter Components**			
	A	Perimeter and Access Roads	Snow Covered	✓
	B	Ditches	Snow Covered	✓
	C	Culverts		✓
	D	Perimeter Fence	Gates ✓	✓
	E	Utilities	Elec. ✓ Phone ✓	✓
3	**Containment Cell**			
	A	Surface Cover System	Burrows ____ Vegetation ____ Snow Covered	✓
	B	Gas Vents (2)		✓
	B'	PID Readings	(Y or (N)) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	✓
	C	Collection Pipe / Cleanout	Not Viewed	✓
	D	Perimeter Drains (4)	Frozen	✓
4	**Leachate Collection Manhole**			
	A	Structure	External ✓ Internal ✓	✓
	B	Pumps and Plumbing	Pump 1 Hours 133.2 Pump 2 Hours 267.1	✓
	B'	Pump Changeover	(Y or (N)) Lead Pump ____ Lag Pump ____ OFF	✓
	B"	Test Automatic Pump Controls	LSHH____, LSH ____, LSL ____, LSLL ____	✓
	C	Electrical Components	Test Pumps (Y or (N)) Light Bulbs ✓	✓
	D	Manhole Interstitial Space		✓
	E	Conveyance Pipe		✓
	F	Influent Pipe	Dry	✓
	G	Confined Space Entry	(Y or (N)) (see Form B)	✓

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 1/7/2011

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock /, Vent /, Heater /	✓
B	Electrical and Telephone	Elec / Phone /	✓
C	Auto Dialer and Controls	Test Functions (Y or (N)) (see Form F)	✓
6 Leachate Storage System			
A	Tank (External)	Internal (Y or (N)) Not in Use	✓
A'	Flow Totalizer	Reading = 7580 0 gal.	✓
B	Secondary Containment	Liquid (Y or (N))	✓
C	Piping Components		✓
D	Electrical Components	Lock____ Light Bulbs____	✓
E	Leachate Sampling	((Y) or N) (see Form C) See SPDES LOG	✓

Additional Comments:

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 2/4/2011

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access		✓
B	General Property Drainage	SPDES Outfall (001 ✓ 002 ✓ 003 ✓)	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Good	✓
B	Ditches	Snow Covered	✓
C	Culverts		✓
D	Perimeter Fence	Gates ✓	✓
E	Utilities	Elec. ✓ Phone ✓	✓
3 Containment Cell			
A	Surface Cover System	Burrows ____ Vegetation ____ Snow Covered	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or (N)) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	✓
C	Collection Pipe / Cleanout	Not Viewed	✓
D	Perimeter Drains (4)	Snow Covered	✓
4 Leachate Collection Manhole			
A	Structure	External ✓ Internal ✓	✓
B	Pumps and Plumbing	Pump 1 Hours ____ Pump 2 Hours ____	✓
B'	Pump Changeover	(Y or (N)) Lead Pump ____ Lag Pump ____ off	✓
B"	Test Automatic Pump Controls	LSHH____, LSH ____, LSL ____, LSLL ____	✓
C	Electrical Components	Test Pumps (Y or (N)), Light Bulbs ✓	✓
D	Manhole Interstitial Space		✓
E	Conveyance Pipe		✓
F	Influent Pipe	Drip	✓
G	Confined Space Entry	(Y or (N)) (see Form B)	✓

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 2/4/2011

Category		Inspected	Observation/Condition	✓
5	**Building**			
	A	Structure	Lock ✓, Vent ✓, Heater ✓ ON	✓
	B	Electrical and Telephone	Elec ✓ Phone ✓	✓
	C	Auto Dialer and Controls	Test Functions (Y or (N)) (see Form F)	✓
6	**Leachate Storage System**			
	A	Tank (External)	Internal (Y or (N)) Not Used	✓
	A'	Flow Totalizer	Reading = 76800 gal. Discharged ~ 1,000 gallons	✓
	B	Secondary Containment	Liquid (Y or (N))	✓
	C	Piping Components		✓
	D	Electrical Components	Lock ✓ Light Bulbs ✓	✓
	E	Leachate Sampling	(Y or (N)) (see Form C)	✓

Additional Comments:

Outfall 03B - Discharge

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 3/18/2011

Category		Inspected	Observation/Condition	✓
1	**General Property**			
	A	General Property Access	Good	
	B	General Property Drainage	SPDES Outfall (001____ 002____ 003____)	
2	**Cell Perimeter Components**			
	A	Perimeter and Access Roads	Good	
	B	Ditches	Clear	
	C	Culverts	Clear	
	D	Perimeter Fence	Gates /	
	E	Utilities	Elec. / Phone /	
3	**Containment Cell**			
	A	Surface Cover System	Burrows 0 Vegetation /	
	B	Gas Vents (2)		
	B'	PID Readings	(Y or (N)) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	
	C	Collection Pipe / Cleanout		
	D	Perimeter Drains (4)	No Flow	
4	**Leachate Collection Manhole**			
	A	Structure	External / Internal /	
	B	Pumps and Plumbing	Pump 1 Hours 132.2 Pump 2 Hours 267.1	
	B'	Pump Changeover	(Y or (N)) Lead Pump _____ Lag Pump_____	
	B"	Test Automatic Pump Controls	LSHH_____, LSH ____, LSL ____, LSLL _____	
	C	Electrical Components	Test Pumps (Y or (N)), Light Bulbs_____	
	D	Manhole Interstitial Space		
	E	Conveyance Pipe		
	F	Influent Pipe		
	G	Confined Space Entry	(Y or (N)) (see Form B)	

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 3/18/2014

Category		Inspected	Observation/Condition	✓
5	**Building**			
	A	Structure	Lock 1, Vent 1, Heater 1	1
	B	Electrical and Telephone	Elec 1 Phone____	1
	C	Auto Dialer and Controls	Test Functions (Y or (N)) (see Form F)	1
6	**Leachate Storage System**			
	A	Tank (External)	Internal (Y or (N)) Not Used	1
	A'	Flow Totalizer	Reading = 76800 gal.	1
	B	Secondary Containment	Liquid (Y or (N))	1
	C	Piping Components		1
	D	Electrical Components	Lock____ Light Bulbs____	1
	E	Leachate Sampling	(Y or (N)) (see Form C)	1

Additional Comments:

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 4/1/2011

Category		Inspected	Observation/Condition	✓
1	**General Property**			
	A	General Property Access	Good	
	B	General Property Drainage	SPDES Outfall (001 / 002 / 003 /)	
2	**Cell Perimeter Components**			
	A	Perimeter and Access Roads	Good	
	B	Ditches	Good	
	C	Culverts	Clear / No Flow	
	D	Perimeter Fence	Gates /	
	E	Utilities	Elec. / Phone /	
3	**Containment Cell**			
	A	Surface Cover System	Burrows 0 Vegetation /	
	B	Gas Vents (2)		
	B'	PID Readings	(Y or (N)) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	
	C	Collection Pipe / Cleanout	Not Viewed	
	D	Perimeter Drains (4)	No Flow	
4	**Leachate Collection Manhole**			
	A	Structure	External / Internal /	
	B	Pumps and Plumbing	Pump 1 Hours 1332 Pump 2 Hours 2025	
	B'	Pump Changeover	(Y or (N)) Lead Pump _____ Lag Pump _____ off	
	B"	Test Automatic Pump Controls	LSHH_____, LSH _____, LSL _____, LSLL _____	
	C	Electrical Components	Test Pumps (Y or (N)) Light Bulbs_____	
	D	Manhole Interstitial Space	Drip	
	E	Conveyance Pipe	Drip	
	F	Influent Pipe		
	G	Confined Space Entry	(Y or (N)) (see Form B)	

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 4/1/2011

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock ✓, Vent ✓, Heater ✓	✓
B	Electrical and Telephone	Elec ✓ Phone ✓	✓
C	Auto Dialer and Controls	Test Functions (Y or (N)) (see Form F)	✓
6 Leachate Storage System			
A	Tank (External)	Internal (Y or (N)) off-line	✓
A'	Flow Totalizer	Reading = 76800 gal.	✓
B	Secondary Containment	Liquid (Y or (N))	✓
C	Piping Components		✓
D	Electrical Components	Lock ✓ Light Bulbs ✓	✓
E	Leachate Sampling	(Y or (N)) (see Form C)	✓

Additional Comments:

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 4/15/2011

Category		Inspected	Observation/Condition	✓
1	**General Property**			
	A	General Property Access	Good	✓
	B	General Property Drainage	SPDES Outfall (001 ✓ 002 ✓ 003 ✓)	✓
2	**Cell Perimeter Components**			
	A	Perimeter and Access Roads	Good	✓
	B	Ditches	Good	✓
	C	Culverts	clear	✓
	D	Perimeter Fence	Gates ✓	✓
	E	Utilities	Elec. ✓ Phone ✓	✓
3	**Containment Cell**			
	A	Surface Cover System	Burrows ✓ Vegetation ✓	✓
	B	Gas Vents (2)		✓
	B'	PID Readings	(Y or (N)) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	✓
	C	Collection Pipe / Cleanout		✓
	D	Perimeter Drains (4)		✓
4	**Leachate Collection Manhole**			
	A	Structure	External___ Internal___	✓
	B	Pumps and Plumbing	Pump 1 Hours 133.2 Pump 2 Hours 267.2	✓
	B'	Pump Changeover	(Y or (N)) Lead Pump _____ Lag Pump_____ off Line	✓
	B"	Test Automatic Pump Controls	LSHH_____, LSH ____, LSL ____, LSLL _____	✓
	C	Electrical Components	Test Pumps (Y or (N)) Light Bulbs 1	✓
	D	Manhole Interstitial Space	Good	✓
	E	Conveyance Pipe		✓
	F	Influent Pipe	Drip	✓
	G	Confined Space Entry	(Y or (N)) (see Form B)	✓

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 4/15/2011

Category	Inspected	Observation/Condition	✓
5 Building			
A	Structure	Lock /, Vent /, Heater OFF	
B	Electrical and Telephone	Elec / Phone /	
C	Auto Dialer and Controls	Test Functions (Y or (N)) (see Form F)	
6 Leachate Storage System			
A	Tank (External)	Internal (Y or (N)) Not Used	
A'	Flow Totalizer	Reading = 768 00 gal.	
B	Secondary Containment	Liquid (Y or (N))	
C	Piping Components		
D	Electrical Components	Lock / Light Bulbs____	
E	Leachate Sampling	((Y) or N) (see Form C)	

Additional Comments: SPDES Sampling Including outfall-03B

synapse

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 5/12/2011

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	Good	
B	General Property Drainage	SPDES Outfall (001 / 002 / 003 /)	
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Good	
B	Ditches	Good	
C	Culverts	Good	
D	Perimeter Fence	Gates /	
E	Utilities	Elec. / Phone /	
3 Containment Cell			
A	Surface Cover System	Burrows 0 Vegetation /	
B	Gas Vents (2)		
B'	PID Readings	(Y or (N)) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	
C	Collection Pipe / Cleanout	NO Viewed	
D	Perimeter Drains (4)	Flow	
4 Leachate Collection Manhole			
A	Structure	External / Internal /	
B	Pumps and Plumbing	Pump 1 Hours 13471 Pump 2 Hours 26863	
B'	Pump Changeover	(Y or (N)) Lead Pump ____ Lag Pump____ HAND	
B"	Test Automatic Pump Controls	LSHH____, LSH ____, LSL ____, LSLL ____	
C	Electrical Components	Test Pumps (Y or (N)) Light Bulbs /	
D	Manhole Interstitial Space		
E	Conveyance Pipe		
F	Influent Pipe		
G	Confined Space Entry	(Y or (N)) (see Form B)	

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 5/12/2011

Category		Inspected	Observation/Condition	✓
5	**Building**			
A	Structure		Lock ✓, Vent ✓, Heater ✓	✓
B	Electrical and Telephone		Elec ✓ Phone ✓	✓
C	Auto Dialer and Controls		Test Functions (Y or (N)) (see Form F)	✓
6	**Leachate Storage System**			
A	Tank (External)		Internal (Y or (N)) Not in use	✓
A'	Flow Totalizer		Reading = 775 00 gal.	✓
B	Secondary Containment		Liquid (Y or (N))	✓
C	Piping Components			✓
D	Electrical Components		Lock ✓ Light Bulbs ✓	✓
E	Leachate Sampling		(Y or (N)) (see Form C)	✓

Additional Comments:

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 6/24/2011

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	Good	✓
B	General Property Drainage	SPDES Outfall (001 ✓ 002 ✓ 003 ✓)	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Good	✓
B	Ditches	Good	✓
C	Culverts	✓	✓
D	Perimeter Fence	Gates ✓	✓
E	Utilities	Elec. ✓ Phone ✓	✓
3 Containment Cell			
A	Surface Cover System	Burrows 2 Vegetation____	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or (N)) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	✓
C	Collection Pipe / Cleanout		✓
D	Perimeter Drains (4)	No Flow	✓
4 Leachate Collection Manhole			
A	Structure	External___ Internal___	✓
B	Pumps and Plumbing	Pump 1 Hours 134.1 Pump 2 Hours 265.4	✓
B'	Pump Changeover	(Y or (N)) Lead Pump ____ Lag Pump____	✓
B"	Test Automatic Pump Controls	LSHH ✓, LSH ✓, LSL ✓, LSLL ✓	✓
C	Electrical Components	Test Pumps ((Y)) or N), Light Bulbs 1	✓
D	Manhole Interstitial Space		✓
E	Conveyance Pipe		✓
F	Influent Pipe		✓
G	Confined Space Entry	(Y or (N)) (see Form B)	✓

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 6/24/2011

Category		Inspected	Observation/Condition	✓
5	**Building**			
A	Structure		Lock ✓, Vent ✓, Heater ✓	✓
B	Electrical and Telephone		Elec ✓ Phone ✓	✓
C	Auto Dialer and Controls		Test Functions (Y or (N)) (see Form F)	✓
6	**Leachate Storage System**			
A	Tank (External)		Internal (Y or (N))	✓
A'	Flow Totalizer		Reading = 775 00 gal.	✓
B	Secondary Containment		Liquid (Y or (N))	✓
C	Piping Components			✓
D	Electrical Components		Lock ✓ Light Bulbs ✓	✓
E	Leachate Sampling		(Y or (N)) (see Form C)	✓

Additional Comments:

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 7/8/2011

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	Good	
B	General Property Drainage	SPDES Outfall (001 / 002 / 003 /)	
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Good	
B	Ditches	Good	
C	Culverts	Good	
D	Perimeter Fence	Gates /	
E	Utilities	Elec. / Phone /	
3 Containment Cell			
A	Surface Cover System	Burrows / Vegetation /	
B	Gas Vents (2)		
B'	PID Readings	(Y or N) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	
C	Collection Pipe / Cleanout		
D	Perimeter Drains (4)		
4 Leachate Collection Manhole			
A	Structure	External / Internal /	
B	Pumps and Plumbing	Pump 1 Hours 134.1 Pump 2 Hours 268.4	
B'	Pump Changeover	(Y or N) Lead Pump ____ Lag Pump____ off	
B"	Test Automatic Pump Controls	LSHH____, LSH ____, LSL ____, LSLL ____	
C	Electrical Components	Test Pumps (Y or N) Light Bulbs____	
D	Manhole Interstitial Space		
E	Conveyance Pipe		
F	Influent Pipe		
G	Confined Space Entry	(Y or N) (see Form B)	

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 7/8/2011

Category		Inspected	Observation/Condition	✓
5	**Building**			
	A	Structure	Lock ✓, Vent ✓, Heater ✓	✓
	B	Electrical and Telephone	Elec ✓ Phone ✓	✓
	C	Auto Dialer and Controls	Test Functions (Y or (N)) (see Form F)	✓
6	**Leachate Storage System**			✓
	A	Tank (External)	Internal (Y or (N))	✓
	A'	Flow Totalizer	Reading = 7500 gal.	✓
	B	Secondary Containment	Liquid (Y or (N))	✓
	C	Piping Components		✓
	D	Electrical Components	Lock ✓ Light Bulbs ✓	✓
	E	Leachate Sampling	(Y or (N)) (see Form C)	✓

Additional Comments:

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 8/5/2011

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	Good	✓
B	General Property Drainage	SPDES Outfall (001 ✓ 002 ✓ 003 ✓)	
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Good	✓
B	Ditches	Good	✓
C	Culverts	Clear / No Flow	✓
D	Perimeter Fence	Gates ✓	✓
E	Utilities	Elec. ✓ Phone ✓	✓
3 Containment Cell			
A	Surface Cover System	Burrows ✓ Vegetation ✓	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or (N)) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	✓
C	Collection Pipe / Cleanout	No Viewed	✓
D	Perimeter Drains (4)	No Flow	✓
4 Leachate Collection Manhole			
A	Structure	External ✓ Internal ✓	
B	Pumps and Plumbing	Pump 1 Hours 233.1 Pump 2 Hours 261.1	
B'	Pump Changeover	(Y or (N)) Lead Pump _____ Lag Pump _____ off	
B"	Test Automatic Pump Controls	LSHH_____, LSH _____, LSL _____, LSLL _____	
C	Electrical Components	Test Pumps (Y or (N)), Light Bulbs_____	
D	Manhole Interstitial Space		
E	Conveyance Pipe		
F	Influent Pipe		
G	Confined Space Entry	(Y or (N)) (see Form B)	

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 8/5/2011

Category		Inspected	Observation/Condition	✓
5	**Building**			
	A	Structure	Lock /, Vent /, Heater /	/
	B	Electrical and Telephone	Elec / Phone /	/
	C	Auto Dialer and Controls	Test Functions (Y or (N)) (see Form F)	/
6	**Leachate Storage System**			
	A	Tank (External)	Internal (Y or (N))	/
	A'	Flow Totalizer	Reading = 7750 gal.	/
	B	Secondary Containment	Liquid (Y or (N))	/
	C	Piping Components		/
	D	Electrical Components	Lock / Light Bulbs /	/
	E	Leachate Sampling	(Y or (N)) (see Form C)	/

Additional Comments:

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 9/26/2011

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	Good	
B	General Property Drainage	SPDES Outfall (001 ✓ 002 ✓ 003 ✓)	
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Good	
B	Ditches	Good / Need Mowing	
C	Culverts	Good	
D	Perimeter Fence	Gates ✓	
E	Utilities	Elec. ✓ Phone ✓	
3 Containment Cell			
A	Surface Cover System	Burrows ✓ Vegetation ✓	
B	Gas Vents (2)		
B'	PID Readings	(Y or (N)) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	
C	Collection Pipe / Cleanout		
D	Perimeter Drains (4)		
4 Leachate Collection Manhole			
A	Structure	External ✓ Internal ✓	
B	Pumps and Plumbing	Pump 1 Hours 133.1 Pump 2 Hours 268.7	
B'	Pump Changeover	(Y or (N)) Lead Pump ___ Lag Pump ___ off	
B"	Test Automatic Pump Controls	LSHH ___, LSH ___, LSL ___, LSLL ___	
C	Electrical Components	Test Pumps (Y or (N)), Light Bulbs ___	
D	Manhole Interstitial Space		
E	Conveyance Pipe		
F	Influent Pipe		
G	Confined Space Entry	(Y or (N)) (see Form B)	

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 9/26/2011

Category		Inspected	Observation/Condition	✓
5	**Building**			
A		Structure	Lock ✓, Vent ✓, Heater ✓	
B		Electrical and Telephone	Elec ✓ Phone ✓	
C		Auto Dialer and Controls	Test Functions (Y or (N)) (see Form F)	
6	**Leachate Storage System**			
A		Tank (External)	Internal (Y or (N))	
A'		Flow Totalizer	Reading = 77500 gal.	
B		Secondary Containment	Liquid (Y or (N))	
C		Piping Components		
D		Electrical Components	Lock ✓ Light Bulbs ✓	
E		Leachate Sampling	(Y or (N)) (see Form C)	

Additional Comments:

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 10/22/2011

Category		Inspected	Observation/Condition	✓
1	**General Property**			
	A	General Property Access	Good	✓
	B	General Property Drainage	SPDES Outfall (001 ✓ 002 ✓ 003 ✓)	✓
2	**Cell Perimeter Components**			
	A	Perimeter and Access Roads	Good	✓
	B	Ditches	Good	✓
	C	Culverts		✓
	D	Perimeter Fence	Gates ✓	✓
	E	Utilities	Elec. ✓ Phone ✓	✓
3	**Containment Cell**			
	A	Surface Cover System	Burrows 0 Vegetation ✓	✓
	B	Gas Vents (2)		✓
	B'	PID Readings	(Y or (N)) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	✓
	C	Collection Pipe / Cleanout	Not Viewed	✓
	D	Perimeter Drains (4)	No Flow	✓
4	**Leachate Collection Manhole**			
	A	Structure	External ✓ Internal ✓	✓
	B	Pumps and Plumbing	Pump 1 Hours 1342 Pump 2 Hours 219	✓
	B'	Pump Changeover	(Y or (N)) Lead Pump _____ Lag Pump_____	✓
	B"	Test Automatic Pump Controls	LSHH_____, LSH _____, LSL _____, LSLL _____	✓
	C	Electrical Components	Test Pumps (Y or (N)), Light Bulbs_____	✓
	D	Manhole Interstitial Space		✓
	E	Conveyance Pipe		✓
	F	Influent Pipe		✓
	G	Confined Space Entry	(Y or (N)) (see Form B)	✓

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 10/20/2011

Category		Inspected	Observation/Condition	✓
5	**Building**			
A	Structure		Lock /, Vent /, Heater /	✓
B	Electrical and Telephone		Elec / Phone /	✓
C	Auto Dialer and Controls		Test Functions (Y or (N)) (see Form F)	✓
6	**Leachate Storage System**			
A	Tank (External)		Internal (Y or (N)) Not used	✓
A'	Flow Totalizer		Reading = 00 gal.	✓
B	Secondary Containment		Liquid (Y or (N))	✓
C	Piping Components			✓
D	Electrical Components		Lock____ Light Bulbs____	✓
E	Leachate Sampling		(Y or (N)) (see Form C)	✓

Additional Comments:

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 11/16/2011

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	Good	✓
B	General Property Drainage	SPDES Outfall (001 ✓ 002 ✓ 003 ✓)	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads	Good	✓
B	Ditches	Good	✓
C	Culverts	Flow	✓
D	Perimeter Fence	Gates ✓	✓
E	Utilities	Elec. ✓ Phone ✓	✓
3 Containment Cell			
A	Surface Cover System	Burrows 0 Vegetation ✓	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or N) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	✓
C	Collection Pipe / Cleanout		✓
D	Perimeter Drains (4)		✓
4 Leachate Collection Manhole			✓
A	Structure	External ✓ Internal ✓	✓
B	Pumps and Plumbing	Pump 1 Hours 243 Pump 2 Hours 29.9	✓
B'	Pump Changeover	(Y or N) Lead Pump _____ Lag Pump _____ HAND only	✓
B"	Test Automatic Pump Controls	LSHH_____, LSH ____, LSL ____, LSLL _____	✓
C	Electrical Components	Test Pumps (Y or N), Light Bulbs_____	✓
D	Manhole Interstitial Space		✓
E	Conveyance Pipe	Not online	✓
F	Influent Pipe		✓
G	Confined Space Entry	(Y or N) (see Form B)	✓

