2008 ANNUAL OPERATION, MAINTENANCE AND MONITORING 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.
Historic Bennett Warehouse
325 East Water Street
Syracuse, New York 13202

April 2009

CERTIFICATION

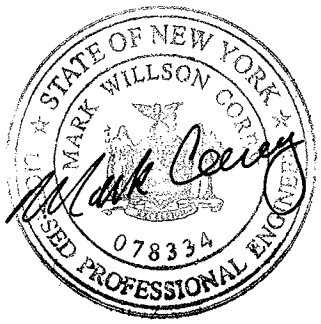
I, Paul M. Fisher, P.E., as a New York State licensed Professional Engineer, certify that the 2007 Annual Operation, Maintenance and Monitoring Report, Sections 1 through 5, for the property located at 2200 Bleecker Street, Utica, New York, pursuant to the Draft DER-10, December 2002, Section 1.5(a)9, 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, Mark Corey, P.E., as a licensed Professional Engineer in the State of New York, certify that Sections 6.2.1, 6.3.1, 6.4.1 and 6.5.1 of the 2008 Annual Operation, Maintenance and Monitoring Report and respective tables, charts and figures, for the property located at 2200 Bleecker Street, Utica, New York, is prepared pursuant to the Draft DER-10, December 2002, Section 1.5(a)8 and has been prepared in accordance with good engineering practices.



AECOM

Mark Corey, P.E.

CERTIFICATION

I, John P. Sobiech , P.E., as a licensed Professional Engineer in the State of New York, certify that Section 6.0, 6.1, 6.2.2, 6.3.2, 6.4.2 and 6.5.2 of the 2008 Annual Operation, Maintenance and Monitoring Report and respective tables, charts and figures, for the property located at 2200 Bleecker Street, Utica, New York, is prepared pursuant to the Draft DER-10, December 2002, Section 1.5(a)8 and has been prepared in accordance with good engineering practices.

Clough Harbour & Associates LLP

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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

1.0 INTRODUCTION

This 2008 Operation, Maintenance and Monitoring Report (OM&M Report) provides an annual account of activities relative to the property located at 2200 Bleecker Street in Utica, New York (the Property). The Chicago Pneumatic Tool Company (CPTC) occupied the Property from 1948 through 1997 for manufacturing. Utica Holding Company (UHC), a subsidiary of Danaher Corporation (Danaher), presently owns the land surrounding the former CPTC main manufacturing building (Main Building) that is leased to Utica Land Equities, LLC (ULE). Coolidge Utica, LLC (Coolidge) presently owns the Main Building and the land beneath. Coolidge and ULE share members and offices.

1.1 Regulatory History

Environmental assessments and investigations conducted between 1985 and 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 v and Page vi, summarizes key documents.

1.2 Purpose

This OM&M Report has been prepared in conformance with the requirements set forth in NYSDEC's Draft DER-10, dated December 25, 2002, *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 OM&M Report, as directed 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; and
- To provide information to the public.

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 Inspection and Maintenance - Discusses the current ownership and uses of the Property, and the ongoing inspection and maintenance requirements associated with the Property's general ongoing use;

Section 3.0 - Remedial Action Facility - Discusses the Remedial Action Facility (RAF) at the Property, primarily consisting of a containment cell, a leachate collection and storage system, and the inspection and maintenance requirements associated with the RAF's ongoing operation;

Section 4.0 - Groundwater Monitoring - Discusses the groundwater monitoring well network at the Property, the groundwater sampling and analytical requirements and subsequent results;

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

Section 6.0 - Groundwater Treatment System - 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 ENSR International Inc. (ENSR) and Clough Harbour Associates on behalf of CPTC.

Each section contains appropriate tables and figures, as they apply to that specific section. This OM&M Report 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 2008, with the exception of the GTS, which has been operated by ENSR of East Syracuse, New York since May 2005, on behalf of CPTC. The operation of the GTS was transferred from ENSR to Clough Harbour Associates of Syracuse, New York in September 2008

2.0 PROPERTY INSPECTION AND MAINTENANCE

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. UHC retains ownership of the Property, which includes the ancillary buildings and the land, excluding the Main Building and the land beneath (see Figure 2-2 – Facility Plan). The Main Building and the land beneath is presently owned by Coolidge, whom subsequently rents/leases portions/sections of the building to various tenants. The peripheral Property receives monthly inspection and maintenance in conjunction with the required inspections of the RAF and associated components. UHC does not have access to the Coolidge Main Building and therefore is not permitted by Coolidge to conduct inspections of the building interior. 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 History

CPTC occupied the Property from 1948 until 1997 for the manufacture of pneumatic tools. Danaher owned CPTC, but later transferred ownership to Atlas Copco. The Property, with the exception of the Main Building and the land beneath, is currently owned by UHC, a subsidiary of Danaher. The 458,000 square foot Main Building and the land beneath has been owned by Coolidge and the remaining land, owned by UHC, is leased by ULE since 1997.