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 11/16/2011

Category		Inspected	Observation/Condition	✓
5	**Building**			
A		Structure	Lock ✓ Vent ✓ Heater ✓	✓
B		Electrical and Telephone	Elec ✓ Phone____	✓
C		Auto Dialer and Controls	Test Functions (Y or (N)) (see Form F)	✓
6	**Leachate Storage System**			
A		Tank (External)	Internal (Y or (N))	
A'		Flow Totalizer	Reading = 733 00 gal.	
B		Secondary Containment	Liquid (Y or (N))	
C		Piping Components		
D		Electrical Components	Lock____ Light Bulbs____	
E		Leachate Sampling	(Y or (N)) (see Form C)	

Additional Comments:

pump out Manhole to outfall - 03B
2300 gallons

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: FISHER + CREIGHTON Date: 12/21/11

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access		✓
B	General Property Drainage	SPDES Outfall (001 ✓ 002 ✓ 003 ✓) 003B ✓	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads	FIRM	✓
B	Ditches	WITH VEGETATION	✓
C	Culverts	OPEN	✓
D	Perimeter Fence	Gates ✓ USE WEST GATE	✓
E	Utilities	Elec. ✓ Phone ✓	✓
3 Containment Cell			
A	Surface Cover System	Burrows ✓ LIMITED Vegetation ✓ MAY NEED SPOT SEED	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or N) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	✓
C	Collection Pipe / Cleanout		✓
D	Perimeter Drains (4)		✓
4 Leachate Collection Manhole			
A	Structure	External ✓ Internal ✓	✓
B	Pumps and Plumbing	Pump 1 Hours 134.4 Pump 2 Hours 219.9 HAND OPERATE ONLY	✓
B'	Pump Changeover	(Y or N) Lead Pump _____ Lag Pump _____ N/A "	✓
B"	Test Automatic Pump Controls	LSHH_____, LSH _____, LSL _____, LSLL _____ N/A "	✓
C	Electrical Components	Test Pumps (Y or N), Light Bulbs ✓	✓
D	Manhole Interstitial Space	PUMP WATER OUT	✓
E	Conveyance Pipe	NOT OPERATIONAL	✓
F	Influent Pipe		✓
G	Confined Space Entry	(Y or N) (see Form B)	✓

RAF MONTHLY INSPECTION REPORT (FORM A)
OPERATION, MAINTENANCE AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: FISHER & CREIGHTON Date: 12/21/11

Category		Inspected	Observation/Condition	✓
5	**Building**			
A	Structure		Lock ✓, Vent ✓, Heater ON CLOSE	✓
B	Electrical and Telephone		Elec ✓ Phone ✓	✓
C	Auto Dialer and Controls		Test Functions (Y or N) (see Form F)	✓
6	**Leachate Storage System**			
A	Tank (External)		Internal (Y or N) EMPTY	✓
A'	Flow Totalizer		Reading = 18300 gal. NOT OPERATIONAL	✓
B	Secondary Containment		Liquid (Y or N)	✓
C	Piping Components			✓
D	Electrical Components		Lock ___ Light Bulbs ___	✓
E	Leachate Sampling		(Y or N) (see Form C)	✓

Additional Comments:

APPENDIX B
AUTO DIALER ALARM INCIDENT AND TESTING REPORT - FORM F

2011 PERIODIC REVIEW REPORT

2200 BLEECKER STREET
UTICA, NEW YORK 13501
NYSDEC SITE NO. 622003

SEPTEMBER 2012

AUTO DIALER ALARM INCIDENT AND TESTING REPORT (FORM F)
OPERATION, MAINTENANCE, AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: FISHER + CREIGHTON Received Alarm: Y or (N)

Tested Alarm: (Y) or N Date Received: _____

Date Tested: 12/21/11 Time Received: _____

Channel No.	Function	Alarm Rec'd	Testing Results
1	Tank Level (@ 80%)	OFF	Measured: _____ Reading: _____ N/A
2	Tank High Level (100%)	OFF	N/A
3	Tank Leak	OFF	N/A
4	Tank 90% Full	OFF	N/A
5	High Manhole Level		OK
6	Manhole Leak		OK
7	Pipe Leak	OFF	N/A
8	Tank Low Temperature	OFF	N/A
9	Inside Temperature		63° F.
10	Outside Temperature		53° F ?
11-15	Not In Use	OFF	—
16	Power Off		NO BATTERIE

Reason for Alarm: _____

Action Taken: ADJUST UNIT CALL-OUT

Comments: MH INTERSTITIAL SPACE - POMPED OUT WATER. MH COVER LEAKING INTO SPACE, NEED CAULKING

synapse

APPENDIX C
LEACHATE DISPOSAL CORRESPONDENCE AND ANALYTICAL DATA

2011 PERIODIC REVIEW REPORT

2200 BLEECKER STREET
UTICA, NEW YORK 13501
NYSDEC SITE NO. 622003

SEPTEMBER 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 480-15256-1
Client Project/Site: 2200 Bleeker St. 03B Quarterly

For:
Synapse Risk Management, LLC
Historic Risk Management LLC
360 Erie Blvd. East, 2nd Floor
Syracuse, New York 13202

Attn: Mr. Roger R Creighton

Denise L Giglia

Authorized for release by:
2/3/2012 11:47:00 AM
Denise Giglia
Project Manager I
denise.giglia@testamericainc.com

Designee for

Melissa Deyo
Project Manager I
melissa.deyo@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-15256-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-15256-1

Job ID: 480-15256-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-15256-1

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS Semi VOA
Method 625: Surrogate recovery was outside control limits for the following method blank : (MB 480-49280/1-A). Re-preparation and re-anaylsis is required for all associated samples.

No other analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
Method 200.7 Rev 4.4: The Method Blank for batch 480-48991 contained total copper and zinc above the method detection limits. These target analyte concentrations were less than the reporting limits (RLs); therefore, re-extraction and/or re-analysis of sample OUTFALL 003B (480-15256-1) was not performed.

No other analytical or quality issues were noted.

General Chemistry
Method SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample(s) has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: OUTFALL 003B (480-15256-1)

No other analytical or quality issues were noted.

Organic Prep
Method 625: Re-extraction of the following samples was performed outside of the preparation holding time: OUTFALL 003B (480-15256-1).

No other analytical or quality issues were noted.

Detection Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-15256-1

Client Sample ID: OUTFALL 003B — **Lab Sample ID: 480-15256-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.021	B	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Nickel	0.0067	J	0.010	0.0013	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.024	B	0.010	0.0017	mg/L	1		200.7 Rev 4.4	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.58	HF	0.100	0.100	SU	1		SM 4500 H+ B	Total/NA

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-15256-1

Client Sample ID: OUTFALL 003B

Date Collected: 01/20/12 14:30
Date Received: 01/21/12 09:00

Lab Sample ID: 480-15256-1

Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		9.4	0.81	ug/L		01/25/12 15:45	01/26/12 19:54	1
Bis(2-ethylhexyl) phthalate	ND	H	9.4	0.81	ug/L		01/31/12 07:40	02/02/12 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*90*		*44 - 120*	*01/25/12 15:45*	*01/26/12 19:54*	*1*
2-Fluorobiphenyl	*83*		*44 - 120*	*01/31/12 07:40*	*02/02/12 17:25*	*1*
Nitrobenzene-d5	*89*		*42 - 120*	*01/25/12 15:45*	*01/26/12 19:54*	*1*
Nitrobenzene-d5	*87*		*42 - 120*	*01/31/12 07:40*	*02/02/12 17:25*	*1*
p-Terphenyl-d14	*88*		*22 - 125*	*01/25/12 15:45*	*01/26/12 19:54*	*1*
p-Terphenyl-d14	*99*		*22 - 125*	*01/31/12 07:40*	*02/02/12 17:25*	*1*

Method: 608 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		0.48	0.013	ug/L		01/25/12 07:14	01/28/12 05:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*34*		*26 - 145*	*01/25/12 07:14*	*01/28/12 05:55*	*1*
Tetrachloro-m-xylene	*74*		*25 - 152*	*01/25/12 07:14*	*01/28/12 05:55*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	**0.021**	**B**	0.010	0.0015	mg/L		01/24/12 08:15	01/25/12 20:16	1
Lead	ND		0.0050	0.0030	mg/L		01/24/12 08:15	01/25/12 20:16	1
Nickel	**0.0067**	**J**	0.010	0.0013	mg/L		01/24/12 08:15	01/25/12 20:16	1
Zinc	**0.024**	**B**	0.010	0.0017	mg/L		01/24/12 08:15	01/25/12 20:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		4.8	1.3	mg/L		01/24/12 12:42	01/24/12 12:46	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			01/23/12 15:41	1
pH	**7.58**	**HF**	0.100	0.100	SU			01/23/12 20:08	1

Surrogate Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-15256-1

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(44-120)	(42-120)	(22-125)
480-15256-1	OUTFALL 003B	90	89	88
480-15256-1	OUTFALL 003B	83	87	99
LCS 480-49280/2-A	Lab Control Sample	94	88	107
LCS 480-49800/2-A	Lab Control Sample	92	97	111
LCSD 480-49280/3-A	Lab Control Sample Dup	88	95	115
LCSD 480-49800/3-A	Lab Control Sample Dup	85	91	110
MB 480-49280/1-A	Method Blank	108	103	133 X
MB 480-49800/1-A	Method Blank	84	87	112

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPH = p-Terphenyl-d14

Method: 608 - Organochlorine Pesticides in Water

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(26-145)	(25-152)
480-15256-1	OUTFALL 003B	34	74
LCS 480-49163/2-A	Lab Control Sample	41	73
MB 480-49163/1-A	Method Blank	35	70

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-49280/1-A
Matrix: Water
Analysis Batch: 49368

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49280

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		10	0.86	ug/L		01/25/12 15:45	01/26/12 16:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*108*		*44 - 120*	*01/25/12 15:45*	*01/26/12 16:20*	*1*
Nitrobenzene-d5	*103*		*42 - 120*	*01/25/12 15:45*	*01/26/12 16:20*	*1*
p-Terphenyl-d14	*133*	*X*	*22 - 125*	*01/25/12 15:45*	*01/26/12 16:20*	*1*

Lab Sample ID: LCS 480-49280/2-A
Matrix: Water
Analysis Batch: 49368

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49280

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Bis(2-ethylhexyl) phthalate			100	113		ug/L		113	8 - 158		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*94*		*44 - 120*
Nitrobenzene-d5	*88*		*42 - 120*
p-Terphenyl-d14	*107*		*22 - 125*

Lab Sample ID: LCSD 480-49280/3-A
Matrix: Water
Analysis Batch: 49368

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49280

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate			100	111		ug/L		111	8 - 158	1	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*88*		*44 - 120*
Nitrobenzene-d5	*95*		*42 - 120*
p-Terphenyl-d14	*115*		*22 - 125*

Lab Sample ID: MB 480-49800/1-A
Matrix: Water
Analysis Batch: 50173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		10	0.86	ug/L		01/31/12 07:40	02/02/12 16:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*84*		*44 - 120*	*01/31/12 07:40*	*02/02/12 16:15*	*1*
Nitrobenzene-d5	*87*		*42 - 120*	*01/31/12 07:40*	*02/02/12 16:15*	*1*
p-Terphenyl-d14	*112*		*22 - 125*	*01/31/12 07:40*	*02/02/12 16:15*	*1*

Method: 625 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-49800/2-A
Matrix: Water
Analysis Batch: 50173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49800

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Bis(2-ethylhexyl) phthalate			100	107		ug/L		107	8 - 158		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*92*		*44 - 120*
Nitrobenzene-d5	*97*		*42 - 120*
p-Terphenyl-d14	*111*		*22 - 125*

Lab Sample ID: LCSD 480-49800/3-A
Matrix: Water
Analysis Batch: 50173

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49800

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate			100	105		ug/L		105	8 - 158	2	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*85*		*44 - 120*
Nitrobenzene-d5	*91*		*42 - 120*
p-Terphenyl-d14	*110*		*22 - 125*

Method: 608 - Organochlorine Pesticides in Water

Lab Sample ID: MB 480-49163/1-A
Matrix: Water
Analysis Batch: 49491

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49163

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		0.50	0.014	ug/L		01/25/12 07:14	01/27/12 16:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*35*		*26 - 145*	*01/25/12 07:14*	*01/27/12 16:46*	*1*
Tetrachloro-m-xylene	*70*		*25 - 152*	*01/25/12 07:14*	*01/27/12 16:46*	*1*

Lab Sample ID: LCS 480-49163/2-A
Matrix: Water
Analysis Batch: 49491

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49163

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methoxychlor			0.500	0.648		ug/L		130	52 - 142		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*41*		*26 - 145*
Tetrachloro-m-xylene	*73*		*25 - 152*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-48991/1-A
Matrix: Water
Analysis Batch: 49349

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48991

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.00162	J	0.010	0.0015	mg/L		01/24/12 08:15	01/25/12 19:18	1
Lead	ND		0.0050	0.0030	mg/L		01/24/12 08:15	01/25/12 19:18	1
Nickel	ND		0.010	0.0013	mg/L		01/24/12 08:15	01/25/12 19:18	1
Zinc	0.00220	J	0.010	0.0017	mg/L		01/24/12 08:15	01/25/12 19:18	1

Lab Sample ID: LCS 480-48991/2-A
Matrix: Water
Analysis Batch: 49349

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 48991

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.200	0.212		mg/L		106	85 - 115
Lead	0.200	0.201		mg/L		101	85 - 115
Nickel	0.200	0.200		mg/L		100	85 - 115
Zinc	0.200	0.203		mg/L		102	85 - 115

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 480-49110/2-A
Matrix: Water
Analysis Batch: 49111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49110

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.0	1.4	mg/L		01/24/12 12:42	01/24/12 12:46	1

Lab Sample ID: LCS 480-49110/1-A
Matrix: Water
Analysis Batch: 49111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49110

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease	40.0	40.00		mg/L		100	78 - 114

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-48997/1
Matrix: Water
Analysis Batch: 48997

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			01/23/12 15:25	1

Lab Sample ID: LCS 480-48997/2
Matrix: Water
Analysis Batch: 48997

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	212	229.6		mg/L		109	88 - 110

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-15256-1

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-49025/1
Matrix: Water
Analysis Batch: 49025

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
pH			7.00	6.960		SU		99	99 - 101		

GC/MS Semi VOA

Prep Batch: 49280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-15256-1	OUTFALL 003B	Total/NA	Water	625	
LCS 480-49280/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-49280/3-A	Lab Control Sample Dup	Total/NA	Water	625	
MB 480-49280/1-A	Method Blank	Total/NA	Water	625	

Analysis Batch: 49368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-15256-1	OUTFALL 003B	Total/NA	Water	625	49280
LCS 480-49280/2-A	Lab Control Sample	Total/NA	Water	625	49280
LCSD 480-49280/3-A	Lab Control Sample Dup	Total/NA	Water	625	49280
MB 480-49280/1-A	Method Blank	Total/NA	Water	625	49280

Prep Batch: 49800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-15256-1	OUTFALL 003B	Total/NA	Water	625	
LCS 480-49800/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-49800/3-A	Lab Control Sample Dup	Total/NA	Water	625	
MB 480-49800/1-A	Method Blank	Total/NA	Water	625	

Analysis Batch: 50173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-15256-1	OUTFALL 003B	Total/NA	Water	625	49800
LCS 480-49800/2-A	Lab Control Sample	Total/NA	Water	625	49800
LCSD 480-49800/3-A	Lab Control Sample Dup	Total/NA	Water	625	49800
MB 480-49800/1-A	Method Blank	Total/NA	Water	625	49800

GC Semi VOA

Prep Batch: 49163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-15256-1	OUTFALL 003B	Total/NA	Water	3510C	
LCS 480-49163/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 480-49163/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 49491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-15256-1	OUTFALL 003B	Total/NA	Water	608	49163
LCS 480-49163/2-A	Lab Control Sample	Total/NA	Water	608	49163
MB 480-49163/1-A	Method Blank	Total/NA	Water	608	49163

Metals

Prep Batch: 48991

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-15256-1	OUTFALL 003B	Total/NA	Water	200.7	
LCS 480-48991/2-A	Lab Control Sample	Total/NA	Water	200.7	
MB 480-48991/1-A	Method Blank	Total/NA	Water	200.7	

Analysis Batch: 49349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-15256-1	OUTFALL 003B	Total/NA	Water	200.7 Rev 4.4	48991
LCS 480-48991/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	48991

Metals (Continued)

Analysis Batch: 49349 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-48991/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	48991

General Chemistry

Analysis Batch: 48997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-15256-1	OUTFALL 003B	Total/NA	Water	SM 2540D	
LCS 480-48997/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-48997/1	Method Blank	Total/NA	Water	SM 2540D	

Analysis Batch: 49025

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-15256-1	OUTFALL 003B	Total/NA	Water	SM 4500 H+ B	
LCS 480-49025/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Prep Batch: 49110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-15256-1	OUTFALL 003B	Total/NA	Water	1664A	
LCS 480-49110/1-A	Lab Control Sample	Total/NA	Water	1664A	
MB 480-49110/2-A	Method Blank	Total/NA	Water	1664A	

Analysis Batch: 49111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-15256-1	OUTFALL 003B	Total/NA	Water	1664A	49110
LCS 480-49110/1-A	Lab Control Sample	Total/NA	Water	1664A	49110
MB 480-49110/2-A	Method Blank	Total/NA	Water	1664A	49110

Lab Chronicle

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-15256-1

Client Sample ID: OUTFALL 003B
Date Collected: 01/20/12 14:30
Date Received: 01/21/12 09:00

Lab Sample ID: 480-15256-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			49280	01/25/12 15:45	DE	TAL BUF
Total/NA	Analysis	625		1	49368	01/26/12 19:54	AM	TAL BUF
Total/NA	Prep	625			49800	01/31/12 07:40	KV	TAL BUF
Total/NA	Analysis	625		1	50173	02/02/12 17:25	AM	TAL BUF
Total/NA	Prep	3510C			49163	01/25/12 07:14	MZ	TAL BUF
Total/NA	Analysis	608		1	49491	01/28/12 05:55	LW	TAL BUF
Total/NA	Prep	200.7			48991	01/24/12 08:15	SS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	49349	01/25/12 20:16	LH	TAL BUF
Total/NA	Analysis	SM 2540D		1	48997	01/23/12 15:41	KJ	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	49025	01/23/12 20:08	KS	TAL BUF
Total/NA	Prep	1664A			49110	01/24/12 12:42	JR	TAL BUF
Total/NA	Analysis	1664A		1	49111	01/24/12 12:46	JR	TAL BUF

Laboratory References:

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

Certification Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-15256-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	Georgia EPD	4	N/A
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	Kentucky UST	4	30
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
TestAmerica Buffalo	USDA	USDA		P330-08-00242
TestAmerica Buffalo	Virginia	NELAC Secondary AB	3	460185
TestAmerica Buffalo	Virginia	State Program	3	278
TestAmerica Buffalo	Washington	State Program	10	C1677
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-15256-1

Method	Method Description	Protocol	Laboratory
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
608	Organochlorine Pesticides in Water	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
1664A	HEM and SGT-HEM	1664A	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

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

Sample Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-15256-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-15256-1	OUTFALL 003B	Water	01/20/12 14:30	01/21/12 09:00

Chain of Custody Record

TestAmerica

Client Information	Sampler:	Lab PM: Giglia, Denise	Carrier Tracking No(s):	COC No: 480-20713-5220.1
Client Contact: Mr. Roger Creighton	Phone:	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 1
Company: Synapse Risk Management, LLC				Job #:
Address: Historic Risk Management LLC 360 Erie Blvd. East, 2nd Floor	Due Date Requested:			
City: Syracuse	TAT Requested (days):			
State, Zip: NY, 13202				
Phone: 315-475-3700(Tel) 315-475-3780(Fax)	PO #: Purchase Order not required			
Email: rcreighton@synapseriskmanagement.com	WO #:			
Project Name: 2200 Bleeker St. 03B Quarterly	Project #: 48002698			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	200.7 - (MOD) Local Method	1684A_Calc - Oil & Grease	608_Pest - (MOD) Local Method	625 - (MOD) Local Method	2540D - Total Suspended Solids	SM4500_Hh+_pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:			D	S	N	N	N	N		
Outfall 003B	1/20/2012	14:30	G	Water		1	2	2	2	1			

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

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

Special Instructions/QC Requirements:

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

	Date/Time	Company		Date/Time	Company
Relinquished by: R English	1/20/2012 15:50	SRM	Received by: R English	01-20-12, 15:50	Syr
Relinquished by:	01-20-12, 19:00	Syr	Received by:	1-21-12 900	BLC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.8#1

Login Sample Receipt Checklist

Client: Synapse Risk Management, LLC

Job Number: 480-15256-1

Login Number: 15256

List Source: TestAmerica Buffalo

List Number: 1

Creator: May, Joel M

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 480-21745-1
Client Project/Site: 2200 Bleeker St. 03B Quarterly

For:
Synapse Risk Management, LLC
Historic Risk Management LLC
360 Erie Blvd. East, 2nd Floor
Syracuse, New York 13202

Attn: Mr. Roger R Creighton

Melissa Deyo

Authorized for release by:
7/5/2012 2:19:59 PM

Melissa Deyo
Project Manager I
melissa.deyo@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-21745-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-21745-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-21745-1

Receipt
The sample was received on 6/23/2012 9:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice.
The temperature of the cooler at receipt was 3.6º C.

GC/MS Semi VOA
No analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
Method 200.7 Rev 4.4: The method blank for preparation batch 69883 contained Zinc above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-21745-1

Client Sample ID: OUTFALL 003B — **Lab Sample ID: 480-21745-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.035		0.010	0.0016	mg/L	1		200.7 Rev 4.4	Total/NA
Nickel	0.0057	J	0.010	0.0013	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.14	B	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-21745-1

Client Sample ID: OUTFALL 003B

Lab Sample ID: 480-21745-1

Date Collected: 06/22/12 15:15

Matrix: Water

Date Received: 06/23/12 09:00

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		9.7	0.84	ug/L		06/25/12 13:43	06/28/12 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*75*		*44 - 120*	*06/25/12 13:43*	*06/28/12 02:54*	*1*
Nitrobenzene-d5	*75*		*42 - 120*	*06/25/12 13:43*	*06/28/12 02:54*	*1*
p-Terphenyl-d14	*58*		*22 - 125*	*06/25/12 13:43*	*06/28/12 02:54*	*1*

Method: 608 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		0.48	0.014	ug/L		06/27/12 07:09	06/28/12 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*		*15 - 125*	*06/27/12 07:09*	*06/28/12 16:33*	*1*
Tetrachloro-m-xylene	*90*		*36 - 121*	*06/27/12 07:09*	*06/28/12 16:33*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	**0.035**		0.010	0.0016	mg/L		06/26/12 09:00	06/27/12 23:54	1
Lead	ND		0.0050	0.0030	mg/L		06/26/12 09:00	06/27/12 23:54	1
Nickel	**0.0057**	**J**	0.010	0.0013	mg/L		06/26/12 09:00	06/27/12 23:54	1
Zinc	**0.14**	**B**	0.010	0.0015	mg/L		06/26/12 09:00	06/27/12 23:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.0	1.4	mg/L		06/26/12 12:33	06/26/12 12:39	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			06/25/12 22:34	1

Surrogate Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-21745-1

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(44-120)	(42-120)	(22-125)
480-21745-1	OUTFALL 003B	75	75	58
LCS 480-69897/2-A	Lab Control Sample	70	68	92
MB 480-69897/1-A	Method Blank	69	67	88

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPH = p-Terphenyl-d14

Method: 608 - Organochlorine Pesticides in Water

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(15-125)	(36-121)
480-21745-1	OUTFALL 003B	85	90
LCS 480-70153/2-A	Lab Control Sample	75	80
MB 480-70153/1-A	Method Blank	71	69

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-21745-1

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-69897/1-A
Matrix: Water
Analysis Batch: 70166

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 69897

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		10	0.86	ug/L		06/25/12 13:43	06/28/12 00:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*69*		*44 - 120*	*06/25/12 13:43*	*06/28/12 00:06*	*1*
Nitrobenzene-d5	*67*		*42 - 120*	*06/25/12 13:43*	*06/28/12 00:06*	*1*
p-Terphenyl-d14	*88*		*22 - 120*	*06/25/12 13:43*	*06/28/12 00:06*	*1*

Lab Sample ID: LCS 480-69897/2-A
Matrix: Water
Analysis Batch: 70166

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 69897

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Bis(2-ethylhexyl) phthalate			100	95.0		ug/L		95	8 - 158		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*70*		*44 - 120*
Nitrobenzene-d5	*68*		*42 - 120*
p-Terphenyl-d14	*92*		*22 - 120*

Method: 608 - Organochlorine Pesticides in Water

Lab Sample ID: MB 480-70153/1-A
Matrix: Water
Analysis Batch: 70160

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 70153

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		0.50	0.014	ug/L		06/27/12 06:59	06/27/12 15:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*15 - 125*	*06/27/12 06:59*	*06/27/12 15:00*	*1*
Tetrachloro-m-xylene	*69*		*36 - 121*	*06/27/12 06:59*	*06/27/12 15:00*	*1*

Lab Sample ID: LCS 480-70153/2-A
Matrix: Water
Analysis Batch: 70160

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 70153

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methoxychlor			0.500	0.597		ug/L		119	47 - 166		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*75*		*15 - 125*
Tetrachloro-m-xylene	*80*		*36 - 121*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-69883/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 70385 — **Prep Batch: 69883**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.010	0.0016	mg/L		06/26/12 09:00	06/27/12 22:06	1
Lead	ND		0.0050	0.0030	mg/L		06/26/12 09:00	06/27/12 22:06	1
Nickel	ND		0.010	0.0013	mg/L		06/26/12 09:00	06/27/12 22:06	1
Zinc	0.00184	J	0.010	0.0015	mg/L		06/26/12 09:00	06/27/12 22:06	1

Lab Sample ID: LCS 480-69883/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 70385 — **Prep Batch: 69883**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	0.200	0.212		mg/L		106	85 - 115
Lead	0.200	0.211		mg/L		105	85 - 115
Nickel	0.200	0.212		mg/L		106	85 - 115
Zinc	0.200	0.228		mg/L		114	85 - 115

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 480-70061/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 70063 — **Prep Batch: 70061**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.0	1.4	mg/L		06/26/12 12:33	06/26/12 12:39	1

Lab Sample ID: LCS 480-70061/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 70063 — **Prep Batch: 70061**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease	40.0	39.00		mg/L		97	78 - 114

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-69950/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 69950

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			06/25/12 21:52	1

Lab Sample ID: LCS 480-69950/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 69950

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	226	220.4		mg/L		97	88 - 110

QC Association Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-21745-1

GC/MS Semi VOA

Prep Batch: 69897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-21745-1	OUTFALL 003B	Total/NA	Water	625	
LCS 480-69897/2-A	Lab Control Sample	Total/NA	Water	625	
MB 480-69897/1-A	Method Blank	Total/NA	Water	625	

Analysis Batch: 70166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-21745-1	OUTFALL 003B	Total/NA	Water	625	69897
LCS 480-69897/2-A	Lab Control Sample	Total/NA	Water	625	69897
MB 480-69897/1-A	Method Blank	Total/NA	Water	625	69897

GC Semi VOA

Prep Batch: 70153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-21745-1	OUTFALL 003B	Total/NA	Water	3510C	
LCS 480-70153/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 480-70153/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 70160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-70153/2-A	Lab Control Sample	Total/NA	Water	608	70153
MB 480-70153/1-A	Method Blank	Total/NA	Water	608	70153

Analysis Batch: 70377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-21745-1	OUTFALL 003B	Total/NA	Water	608	70153

Metals

Prep Batch: 69883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-21745-1	OUTFALL 003B	Total/NA	Water	200.7	
LCS 480-69883/2-A	Lab Control Sample	Total/NA	Water	200.7	
MB 480-69883/1-A	Method Blank	Total/NA	Water	200.7	

Analysis Batch: 70385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-21745-1	OUTFALL 003B	Total/NA	Water	200.7 Rev 4.4	69883
LCS 480-69883/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	69883
MB 480-69883/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	69883

General Chemistry

Analysis Batch: 69950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-21745-1	OUTFALL 003B	Total/NA	Water	SM 2540D	
LCS 480-69950/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-69950/1	Method Blank	Total/NA	Water	SM 2540D	

QC Association Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-21745-1

General Chemistry (Continued)

Prep Batch: 70061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-21745-1	OUTFALL 003B	Total/NA	Water	1664A	
LCS 480-70061/2-A	Lab Control Sample	Total/NA	Water	1664A	
MB 480-70061/1-A	Method Blank	Total/NA	Water	1664A	

Analysis Batch: 70063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-21745-1	OUTFALL 003B	Total/NA	Water	1664A	70061
LCS 480-70061/2-A	Lab Control Sample	Total/NA	Water	1664A	70061
MB 480-70061/1-A	Method Blank	Total/NA	Water	1664A	70061

Lab Chronicle

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-21745-1

Client Sample ID: OUTFALL 003B
Date Collected: 06/22/12 15:15
Date Received: 06/23/12 09:00

Lab Sample ID: 480-21745-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			69897	06/25/12 13:43	KB	TAL BUF
Total/NA	Analysis	625		1	70166	06/28/12 02:54	AM	TAL BUF
Total/NA	Prep	3510C			70153	06/27/12 07:09	TR	TAL BUF
Total/NA	Analysis	608		1	70377	06/28/12 16:33	LW	TAL BUF
Total/NA	Prep	200.7			69883	06/26/12 09:00	SS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	70385	06/27/12 23:54	MM	TAL BUF
Total/NA	Analysis	SM 2540D		1	69950	06/25/12 22:34	KS	TAL BUF
Total/NA	Prep	1664A			70061	06/26/12 12:33	JS	TAL BUF
Total/NA	Analysis	1664A		1	70063	06/26/12 12:39	JS	TAL BUF

Laboratory References:

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

Certification Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-21745-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	2973
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAC	3	460185
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-21745-1

Method	Method Description	Protocol	Laboratory
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
608	Organochlorine Pesticides in Water	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
1664A	HEM and SGT-HEM	1664A	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

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

Sample Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-21745-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-21745-1	OUTFALL 003B	Water	06/22/12 15:15	06/23/12 09:00

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: R. Creighton	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-25512-5220.1
Client Contact: Mr. Roger Creighton	Phone: 315.475.3700	E-Mail: melissa.deyo@testamericainc.com		Page: Page 1 of 1
Company: Synapse Risk Management, LLC				Job #:
Address: Historic Risk Management LLC 360 Erie Blvd. East, 2nd Floor	Due Date Requested:			
City: Syracuse	TAT Requested (days):			
State, Zip: NY, 13202				
Phone: 315-475-3700(Tel) 315-475-3780(Fax)	PO #: Purchase Order not required			
Email: rcreighton@synapseriskmanagement.com	WO #:			
Project Name: 2200 Bleeker St. 03B Quarterly	Project #: 48002698			
Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	[redacted]	200.7 - (MOD) Local Method	1664A_Calc - Oil & Grease	608_Pest - (MOD) Local Method	625 - (MOD) Local Method	2540D - Total Suspended Solids	9040B_pH - pH									Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	D	S	N	N	N	N									X	
Outfall 003B	6/22/2012	15:15	G	Water			1	2	2	2	1											

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	6/24/2012 16:31	SRA	[signature]	06-22-12, 16:31	SYA
2	[signature]	06-22-12, 19:00	SYA	[signature]	06/23/12 0900	TAB BUFFALO
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Cooler Temperature(s) °C and Other Remarks: 3.6 °C #3

Login Sample Receipt Checklist

Client: Synapse Risk Management, LLC

Job Number: 480-21745-1

Login Number: 21745

List Source: TestAmerica Buffalo

List Number: 1

Creator: May, Joel M

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 480-12670-1
Client Project/Site: 2200 Bleeker St. 03B Quarterly

For:
Synapse Risk Management, LLC
Historic Risk Management LLC
360 Erie Blvd. East, 2nd Floor
Syracuse, New York 13202

Attn: Mr. Roger R Creighton

Melissa Deyo

Authorized for release by:
11/28/2011 8:33:02 PM
Melissa Deyo
Project Administrator
melissa.deyo@testamericainc.com

Designee for

Denise Giglia
Project Manager I
denise.giglia@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-12670-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-12670-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-12670-1

Receipt
All samples were received in good condition within temperature requirements.

GC/MS Semi VOA
No analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

General Chemistry
Method SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: OUTFALL 003B (480-12670-1).

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-12670-1

Client Sample ID: OUTFALL 003B — **Lab Sample ID: 480-12670-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	0.027		0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Nickel	0.0058	J	0.010	0.0013	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.12		0.010	0.0017	mg/L	1		200.7 Rev 4.4	Total/NA

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.93	HF	0.100	0.100	SU	1		SM 4500 H+ B	Total/NA

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-12670-1

Client Sample ID: OUTFALL 003B
Date Collected: 11/11/11 14:40
Date Received: 11/12/11 08:50

Lab Sample ID: 480-12670-1
Matrix: Water

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		9.5	0.82	ug/L		11/15/11 14:06	11/18/11 22:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*44 - 120*	*11/15/11 14:06*	*11/18/11 22:50*	*1*
Nitrobenzene-d5	*75*		*42 - 120*	*11/15/11 14:06*	*11/18/11 22:50*	*1*
p-Terphenyl-d14	*69*		*22 - 125*	*11/15/11 14:06*	*11/18/11 22:50*	*1*

Method: 608 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		0.50	0.014	ug/L		11/16/11 16:07	11/18/11 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*51*		*26 - 145*	*11/16/11 16:07*	*11/18/11 12:43*	*1*
Tetrachloro-m-xylene	*72*		*25 - 152*	*11/16/11 16:07*	*11/18/11 12:43*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	**0.027**		0.010	0.0015	mg/L		11/15/11 07:30	11/16/11 10:44	1
Lead	ND		0.0050	0.0030	mg/L		11/15/11 07:30	11/16/11 10:44	1
Nickel	**0.0058**	**J**	0.010	0.0013	mg/L		11/15/11 07:30	11/16/11 10:44	1
Zinc	**0.12**		0.010	0.0017	mg/L		11/15/11 07:30	11/16/11 10:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.0	1.4	mg/L		11/14/11 09:19	11/14/11 09:35	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			11/16/11 10:20	1
pH	**7.93**	**HF**	0.100	0.100	SU			11/14/11 20:28	1

Surrogate Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-12670-1

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPH
Lab Sample ID	Client Sample ID	(44-120)	(42-120)	(22-125)
480-12670-1	OUTFALL 003B	79	75	69
LCS 480-40466/2-A	Lab Control Sample	74	83	77
LCSD 480-40466/3-A	Lab Control Sample Dup	82	89	100
MB 480-40466/1-A	Method Blank	81	91	85

Surrogate Legend

FBP = 2-Fluorobiphenyl
NBZ = Nitrobenzene-d5
TPH = p-Terphenyl-d14

Method: 608 - Organochlorine Pesticides in Water

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(26-145)	(25-152)
480-12670-1	OUTFALL 003B	51	72
LCS 480-40770/2-A	Lab Control Sample	46	63
LCSD 480-40770/3-A	Lab Control Sample Dup	42	59
MB 480-40770/1-A	Method Blank	42	60

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 625 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-40466/1-A
Matrix: Water
Analysis Batch: 41132

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40466

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		10	0.86	ug/L		11/15/11 14:06	11/18/11 21:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*81*		*44 - 120*	*11/15/11 14:06*	*11/18/11 21:18*	*1*
Nitrobenzene-d5	*91*		*42 - 120*	*11/15/11 14:06*	*11/18/11 21:18*	*1*
p-Terphenyl-d14	*85*		*22 - 125*	*11/15/11 14:06*	*11/18/11 21:18*	*1*

Lab Sample ID: LCS 480-40466/2-A
Matrix: Water
Analysis Batch: 41132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40466

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Bis(2-ethylhexyl) phthalate			100	93.2		ug/L		93	8 - 158		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*74*		*44 - 120*
Nitrobenzene-d5	*83*		*42 - 120*
p-Terphenyl-d14	*77*		*22 - 125*

Lab Sample ID: LCSD 480-40466/3-A
Matrix: Water
Analysis Batch: 41132

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40466

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-ethylhexyl) phthalate			100	100		ug/L		100	8 - 158	7	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*82*		*44 - 120*
Nitrobenzene-d5	*89*		*42 - 120*
p-Terphenyl-d14	*100*		*22 - 125*

Method: 608 - Organochlorine Pesticides in Water

Lab Sample ID: MB 480-40770/1-A
Matrix: Water
Analysis Batch: 41024

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40770

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		0.50	0.014	ug/L		11/16/11 16:07	11/18/11 09:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*42*		*26 - 145*	*11/16/11 16:07*	*11/18/11 09:58*	*1*
Tetrachloro-m-xylene	*60*		*25 - 152*	*11/16/11 16:07*	*11/18/11 09:58*	*1*

Method: 608 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: LCS 480-40770/2-A
Matrix: Water
Analysis Batch: 41024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40770

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methoxychlor			0.500	0.455	J	ug/L		91	52 - 142		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*46*		*26 - 145*
Tetrachloro-m-xylene	*63*		*25 - 152*

Lab Sample ID: LCSD 480-40770/3-A
Matrix: Water
Analysis Batch: 41024

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 40770

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methoxychlor			0.500	0.436	J	ug/L		87	52 - 142	4	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*42*		*26 - 145*
Tetrachloro-m-xylene	*59*		*25 - 152*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-40323/1-A
Matrix: Water
Analysis Batch: 40693

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40323

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		0.010	0.0015	mg/L		11/15/11 07:30	11/16/11 09:59	1
Lead	ND		0.0050	0.0030	mg/L		11/15/11 07:30	11/16/11 09:59	1
Nickel	ND		0.010	0.0013	mg/L		11/15/11 07:30	11/16/11 09:59	1
Zinc	ND		0.010	0.0017	mg/L		11/15/11 07:30	11/16/11 09:59	1

Lab Sample ID: LCS 480-40323/2-A
Matrix: Water
Analysis Batch: 40693

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40323

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Copper			0.200	0.192		mg/L		96	85 - 115		
Lead			0.200	0.183		mg/L		91	85 - 115		
Nickel			0.200	0.187		mg/L		94	85 - 115		
Zinc			0.200	0.197		mg/L		98	85 - 115		

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 480-40215/1-A
Matrix: Water
Analysis Batch: 40223

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 40215

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		5.0	1.4	mg/L		11/14/11 09:19	11/14/11 09:35	1

Method: 1664A - HEM and SGT-HEM (Continued)

Lab Sample ID: LCS 480-40215/2-A
Matrix: Water
Analysis Batch: 40223

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 40215

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Oil & Grease	25.0	20.70		mg/L		83	78 - 114

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 480-40643/1
Matrix: Water
Analysis Batch: 40643

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

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			11/16/11 10:20	1

Lab Sample ID: LCS 480-40643/2
Matrix: Water
Analysis Batch: 40643

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Suspended Solids	202	192.0		mg/L		95	88 - 110

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 480-40370/1
Matrix: Water
Analysis Batch: 40370

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.030		SU		100	99 - 101

Lab Sample ID: 480-12670-1 DU
Matrix: Water
Analysis Batch: 40370

Client Sample ID: OUTFALL 003B
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.93	HF	7.930		SU		0	5

QC Association Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-12670-1

GC/MS Semi VOA

Prep Batch: 40466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-12670-1	OUTFALL 003B	Total/NA	Water	625	
LCS 480-40466/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 480-40466/3-A	Lab Control Sample Dup	Total/NA	Water	625	
MB 480-40466/1-A	Method Blank	Total/NA	Water	625	

Analysis Batch: 41132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-12670-1	OUTFALL 003B	Total/NA	Water	625	40466
LCS 480-40466/2-A	Lab Control Sample	Total/NA	Water	625	40466
LCSD 480-40466/3-A	Lab Control Sample Dup	Total/NA	Water	625	40466
MB 480-40466/1-A	Method Blank	Total/NA	Water	625	40466

GC Semi VOA

Prep Batch: 40770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-12670-1	OUTFALL 003B	Total/NA	Water	3510C	
LCS 480-40770/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-40770/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 480-40770/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 41024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-12670-1	OUTFALL 003B	Total/NA	Water	608	40770
LCS 480-40770/2-A	Lab Control Sample	Total/NA	Water	608	40770
LCSD 480-40770/3-A	Lab Control Sample Dup	Total/NA	Water	608	40770
MB 480-40770/1-A	Method Blank	Total/NA	Water	608	40770

Metals

Prep Batch: 40323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-12670-1	OUTFALL 003B	Total/NA	Water	200.7	
LCS 480-40323/2-A	Lab Control Sample	Total/NA	Water	200.7	
MB 480-40323/1-A	Method Blank	Total/NA	Water	200.7	

Analysis Batch: 40693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-12670-1	OUTFALL 003B	Total/NA	Water	200.7 Rev 4.4	40323
LCS 480-40323/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	40323
MB 480-40323/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	40323

General Chemistry

Prep Batch: 40215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-12670-1	OUTFALL 003B	Total/NA	Water	1664A	
LCS 480-40215/2-A	Lab Control Sample	Total/NA	Water	1664A	
MB 480-40215/1-A	Method Blank	Total/NA	Water	1664A	

General Chemistry (Continued)

Analysis Batch: 40223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-12670-1	OUTFALL 003B	Total/NA	Water	1664A	40215
LCS 480-40215/2-A	Lab Control Sample	Total/NA	Water	1664A	40215
MB 480-40215/1-A	Method Blank	Total/NA	Water	1664A	40215

Analysis Batch: 40370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-12670-1	OUTFALL 003B	Total/NA	Water	SM 4500 H+ B	
480-12670-1 DU	OUTFALL 003B	Total/NA	Water	SM 4500 H+ B	
LCS 480-40370/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 40643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-12670-1	OUTFALL 003B	Total/NA	Water	SM 2540D	
LCS 480-40643/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 480-40643/1	Method Blank	Total/NA	Water	SM 2540D	

Lab Chronicle

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-12670-1

Client Sample ID: OUTFALL 003B
Date Collected: 11/11/11 14:40
Date Received: 11/12/11 08:50

Lab Sample ID: 480-12670-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			40466	11/15/11 14:06	KB	TAL BUF
Total/NA	Analysis	625		1	41132	11/18/11 22:50	RMM	TAL BUF
Total/NA	Prep	3510C			40770	11/16/11 16:07	KB	TAL BUF
Total/NA	Analysis	608		1	41024	11/18/11 12:43	DB	TAL BUF
Total/NA	Prep	200.7			40323	11/15/11 07:30	SS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	40693	11/16/11 10:44	JRK	TAL BUF
Total/NA	Prep	1664A			40215	11/14/11 09:19	TYW	TAL BUF
Total/NA	Analysis	1664A		1	40223	11/14/11 09:35	TYW	TAL BUF
Total/NA	Analysis	SM 4500 H+ B		1	40370	11/14/11 20:28	EFN	TAL BUF
Total/NA	Analysis	SM 2540D		1	40643	11/16/11 10:20	PN	TAL BUF

Laboratory References:

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

Certification Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-12670-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	Georgia EPD	4	N/A
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	Kentucky UST	4	30
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
TestAmerica Buffalo	USDA	USDA		P330-08-00242
TestAmerica Buffalo	Virginia	NELAC Secondary AB	3	460185
TestAmerica Buffalo	Virginia	State Program	3	278
TestAmerica Buffalo	Washington	State Program	10	C1677
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-12670-1

Method	Method Description	Protocol	Laboratory
625	Semivolatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
608	Organochlorine Pesticides in Water	40CFR136A	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF
1664A	HEM and SGT-HEM	1664A	TAL BUF
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL BUF
SM 4500 H+ B	pH	SM	TAL BUF

Protocol References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

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

Sample Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker St. 03B Quarterly

TestAmerica Job ID: 480-12670-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-12670-1	OUTFALL 003B	Water	11/11/11 14:40	11/12/11 08:50

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: Giglia, Denise	Carrier Tracking No(s):	COC No: 480-19055-4732.1
Client Contact: Mr. Roger Creighton	Phone:	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 1
Company: Synapse Risk Management, LLC				Job #:
Address: Historic Risk Management LLC 360 Erie Blvd. East, 2nd Floor	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Syracuse	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2S03; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
State, Zip: NY, 13202				
Phone: 315-475-3700(Tel) 315-475-3760(Fax)	PO #: Purchase Order not requir			
Email: rcreighton@synapseriskmanagement.com	WO #:			Other:
Project Name: 2200 Bleeker St. 03B Quarterly	Project #: 48002698			
Site	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7 - (MOD) Local Method	1664A_Calc - Oil & Grease	608_Pest - (MOD) Local Method	625 - (MOD) Local Method	2540D - Total Suspended Solids	SM4500_H+ - pH	Total Number of containers	Special Instructions/Note:
			Preservation Codes:				D	S	N	N	N	N		
Outfall 003B	11/11/2011	1440	C	Water			1	2	2	2	1			

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

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

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 11/11/2011 15:55	Company: SRM	Received by:	Date/Time: 11-11-11 16:00	Company:
Relinquished by:	Date/Time: 11-11-11 15:30	Company:	Received by:	Date/Time: 11-12-11 0950	Company: TAL
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