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 Record of Decision 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 an air stripper that has been in operation since 1995. The air stripper and pumping appurtenance were incorporated into the RA. 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 Danaher 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 the 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 three outfalls located on the Property, which is discussed in Section 5. CPTC maintains responsibility for the GTS and associated SPDES permit which is discussed in Section 6.

2.2 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 investigative 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.

2.3 Property Activities

In 2008, the majority of the Property buildings were occupied by tenants that generally include trucking, cosmetic storage, food (dough) manufacturing, and printing businesses. 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 2008.

2.4 Inspection

Scheduled Property visits and subsequent Site Inspection Reports – Form A and Form A1, (Appendix A) are performed and prepared to track Property activities and monitor Property drainage. These reports indicate required maintenance and provide a follow-up to ensure the subsequent maintenance effectiveness. Scheduled and unscheduled Property visits are documented on this and other forms, and are discussed in appropriate sections throughout this report. During 2008, the Property ditches were inspected and observed to be well vegetated, and overall, not generally prone to sedimentation and erosion. Additionally, the ditches are inspected for unusual staining and deposits, of which none were identified. The Property culverts are inspected as well, to ensure they are clear and functional.

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 new 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 (Area 4 and Area 6), originate from the mid portion of the Property, south of the Main Building, and converge to form one north-south 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 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 active throughout 2008, with no notable changes to daily operations; the southern portion of the Property remains wooded and undeveloped. Tenants occupy approximately 80% of the Main Building and continue to use the surrounding access roads and parking lots. The Property is accessed a minimum of once per month allotting reviews of ongoing activities and inspection of the drainage system. No reportable issues of concern were noted with regard to property drainage or physical conditions, therefore, continuation of the scheduled inspection is recommended for this aspect of the Property.

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
2/12/09
SYNAPSE/WIP/DANA 01-04/2008OP&M/DANABD3.DWG