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

Cooler Temperature(s) °C and Other Remarks: 3.3

Login Sample Receipt Checklist

Client: Synapse Risk Management, LLC

Job Number: 480-12670-1

Login Number: 12670

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wienke, Robert

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

APPENDIX D
WATER LEVEL FIELD LOGS - FORM D

2011 PERIODIC REVIEW REPORT

2200 BLEECKER STREET
UTICA, NEW YORK 13501
NYSDEC SITE NO. 622003

SEPTEMBER 2012

WATER LEVEL FIELD LOG (FORM D)
OPERATION, MAINTENANCE, AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 4/26/2011

Location	Installed Depth (ft.)	Measured Depth (ft.)[1] (TOR)	Top Elevation (ft.)[1] (TOR)	Water Depth (ft.)[1]	Water Elevation (ft.)[2]	Water Column (ft.)	Time	Comments
MW-6R	10.52	10.51	465.47	4.25	461.22	6.26	10:30	
MW-13A	10.92	10.92	469.23	3.22	466.01	7.7	11:00	
MW-14	13.00	12.75	478.45	3.15	475.30	9.6	11:15	
MW-17	11.25	11.25	466.02	11.19	454.83	0.06	11:20	
MW-18	11.73	11.73	475.96	5.69	470.65	6.04	11:30	
SCT CO-1			472.30	Dry	465.20			
SCT CO-2			473.42	7.71	465.70			
SCT CO-3			471.21	Dry	465.61			
NCT CO-1			464.70	Dry	453.42			
MH-2 (Collection)	12.80		465.31	11.96	453.37			

Notes:

1) Depth measurements are taken in hundredths of a foot from the Top of Riser (TOR), which is a reference point at the highest part on the inner 2-inch PVC riser pipe.
2) Elevations are referenced to sea level, as set by the National Geodetic Vertical Datum (NGVD) of 1988.
3) MW = Monitoring Well
4) SCT = Southern Collection Trench
5) NCT = Northern Collection Trench
6) CO = Clean Out (Depths and Elevations are Approximate)
7) MH = Manhole

General Comments:

synapse

WATER LEVEL FIELD LOG (FORM D)
OPERATION, MAINTENANCE, AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 10/25/2011

Location	Installed Depth (ft.)	Measured Depth (ft.)[1] (TOR)	Top Elevation (ft.)[1] (TOR)	Water Depth (ft.)[1]	Water Elevation (ft.)[2]	Water Column (ft.)	Time	Comments
MW-6R	10.52	10.51	465.47	4.15	461.32	6.36	9:30	
MW-13A	10.92	10.92	469.23	3.11	466.12	7.81	9:35	
MW-14	13.00	12.75	478.45	3.09	475.28	9.66	10:05	
MW-17	11.25	11.25	466.02	11.20	454.82	0.05	10:15	
MW-18	11.73	11.73	475.96	5.31	470.65	6.42	10:30	
SCT CO-1			472.30	Dry	465.20			
SCT CO-2			473.42	7.71	465.71			
SCT CO-3			471.21	Dry	465.61			
NCT CO-1			464.70	Dry	453.42			
MH-2 (Collection)	12.80		465.31	11.96	453.35			

Notes:

1) Depth measurements are taken in hundredths of a foot from the Top of Riser (TOR), which is a reference point at the highest part on the inner 2-inch PVC riser pipe.
2) Elevations are referenced to sea level, as set by the National Geodetic Vertical Datum (NGVD) of 1988.
3) MW = Monitoring Well
4) SCT = Southern Collection Trench
5) NCT = Northern Collection Trench
6) CO = Clean Out (Depths and Elevations are Approximate)
7) MH = Manhole

General Comments:

synapse

APPENDIX E
GROUNDWATER SAMPLING LOGS – FORM E

2011 PERODIC REVIEW REPORT

2200 BLEECKER STREET
UTICA, NEW YORK 13501
NYSDEC SITE NO. 622003

SEPTEMBER 2012

GROUNDWATER SAMPLING LOG (FORM E)
OPERATION, MAINTENANCE, AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 4/26/2011 Well Number: MW-6R

TIME	PUMP SETTING (feet of H_2O)	DISCHARGE TIME (seconds)	REFILL TIME (seconds)	FLOW RATE (ml/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	PURGE VOLUME (liters)
13:15	10	5	10	300	4.35	7.82	14.22	.491	7.65	-5	225	
13:19	10	5	10	300	4.35	7.77	14.25	.492	3.35	15	195	
13:24	10	5	10	300	4.35	7.73	14.28	.492	2.41	-24	122	
13:29	10	5	10	300	4.35	7.64	14.29	.492	2.17	-34	96	
13:35	10	5	10	300	4.35	7.65	14.30	.491	1.28	-42	65	
Stabilization Criteria				100-400 ml/min	Drawdown <0.3'	± 0.1 units	3%	3%	10%	± 10 mv	10% (>1 NTU)	Total Purge
Stabilization Achieved (Y/N)				Y	Y	Y	Y	Y	N	N	N	

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbia Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals
1-Liter A	None	1	PCBs
40-ML GP	HCL	3	VOCs

Sample Collection Time	Start	End

synapse

GROUNDWATER SAMPLING LOG (FORM E)
OPERATION, MAINTENANCE, AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 4/26/2011 Well Number: MW-13A

TIME	PUMP SETTING (feet of H_2O)	DISCHARGE TIME (seconds)	REFILL TIME (seconds)	FLOW RATE (ml/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	PURGE VOLUME (liters)
11:30	10	5	10	375	4.25	7.15	14.65	.566	.338	-2	101	
11:33	10	5	10	375	4.26	7.16	14.66	.565	.339	9	76.2	
11:36	10	5	10	375	4.28	7.08	14.67	.567	.340	18	43.5	
11:39	10	5	10	375	4.29	7.09	14.67	.568	.341	18	18.5	
11:43	10	5	10	375	4.29	7.10	14.68	.568	.342	19	11.6	
Stabilization Criteria				100-400 ml/min	Drawdown <0.3'	± 0.1 units	3%	3%	10%	± 10 mv	10% (>1 NTU)	Total Purge
Stabilization Achieved (Y/N)				Y	Y	Y	Y	Y	Y	Y	N	

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbia Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers

Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals
1-Liter A	None	1	PCBs
40-ML GP	HCL	3	VOCs

Sample Collection Time	Start	End

synapse

GROUNDWATER SAMPLING LOG (FORM E)
OPERATION, MAINTENANCE, AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 4/26/2011 Well Number: MW-14

TIME	PUMP SETTING (feet of H_2O)	DISCHARGE TIME (seconds)	REFILL TIME (seconds)	FLOW RATE (ml/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	PURGE VOLUME (liters)
9:35	10	5	10	410	3.65	7.75	13.42	.375	7.65	-101	75	
9:42	10	5	10	410	3.95	7.76	13.43	.376	2.94	-95	65	
9:47	10	5	10	410	3.96	7.77	13.45	.376	2.22	-55	55	
9:53	10	5	10	410	3.96	7.76	13.46	.376	2.01	-44	35	
9:57	10	5	10	410	3.96	7.76	13.46	.376	1.64	-42	22	
Stabilization Criteria				100-400 ml/min	Drawdown <0.3'	± 0.1 units	3%	3%	10%	± 10 mv	10% (>1 NTU)	Total Purge
Stabilization Achieved (Y/N)				Y	Y	Y	Y	Y	Y	Y	N	

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbia Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals
1-Liter A	None	1	PCBs
40-ML GP	HCL	3	VOCs

Sample Collection Time	Start	End

synapse

GROUNDWATER SAMPLING LOG (FORM E)
OPERATION, MAINTENANCE, AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 4/26/2011 Well Number: MW-18

TIME	PUMP SETTING (feet of H_2O)	DISCHARGE TIME (seconds)	REFILL TIME (seconds)	FLOW RATE (ml/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	PURGE VOLUME (liters)
14:25	10	5	10	375	7.12	7.11	14.10	.775	6.52	-20	7.5	
14:29	10	5	10	375	7.15	7.11	14.10	.776	3.25	-21	7.2	
14:37	10	5	10	375	7.16	7.11	13.90	.776	2.65	-33	3.5	
14:42	10	5	10	375	7.26	7.11	13.92	.776	2.15	-34	2.1	
14:46	10	5	10	375	7.27	7.11	13.91	.776	1.76	-36	1.8	
Stabilization Criteria				100-400 ml/min	Drawdown <0.3'	± 0.1 units	3%	3%	10%	± 10 mv	10% (>1 NTU)	Total Purge
Stabilization Achieved (Y/N)				Y	Y	Y	Y	Y	Y	Y	N	

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbia Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals
1-Liter A	None	1	PCBs
40-ML GP	HCL	3	VOCs

Sample Collection Time	Start	End

synapse

GROUNDWATER SAMPLING LOG (FORM E)
OPERATION, MAINTENANCE, AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 10/25/2011 Well Number: MW-6R

TIME	PUMP SETTING (feet of H_2O)	DISCHARGE TIME (seconds)	REFILL TIME (seconds)	FLOW RATE (ml/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	PURGE VOLUME (liters)
12:05	10	5	10	350	4.40	6.82	16.12	.474	4.19	-20	317	
12:08	10	5	10	350	4.41	6.77	16.15	.472	2.17	-30	272	
12:12	10	5	10	350	4.43	6.73	16.18	.470	1.54	-43	222	
12:16	10	5	10	350	4.43	6.64	16.19	.466	1.25	-63	112	
12:22	10	5	10	350	4.43	6.65	16.20	.465	0.83	-68	98	
Stabilization Criteria				100-400 ml/min	Drawdown <0.3'	± 0.1 units	3%	3%	10%	± 10 mv	10% (>1 NTU)	Total Purge
Stabilization Achieved (Y/N)				Y	Y	Y	Y	Y	N	N	N	

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbia Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals
1-Liter A	None	1	PCBs
40-ML GP	HCL	3	VOCs

Sample Collection Time	Start	End

synapse

GROUNDWATER SAMPLING LOG (FORM E)
OPERATION, MAINTENANCE, AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 10/25/2011 Well Number: MW-13A

TIME	PUMP SETTING (feet of H_2O)	DISCHARGE TIME (seconds)	REFILL TIME (seconds)	FLOW RATE (ml/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	PURGE VOLUME (liters)
11:30	10	5	10	325	3.60	7.05	16.78	.518	.331	-1	101	
11:33	10	5	10	325	3.61	7.00	16.83	.518	.331	8	76.2	
11:36	10	5	10	325	3.63	6.97	16.89	.518	.332	16	43.5	
11:39	10	5	10	325	3.63	6.96	17.04	.519	.332	9	18.5	
11:43	10	5	10	325	3.63	6.96	17.14	.519	.332	-1	11.6	
Stabilization Criteria				100-400 ml/min	Drawdown <0.3'	± 0.1 units	3%	3%	10%	± 10 mv	10% (>1 NTU)	Total Purge
Stabilization Achieved (Y/N)				Y	Y	Y	Y	Y	Y	Y	N	

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbia Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers			
Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals
1-Liter A	None	1	PCBs
40-ML GP	HCL	3	VOCs

Sample Collection Time	Start	End

synapse

GROUNDWATER SAMPLING LOG (FORM E)
OPERATION, MAINTENANCE, AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 10/25/2011 Well Number: MW-14

TIME	PUMP SETTING (feet of H_2O)	DISCHARGE TIME (seconds)	REFILL TIME (seconds)	FLOW RATE (ml/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	PURGE VOLUME (liters)
11:01	10	5	10	300	4.25	7.69	12.91	.301	3.12	-98	31.7	
11:03	10	5	10	300	4.25	7.21	12.90	.299	.194	-86	26.2	
11:06	10	5	10	300	4.25	7.02	12.76	.298	.194	-81	25.1	
11:09	10	5	10	300	4.25	6.82	12.67	.297	.193	-73	19.9	
11:13	10	5	10	300	4.26	6.78	12.78	.297	.193	-71	20.6	
Stabilization Criteria				100-400 ml/min	Drawdown <0.3'	± 0.1 units	3%	3%	10%	± 10 mv	10% (>1 NTU)	Total Purge
Stabilization Achieved (Y/N)				Y	Y	Y	Y	Y	Y	Y	N	

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbia Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers

Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals
1-Liter A	None	1	PCBs
40-ML GP	HCL	3	VOCs

Sample Collection Time	Start	End

synapse

GROUNDWATER SAMPLING LOG (FORM E)
OPERATION, MAINTENANCE, AND MONITORING

REMEDIAL ACTION FACILITY
2200 BLEECKER STREET
UTICA, NEW YORK
NYSDEC SITE NO. 622003

Synapse Representative: R. Creighton Date: 10/25/2011 Well Number: MW-18

TIME	PUMP SETTING (feet of H_2O)	DISCHARGE TIME (seconds)	REFILL TIME (seconds)	FLOW RATE (ml/min)	DEPTH TO WATER (feet)	pH (SU)	TEMP (°C)	SPECIFIC CONDUCTANCE (mS/cm)	DISSOLVED OXYGEN (mg/l)	ORP (mv)	TURBIDITY (NTU)	PURGE VOLUME (liters)
14:02	10	5	10	275	6.52	6.96	14.55	.547	2.52	-17	6.3	
14:06	10	5	10	275	6.53	6.90	14.53	.545	.71	-14	4.4	
14:09	10	5	10	275	6.54	6.91	14.54	.544	.422	-89	3.4	
14:12	10	5	10	275	6.56	6.92	14.55	.542	.360	-90	2.2	
14:15	10	5	10	275	6.56	6.93	14.55	.541	.356	-95	1.6	
Stabilization Criteria				100-400 ml/min	Drawdown <0.3'	± 0.1 units	3%	3%	10%	± 10 mv	10% (>1 NTU)	Total Purge
Stabilization Achieved (Y/N)				Y	Y	Y	Y	Y	N	N	N	

Sampling/Purge Equipment	
Water Level Meter:	Solinst Model 101
pH/S.C./Dissolved Oxygen/ORP/Turbidity:	Horbia Model
Pump:	QED Bladder Pump Model
Intake Depth (feet below PVC):	
Tubing:	QED Bonded Poly Sample Tubing

Laboratory Analyses/Containers

Container	Preservative	#	Analysis
8-OZ P	HNO3	1	Metals
1-Liter A	None	1	PCBs
40-ML GP	HCL	3	VOCs

Sample Collection Time	Start	End

synapse

APPENDIX F
GROUNDWATER ANALYTICAL DATA

2011 PERIODIC REVIEW REPORT

2200 BLEECKER STREET
UTICA, NEW YORK 13501
NYSDEC SITE NO. 622003

SEPTEMBER 2012

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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

TestAmerica Job ID: 480-4372-1
Client Project/Site: 2200 Bleeker Street Semi-annual

For:
Synapse Risk Management, LLC
Historic Risk Management LLC
360 Erie Blvd. East, 2nd Floor
Syracuse, New York 13202

Attn: Senior Associate Roger R Creighton

Melissa Deyo

Authorized for release by:
05/11/2011 02:40:49 PM
Melissa Deyo
Project Administrator
melissa.deyo@testamericainc.com

Designee for

Denise Giglia
Project Manager I
denise.giglia@testamericainc.com

Table of Contents

Qualifier Definition/Glossary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-4372-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F	MS or MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-4372-1

Job ID: 480-4372-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-4372-1

Receipt
Sample MW-6R was received but was not listed on the COC for analysis. The sample was logged in as per volume received.

All other samples were received in good condition within temperature requirements.

GC/MS VOA
Method 8260B: The method blank for batch 15316 contained Trichloroethene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of the samples was not performed.

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 15316 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria; therefore, no corrective action was needed.

No other analytical or quality issues were noted.

GC Semi VOA
Method 8082: One surrogate in the following sample recovered outside of control limits: MW-6R (480-4372-1). Since the secondary surrogate is within limits, no corrective action was needed.

No other analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-4372-1

Client Sample ID: MW-6R — Lab Sample ID: 480-4372-1

No Detections.

Client Sample ID: MW-13A — Lab Sample ID: 480-4372-2

No Detections.

Client Sample ID: MW-14 — Lab Sample ID: 480-4372-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.48	J B	1.0	0.46	ug/L	1		8260B	Total/NA

Client Sample ID: MW-18 — Lab Sample ID: 480-4372-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.1		1.0	0.90	ug/L	1		8260B	Total/NA
Copper	0.0033	J	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA

Client Sample ID: 042811-DUP — Lab Sample ID: 480-4372-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.1		1.0	0.90	ug/L	1		8260B	Total/NA
Copper	0.0040	J	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.0020	J	0.010	0.0017	mg/L	1		200.7 Rev 4.4	Total/NA

Client Sample ID: MW-6R

Lab Sample ID: 480-4372-1

Date Collected: 04/28/11 14:00

Matrix: Water

Date Received: 04/29/11 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/09/11 14:52	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/09/11 14:52	1
Trichloroethene	ND		1.0	0.46	ug/L			05/09/11 14:52	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/09/11 14:52	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*127*		*66 - 137*		*05/09/11 14:52*	*1*
Toluene-d8 (Surr)	*96*		*71 - 126*		*05/09/11 14:52*	*1*
4-Bromofluorobenzene (Surr)	*85*		*73 - 120*		*05/09/11 14:52*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.49	0.17	ug/L		05/04/11 09:35	05/05/11 23:58	1
PCB-1221	ND		0.49	0.17	ug/L		05/04/11 09:35	05/05/11 23:58	1
PCB-1232	ND		0.49	0.17	ug/L		05/04/11 09:35	05/05/11 23:58	1
PCB-1242	ND		0.49	0.17	ug/L		05/04/11 09:35	05/05/11 23:58	1
PCB-1248	ND		0.49	0.17	ug/L		05/04/11 09:35	05/05/11 23:58	1
PCB-1254	ND		0.49	0.24	ug/L		05/04/11 09:35	05/05/11 23:58	1
PCB-1260	ND		0.49	0.24	ug/L		05/04/11 09:35	05/05/11 23:58	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*13*		*12 - 137*	*05/04/11 09:35*	*05/05/11 23:58*	*1*
Tetrachloro-m-xylene	*34*	*X*	*35 - 121*	*05/04/11 09:35*	*05/05/11 23:58*	*1*

Client Sample ID: MW-13A

Lab Sample ID: 480-4372-2

Date Collected: 04/28/11 13:15

Matrix: Water

Date Received: 04/29/11 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/09/11 15:17	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/09/11 15:17	1
Trichloroethene	ND		1.0	0.46	ug/L			05/09/11 15:17	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/09/11 15:17	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*125*		*66 - 137*		*05/09/11 15:17*	*1*
Toluene-d8 (Surr)	*96*		*71 - 126*		*05/09/11 15:17*	*1*
4-Bromofluorobenzene (Surr)	*85*		*73 - 120*		*05/09/11 15:17*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.49	0.17	ug/L		05/04/11 09:35	05/06/11 00:14	1
PCB-1221	ND		0.49	0.17	ug/L		05/04/11 09:35	05/06/11 00:14	1
PCB-1232	ND		0.49	0.17	ug/L		05/04/11 09:35	05/06/11 00:14	1
PCB-1242	ND		0.49	0.17	ug/L		05/04/11 09:35	05/06/11 00:14	1
PCB-1248	ND		0.49	0.17	ug/L		05/04/11 09:35	05/06/11 00:14	1
PCB-1254	ND		0.49	0.24	ug/L		05/04/11 09:35	05/06/11 00:14	1
PCB-1260	ND		0.49	0.24	ug/L		05/04/11 09:35	05/06/11 00:14	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*69*		*12 - 137*	*05/04/11 09:35*	*05/06/11 00:14*	*1*

Client Sample ID: MW-13A

Lab Sample ID: 480-4372-2

Date Collected: 04/28/11 13:15

Matrix: Water

Date Received: 04/29/11 09:30

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*35 - 121*	*05/04/11 09:35*	*05/06/11 00:14*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0040	0.00087	mg/L		05/03/11 09:40	05/03/11 19:53	1
Copper	ND		0.010	0.0015	mg/L		05/03/11 09:40	05/03/11 19:53	1
Lead	ND		0.0050	0.0030	mg/L		05/03/11 09:40	05/03/11 19:53	1
Zinc	ND		0.010	0.0017	mg/L		05/03/11 09:40	05/03/11 19:53	1

Client Sample ID: MW-14

Lab Sample ID: 480-4372-3

Date Collected: 04/28/11 12:25

Matrix: Water

Date Received: 04/29/11 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/09/11 16:32	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/09/11 16:32	1
Trichloroethene	**0.48**	**J B**	1.0	0.46	ug/L			05/09/11 16:32	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/09/11 16:32	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*123*		*66 - 137*		*05/09/11 16:32*	*1*
Toluene-d8 (Surr)	*97*		*71 - 126*		*05/09/11 16:32*	*1*
4-Bromofluorobenzene (Surr)	*86*		*73 - 120*		*05/09/11 16:32*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.17	ug/L		05/04/11 09:35	05/06/11 01:01	1
PCB-1221	ND		0.50	0.17	ug/L		05/04/11 09:35	05/06/11 01:01	1
PCB-1232	ND		0.50	0.17	ug/L		05/04/11 09:35	05/06/11 01:01	1
PCB-1242	ND		0.50	0.17	ug/L		05/04/11 09:35	05/06/11 01:01	1
PCB-1248	ND		0.50	0.17	ug/L		05/04/11 09:35	05/06/11 01:01	1
PCB-1254	ND		0.50	0.25	ug/L		05/04/11 09:35	05/06/11 01:01	1
PCB-1260	ND		0.50	0.25	ug/L		05/04/11 09:35	05/06/11 01:01	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*39*		*12 - 137*	*05/04/11 09:35*	*05/06/11 01:01*	*1*
Tetrachloro-m-xylene	*86*		*35 - 121*	*05/04/11 09:35*	*05/06/11 01:01*	*1*

Client Sample ID: MW-18

Lab Sample ID: 480-4372-4

Date Collected: 04/28/11 14:40

Matrix: Water

Date Received: 04/29/11 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/09/11 16:57	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/09/11 16:57	1
Trichloroethene	ND		1.0	0.46	ug/L			05/09/11 16:57	1
Vinyl chloride	**1.1**		1.0	0.90	ug/L			05/09/11 16:57	1

Client Sample ID: MW-18

Lab Sample ID: 480-4372-4

Date Collected: 04/28/11 14:40

Matrix: Water

Date Received: 04/29/11 09:30

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*123*		*66 - 137*		*05/09/11 16:57*	*1*
Toluene-d8 (Surr)	*97*		*71 - 126*		*05/09/11 16:57*	*1*
4-Bromofluorobenzene (Surr)	*84*		*73 - 120*		*05/09/11 16:57*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.56	0.20	ug/L		05/04/11 09:35	05/06/11 01:17	1
PCB-1221	ND		0.56	0.20	ug/L		05/04/11 09:35	05/06/11 01:17	1
PCB-1232	ND		0.56	0.20	ug/L		05/04/11 09:35	05/06/11 01:17	1
PCB-1242	ND		0.56	0.20	ug/L		05/04/11 09:35	05/06/11 01:17	1
PCB-1248	ND		0.56	0.20	ug/L		05/04/11 09:35	05/06/11 01:17	1
PCB-1254	ND		0.56	0.28	ug/L		05/04/11 09:35	05/06/11 01:17	1
PCB-1260	ND		0.56	0.28	ug/L		05/04/11 09:35	05/06/11 01:17	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*69*		*12 - 137*	*05/04/11 09:35*	*05/06/11 01:17*	*1*
Tetrachloro-m-xylene	*87*		*35 - 121*	*05/04/11 09:35*	*05/06/11 01:17*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0040	0.00087	mg/L		05/03/11 09:40	05/03/11 20:08	1
Copper	**0.0033**	**J**	0.010	0.0015	mg/L		05/03/11 09:40	05/03/11 20:08	1
Lead	ND		0.0050	0.0030	mg/L		05/03/11 09:40	05/03/11 20:08	1
Zinc	ND		0.010	0.0017	mg/L		05/03/11 09:40	05/03/11 20:08	1

Client Sample ID: 042811-DUP

Lab Sample ID: 480-4372-5

Date Collected: 04/28/11 00:00

Matrix: Water

Date Received: 04/29/11 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/09/11 17:22	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/09/11 17:22	1
Trichloroethene	ND		1.0	0.46	ug/L			05/09/11 17:22	1
Vinyl chloride	**1.1**		1.0	0.90	ug/L			05/09/11 17:22	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*125*		*66 - 137*		*05/09/11 17:22*	*1*
Toluene-d8 (Surr)	*96*		*71 - 126*		*05/09/11 17:22*	*1*
4-Bromofluorobenzene (Surr)	*82*		*73 - 120*		*05/09/11 17:22*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.53	0.19	ug/L		05/04/11 09:35	05/06/11 01:33	1
PCB-1221	ND		0.53	0.19	ug/L		05/04/11 09:35	05/06/11 01:33	1
PCB-1232	ND		0.53	0.19	ug/L		05/04/11 09:35	05/06/11 01:33	1
PCB-1242	ND		0.53	0.19	ug/L		05/04/11 09:35	05/06/11 01:33	1
PCB-1248	ND		0.53	0.19	ug/L		05/04/11 09:35	05/06/11 01:33	1
PCB-1254	ND		0.53	0.27	ug/L		05/04/11 09:35	05/06/11 01:33	1
PCB-1260	ND		0.53	0.27	ug/L		05/04/11 09:35	05/06/11 01:33	1

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-4372-1

Client Sample ID: 042811-DUP
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:30

Lab Sample ID: 480-4372-5
Matrix: Water

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*12 - 137*	*05/04/11 09:35*	*05/06/11 01:33*	*1*
Tetrachloro-m-xylene	*86*		*35 - 121*	*05/04/11 09:35*	*05/06/11 01:33*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0040	0.00087	mg/L		05/03/11 09:40	05/03/11 20:10	1
Copper	**0.0040**	**J**	0.010	0.0015	mg/L		05/03/11 09:40	05/03/11 20:10	1
Lead	ND		0.0050	0.0030	mg/L		05/03/11 09:40	05/03/11 20:10	1
Zinc	**0.0020**	**J**	0.010	0.0017	mg/L		05/03/11 09:40	05/03/11 20:10	1

Surrogate Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-4372-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	12DCE (66-137)	TOL (71-126)	BFB (73-120)
480-4372-1	MW-6R	127	96	85
480-4372-2	MW-13A	125	96	85
480-4372-2 MS	MW-13A	121	96	92
480-4372-2 MSD	MW-13A	122	97	93
480-4372-3	MW-14	123	97	86
480-4372-4	MW-18	123	97	84
480-4372-5	042811-DUP	125	96	82
LCS 480-15316/3	LCS 480-15316/3	108	100	99
MB 480-15316/27	MB 480-15316/27	115	99	92

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCB1 (12-137)	TCX1 (35-121)
480-4372-1	MW-6R	13	34 X
480-4372-2	MW-13A	69	86
480-4372-2 MS	MW-13A	85	97
480-4372-2 MSD	MW-13A	81	89
480-4372-3	MW-14	39	86
480-4372-4	MW-18	69	87
480-4372-5	042811-DUP	64	86
LCS 480-14785/2-A	LCS 480-14785/2-A	69	99
MB 480-14785/1-A	MB 480-14785/1-A	90	96

Surrogate Legend

DCB = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-15316/27
Matrix: Water
Analysis Batch: 15316

Client Sample ID: MB 480-15316/27
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/09/11 11:45	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			05/09/11 11:45	1
Trichloroethene	0.638	J	1.0	0.46	ug/L			05/09/11 11:45	1
Vinyl chloride	ND		1.0	0.90	ug/L			05/09/11 11:45	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*66 - 137*		*05/09/11 11:45*	*1*
Toluene-d8 (Surr)	*99*		*71 - 126*		*05/09/11 11:45*	*1*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*		*05/09/11 11:45*	*1*

Lab Sample ID: LCS 480-15316/3
Matrix: Water
Analysis Batch: 15316

Client Sample ID: LCS 480-15316/3
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	74 - 124
trans-1,2-Dichloroethene	25.0	26.5		ug/L		106	73 - 127
Trichloroethene	25.0	26.3		ug/L		105	74 - 123

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*66 - 137*
Toluene-d8 (Surr)	*100*		*71 - 126*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*

Lab Sample ID: 480-4372-2 MS
Matrix: Water
Analysis Batch: 15316

Client Sample ID: MW-13A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
cis-1,2-Dichloroethene	ND		25.0	28.6		ug/L		114	74 - 124
trans-1,2-Dichloroethene	ND		25.0	32.8	F	ug/L		131	73 - 127
Trichloroethene	ND		25.0	31.1	F	ug/L		124	74 - 123

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*121*		*66 - 137*
Toluene-d8 (Surr)	*96*		*71 - 126*
4-Bromofluorobenzene (Surr)	*92*		*73 - 120*

Lab Sample ID: 480-4372-2 MSD
Matrix: Water
Analysis Batch: 15316

Client Sample ID: MW-13A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	ND		25.0	30.1		ug/L		120	74 - 124	5	15
trans-1,2-Dichloroethene	ND		25.0	34.2	F	ug/L		137	73 - 127	4	20
Trichloroethene	ND		25.0	31.7	F	ug/L		127	74 - 123	2	16

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

Lab Sample ID: 480-4372-2 MSD
Matrix: Water
Analysis Batch: 15316

Client Sample ID: MW-13A
Prep Type: Total/NA

Surrogate	MSD % Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*122*		*66 - 137*
Toluene-d8 (Surr)	*97*		*71 - 126*
4-Bromofluorobenzene (Surr)	*93*		*73 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-14785/1-A
Matrix: Water
Analysis Batch: 14904

Client Sample ID: MB 480-14785/1-A
Prep Type: Total/NA
Prep Batch: 14785

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		05/04/11 09:35	05/05/11 20:09	1
PCB-1221	ND		0.50	0.18	ug/L		05/04/11 09:35	05/05/11 20:09	1
PCB-1232	ND		0.50	0.18	ug/L		05/04/11 09:35	05/05/11 20:09	1
PCB-1242	ND		0.50	0.18	ug/L		05/04/11 09:35	05/05/11 20:09	1
PCB-1248	ND		0.50	0.18	ug/L		05/04/11 09:35	05/05/11 20:09	1
PCB-1254	ND		0.50	0.25	ug/L		05/04/11 09:35	05/05/11 20:09	1
PCB-1260	ND		0.50	0.25	ug/L		05/04/11 09:35	05/05/11 20:09	1

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*90*		*12 - 137*	*05/04/11 09:35*	*05/05/11 20:09*	*1*
Tetrachloro-m-xylene	*96*		*35 - 121*	*05/04/11 09:35*	*05/05/11 20:09*	*1*

Lab Sample ID: LCS 480-14785/2-A
Matrix: Water
Analysis Batch: 14904

Client Sample ID: LCS 480-14785/2-A
Prep Type: Total/NA
Prep Batch: 14785

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
PCB-1016	5.00	4.99		ug/L		100	51 - 123
PCB-1260	5.00	4.58		ug/L		92	52 - 128

Surrogate	LCS % Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	*69*		*12 - 137*
Tetrachloro-m-xylene	*99*		*35 - 121*

Lab Sample ID: 480-4372-2 MS
Matrix: Water
Analysis Batch: 14904

Client Sample ID: MW-13A
Prep Type: Total/NA
Prep Batch: 14785

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
PCB-1016	ND		4.76	4.71		ug/L		99	51 - 123
PCB-1260	ND		4.76	4.33		ug/L		91	52 - 128

Surrogate	MS % Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	*85*		*12 - 137*
Tetrachloro-m-xylene	*97*		*35 - 121*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-4372-2 MSD — **Client Sample ID: MW-13A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 14904 — **Prep Batch: 14785**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
PCB-1016	ND		4.90	4.29		ug/L		87	51 - 123	10	50
PCB-1260	ND		4.90	4.27		ug/L		87	52 - 128	1	50

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*81*		*12 - 137*
Tetrachloro-m-xylene	*89*		*35 - 121*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-14569/1-A — **Client Sample ID: MB 480-14569/1-A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 14759 — **Prep Batch: 14569**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0040	0.00087	mg/L		05/03/11 09:40	05/03/11 19:08	1
Copper	ND		0.010	0.0015	mg/L		05/03/11 09:40	05/03/11 19:08	1
Lead	ND		0.0050	0.0030	mg/L		05/03/11 09:40	05/03/11 19:08	1
Zinc	ND		0.010	0.0017	mg/L		05/03/11 09:40	05/03/11 19:08	1

Lab Sample ID: LCS 480-14569/2-A — **Client Sample ID: LCS 480-14569/2-A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 14759 — **Prep Batch: 14569**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chromium	0.200	0.205		mg/L		103	85 - 115
Copper	0.200	0.209		mg/L		104	85 - 115
Lead	0.200	0.201		mg/L		101	85 - 115
Zinc	0.200	0.207		mg/L		103	85 - 115

Lab Sample ID: 480-4372-2 MS — **Client Sample ID: MW-13A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 14759 — **Prep Batch: 14569**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Chromium	ND		0.200	0.203		mg/L		101	70 - 130
Copper	ND		0.200	0.203		mg/L		101	70 - 130
Lead	ND		0.200	0.200		mg/L		100	70 - 130
Zinc	ND		0.200	0.197		mg/L		98	70 - 130

Lab Sample ID: 480-4372-2 MSD — **Client Sample ID: MW-13A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 14759 — **Prep Batch: 14569**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Chromium	ND		0.200	0.203		mg/L		102	70 - 130	0	20
Copper	ND		0.200	0.203		mg/L		102	70 - 130	0	20
Lead	ND		0.200	0.200		mg/L		100	70 - 130	0	20
Zinc	ND		0.200	0.196		mg/L		98	70 - 130	0	20

GC/MS VOA

Analysis Batch: 15316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-15316/3	LCS 480-15316/3	Total/NA	Water	8260B	
480-4372-1	MW-6R	Total/NA	Water	8260B	
480-4372-2	MW-13A	Total/NA	Water	8260B	
480-4372-2 MS	MW-13A	Total/NA	Water	8260B	
480-4372-2 MSD	MW-13A	Total/NA	Water	8260B	
480-4372-3	MW-14	Total/NA	Water	8260B	
480-4372-4	MW-18	Total/NA	Water	8260B	
480-4372-5	042811-DUP	Total/NA	Water	8260B	
MB 480-15316/27	MB 480-15316/27	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 14785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-14785/1-A	MB 480-14785/1-A	Total/NA	Water	3510C	
LCS 480-14785/2-A	LCS 480-14785/2-A	Total/NA	Water	3510C	
480-4372-2 MS	MW-13A	Total/NA	Water	3510C	
480-4372-2 MSD	MW-13A	Total/NA	Water	3510C	
480-4372-1	MW-6R	Total/NA	Water	3510C	
480-4372-2	MW-13A	Total/NA	Water	3510C	
480-4372-3	MW-14	Total/NA	Water	3510C	
480-4372-4	MW-18	Total/NA	Water	3510C	
480-4372-5	042811-DUP	Total/NA	Water	3510C	

Analysis Batch: 14904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-14785/1-A	MB 480-14785/1-A	Total/NA	Water	8082	14785
LCS 480-14785/2-A	LCS 480-14785/2-A	Total/NA	Water	8082	14785
480-4372-1	MW-6R	Total/NA	Water	8082	14785
480-4372-2	MW-13A	Total/NA	Water	8082	14785
480-4372-2 MS	MW-13A	Total/NA	Water	8082	14785
480-4372-2 MSD	MW-13A	Total/NA	Water	8082	14785
480-4372-3	MW-14	Total/NA	Water	8082	14785
480-4372-4	MW-18	Total/NA	Water	8082	14785
480-4372-5	042811-DUP	Total/NA	Water	8082	14785

Metals

Prep Batch: 14569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-14569/1-A	MB 480-14569/1-A	Total/NA	Water	200.7	
LCS 480-14569/2-A	LCS 480-14569/2-A	Total/NA	Water	200.7	
480-4372-2	MW-13A	Total/NA	Water	200.7	
480-4372-2 MS	MW-13A	Total/NA	Water	200.7	
480-4372-2 MSD	MW-13A	Total/NA	Water	200.7	
480-4372-4	MW-18	Total/NA	Water	200.7	
480-4372-5	042811-DUP	Total/NA	Water	200.7	

Analysis Batch: 14759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-14569/1-A	MB 480-14569/1-A	Total/NA	Water	200.7 Rev 4.4	14569
LCS 480-14569/2-A	LCS 480-14569/2-A	Total/NA	Water	200.7 Rev 4.4	14569

Metals (Continued)

Analysis Batch: 14759 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-4372-2	MW-13A	Total/NA	Water	200.7 Rev 4.4	14569
480-4372-2 MS	MW-13A	Total/NA	Water	200.7 Rev 4.4	14569
480-4372-2 MSD	MW-13A	Total/NA	Water	200.7 Rev 4.4	14569
480-4372-4	MW-18	Total/NA	Water	200.7 Rev 4.4	14569
480-4372-5	042811-DUP	Total/NA	Water	200.7 Rev 4.4	14569

Lab Chronicle

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-4372-1

Client Sample ID: MW-6R
Date Collected: 04/28/11 14:00
Date Received: 04/29/11 09:30

Lab Sample ID: 480-4372-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	15316	05/09/11 14:52	CDC	TAL BUF
Total/NA	Prep	3510C			14785	05/04/11 09:35	KV	TAL BUF
Total/NA	Analysis	8082		1	14904	05/05/11 23:58	JM	TAL BUF

Client Sample ID: MW-13A
Date Collected: 04/28/11 13:15
Date Received: 04/29/11 09:30

Lab Sample ID: 480-4372-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	15316	05/09/11 15:17	CDC	TAL BUF
Total/NA	Prep	3510C			14785	05/04/11 09:35	KV	TAL BUF
Total/NA	Analysis	8082		1	14904	05/06/11 00:14	JM	TAL BUF
Total/NA	Prep	200.7			14569	05/03/11 09:40	MM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	14759	05/03/11 19:53	AH	TAL BUF

Client Sample ID: MW-14
Date Collected: 04/28/11 12:25
Date Received: 04/29/11 09:30

Lab Sample ID: 480-4372-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	15316	05/09/11 16:32	CDC	TAL BUF
Total/NA	Prep	3510C			14785	05/04/11 09:35	KV	TAL BUF
Total/NA	Analysis	8082		1	14904	05/06/11 01:01	JM	TAL BUF

Client Sample ID: MW-18
Date Collected: 04/28/11 14:40
Date Received: 04/29/11 09:30

Lab Sample ID: 480-4372-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	15316	05/09/11 16:57	CDC	TAL BUF
Total/NA	Prep	3510C			14785	05/04/11 09:35	KV	TAL BUF
Total/NA	Analysis	8082		1	14904	05/06/11 01:17	JM	TAL BUF
Total/NA	Prep	200.7			14569	05/03/11 09:40	MM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	14759	05/03/11 20:08	AH	TAL BUF

Client Sample ID: 042811-DUP
Date Collected: 04/28/11 00:00
Date Received: 04/29/11 09:30

Lab Sample ID: 480-4372-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	15316	05/09/11 17:22	CDC	TAL BUF
Total/NA	Prep	3510C			14785	05/04/11 09:35	KV	TAL BUF
Total/NA	Analysis	8082		1	14904	05/06/11 01:33	JM	TAL BUF
Total/NA	Prep	200.7			14569	05/03/11 09:40	MM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	14759	05/03/11 20:10	AH	TAL BUF

Laboratory References:

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

Certification Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-4372-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo		USDA		P330-08-00242
TestAmerica Buffalo	Arkansas	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	Georgia EPD	4	N/A
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	Kentucky UST	4	30
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
TestAmerica Buffalo	Virginia	State Program	3	278
TestAmerica Buffalo	Washington	State Program	10	C1677
TestAmerica Buffalo	West Virginia	West Virginia DEP	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-4372-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-4372-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-4372-1	MW-6R	Water	04/28/11 14:00	04/29/11 09:30
480-4372-2	MW-13A	Water	04/28/11 13:15	04/29/11 09:30
480-4372-3	MW-14	Water	04/28/11 12:25	04/29/11 09:30
480-4372-4	MW-18	Water	04/28/11 14:40	04/29/11 09:30
480-4372-5	042811-DUP	Water	04/28/11 00:00	04/29/11 09:30

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information
Client Contact: Mr. Roger Creighton
Company: Synapse Risk Management, LLC
Address: Historic Risk Management LLC 360 Erie Blvd. East, 2nd Floor
City: Syracuse
State, Zip: NY, 13202
Phone: 315-475-3700(Tel) 315-475-3760(Fax)
Email: rcreighton@synapseriskmanagement.com
Project Name: 2200 Bleeker Street Semi-annual
Site:

Sampler:
Phone:
Due Date Requested:
TAT Requested (days):
PO #: Purchase Order not requir
WO #:
Project #: 48002697
SSOW#:

Lab PM: Giglia, Denise
E-Mail: denise.giglia@testamericainc.com
Carrier Tracking No(s):
COC No: 480-12843-2445.1
Page: Page 1 of 1
Job #:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	[redacted]	200.7 - (MOD) Priority Pollutant Metals ICP	8260B - (MOD) TCL list OLM04.2	8082 - Appendix II PCBs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N		
MW-8R	4/28/2011	14:00	G	Water			1				
MW-13A MS/MSD		13:15	G	Water			1	3	2		
MW-14		12:25	G	Water			1	3	2		
MW-18		14:40	G	Water			1	3	2		
042811 -DUP		—	G	Water			1	3	2		
				Water							

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

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

Deliverable Requested: I, II, III, IV, Other (specify)
Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:
Relinquished by:		Date/Time: 4/28/11 17:25	Company	Received by:	Date/Time: 4/28/11 17'25	Company: SY
Relinquished by:		Date/Time: 4/28/11, 19:00	Company: SY	Received by:	Date/Time: 4/29/11 0930	Company
Relinquished by:		Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks: 2e2.8		

Login Sample Receipt Checklist

Client: Synapse Risk Management, LLC

Job Number: 480-4372-1

Login Number: 4372
List Number: 1
Creator: Wienke, Robert

List Source: TestAmerica Buffalo

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

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ANALYTICAL REPORT

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

TestAmerica Job ID: 480-4414-1
Client Project/Site: 2200 Bleeker Street Semi-annual

For:
Synapse Risk Management, LLC
Historic Risk Management LLC
360 Erie Blvd. East, 2nd Floor
Syracuse, New York 13202

Attn: Senior Associate Roger R Creighton

Melissa Deyo

Authorized for release by:
05/12/2011 01:06:49 PM
Melissa Deyo
Project Administrator
melissa.deyo@testamericainc.com

Designee for

Denise Giglia
Project Manager I
denise.giglia@testamericainc.com

Table of Contents

Qualifier Definition/Glossary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-4414-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Job ID: 480-4414-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-4414-1

Receipt
All samples were received in good condition within temperature requirements.

Metals
No analytical or quality issues were noted.

Detection Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-4414-1

Client Sample ID: MW-14 — Lab Sample ID: 480-4414-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.0012	J	0.0040	0.00087	mg/L	1		200.7 Rev 4.4	Total/NA
Copper	0.0049	J	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.0091	J	0.010	0.0017	mg/L	1		200.7 Rev 4.4	Total/NA

Client Sample ID: MW-6R — Lab Sample ID: 480-4414-2

No Detections.

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-4414-1

Client Sample ID: MW-14

Lab Sample ID: 480-4414-1

Date Collected: 04/29/11 14:15

Matrix: Water

Date Received: 04/30/11 09:15

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.0012**	**J**	0.0040	0.00087	mg/L		05/03/11 09:40	05/03/11 19:04	1
Copper	**0.0049**	**J**	0.010	0.0015	mg/L		05/03/11 09:40	05/03/11 19:04	1
Lead	ND		0.0050	0.0030	mg/L		05/03/11 09:40	05/03/11 19:04	1
Zinc	**0.0091**	**J**	0.010	0.0017	mg/L		05/03/11 09:40	05/03/11 19:04	1

Client Sample ID: MW-6R

Lab Sample ID: 480-4414-2

Date Collected: 04/29/11 14:30

Matrix: Water

Date Received: 04/30/11 09:15

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0040	0.00087	mg/L		05/03/11 09:40	05/03/11 19:06	1
Copper	ND		0.010	0.0015	mg/L		05/03/11 09:40	05/03/11 19:06	1
Lead	ND		0.0050	0.0030	mg/L		05/03/11 09:40	05/03/11 19:06	1
Zinc	ND		0.010	0.0017	mg/L		05/03/11 09:40	05/03/11 19:06	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-14570/1-A
Matrix: Water
Analysis Batch: 14758

Client Sample ID: MB 480-14570/1-A
Prep Type: Total/NA
Prep Batch: 14570

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0040	0.00087	mg/L		05/03/11 09:40	05/03/11 18:09	1
Copper	ND		0.010	0.0015	mg/L		05/03/11 09:40	05/03/11 18:09	1
Lead	ND		0.0050	0.0030	mg/L		05/03/11 09:40	05/03/11 18:09	1
Zinc	ND		0.010	0.0017	mg/L		05/03/11 09:40	05/03/11 18:09	1

Lab Sample ID: LCS 480-14570/2-A
Matrix: Water
Analysis Batch: 14758

Client Sample ID: LCS 480-14570/2-A
Prep Type: Total/NA
Prep Batch: 14570

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Chromium	0.200	0.197		mg/L		99	85 - 115
Copper	0.200	0.197		mg/L		98	85 - 115
Lead	0.200	0.189		mg/L		95	85 - 115
Zinc	0.200	0.191		mg/L		96	85 - 115

QC Association Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-4414-1

Metals

Prep Batch: 14570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-14570/1-A	MB 480-14570/1-A	Total/NA	Water	200.7	
LCS 480-14570/2-A	LCS 480-14570/2-A	Total/NA	Water	200.7	
480-4414-1	MW-14	Total/NA	Water	200.7	
480-4414-2	MW-6R	Total/NA	Water	200.7	

Analysis Batch: 14758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-14570/1-A	MB 480-14570/1-A	Total/NA	Water	200.7 Rev 4.4	14570
LCS 480-14570/2-A	LCS 480-14570/2-A	Total/NA	Water	200.7 Rev 4.4	14570
480-4414-1	MW-14	Total/NA	Water	200.7 Rev 4.4	14570
480-4414-2	MW-6R	Total/NA	Water	200.7 Rev 4.4	14570

Lab Chronicle

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-4414-1

Client Sample ID: MW-14

Lab Sample ID: 480-4414-1

Date Collected: 04/29/11 14:15

Matrix: Water

Date Received: 04/30/11 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			14570	05/03/11 09:40	MM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	14758	05/03/11 19:04	AH	TAL BUF

Client Sample ID: MW-6R

Lab Sample ID: 480-4414-2

Date Collected: 04/29/11 14:30

Matrix: Water

Date Received: 04/30/11 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	200.7			14570	05/03/11 09:40	MM	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	14758	05/03/11 19:06	AH	TAL BUF

Laboratory References:

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

Certification Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-4414-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo		USDA		P330-08-00242
TestAmerica Buffalo	Arkansas	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	Georgia EPD	4	N/A
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	Kentucky UST	4	30
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
TestAmerica Buffalo	Virginia	State Program	3	278
TestAmerica Buffalo	Washington	State Program	10	C1677
TestAmerica Buffalo	West Virginia	West Virginia DEP	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-4414-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

Sample Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-4414-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-4414-1	MW-14	Water	04/29/11 14:15	04/30/11 09:15
480-4414-2	MW-6R	Water	04/29/11 14:30	04/30/11 09:15

Chain of Custody Record

Temperature on Receipt ____.