synapse

SYNAPSE RISK MANAGEMENT, LLC
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SYRACUSE, NEW YORK 13202

2008 ANNUAL
OPERATION, MAINTENANCE, AND
MONITORING REPORT

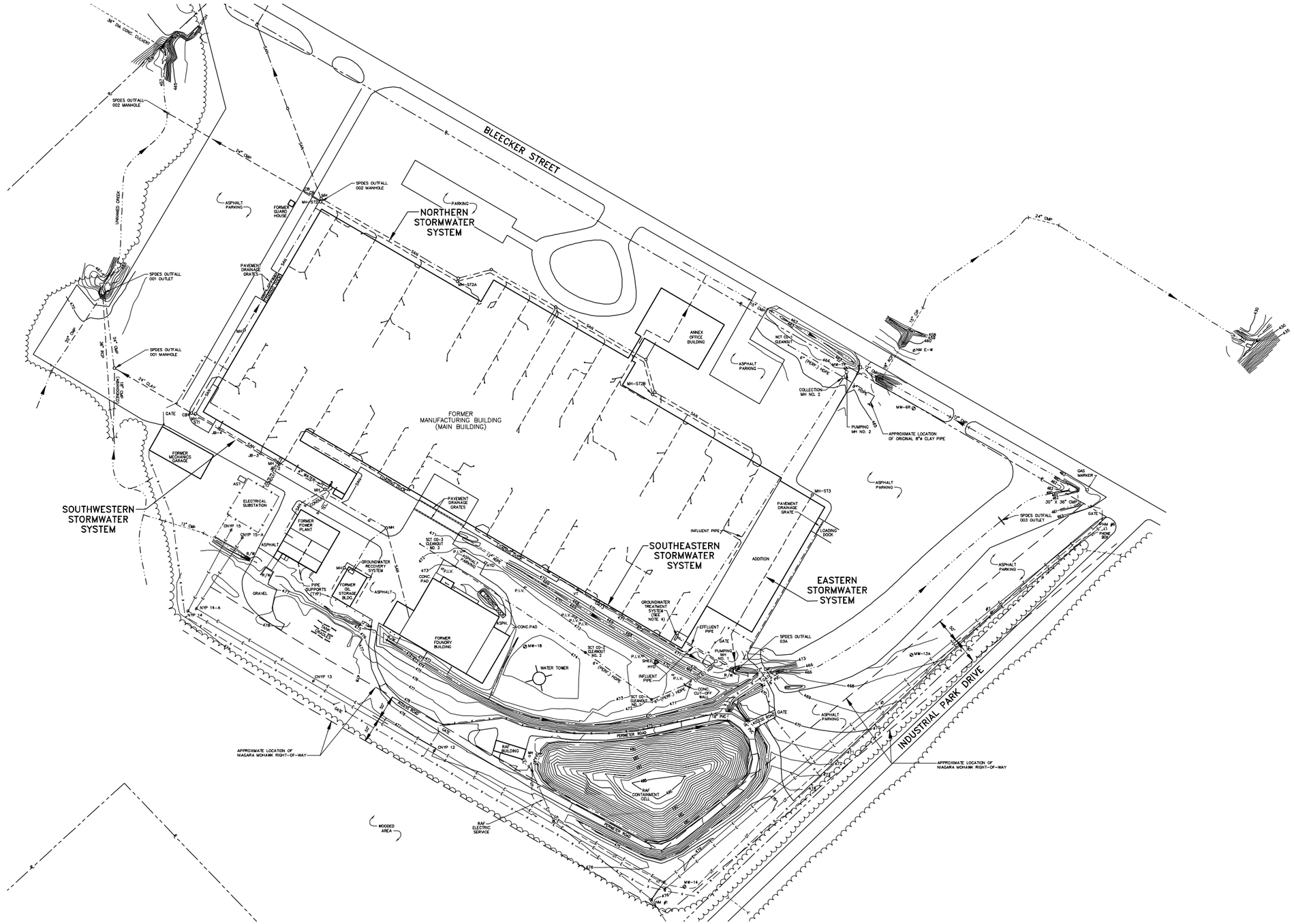
2200 BLEECKER STREET
UTICA, NEW YORK

AERIAL PROPERTY MAP

PROJECT NO.: DANA 01-04

DATE: MARCH 2009

FIGURE NO.: 2-1



LEGEND

- 470 — ELEVATION CONTOUR
- MH — MANHOLE
- 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 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
2/12/09
SYNAPSE/WP/DANA 01-04/2008OP&M/DANAB04.DWG