Drinking Water? Yes ☐ No ☐

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TAL-4124 (1007)

Client: Synapse Risk Management	Project Manager: ROGER CREIGHTON	Date: 4/29/2011	Chain of Custody Number: 126305
Address: 360 Erie Blvd East	Telephone Number (Area Code)/Fax Number: 315.475-3200 | 3780	Lab Number:	Page ___ of ___
City: Syracuse	State: NY	Zip Code: 13802	Site Contact: Denise Gigila	Lab Contact:
Project Name and Location (State): 2200 Bleecker Street Semi-Annual GW	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: DANA01.11.02			

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	ZnAc/ NaOH	200.7 Metals	Special Instructions/ Conditions of Receipt
MW-14	4/29/2011	14:15		X										*Select List*
MW-6R	↓	14:30		X										

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

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

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other 10 Day

QC Requirements (Specify)

1. Relinquished By		Date: 4/29/2011	Time: 16:20	1. Received By	SYR	Date: 4-29-11	Time: 16:15
2. Relinquished By	SYR	Date: 4-29-11	Time: 18:30	2. Received By		Date: 4/30/11	Time: 0917
3. Relinquished By		Date:	Time:	3. Received By		Date:	Time:

Comments:

3.1

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: Synapse Risk Management, LLC

Job Number: 480-4414-1

Login Number: 4414

List Number: 1

Creator: Szymanski, Andrew

List Source: TestAmerica Buffalo

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

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ANALYTICAL REPORT

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

TestAmerica Job ID: 480-11825-1
Client Project/Site: 2200 Bleeker Street Semi-annual

For:
Synapse Risk Management, LLC
Historic Risk Management LLC
360 Erie Blvd. East, 2nd Floor
Syracuse, New York 13202

Attn: Mr. Roger R Creighton

Melissa Deyo

Authorized for release by:
11/9/2011 9:01:51 AM
Melissa Deyo
Project Administrator
melissa.deyo@testamericainc.com

Designee for

Denise Giglia
Project Manager I
denise.giglia@testamericainc.com

Table of Contents

Definitions/Glossary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-11825-1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 480-11825-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-11825-1

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Metals
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

Detection Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-11825-1

Client Sample ID: MW-14 — Lab Sample ID: 480-11825-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.0013		0.0040	0.00087	mg/L	1		200.7 Rev 4.4	Total/NA
Copper	0.0022	J	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Nickel	0.0029	J	0.010	0.0013	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.0047	J	0.010	0.0017	mg/L	1		200.7 Rev 4.4	Total/NA

Client Sample ID: MW-13A — Lab Sample ID: 480-11825-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.0010	J	0.0040	0.00087	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.0040	J	0.010	0.0017	mg/L	1		200.7 Rev 4.4	Total/NA

Client Sample ID: MW-6R — Lab Sample ID: 480-11825-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	0.0024	J	0.0040	0.00087	mg/L	1		200.7 Rev 4.4	Total/NA
Copper	0.0039	J	0.010	0.0015	mg/L	1		200.7 Rev 4.4	Total/NA
Nickel	0.0023	J	0.010	0.0013	mg/L	1		200.7 Rev 4.4	Total/NA
Zinc	0.0095	J	0.010	0.0017	mg/L	1		200.7 Rev 4.4	Total/NA

Client Sample ID: MW-18 — Lab Sample ID: 480-11825-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	22		1.0	0.90	ug/L	1		8260B	Total/NA
Zinc	0.0022	J	0.010	0.0017	mg/L	1		200.7 Rev 4.4	Total/NA

Client Sample ID: 102511-DUP — Lab Sample ID: 480-11825-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	22		1.0	0.90	ug/L	1		8260B	Total/NA
Zinc	0.0028	J	0.010	0.0017	mg/L	1		200.7 Rev 4.4	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 480-11825-6

No Detections

Client Sample ID: MW-14

Date Collected: 10/25/11 10:30
Date Received: 10/26/11 10:00

Lab Sample ID: 480-11825-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/05/11 14:28	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/05/11 14:28	1
Trichloroethene	ND		1.0	0.46	ug/L			11/05/11 14:28	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/05/11 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*125*		*66 - 137*		*11/05/11 14:28*	*1*
Toluene-d8 (Surr)	*102*		*71 - 126*		*11/05/11 14:28*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*11/05/11 14:28*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.53	0.19	ug/L		10/28/11 08:13	10/29/11 12:39	1
PCB-1221	ND		0.53	0.19	ug/L		10/28/11 08:13	10/29/11 12:39	1
PCB-1232	ND		0.53	0.19	ug/L		10/28/11 08:13	10/29/11 12:39	1
PCB-1242	ND		0.53	0.19	ug/L		10/28/11 08:13	10/29/11 12:39	1
PCB-1248	ND		0.53	0.19	ug/L		10/28/11 08:13	10/29/11 12:39	1
PCB-1254	ND		0.53	0.26	ug/L		10/28/11 08:13	10/29/11 12:39	1
PCB-1260	ND		0.53	0.26	ug/L		10/28/11 08:13	10/29/11 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*51*		*12 - 137*	*10/28/11 08:13*	*10/29/11 12:39*	*1*
Tetrachloro-m-xylene	*118*		*35 - 121*	*10/28/11 08:13*	*10/29/11 12:39*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.0013**		0.0040	0.00087	mg/L		10/27/11 12:30	10/27/11 18:09	1
Copper	**0.0022**	**J**	0.010	0.0015	mg/L		10/27/11 12:30	10/27/11 18:09	1
Lead	ND		0.0050	0.0030	mg/L		10/27/11 12:30	10/27/11 18:09	1
Nickel	**0.0029**	**J**	0.010	0.0013	mg/L		10/27/11 12:30	10/27/11 18:09	1
Zinc	**0.0047**	**J**	0.010	0.0017	mg/L		10/27/11 12:30	10/27/11 18:09	1

Client Sample ID: MW-13A

Date Collected: 10/25/11 11:15
Date Received: 10/26/11 10:00

Lab Sample ID: 480-11825-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/05/11 14:50	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/05/11 14:50	1
Trichloroethene	ND		1.0	0.46	ug/L			11/05/11 14:50	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/05/11 14:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*126*		*66 - 137*		*11/05/11 14:50*	*1*
Toluene-d8 (Surr)	*101*		*71 - 126*		*11/05/11 14:50*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*11/05/11 14:50*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.53	0.19	ug/L		10/28/11 08:13	10/29/11 12:54	1

Client Sample ID: MW-13A

Date Collected: 10/25/11 11:15
Date Received: 10/26/11 10:00

Lab Sample ID: 480-11825-2

Matrix: Water

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	ND		0.53	0.19	ug/L		10/28/11 08:13	10/29/11 12:54	1
PCB-1232	ND		0.53	0.19	ug/L		10/28/11 08:13	10/29/11 12:54	1
PCB-1242	ND		0.53	0.19	ug/L		10/28/11 08:13	10/29/11 12:54	1
PCB-1248	ND		0.53	0.19	ug/L		10/28/11 08:13	10/29/11 12:54	1
PCB-1254	ND		0.53	0.27	ug/L		10/28/11 08:13	10/29/11 12:54	1
PCB-1260	ND		0.53	0.27	ug/L		10/28/11 08:13	10/29/11 12:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*12 - 137*	*10/28/11 08:13*	*10/29/11 12:54*	*1*
Tetrachloro-m-xylene	*88*		*35 - 121*	*10/28/11 08:13*	*10/29/11 12:54*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	**0.0010**	**J**	0.0040	0.00087	mg/L		10/27/11 12:30	10/27/11 18:11	1
Copper	ND		0.010	0.0015	mg/L		10/27/11 12:30	10/27/11 18:11	1
Lead	ND		0.0050	0.0030	mg/L		10/27/11 12:30	10/27/11 18:11	1
Nickel	ND		0.010	0.0013	mg/L		10/27/11 12:30	10/27/11 18:11	1
Zinc	**0.0040**	**J**	0.010	0.0017	mg/L		10/27/11 12:30	10/27/11 18:11	1

Client Sample ID: MW-6R

Date Collected: 10/25/11 12:10
Date Received: 10/26/11 10:00

Lab Sample ID: 480-11825-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/05/11 15:13	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/05/11 15:13	1
Trichloroethene	ND		1.0	0.46	ug/L			11/05/11 15:13	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/05/11 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*66 - 137*		*11/05/11 15:13*	*1*
Toluene-d8 (Surr)	*100*		*71 - 126*		*11/05/11 15:13*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*11/05/11 15:13*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.48	0.17	ug/L		10/28/11 08:13	10/29/11 13:09	1
PCB-1221	ND		0.48	0.17	ug/L		10/28/11 08:13	10/29/11 13:09	1
PCB-1232	ND		0.48	0.17	ug/L		10/28/11 08:13	10/29/11 13:09	1
PCB-1242	ND		0.48	0.17	ug/L		10/28/11 08:13	10/29/11 13:09	1
PCB-1248	ND		0.48	0.17	ug/L		10/28/11 08:13	10/29/11 13:09	1
PCB-1254	ND		0.48	0.24	ug/L		10/28/11 08:13	10/29/11 13:09	1
PCB-1260	ND		0.48	0.24	ug/L		10/28/11 08:13	10/29/11 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*12 - 137*	*10/28/11 08:13*	*10/29/11 13:09*	*1*
Tetrachloro-m-xylene	*84*		*35 - 121*	*10/28/11 08:13*	*10/29/11 13:09*	*1*

Client Sample ID: MW-6R

Date Collected: 10/25/11 12:10
Date Received: 10/26/11 10:00

Lab Sample ID: 480-11825-3
Matrix: Water

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.0024	J	0.0040	0.00087	mg/L		10/27/11 12:30	10/27/11 18:13	1
Copper	0.0039	J	0.010	0.0015	mg/L		10/27/11 12:30	10/27/11 18:13	1
Lead	ND		0.0050	0.0030	mg/L		10/27/11 12:30	10/27/11 18:13	1
Nickel	0.0023	J	0.010	0.0013	mg/L		10/27/11 12:30	10/27/11 18:13	1
Zinc	0.0095	J	0.010	0.0017	mg/L		10/27/11 12:30	10/27/11 18:13	1

Client Sample ID: MW-18

Date Collected: 10/25/11 13:00
Date Received: 10/26/11 10:00

Lab Sample ID: 480-11825-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/05/11 16:19	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/05/11 16:19	1
Trichloroethene	ND		1.0	0.46	ug/L			11/05/11 16:19	1
Vinyl chloride	22		1.0	0.90	ug/L			11/05/11 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*125*		*66 - 137*		*11/05/11 16:19*	*1*
Toluene-d8 (Surr)	*98*		*71 - 126*		*11/05/11 16:19*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*11/05/11 16:19*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.54	0.19	ug/L		10/28/11 08:13	10/29/11 13:53	1
PCB-1221	ND		0.54	0.19	ug/L		10/28/11 08:13	10/29/11 13:53	1
PCB-1232	ND		0.54	0.19	ug/L		10/28/11 08:13	10/29/11 13:53	1
PCB-1242	ND		0.54	0.19	ug/L		10/28/11 08:13	10/29/11 13:53	1
PCB-1248	ND		0.54	0.19	ug/L		10/28/11 08:13	10/29/11 13:53	1
PCB-1254	ND		0.54	0.27	ug/L		10/28/11 08:13	10/29/11 13:53	1
PCB-1260	ND		0.54	0.27	ug/L		10/28/11 08:13	10/29/11 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*76*		*12 - 137*	*10/28/11 08:13*	*10/29/11 13:53*	*1*
Tetrachloro-m-xylene	*81*		*35 - 121*	*10/28/11 08:13*	*10/29/11 13:53*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0040	0.00087	mg/L		10/27/11 12:30	10/27/11 18:23	1
Copper	ND		0.010	0.0015	mg/L		10/27/11 12:30	10/27/11 18:23	1
Lead	ND		0.0050	0.0030	mg/L		10/27/11 12:30	10/27/11 18:23	1
Nickel	ND		0.010	0.0013	mg/L		10/27/11 12:30	10/27/11 18:23	1
Zinc	0.0022	J	0.010	0.0017	mg/L		10/27/11 12:30	10/27/11 18:23	1

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-11825-1

Client Sample ID: 102511-DUP

Date Collected: 10/25/11 00:00
Date Received: 10/26/11 10:00

Lab Sample ID: 480-11825-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/05/11 16:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/05/11 16:41	1
Trichloroethene	ND		1.0	0.46	ug/L			11/05/11 16:41	1
Vinyl chloride	**22**		1.0	0.90	ug/L			11/05/11 16:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*130*		*66 - 137*		*11/05/11 16:41*	*1*
Toluene-d8 (Surr)	*99*		*71 - 126*		*11/05/11 16:41*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*11/05/11 16:41*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		10/28/11 08:13	10/29/11 14:38	1
PCB-1221	ND		0.50	0.18	ug/L		10/28/11 08:13	10/29/11 14:38	1
PCB-1232	ND		0.50	0.18	ug/L		10/28/11 08:13	10/29/11 14:38	1
PCB-1242	ND		0.50	0.18	ug/L		10/28/11 08:13	10/29/11 14:38	1
PCB-1248	ND		0.50	0.18	ug/L		10/28/11 08:13	10/29/11 14:38	1
PCB-1254	ND		0.50	0.25	ug/L		10/28/11 08:13	10/29/11 14:38	1
PCB-1260	ND		0.50	0.25	ug/L		10/28/11 08:13	10/29/11 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*12 - 137*	*10/28/11 08:13*	*10/29/11 14:38*	*1*
Tetrachloro-m-xylene	*83*		*35 - 121*	*10/28/11 08:13*	*10/29/11 14:38*	*1*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0040	0.00087	mg/L		10/27/11 12:30	10/27/11 18:30	1
Copper	ND		0.010	0.0015	mg/L		10/27/11 12:30	10/27/11 18:30	1
Lead	ND		0.0050	0.0030	mg/L		10/27/11 12:30	10/27/11 18:30	1
Nickel	ND		0.010	0.0013	mg/L		10/27/11 12:30	10/27/11 18:30	1
Zinc	**0.0028**	**J**	0.010	0.0017	mg/L		10/27/11 12:30	10/27/11 18:30	1

Client Sample ID: TRIP BLANK

Date Collected: 10/25/11 10:00
Date Received: 10/26/11 10:00

Lab Sample ID: 480-11825-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/05/11 17:03	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/05/11 17:03	1
Trichloroethene	ND		1.0	0.46	ug/L			11/05/11 17:03	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/05/11 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*126*		*66 - 137*		*11/05/11 17:03*	*1*
Toluene-d8 (Surr)	*99*		*71 - 126*		*11/05/11 17:03*	*1*
4-Bromofluorobenzene (Surr)	*97*		*73 - 120*		*11/05/11 17:03*	*1*

Surrogate Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-11825-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		12DCE	TOL	BFB
Lab Sample ID	Client Sample ID	(66-137)	(71-126)	(73-120)
480-11825-1	MW-14	125	102	98
480-11825-2	MW-13A	126	101	98
480-11825-3	MW-6R	124	100	98
480-11825-3 MS	MW-6R	124	100	104
480-11825-3 MSD	MW-6R	123	101	104
480-11825-4	MW-18	125	98	97
480-11825-5	102511-DUP	130	99	98
480-11825-6	TRIP BLANK	126	99	97
LCS 480-39089/4	Lab Control Sample	122	101	102
MB 480-39089/5	Method Blank	120	102	98

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(12-137)	(35-121)
480-11825-1	MW-14	51	118
480-11825-2	MW-13A	66	88
480-11825-3	MW-6R	71	84
480-11825-3 MS	MW-6R	63	82
480-11825-3 MSD	MW-6R	46	95
480-11825-4	MW-18	76	81
480-11825-5	102511-DUP	82	83
LCS 480-37735/2-A	Lab Control Sample	56	83
MB 480-37735/1-A	Method Blank	60	75

Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-39089/5
Matrix: Water
Analysis Batch: 39089

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/05/11 12:58	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			11/05/11 12:58	1
Trichloroethene	ND		1.0	0.46	ug/L			11/05/11 12:58	1
Vinyl chloride	ND		1.0	0.90	ug/L			11/05/11 12:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*66 - 137*		*11/05/11 12:58*	*1*
Toluene-d8 (Surr)	*102*		*71 - 126*		*11/05/11 12:58*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*11/05/11 12:58*	*1*

Lab Sample ID: LCS 480-39089/4
Matrix: Water
Analysis Batch: 39089

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
cis-1,2-Dichloroethene			25.0	21.5		ug/L		86	74 - 124		
trans-1,2-Dichloroethene			25.0	22.7		ug/L		91	73 - 127		
Trichloroethene			25.0	22.5		ug/L		90	74 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*122*		*66 - 137*
Toluene-d8 (Surr)	*101*		*71 - 126*
4-Bromofluorobenzene (Surr)	*102*		*73 - 120*

Lab Sample ID: 480-11825-3 MS
Matrix: Water
Analysis Batch: 39089

Client Sample ID: MW-6R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
cis-1,2-Dichloroethene	ND		25.0	23.7		ug/L		95	74 - 124		
trans-1,2-Dichloroethene	ND		25.0	25.9		ug/L		104	73 - 127		
Trichloroethene	ND		25.0	26.8		ug/L		107	74 - 123		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*124*		*66 - 137*
Toluene-d8 (Surr)	*100*		*71 - 126*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*

Lab Sample ID: 480-11825-3 MSD
Matrix: Water
Analysis Batch: 39089

Client Sample ID: MW-6R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	ND		25.0	24.7		ug/L		99	74 - 124	4	15
trans-1,2-Dichloroethene	ND		25.0	26.3		ug/L		105	73 - 127	2	20
Trichloroethene	ND		25.0	27.3		ug/L		109	74 - 123	2	16

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

Lab Sample ID: 480-11825-3 MSD
Matrix: Water
Analysis Batch: 39089

Client Sample ID: MW-6R
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*123*		*66 - 137*
Toluene-d8 (Surr)	*101*		*71 - 126*
4-Bromofluorobenzene (Surr)	*104*		*73 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-37735/1-A
Matrix: Water
Analysis Batch: 37982

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 37735

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		10/28/11 08:13	10/29/11 12:10	1
PCB-1221	ND		0.50	0.18	ug/L		10/28/11 08:13	10/29/11 12:10	1
PCB-1232	ND		0.50	0.18	ug/L		10/28/11 08:13	10/29/11 12:10	1
PCB-1242	ND		0.50	0.18	ug/L		10/28/11 08:13	10/29/11 12:10	1
PCB-1248	ND		0.50	0.18	ug/L		10/28/11 08:13	10/29/11 12:10	1
PCB-1254	ND		0.50	0.25	ug/L		10/28/11 08:13	10/29/11 12:10	1
PCB-1260	ND		0.50	0.25	ug/L		10/28/11 08:13	10/29/11 12:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*60*		*12 - 137*	*10/28/11 08:13*	*10/29/11 12:10*	*1*
Tetrachloro-m-xylene	*75*		*35 - 121*	*10/28/11 08:13*	*10/29/11 12:10*	*1*

Lab Sample ID: LCS 480-37735/2-A
Matrix: Water
Analysis Batch: 37982

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 37735

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	5.00	4.19		ug/L		84	51 - 123
PCB-1260	5.00	4.67		ug/L		93	52 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	*56*		*12 - 137*
Tetrachloro-m-xylene	*83*		*35 - 121*

Lab Sample ID: 480-11825-3 MS
Matrix: Water
Analysis Batch: 37982

Client Sample ID: MW-6R
Prep Type: Total/NA
Prep Batch: 37735

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		5.21	4.78		ug/L		92	51 - 123
PCB-1260	ND		5.21	4.27		ug/L		82	52 - 128

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	*63*		*12 - 137*
Tetrachloro-m-xylene	*82*		*35 - 121*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 480-11825-3 MSD — **Client Sample ID: MW-6R**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 37982 — **Prep Batch: 37735**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		4.85	4.97		ug/L		102	51 - 123	4	50
PCB-1260	ND		4.85	3.79		ug/L		78	52 - 128	12	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*46*		*12 - 137*
Tetrachloro-m-xylene	*95*		*35 - 121*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 480-37548/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 37755 — **Prep Batch: 37548**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.0040	0.00087	mg/L		10/27/11 12:30	10/27/11 17:27	1
Copper	ND		0.010	0.0015	mg/L		10/27/11 12:30	10/27/11 17:27	1
Lead	ND		0.0050	0.0030	mg/L		10/27/11 12:30	10/27/11 17:27	1
Nickel	ND		0.010	0.0013	mg/L		10/27/11 12:30	10/27/11 17:27	1
Zinc	ND		0.010	0.0017	mg/L		10/27/11 12:30	10/27/11 17:27	1

Lab Sample ID: LCS 480-37548/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 37755 — **Prep Batch: 37548**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.200	0.209		mg/L		105	85 - 115
Copper	0.200	0.211		mg/L		106	85 - 115
Lead	0.200	0.199		mg/L		100	85 - 115
Nickel	0.200	0.209		mg/L		105	85 - 115

Lab Sample ID: LCS 480-37548/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 37837 — **Prep Batch: 37548**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	0.200	0.226		mg/L		113	85 - 115

Lab Sample ID: 480-11825-3 MS — **Client Sample ID: MW-6R**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 37755 — **Prep Batch: 37548**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	0.0024	J	0.200	0.200		mg/L		99	70 - 130
Copper	0.0039	J	0.200	0.195		mg/L		96	70 - 130
Lead	ND		0.200	0.187		mg/L		94	70 - 130
Nickel	0.0023	J	0.200	0.193		mg/L		95	70 - 130
Zinc	0.0095	J	0.200	0.209		mg/L		100	70 - 130

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 480-11825-3 MSD
Matrix: Water
Analysis Batch: 37755

Client Sample ID: MW-6R
Prep Type: Total/NA
Prep Batch: 37548

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	0.0024	J	0.200	0.203		mg/L		100	70 - 130	2	20
Copper	0.0039	J	0.200	0.197		mg/L		97	70 - 130	1	20
Lead	ND		0.200	0.190		mg/L		95	70 - 130	2	20
Nickel	0.0023	J	0.200	0.195		mg/L		97	70 - 130	1	20
Zinc	0.0095	J	0.200	0.210		mg/L		100	70 - 130	0	20

QC Association Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-11825-1

GC/MS VOA

Analysis Batch: 39089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-11825-1	MW-14	Total/NA	Water	8260B	
480-11825-2	MW-13A	Total/NA	Water	8260B	
480-11825-3	MW-6R	Total/NA	Water	8260B	
480-11825-3 MS	MW-6R	Total/NA	Water	8260B	
480-11825-3 MSD	MW-6R	Total/NA	Water	8260B	
480-11825-4	MW-18	Total/NA	Water	8260B	
480-11825-5	102511-DUP	Total/NA	Water	8260B	
480-11825-6	TRIP BLANK	Total/NA	Water	8260B	
LCS 480-39089/4	Lab Control Sample	Total/NA	Water	8260B	
MB 480-39089/5	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 37735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-11825-1	MW-14	Total/NA	Water	3510C	
480-11825-2	MW-13A	Total/NA	Water	3510C	
480-11825-3	MW-6R	Total/NA	Water	3510C	
480-11825-3 MS	MW-6R	Total/NA	Water	3510C	
480-11825-3 MSD	MW-6R	Total/NA	Water	3510C	
480-11825-4	MW-18	Total/NA	Water	3510C	
480-11825-5	102511-DUP	Total/NA	Water	3510C	
LCS 480-37735/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 480-37735/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 37982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-11825-1	MW-14	Total/NA	Water	8082	37735
480-11825-2	MW-13A	Total/NA	Water	8082	37735
480-11825-3	MW-6R	Total/NA	Water	8082	37735
480-11825-3 MS	MW-6R	Total/NA	Water	8082	37735
480-11825-3 MSD	MW-6R	Total/NA	Water	8082	37735
480-11825-4	MW-18	Total/NA	Water	8082	37735
480-11825-5	102511-DUP	Total/NA	Water	8082	37735
LCS 480-37735/2-A	Lab Control Sample	Total/NA	Water	8082	37735
MB 480-37735/1-A	Method Blank	Total/NA	Water	8082	37735

Metals

Prep Batch: 37548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-11825-1	MW-14	Total/NA	Water	200.7	
480-11825-2	MW-13A	Total/NA	Water	200.7	
480-11825-3	MW-6R	Total/NA	Water	200.7	
480-11825-3 MS	MW-6R	Total/NA	Water	200.7	
480-11825-3 MSD	MW-6R	Total/NA	Water	200.7	
480-11825-4	MW-18	Total/NA	Water	200.7	
480-11825-5	102511-DUP	Total/NA	Water	200.7	
LCS 480-37548/2-A	Lab Control Sample	Total/NA	Water	200.7	
MB 480-37548/1-A	Method Blank	Total/NA	Water	200.7	

Metals (Continued)

Analysis Batch: 37755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-11825-1	MW-14	Total/NA	Water	200.7 Rev 4.4	37548
480-11825-2	MW-13A	Total/NA	Water	200.7 Rev 4.4	37548
480-11825-3	MW-6R	Total/NA	Water	200.7 Rev 4.4	37548
480-11825-3 MS	MW-6R	Total/NA	Water	200.7 Rev 4.4	37548
480-11825-3 MSD	MW-6R	Total/NA	Water	200.7 Rev 4.4	37548
480-11825-4	MW-18	Total/NA	Water	200.7 Rev 4.4	37548
480-11825-5	102511-DUP	Total/NA	Water	200.7 Rev 4.4	37548
LCS 480-37548/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	37548
MB 480-37548/1-A	Method Blank	Total/NA	Water	200.7 Rev 4.4	37548

Analysis Batch: 37837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 480-37548/2-A	Lab Control Sample	Total/NA	Water	200.7 Rev 4.4	37548

Lab Chronicle

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-11825-1

Client Sample ID: MW-14

Lab Sample ID: 480-11825-1

Date Collected: 10/25/11 10:30

Matrix: Water

Date Received: 10/26/11 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	39089	11/05/11 14:28	ND	TAL BUF
Total/NA	Prep	3510C			37735	10/28/11 08:13	KV	TAL BUF
Total/NA	Analysis	8082		1	37982	10/29/11 12:39	DB	TAL BUF
Total/NA	Prep	200.7			37548	10/27/11 12:30	SS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	37755	10/27/11 18:09	JRK	TAL BUF

Client Sample ID: MW-13A

Lab Sample ID: 480-11825-2

Date Collected: 10/25/11 11:15

Matrix: Water

Date Received: 10/26/11 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	39089	11/05/11 14:50	ND	TAL BUF
Total/NA	Prep	3510C			37735	10/28/11 08:13	KV	TAL BUF
Total/NA	Analysis	8082		1	37982	10/29/11 12:54	DB	TAL BUF
Total/NA	Prep	200.7			37548	10/27/11 12:30	SS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	37755	10/27/11 18:11	JRK	TAL BUF

Client Sample ID: MW-6R

Lab Sample ID: 480-11825-3

Date Collected: 10/25/11 12:10

Matrix: Water

Date Received: 10/26/11 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	39089	11/05/11 15:13	ND	TAL BUF
Total/NA	Prep	3510C			37735	10/28/11 08:13	KV	TAL BUF
Total/NA	Analysis	8082		1	37982	10/29/11 13:09	DB	TAL BUF
Total/NA	Prep	200.7			37548	10/27/11 12:30	SS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	37755	10/27/11 18:13	JRK	TAL BUF

Client Sample ID: MW-18

Lab Sample ID: 480-11825-4

Date Collected: 10/25/11 13:00

Matrix: Water

Date Received: 10/26/11 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	39089	11/05/11 16:19	ND	TAL BUF
Total/NA	Prep	3510C			37735	10/28/11 08:13	KV	TAL BUF
Total/NA	Analysis	8082		1	37982	10/29/11 13:53	DB	TAL BUF
Total/NA	Prep	200.7			37548	10/27/11 12:30	SS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	37755	10/27/11 18:23	JRK	TAL BUF

Lab Chronicle

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-11825-1

Client Sample ID: 102511-DUP

Lab Sample ID: 480-11825-5

Date Collected: 10/25/11 00:00

Matrix: Water

Date Received: 10/26/11 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	39089	11/05/11 16:41	ND	TAL BUF
Total/NA	Prep	3510C			37735	10/28/11 08:13	KV	TAL BUF
Total/NA	Analysis	8082		1	37982	10/29/11 14:38	DB	TAL BUF
Total/NA	Prep	200.7			37548	10/27/11 12:30	SS	TAL BUF
Total/NA	Analysis	200.7 Rev 4.4		1	37755	10/27/11 18:30	JRK	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-11825-6

Date Collected: 10/25/11 10:00

Matrix: Water

Date Received: 10/26/11 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	39089	11/05/11 17:03	ND	TAL BUF

Laboratory References:

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

Certification Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-11825-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	Georgia EPD	4	N/A
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	Kentucky UST	4	30
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
TestAmerica Buffalo	USDA	USDA		P330-08-00242
TestAmerica Buffalo	Virginia	NELAC Secondary AB	3	460185
TestAmerica Buffalo	Virginia	State Program	3	278
TestAmerica Buffalo	Washington	State Program	10	C1677
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-11825-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL BUF
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
200.7 Rev 4.4	Metals (ICP)	EPA	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: Synapse Risk Management, LLC
Project/Site: 2200 Bleeker Street Semi-annual

TestAmerica Job ID: 480-11825-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-11825-1	MW-14	Water	10/25/11 10:30	10/26/11 10:00
480-11825-2	MW-13A	Water	10/25/11 11:15	10/26/11 10:00
480-11825-3	MW-6R	Water	10/25/11 12:10	10/26/11 10:00
480-11825-4	MW-18	Water	10/25/11 13:00	10/26/11 10:00
480-11825-5	102511-DUP	Water	10/25/11 00:00	10/26/11 10:00
480-11825-6	TRIP BLANK	Water	10/25/11 10:00	10/26/11 10:00

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler:	Lab PM: Giglia, Denise	Carrier Tracking No(s):	COC No: 480-18437-4522.1
Client Contact: Mr. Roger Creighton	Phone:	E-Mail: denise.giglia@testamericainc.com		Page: Page 1 of 1
Company: Synapse Risk Management, LLC		Analysis Requested		Job #:
Address: Historic Risk Management LLC 360 Erie Blvd. East, 2nd Floor	Due Date Requested:			Preservation Codes:
City: Syracuse	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: NY, 13202	PO #: Purchase Order not requir			
Phone: 315-475-3700(Tel) 315-475-3760(Fax)	WO #:			
Email: rcreighton@synapseriskmanagement.com	Project #: 48002697			Other:
Project Name: 2200 Bleeker Street Semi-annual	SSOW#:			
Site:				

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	200.7 - (MOD) Priority Pollutant Metals ICP	8260B - (MOD) TCL list OLM04.2	8082 - Appendix II PCBs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N		
MW-14	10/25/2011	10:50	G	Water			1	3	2		
MW-13A		11:15	G	Water			1	3	2		
MW-6R MS/MSD		12:10	G	Water			3	9	6		
MW-18		13:00	G	Water			1	3	2		
102511-Dup		—	G	Water			1	3	2		
Trip Blank		10:00	—	Water			1				
				Water							

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

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

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

Special Instructions/QC Requirements:

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

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		10/25/2011 16:25	Syn		10.25.11 16:25	Syn
2		10.25.11 17:00	Syn		10/26/11 1000	
3						

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

Cooler Temperature(s) °C and Other Remarks: 3.0 / 1

Login Sample Receipt Checklist

Client: Synapse Risk Management, LLC

Job Number: 480-11825-1

Login Number: 11825

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

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

APPENDIX G
GROUNDWATER TREATMENT SYSTEM INSPECTION LOGS

2011 PERIODIC REVIEW REPORT

2200 BLEECKER STREET
UTICA, NEW YORK 13501
NYSDEC SITE NO. 622003

SEPTEMBER 2012

1/4/2011
Weather: 20° Snowing
Onsite for Monthly sampling

- System check - ok
- EQ tank ~ 1400 gal
- Changed P1 + P2 bag filters.
- Sampled MH1 at 9:55, pH = 6.53
- Sampled MH-2 at 10:05, pH = 6.76
- Sampled ~~MH~~ Effluent at 10:15, pH = 7.59

BFM = 10584500 gal.

MH1 = 4387529
MH2 = 2941953
Sump = 1337
Effl. = 12245510

System normal / offsite at 1035

Dawn Zook

1/10/2011
Weather 15° SNOWing
Onsite for weekly sampling
at 2:45 pm

- System check - ok.
- EQ tank @ 1100 gal.
- Changed P1 → P2

- Sampled effluent at 3:10 pm
pH = 7.23

- BFM = 10584500 gal.

- Control Panel:
MH1 : 4401857
MH2 : 2944787
SUMP : 1342
Effluent: 12288620

- System normal, offsite at 330pm

David Brent

1/17/2010
Weather: 10°
Onsite for weekly sampling
at ~~1715~~ 430PM

- System check - ok
- EQ tank @ 1200 gal
- Changed P1 + P2

- Sampled effluent at 1715
pH = 7.40

- BCM = 10584500

- Control Panel:
MH-1 : 4416631
MH-2 : 2947766
SUMP : 1342
Effluent: 12335057

- System normal, offsite at

David Brent

1/25/11

WEATHER 25° CLOUDY (WARM)
ON SITE FOR WEEKLY SAMPLING
AND SYSTEM CHECK.
09:00 . .
- NOTE - HIGH SNOW BANK
PREVENTS ACCESS OF TRUCK
TO DOOR.

SYSTEM OPERATING AS
DESIGNED . .

BFM 10584500
MH1 4431567
MH2 2951263
SUMP 1342

EFFL. 12 384 310

pH - EFFLUENT 8.1

OFFSITE @ 12:30

1/31/2011
Weather: 20° Sunny
onsite for weekly sampling and
system check. (at 1:45PM).

- system operating as designed
- EQ tank @ 1500 gal.

- changed P1 + P2 bag filters

- sampled effluent at 1410,
pH = 7.89

- BFM 10584500 gal.

Control Panel:
MH1 4443178
MH2 2953625
SUMP: 1342
Eff: 12419367

offsite at 1425, PM

2/8/2011
Weather 20° Snowing
onsite for Monthly Sampling at 800AM

- High snow banks prevent access by car - entered site on foot outside from Human Technologies bay.

- changed P1 + P2 bag filters

- sampled MH-1 at 840
pH = 6.77

- sampled MH-2 at 850
pH = 6.86

- sampled effluent at 900AM
pH = 7.96

BFM = 10584500

Control Panel:
MH1: 4457717 Sump: 1342
MH2: 2956761 effluent. 12464519

- System normal / as designed - offsite at 930AM
Daniel Berard

2/15/2011
onsite at 8:00AM for weekly sampling

- EQ tank ~1800 gal
- System normal
- changed P1 + P2 bag filters
- sampled effluent at 830AM
pH = 7.32

BFM = 10584500

Control Panel: MH1: 4470210
MH2: 2959728
SUMP: 1348
effluent: 12510820

System normal offsite at 9:30AM

Daniel Berard

2/21/2011
onsite for weekly sampling
at 9:30AM

- System in alarm
- High bag filter pressure.
- changed bag filters
- EQ tank @ 1900 gal.

Sampled effluent at 1040 AM
pH = 6.77

BFM: 10584500 gal.

Control Panel
MH1: 4503230
MH2: 2963252
SUMP: 1348
Eff: 12585062

- System normal, offsite
at 1055 Am

[signature]

2/28/2011
onsite for weekly sampling at
9:00AM

- System in alarm
- MH-2 High
- MS/Panel - overload tripped

- Untripped MH-2 alarm, - MH-2
began pumping again.

- changed bag filters.

- MH-2 High alarm off at 10:30 AM

- sampled effluent at 1045 AM
- pH = 7.30

BFM = 10584500 (same)

MH-1 4531678
MH-2 2964893
SUMP 1353
Effluent 12633752
System normal offsite at 1050 AM

[signature]

3/8/2011
Weather: 20° snowing
Onsite for Monthly sampling at 8:00 AM

- System operating as designed
- EQ tank @ 1200 gal.
- Changed P1 + P2 bag filters
- Sampled MH-1 at 825 AM
  pH = 6.32
- Sampled MH-2 at 845 AM
  pH = 6.79
- Sampled effluent at 855 AM
  pH = 7.39

BFM = 10584500 ✱

Control Panel:
(Perm 1) MH-1: 4588917
(Perm 2) MH-2: 2968301
SUMP: 1380
Effluent: 12727662

System normal - offsite at 9:15 AM

Daniel Beretta

3/14/2011
Onsite for weekly sampling at 8:00 AM

- System in alarm - MH-2 High
- System breaker tripped in MS panel. - untripped MH-2 pump 4 - which started MH-2 pumps.

- Changed P1 and P2 bag filters

- Sampled effluent at 1000 AM
  pH = 6.68

BFM = 10584500 ✱ (same)

Control Panel:
MH1: 4655927
MH2: 2471818
SUMP: 1380
Eff: 12832823

MH-2 Alarm off at 1145
- System operating as designed
- Offsite at 12:00 PM

Daniel Beretta

3/22/2011
Weather: cloudy 30°
Onsite for weekly sampling
w/ K. Flood at 7:00 AM

- System in alarm
  - Bag filter Pressure High
  - MH-1 High
  - MH-2 High

- Changed P1 bag filter at 7:05 AM
- BFP Alarm off at 7:15 AM

- Sampled effluent at 7:55 AM
  pH = 7.02

- Changed P1 and P2 filters at ~~10:00~~ 9:00 AM
- MH1 and MH-2 alarms off @ 9:45 AM
- Changed P1 again at 10:00 AM before leaving site.

BFM = 10584500 (~~*~~ same) needs repair
MH1 - 4705493 sump: 1381
MH2 - 2977741 Eff: 1249019
System running as designed (offsite 1030)

David Berati

3/29/2011

weather: 30° cloudy
on-site for weekly sampling @ 8 AM

- System operating as designed
- PEC had dropped off 2 55 gal metal drums for bag filters, placed inside

Changed P1 bag filter @ 08:30
Changed P2 bag filter @ 08:40

Sampled effluent @ 09:00

BFM: 10584500 * needs repair
MH 1: 04744478 Sump: 0000 1391
MH 2: 02983162 Eff: 13062502
EQ Tank: 1,700 gallons
off site 09:15 Kathryn Flood

4/5/11 Weather: rain/snow 38°

on site @ 9 am
system operating as designed

Sampled MH-2 @0920
pH: 6.86

Sampled MH-1 @0940
pH: 7.07

Sampled effluent @ 10:05
pH: 7.51

Changed P1 @ 0950
P2 @ 0955

BFM 10584500 SUMP 1389
MH1 04779915 EFF 13145845
MH2 02987556 EQ: 1500 gal

system OK
off site 10:30 Kathryn Flood

4/12/11 Weather: PIC 47

on site @ 9:30 am
system in alarm (but A/S on)
EQ HH, MH1 High, MH2 high
EQ tank ~ 2400 gal
~~Pump and EQ tank high was off~~
pumped EQ tank down, reset and EQ high alarm is off. MH1, MH2 pumping.
Change P1 filter @ 955
Change P1 and P2 filter @ 1000 am
MH1 and MH 2 alarms off @ 950

Sampled effluent @ 10:15 am
pH: 7.15
System operating OK
off site @ 10:30
Kathryn Flood

BFM: 10584500 SUMP: 1394
MH1: 04815360 EFF: 13230520
MH2: 02991322 EQ: 1900

4/14/2011
Weather: 70° Sunny
onsite for system alarm at 1:00 pm

- System in alarm
  - MH-1 High Sump
  - MH-2 High Sump
  - Bag filter Pressure High
- EQ Tank @ 1200 gallons
- Changed P1 at 1:10 pm, Bag filter Pressure High Alarm OFF.
- Changed P1 again at 1:40 pm (pressure was high)
- MH-1, MH-2 Alarms off at 2:40 pm
- Changed P1 + P2 bag filters before leaving. (at 3:15 PM)
- System running normally off site at 3:30 pm

Daniel Seali

Weather: P/C 70

4/18/11
On site @ 845 am
System in alarm • MH1 - high sump
• MH2 - high sump
EQ tank @ ~ 950 gallons
P1 pressure 35
P2 pressure <10

Change P1 filter @ 915
P1 filter @ 1045
P2 filter @ 1050 > before leaving
Sampled effluent @ 1055
pH: 7.59

Alarms off @ [redacted] 1050 am

BFM 10584500	SUMP 1399
MH1 04849240	EFF 13302924
MH2 02994634	EQ ~1900 gal

System running normally off site @ 11:10 am

Kathryn E Flood

Weather: snow/rain 55°

4/21/11 on site 9 am

on site to monitor system during building electrical maintenance

system running as designed
no alarms

power back on to system @ 0945
system begins running
changed P1 bag filter @ 10:30

off site @ 10:40 am

Kathryn Hood

Weather: sunny 72

4/26/2011

On site @ 13:10 for weekly sampling
System operating as designed

Change P-1 bag filter @ 1315
" " P-2 bag filter 1320
collecting extra influent samples due to high levels 4/18
Sample MH-2 effluent @ 1340
pH @ 6.52

Sample MH-1 @ 1350
pH @ 6.91

EQ tank low alarm, manually pumped to refill

Sampled effluent @ 14:29
pH 7.54

system running as designed

BFM 1584500 Sump 1416
MH1 0491547 EFF 1346219
MH2 0300747 EQ ~1400 gal

Off site @ 14:45

Kathryn E Hood

Weather: Sprinkles, 50°

4/29/11

On site @ 1515 because system in alarm
MH1 High EQ high
MH2 High

Changed P1 filter @ 1530

Continued to monitor system until 445. Alarms not cleared but EQ tank pumped down.

Changed P1 filter @ 1645

EQ tank filled rapidly so manually pumped down again
1650 MH2 High alarm off

Off site @ 1705

Kathryn Flood

Weather: 41 cloudy, showers

5/3/11

On site @ 0915 for weekly sampling

System running as designed
air stripper on EQ tank ~1450

Changed P1 bag filter @ 0925
P2 bag filter @ 0935

Sampled MH-1 @ 0950 pH 6.88
MH-2 @ 0945 pH 6.45
Effluent @ 1000 pH 7.54

EQ tank low, manually pumping into tank

BFM 10584500 Sump 1590
MH1 04981694 EQ 900
MH2 3008085 Effluent 13611156

Note water on floor under bag filters upon arrival

All alarms cleared 1020
Off site 1025

Kathryn Flood

Weather: sunny, 80°

5/10/11
On site @ 09^00

System in alarm
Bag filter pressure high
MH-1 high, MH-2 High

Change P1 filter @ 09^10
Clear bag filter alarm

Alarms clear @ 10^42

changed P1 bag filter @ 10^45
P2 " " @ 10^55

Sampled effluent @ 11^05
pH: 7.50

BFM 10584500 EQ ~ 1,300
MH-1 5024575
MH-2 03011397
Sump 1600
Effluent 13704799

Off site 11:20
Kathy Pritchard

Weather: 50° rain

5/16/11
On site @ 09^05

System in alarm
MH-1 high
bag filter high pressure

Changed P1 bag filter @ 09^10

Alarms clear @ 09^30
Calibrated pH meter → did not calibrate
Collected sample @ 09^40
pH 6.69

BFM: 10584500
MH-1: 5047914
MH 28 03014935
F.S. 1605
Effluent 13775927
EQ ~ 1400

System running as designed

Off site @ 10^00
Kathy Pritchard

Weather: P/C 70°

5/24/11 On site @ 9⁰⁰

System operating as designed
EQ tank @ ~1900
System not on (AIS blower)

Changed P1 bag filter @ 09¹⁵
" P2 bag filter @ 09²⁰

Sampled Effluent @ 0945
ph: 8.06

MH1 : 5880513 EQ: ~1400
MH2 : 3018857
BFM : 10584500
FS: 1605
Effluent: 13868830

System Running as designed

off site @ 10²⁰

Kathryn Ethoff

On site @ 0910

5/31/11 Weather 75° Sunny hot

System in alarm
MH1 high, MH2 high EQ high
AIS low pressure
Change P1 bag filter @ 09²⁰
P2 bag filter @ 09²⁵

bag filter pressure appears to be running high

MH2 P4 keeps tripping OLTMSA
MH1 P1, P2 tripping occasionally
noticed that lever before flowmeter was halfway between on/off, re-opened valve.