synapse

SYNAPSE RISK MANAGEMENT, LLC
HISTORIC BENNETT WAREHOUSE
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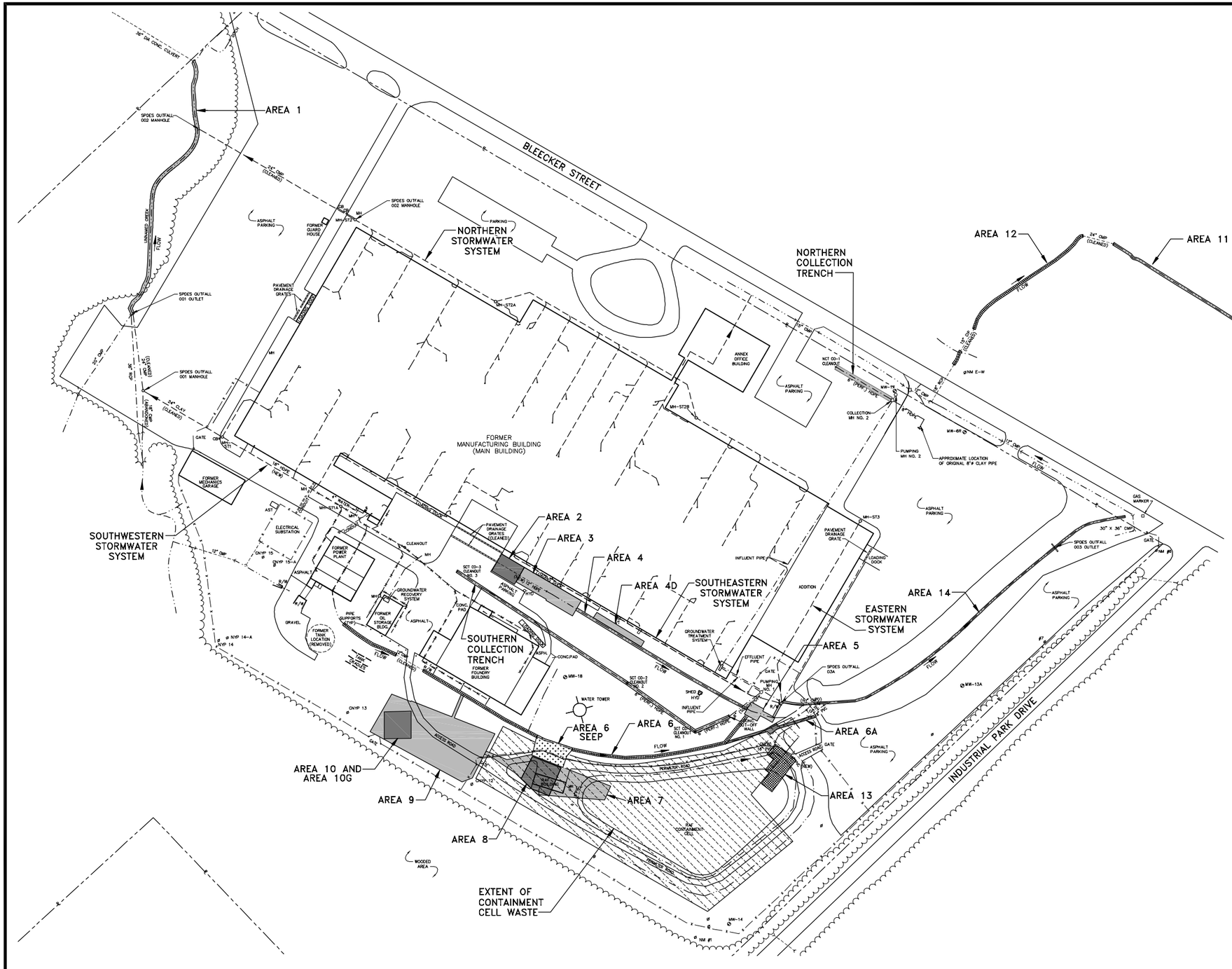
2008 ANNUAL
OPERATION, MAINTENANCE, AND
MONITORING REPORT

2200 BLEECKER STREET
UTICA, NEW YORK

FACILITY PLAN

PROJECT NO.: DANA 01-04
DATE: MARCH 2009
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
2/12/09
SYNAPSE/WP/DANA 01-04/2008OP&M/DANAB05.DWG

synapse

SYNAPSE RISK MANAGEMENT, LLC
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2200 BLEECKER STREET
UTICA, NEW YORK

HISTORICAL REMEDIAL ACTION AREAS

PROJECT NO.: DANA 01-04
DATE: MARCH 2009
FIGURE NO.: 2-3

3.0 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 results 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.

The four groundwater monitoring wells (with the exception of MW-14), as well as, the GTS are located outside of the perimeter fence of the RAF, and are discussed in Section 4 and Section 6, respectively.

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 and subsequent inspection and maintenance.

- *Leachate Collection System* - A leachate collection system, 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* - Leachate pumped from the collection manhole is stored in an aboveground 5,000-gallon steel storage tank within a steel secondary containment structure as shown on Figure 3-2 – Building, Tank, and Piping Plan. A flow totalizer is used to track the quantity of leachate pumped to the tank from the collection manhole, and a level sensor installed in the tank is used to determine the instantaneous quantity of leachate in the tank. The level sensor is also electronically connected to an auto dialer system to notify personnel of alarm conditions via telephone and facsimile. The tank is also equipped with a sampling port, drain fitting, electric heating elements, and insulation, utilized to prevent freezing of the tank and piping during winter months. In addition, a concrete truck pad, with a grated sump is located adjacent to the tank to provide containment during pumping of leachate from the tank to a tanker truck, prior to disposal.

- *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

3.7 Tables

TABLE 3-1
CUMULATIVE LEACHATE GENERATION

2008 ANNUAL OM&M 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

TABLE 3-1
CUMULATIVE LEACHATE GENERATION

2008 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Reading Date	Monitoring Period	Totalizer Reading	Gallons Per Period	Flow (gpd)
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
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

NOTES:

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

TABLE 3-2
ANNUAL LEACHATE GENERATION

2008 ANNUAL OM&M 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

NOTES:

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

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 leachate collection system operated continuously during 2008. 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, as well.

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. As this is a lead/lag pumping system, lead duties are periodically changed between Pump No. 1 and Pump No. 2 during inspections.

The RAF building was viewed during the inspection for inconsistencies in the structural, security, electrical, and telephone systems, as well as, assuring the heat and vent systems were functional. The ISACC, located in the RAF building, provides continuous monitoring information of the leachate collection manhole and 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, if any, and testing during the 2008 calendar year. An annual total system check was performed on August 6, 2008, as required, and documented on Form F, included in Appendix B, one alarms was received during 2008.

The leachate storage system, which is housed in the center portion of the RAF Building, was inspected and total flow readings were recorded. The 5,000-gallon storage tank, containment system, and plumbing were viewed for leaks and any abnormalities. The tank was internally inspected, generally after leachate was removed, to assure the control of corrosion. The influent pipe is equipped with a flow totalizer, which was manually recorded during monthly inspections. The flow totalizer indicated that

approximately 2,800 gallons were pumped and metered during 2008, totaling 70,200 gallons pumped and metered since leachate monitoring commenced in May 1999. The collected leachate sampling and disposal are reviewed in later subsections.

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 2008 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); and
- Truck pad sump (pumping during leachate removal, Section 3.5).

Unscheduled Maintenance

Unscheduled maintenance activities associated with the RAF and site components that occurred during the 2008 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 to include power washing of the leachate storage tank and truck loading area 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 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. The leachate collected in the manhole is then transferred, via automatically controlled pumps, to the on-site leachate storage tank. As this is a lead/lag pumping system, the designated lag pump will act as a backup.

Leachate generation/collection is monitored by two methods; measuring the fill height in the tank and through a flow totalizer. The on-site ISACC system provides real time data and remote location monitoring of the leachate generation. 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 provides tracking of tank filling events (i.e., water level in the tank). The tank filling is monitored and is equipped with a shut down system, so as not to overfill.

The inline flow totalizer was read and the amount recorded during the monthly inspections as an additional method to monitor the leachate generation. Table 3-1 – Cumulative Leachate Generation provides a summary of the recorded flow from May 1999, inception, through December 2008. Chart 3-1 – Cumulative Leachate Generation graphically represents the data from Table 3-1. A total of 2,800 gallons was metered during 2008, comparable to an average flow of approximately 7.8 gallons per day (gpd). The overall trend of yearly leachate production has decreased as depicted in Table 3-2 – Leachate Generation Per Year, and Chart 3-2 – Leachate Generation Per Year.

3.5 Leachate Disposal

The leachate is temporarily stored in the on-site 5,000-gallon storage tank, which is within a steel secondary containment sized to contain 110% of the tank volume. The leachate requires analytical analysis prior to bulk batch disposal. Previous scheduling of the sampling events and subsequent disposal is based on tank level data monitored by the ISACC system. No disposal of the leachate was performed during 2008 under Permit No. GW-050 issued by the Oneida County Department of Water Quality and Water Pollution Control (OCDWPC). In March 2008 UHC submitted a SPDES Permit modification, requesting leachate generated from the containment cell to be allowed to accumulate in the leachate collection manhole, and no longer be directed to the 5,000-gallon aboveground storage tank. Based on volume of the leachate collection manhole and the current leachate generation rate of 7.8 gpd, it is estimated that 600 gallons will be discharge every 3 months. The collection manhole leachate level will be visually observed during scheduled monthly RAF inspections and maintained by the existing pump controls. Upon receipt of the SPDES Permit modification, the manhole controls will be switched to operate by hand to perform transfers of leachate from the collection manhole to Outfall 03b. Additionally, liquid levels will be monitored utilizing two of the existing eight programmed ISACC (autodialer system) channels. The ISACC channels are programmed to provide telephone notification to Synapse when 90% full conditions are identified in the leachate collection manhole. It is anticipated that the SPDES Permit modification will occur in the 2nd quarter 2009.

On August 14, 2007, leachate storage tank filling number LT-16 began and continued through December 31, 2008. As a method to evaluate the ISSAC systems functions accuracy, an instrument check was conducted by measuring the leachate level in the tank (64.75”) with comparison to the ISSAC reading (64.20”). The ISSAC system continues to effectively monitor leachate generation as designed. It is anticipated that leachate disposal authorization for LT-16 will not be required or requested from OCDWPC. Upon receipt of the modified SPDES Permit leachate will be disposed via Outfall 03b located in Area 6 drainage ditch in accordance with the State Pollutant Discharge Elimination System Permit. The total leachate disposal for 2008 was zero gallons.