Changed P1, P2 bag filters @ 10¹⁵

Collect sample of bagfilter @ 10⁰⁰
Change P1 bag filter @ 12⁰⁵

Effluent sampled @ 12²⁰
pH 8.53

→

5/31/2011 p2/2

MH 2 not consistently working

Pumped EQ tank to ~1200 gal
MH 1 continuing to work
MH 2 in alarm not pumping

return tomorrow to inspect MH 2

BFM: [illegible]00
MH 1 05105175
MH 2 03099292
FS 1610
EFFLUENT 13900185

off site 1340

Kathryn Flood

weather 80°, sunny, humid,

6/1/11

w/ Chris Mullin
on site to check MH-2 pump

MS overload MH-1 pump 1
~~[illegible]~~, MH-2 high

noted organic matters in filter from yesterday - unusual

change p1 bag filter @ 1050
p2 bag filter @ 1055

flipped MH 2 cover, high water level, contacted PEC re: replacement

off site 11 am

Kathryn G Flood

Weather: MS 10°F

6/6/11

On site @ 0910 for monthly/ weekly sampling

MH-2 high alarm on but pump is broken

Change P1 bag filter @ 0935
" P2 bag filter @ 0945

Sampled MH-1 @ 1010
pH: 7.27

Sampled effluent @ 1025
pH: 8.53

BFM: 10584500
MH1 05133932
MH2 03099294
SUMP 1615
EFFLUENT 13930075

off site @ 1045

Kathryn E Hood

6/14/11 on site @ 905 am

MH2 high alarm (pump broken)

Changed P1, P2 filters @ 920, 925

Sampled effluent @ 0940
ph 8.54

MH1 51588516 SUMP 1620
MH2 3019294
BFM 10584500
Effluent 13956256

off site 1015

Kathryn E Hood

6/20/11 Weather: Sunny 65°

On site @ 8:30 am w/ Paragon EC to begin air stripper cleaning

Sampled Effluent @0940
pH: 8.21

drained EQ tank, discovered that possible ACM present on floor in proposed work area. K Flood collected a sample.

PEC removed brass flowmeter for repair

MH1 05172756
MH2 03019294
FS 1620
Eff 13971608

P1 008774
P2 010614
P3 60414
P4 108876

off site 1015 / Kathryn Flood

6/21/11 Weather: Sunny 80°

On site @ 0745 for pump replacement in MH-2.

Paragon on site 0815, vac truck 0845. Begin pumping MH-2
MH-2 pump #4 locked out / tag out

replaced BFM as a pass through, unable to be repaired

turned on system, MH-1 High Alert also pumping H_2O from MH-2 to MH-1, system running

Changed P1, P2 bag filters @ 0950
P1 bag @0955
only taking P1 @0959
a minute or two P1 @1010
to clog up

unloaded ~ 3K gallons from MH-2 into MH-1 in first load.
unloaded a 2nd 3K gallons into MH-1 from MH-2
Change P1 @ 1155

3rd

1230 - approaching 3K gallon load in vac truck

Change P1 @ 1240
P1 @ 1255
P1 @ 115
P1 @ 215
P1 @ 230
P2 @ 300
P1 @ 330
P1 @ 350

6/22/11 on site 930am

System in alarm
MH-1 high, high bag filter pres

Changed P1 @ 0940
P1 @ 0950

SOBOS on site w/ electricians, in other section of building indicated another power shut off necessary 6/24, CHA to meet them @ 9am

Changed P1 filter @ 1000

flushed MH-2 line, let rusty water empty out effluent port

Change P1, P2 @ 1130
P1 @ 1145
P1 @ 1157
P1 @ 1305

Pump 4 hours: 10888.2

Weather: P/C 72°

6/24/11

On site @ 0800

System in alarm
MH-1 high
MH-2 high
Bag filter pressure high

Change P1 @ 0807

SDGGS on site to do another electrical changeover from 9-21
Changed P1 @ 1215
power not back on until 1300

Change P1, P2 @ 1400

Changed P1 @ 1525

System still in alarm

off site 1545

Kathryn Flood

MH 1 high alarm cleared @ 1350

Changed P1 filter @ 1410
P2 @ 1435
P1 @ 1500
P1 @ 1510
P1, P2 @ 1520
P1 @ 1605

all clear, off site @ 1620

Kathryn Flood

weather 05, sunny

6/27/11

on site @ 11:30 for weekly sampling and to clear alarms
MH-1 high, MH-2 high, BFPA

brought more filters including 100 micron filters to use in P1

Change P1 to 100 mu filter 1040
Change P1, P2 @ 1050
↖ 50 mu
Change P1 @ 1210
Change P1, P2 @ 1345
P1 @ 1355
P2 @ 1410
P1 @ 1440
P1 @ 1445
P2 @ 1455

MH2 alarm off @ 1520

Change P1 (100 mu) @ 1525
Change P2 @ 1545
Change P1 @ 1605
Sampled effluent @ 1610
pH: 8.54 turbid

Changed P1, P2 @ 1600
Changed P1 @ 1640
Changed P1, P2 @ 1700
P1, P2 @ 1725

Pump Hours

P1	8808	P3	—
P2	10646	P4	108939
FS	21406		

Change P1 @ 1740

off site 1800

MH1 still high

Kathryn Elliott

MH1 05177322
MH2 03020158
FS 1884
Effluent 14005330

6/30/11 on site 9[00]
weather Sunny 65°
on site for alarms
MH1 high A/S low
MH2 High BFHPA

changed P1 (10 min) @ 0910
P2 (50 min) 0912

Sampled effluent @ 0920
pH: 8.32

MH1 05179233
MH2 3020181
FS 1887
Effluent 14007296

off site @ 1015

alarms not clear MH1 MH2 high
on site Friday 7/1 for
EQ tank cleaning

Kathryn E Flood

7/1/11 on site 740 am
weather: Sunny 60° and rising

on site for EQ tank cleaning
change P1, P2 @ 0750
pumped tank down to ~800 gal using system
PEC on site @ 0800
3 men brought drums,
vac truck

~1" on measurement stick

MH-1 P1 trips itself occasionally

PEC done w/tank cleaning
10[15] 2.3 drums full of sludge/water
from cleaning, will schedule pick up.
MH2 high alarm off @ 1150 am

Change P1 ~~P2~~ @ 1310

MH-1 high still on when I left
pumped EQ tank down low
left only MH-1 P2 on
so would pump but EQ tank
wouldn't get high
off site @ 1330

Kathryn E Flood

on site 08[00] am
7/6/11 weather P/C 72°
on site for monthly sampling
System in alarm MH 1 high
MSOLT = MH-1 tripped P1

change P1, P2 @ 08[50]

Sample MH 1 effluent @ 0900
pH: 7.94

Sample MH-2 @ 09[10]
pH: 8.10

Sampled Effluent @ 09[15]
pH: 8.78

MH 1 05193080
MH 2 03024401
Eff: 14064361
FS: 1900

EQ pumped down, MH-1 high still on when I left.

pumps P1 08836
P2 10675
P4 109184

Kathryn Thor

on site 09[00] am
7/11/11 weather: Sunny 70°, humid

on site for weekly sampling
MH-1 P1 tripped overload
MH-1 high alarm

reset tripped overload MH-1, water pumping into EQ tank, MH-1 trips again

noted that MH-1 P2 will not run independantly, only w/ P1
P1 keeps tripping

Change P1, P2 bag filters @ 0925

sampled effluent @ 10[20]
pH: 7.75

monitoring system b/c MH-1 P1 keeps tripping itself and MH-1 high alarm not clear

MH1 5208290
MH2 3028106
FS 1910
Effluent 14114649

System running off site @ 12 noon

7/19/11 Weather P/S 15°
on site @ 0905

On site for weekly Sampling
MH-1 high
MH-1 P1 tripped in overload ~~panel~~ panel
clean and
Change P1, P2 @ 0915
Calibrate pH meter
Sampled effluent @ 0945
pH 7.37

pump hours	
P1	008861
P2	13787
P3	—
~~P4~~	109675
~~P5~~	021406

MH1 5212893
MH2 3032864
FS 1920
Effluent 14174775

MH-1 still high
Off site @ 1000

7/25/11 Weather Cloudy 72. Showers

On site @ 230 for weekly Sampling
- MH-1 high
- MH-1 P1 tripped

Changed bag filters @ 1440

collected effluent @ 1455
pH: 7.76

MH1 05215127
MH2 3036562
FS 1920
Effluent 14229709

Off site 1530

Kathryn E Flood

MH-1 still high

8/3/11 Weather: PC 10°

On site @ 0945 for monthly sampling and also to meet electrician

collected MH-1 Sample @ 0915
pH 7.51

MH-2 Sample @ 0945
pH 7.54

Effluent Sampled @ 1000
pH 7.95

Electrician w/PEC on site

turned trip level for MH1 P1 up to 4.2

pump is probably wearing out

Off site @ 1300

8/9/11 Weather 10 /Showers

On site @ 1430 for weekly Sampling

System in alarm
MH-1 EQ, MH-2 high
A/S pressure low

MH2 alarm cleared 1533

Change P1 P2 @ 1550

Sample Effluent @ 1610
pH 8.05

MH1 05246914 FS 1925
MH2 3042597 Eff 14324133

Off site @ 1715

MH1 steel high only.
P1 running to prevent EQ high

8/16/11 weather is pl C

on site @ 11^00 for weekly sampling

System running as designed

change P1, P2 @ 11^30

Sample effluent @ 11^40
pH 8.06

MH1 5269810
MH2 3044308
FS 1925
Effluent 14363415

8/22/11 OnSite @ 7:30AM For Stripper Disassembly & Cleaning By Paragon Environ. onSite @ 8:30

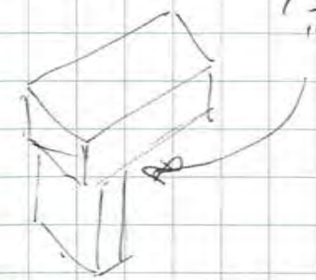
System in Alarm w/ Hi EQ. Few rough
Δ'd Filters & Ran EQ Down to Bough

Stripper Air Pressure @ 23 IN H_2O
Before Cleaning

• EQ Tank Discharge Valve ~~IS~~ Closed & 3" Pump Valve ARE

• Trays opened-up w/ Drill Bit 9/64 HQ

• Weld on Tray #1 Down Spout Repaired Back @ Paragon Shop
Zen Cracks ~1" From welded Seam



• Tray Gaskets in Good Shape
Corner #2 Back Fence Side Split - Should Reform

• Did Not Note fully Plugged Holes
Holes Typically 40% - 60% plugged

• Trays Remain in Good Shape
• Little Build-up on Bottom of Bottom Housing
• In Addition to Tray Cleaning - Bottom Housing & Effluent pipe Head & Exhaust Air Exit (Steel mesh/mist eliminator)

→

8/22/11 Cont.

MH 1 (1) 901.9 hr } moving @ 45.5 gpm to EQ
MH 2 (4) 11044.9 hr }

EQ High Alarm @ 2,350 gal

MH 1 (1) 902.2 hr
MH 2 (4) 11045.1 hr
UNABLE TO RESET

PARAGON off Site @ 4pm

WORK REMAINS - FINISH SCRAPING TRAYS 2, 3 & 4
- CLEAN, SCRAPE BASE HOSE
- CLEAN, SCRAPE INLET TO EFFLUENT PIPE
- CLEAN, SCRAPE 3 FLOATS IN BASE
- ASSEMBLE W/MIST ELIMINATORS IN AIR DISCHARGE

* EQ DISCHARGE VALVE & STRIPPER 3" FEED VALVE CLOSED *

8/23/11 ON SITE @ 8 am to meet PEC to continue air stripper cleaning

manually cleaning bottom most section. Removed elbow joint to effluent, clogged w/sediment build up. Cleaned elbow joint and pipe section inside Stripper. Pipe leading to effluent port remains heavily sedimented

Tray 1 is very bowed/bent as is tray 2

When system turned back on MH 1 high, MH 2 high

Air Stripper PSI running is 13-14 PSI versus 20-23 before cleaning

PEC off site @ 1400

Effluent 180 - 180 gpm

8/26/11 on site 08^45
Bag filter high pressure
MH-1, MH-2 high

Change P1, P2 @ 09^10

A/S turns on severe rattling and vibration

PEC called. on site @ 13^40
began disassembly of A/S
found dead bird outside grate

build up of soot on fan blades
fan spins freely.

Cleaned off fan blades, noise much better.

Sampled effluent @ 1445
pH 8.5

MH1 05287776
MH2 03047716
FS 1935
Eff 14424499

off site @ 1600

KEA

8/31/11

wrench size near valve 1 1/8 inch

PEC and CHA on site @ 08^00
to clean fan and effluent pipe cleanout

water from A/S drained to FSump

gasket between A/S and pipe is dry rotted

Silicone seal on squirrel cage
need to replace gasket and a few bolts

Cleaned out pipe between A/S and vertical bend into concrete floor

used shop vac to help clean fan

System on @ 1455
A/S @ ~20 PSI w/ Eff pump on

→

A/S effluent running @ < 160 GPM, changed P1 @ 1505.
A/S effluent after running ~150 GPM - 160 GPM

System running as designed

PEC and CHA off site @ 1530

Kathryn E Hood

9/2/11 On site @ 0945

System running as designed on site to collect monthly sample
* changed P2 @ 0910
collected MH-2 @ 0920
pH: 7.37

collected MH-1 @ 0935
pH 7.50

collected effluent @ 0945
pH 8.80

MH1 05287776
MH2 03052267
EFF 14522549
FS 1948

9/7/11 on site 1445
for weekly sampling
System OK heavy rain 60"
changed P1, P2 @ 1500
collected effluent 1510
(A/S) pH: 8.75
System was running when
I arrived

EQ ~ 1400 gal

MH1 5207776 Effluent
MH2 3057339 14633382
FS 1948

9/15/11 8:20 am 3", rain
on site for weekly sampling
MH-1, MH-2, EQ high alarms on
Change P1 @ 0830
Sample ~~MH-1~~ effluent @ 0940
pH: 8.85

- use shop vac to tidy up
- bring ladder non haz. labels, speedi dry and new gloves

9/20/11 on site @ 0820

PEC on site to pick up 6 drums
2 non haz, 6 haz.

C. Mullin and Pradip Paul on site along w/ DEC

Change P1, P2 @ 1140

* system running OK upon arrival

collect effluent @ 1155

pH: 8.88

MH1 Same
MH2 03006716
FS 1948
Eff 14879652

9/29/11 On site 1515

- System running as designed
- on site for weekly sampling

Change P1 @ 1520

connect light is blinking

collect sample 1545
pH: 8.82

MH1 Same
MH2 30704121
FS 1948
Eff 14979403

off site @ 1630

Kathryn Flood

10/6/11 40° Sunny

on site for monthly sampling
system running OK

Change P1, P2 @ 0940

Sample MH2 @ 1050
pH : 7.49

MH1 @ 1100
pH 7.52

Effluent @ 1115
pH: 8.77

MH1 — same
MH2 03071709
FS 1948
Eff 15098847

K. Lloyd

10/11/11 60° Sunny

On Site for Weekly effluent
Samplings.

System ON, Manhole #2
Hi Sump Level Alarm on

Changed Filters
Effluent pH = 8.8
Collected 3 ea VOA
EQ Low on Moved MH2
water

10/18/11 60° sunny

On site for weekly sampling @ 1400

Sytem operating as designed, no alarms on.

Changed P1 bag filter @ 1410

Collected effluent @ 1430
pH: 8.03

MH1 Same
MH2 3072482
FS 1948
Effluent 15217547

Kathryn Flood

10/26/11 45° Rainy

On site @ 830
Sytem OK no alarms

Change P1, P2 @ 0900

MH1 5287776
MH2 03072536
FS 1948
Eff 15302504

Collect effluent @ 930
pH 8.76

off site @ 1000

Kathryn Flood

11/1/11 Sunny 50°

On site @ 2:15 for Monthly Sampling

MH1 MH2 EQ High BFP high

Changed P1 @ 2:30 pm

Sample MH1 @ 14:35
pH 7.58

MH2 @ 1450
pH 7.45

Effluent @ ~~1455~~
pH 8.66

Change P1, P2 @ 1510
pH: 8.66

MH1 —
MH2 3072550
FS 1948
Eff 15340075

11/8/11 Cloudy 62°

on site for weekly sampling and telephone line repair w/ Tevis / Mike Redmond

System running as designed - no alarms

Changed P1 @ 14:25
sampled effluent @ 14:40
pH: 8.68

MH1 —
MH2 3072585
FS 1948
Eff 15422449

Unable to determine phone issue due to access. Will coordinate w/ GCGCS to access other parts of building.

11/15/11 On site 0855 am
Weather: 55° p/c

MH1 MH2 EQ high alarm

Calibrate pH meter using 7.01/4.0 calsolutions

let system run to partially clear alarms

Change P1 P2 @ 0950

Sample @ 1000
pH: 8.35

MH1 —
MH2 3072604
FS 1948
~~EQ~~ Eff: 15465415

float to turn on effluent pumps does not appear to be working jiggled float, ran system down

MH1 clear @ 1040

off site @ 1100

Kathryn Flood

11/22/11 On site 0[illegible] am
Sunny 25°

MH1 MH2 EQ high alarms

Change P1, P2 @ 0840
~~BFM~~
Starts @ 0000020

replaced ~~BFM~~ and MH1 flow sensor w/Paragon environmental

Sampled ~~Eff~~ effluent @ 1040

pH: 8.41

MH1 05291253
MH2 ~~0[illegible]~~ 03072606
FS 1948
Effluent 1547921
~~BFM~~: 0000360

off site 1130

Kathryn Flood

11/30

On site @ 0900 w/ C Muller

powerwashed EQ tank

double checked system repairs

12/1/11 on site 0930
27° sunny

EQ high, MH1 high, MH2 high and A/S VFD fault on.

Reset system turned A/S on/off and system started running

MH-2 @ 0955
pH 7.35

MH-1 @ 0900 pH 7.46
change P1 @ 0910
Effluent @ 0920 pH 8.47

MH1 05359555 FS 1948
MH2 03072632 BFM 16950
Effluent 15623940

off site @ 0945

12/6/11 on site @ 0915
40° rainy

system running fine

change P1, P2 @ 0935

Sample effluent @ 0945
pH: 8.35

MH1 05384287FS 1948
MH2 03072641 Effluent 15693897
BFM 24440

12/14/11 on site @ 0815
Weather 32° Sunny
System OK, no alarms
Changed P1 filter @ 0830
Sample Effluent @ 0930
pH: 8.39

BFM 34850 Sump 1948
MH1 54188S2
MH2 03072655
Effluent 15776413

off site @ 0945

Kathryn Flood

12/21/11 on site @ 0900
System OK, no alarms
Change P1, P2 @ 0915
bought more 100 micron filters
Sampled effluent @ 0940
pH 8.65

BFM 43150 PS 1948
MH1 05445701
MH2 03072662
Eff 15856432

off site 1000

Kathryn Flood

12/28/11

On Site @ 0915

System running OK no alarms

Changed P1, P2 @ 0920

Sampled Effluent @ 0945

pH: 9.61

MH1 5484153
MH2 3072672
Effluent 15948499

BFM 54140
FS 1948

Off Site @ 10⁰⁰

Kathryn Hood

1/3/12 On Site @ 0916

System OK, No alarms

On site for monthly sampling

Change P1, P2 @ 10⁰⁰

Sample MH-1 @ 10⁰⁵ pH: 7.45
MH-2 @ 10¹⁰ pH: 7.28

Sample effluent @ 1015
pH: 8.20

MH1 5515275 Effluent 16029640
MH2 3072681 BFM 63225
FS 1948

Off Site @ 10²⁰

Kathryn Hood

APPENDIX H
INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORM

2011 PERIODIC REVIEW REPORT

2200 BLEECKER STREET
UTICA, NEW YORK 13501
NYSDEC SITE NO. 622003

SEPTEMBER 2012

Enclosure 2

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

Site Details **Box 1**

Site No. 622003

Site Name Chicago Pneumatic Tool Company

Site Address: 2200 Bleecker Street Zip Code: 13340
City/Town: Frankfort
County: Herkimer
Site Acreage: 77.0

Reporting Period: August 15, 2011 to August 15, 2012

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

Box 2

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

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

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

Signature of Owner, Remedial Party or Designated Representative

9/18/2012
Date

SITE NO. 622003

Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
104.3-1-24	UTICA HOLDING CO	

Box 4

Description of Engineering Controls

Parcel	Engineering Control
104.3-1-24	Cover System Fencing/Access Control Groundwater Containment Groundwater Treatment System Leachate Collection

Engineering Control Details for Site No. 622003

Parcel: 104.3-1-24

Engineering controls include a groundwater pump & treatment system, an engineered cap in place over a consolidated soil pile, and leachate collection for offsite disposal. A long term groundwater monitoring program is ongoing.

Periodic Review Report (PRR) Certification Statements

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

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

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

YES	NO
☑	☐

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

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

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

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

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

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

YES	NO
☑	☐

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

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

Signature of Owner, Remedial Party or Designated Representative

9/18/2012
Date

IC CERTIFICATIONS
SITE NO. 622003

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

I Roger Creighton (print name) at 360 Erie Blvd East, Syracuse, NY 13202 (print business address)

am certifying as Remedial Party (Owner or Remedial Party)

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

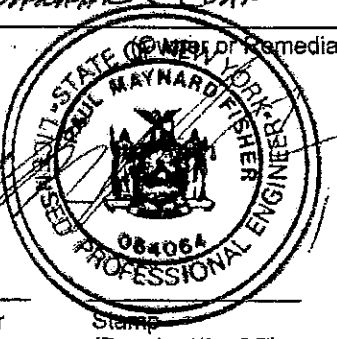
Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

9/18/2012
Date

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

I PAUL M FISHER at 2426 COUNTY RT 12, CENTRAL SQUARE, NY
print name print business address

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



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

Stamp (Required for PE)

Date 2/19/12

IC CERTIFICATIONS
SITE NO. 622003

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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

_____ at _____
print name print business address

am certifying as _____ _____ *(Owner or Remedial Party)* for

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

Signature of Owner or Remedial Party Rendering Certification *Date*

IC/EC CERTIFICATIONS

Box 7

QUALIFIED ENVIRONMENTAL PROFESSIONAL (QEP) SIGNATURE

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

I John P. Sobiech at 3 Winners Circle, Albany, NY 12205
print name print business address

am certifying as a Qualified Environmental Professional for the _____

Chicago Pneumatic Company

(Owner or Remedial Party) for the Site named in the Site Details Section of this form.

STATE OF NEW YORK
JOHN P. SOBIECH
068973
LICENSED PROFESSIONAL ENGINEER

_____ _____ 09/14/12
Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification Stamp (if Required) Date