3.6 Summary

The RAF facility and associated components generally operated as planned through 2008. The monitoring and inspection continues, as necessary, to evaluate trends and the ongoing condition of the facility. The operation and maintenance performed during the 2008 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 collected during 2008 (2,800 gallons), indicates an overall downward tend in leachate generated to date. The average production rate for 2008 was approximately 7.8 gpd. No leachate disposal was conducted in 2008. Synapse concludes that the RAF performed as designed during 2008.

3.8 Charts

3-1 Cumulative Leachate Generation

3-2 Leachate Generation Per Year

CHART 3-1
LEACHATE PRODUCTION OVER TIME

2008 ANNUAL OM&M REPORT
2200 BLEEKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

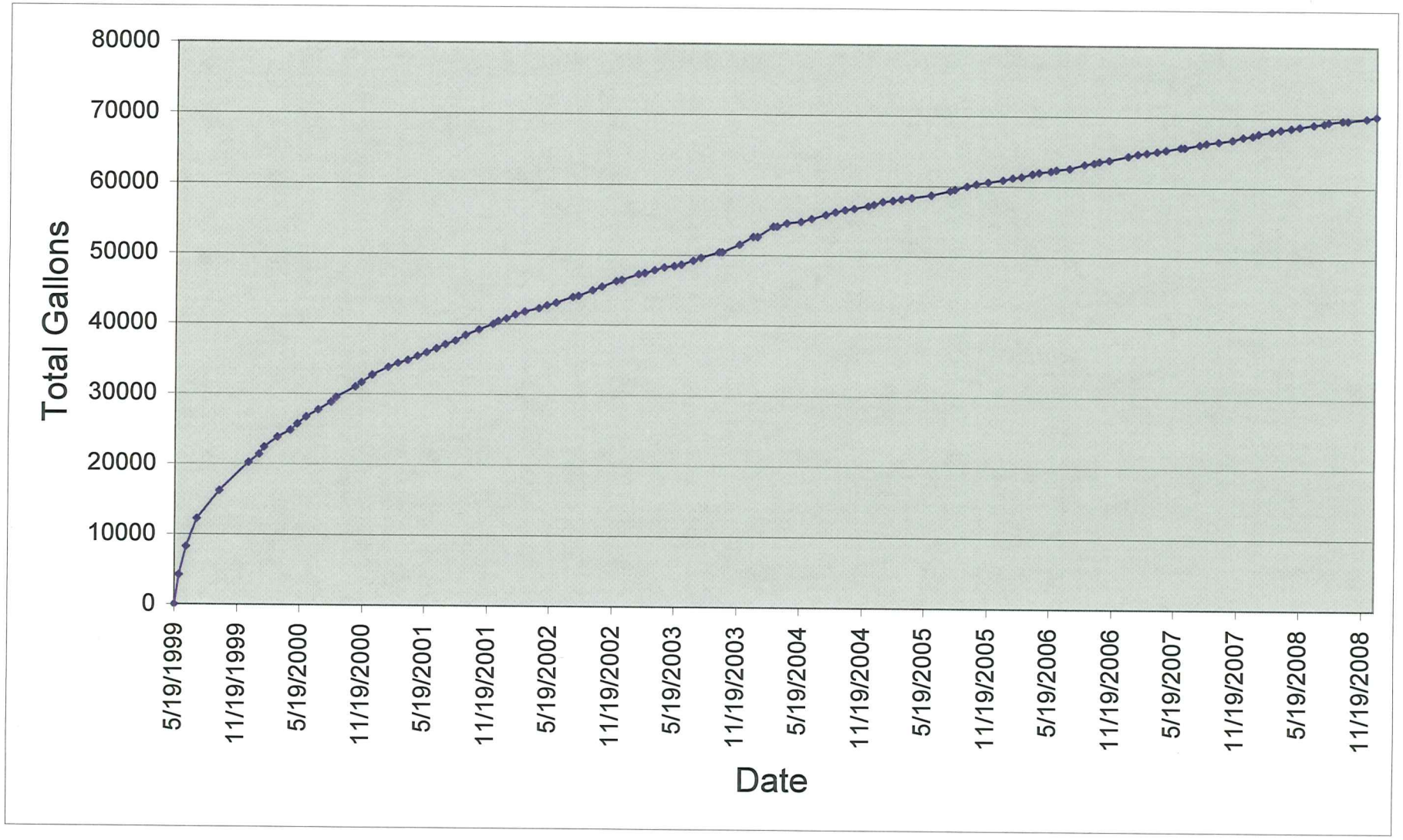
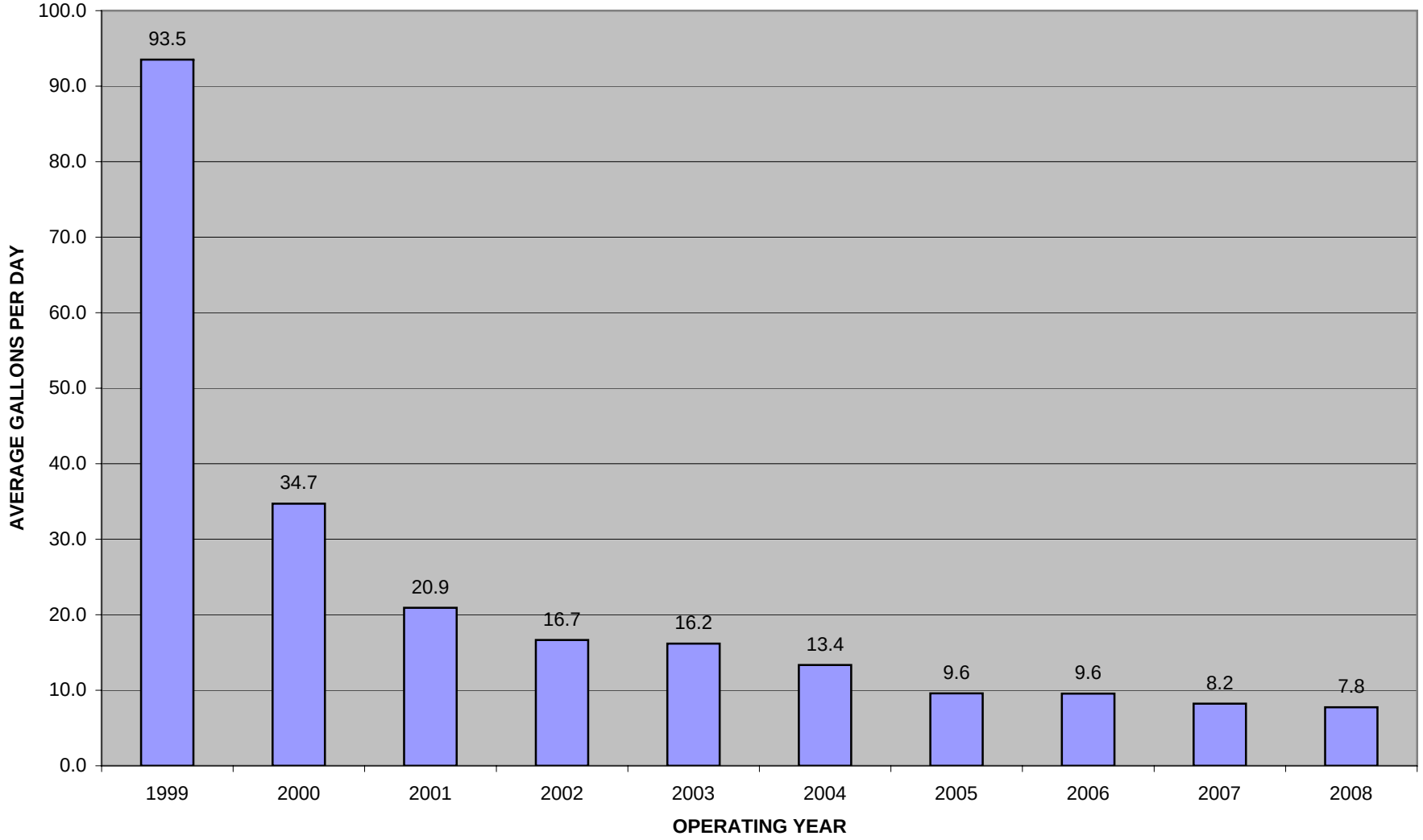
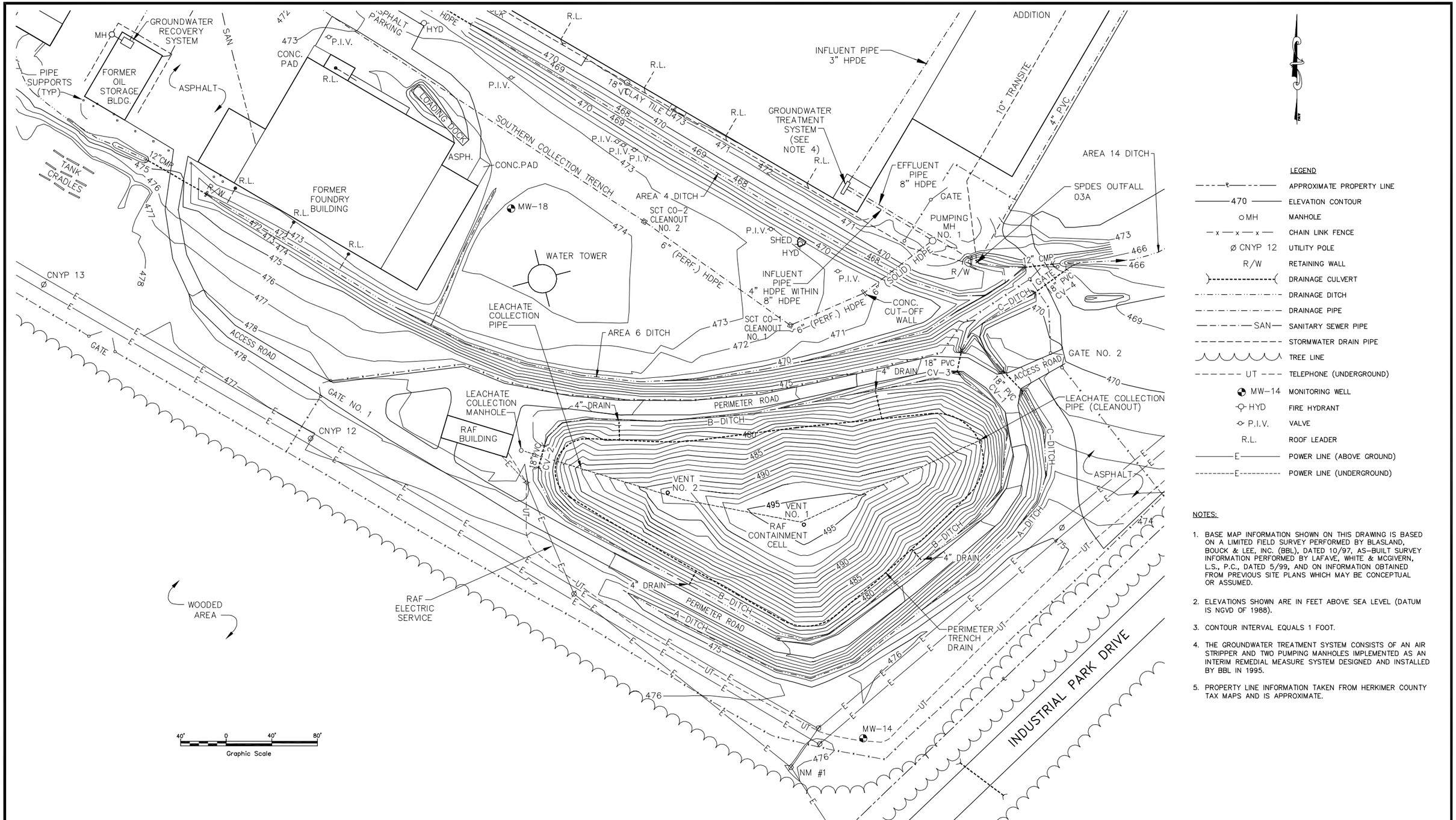


CHART 3-2
LEACHATE GENERATION PER YEAR

2008 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003



3.9 Figures



LEGEND

- APPROXIMATE PROPERTY LINE
- 470 — ELEVATION CONTOUR
- ○MH — MANHOLE
- — x — x — x — CHAIN LINK FENCE
- ø CNYP 12 — UTILITY POLE
- R/W — RETAINING WALL
- 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
- R.L. — ROOF LEADER
- — E — POWER LINE (ABOVE GROUND)
- 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. 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.

synapse

SYNAPSE RISK MANAGEMENT, LLC
HISTORIC BENNETT WAREHOUSE
325 EAST WATER STREET
SYRACUSE, NEW YORK 13202

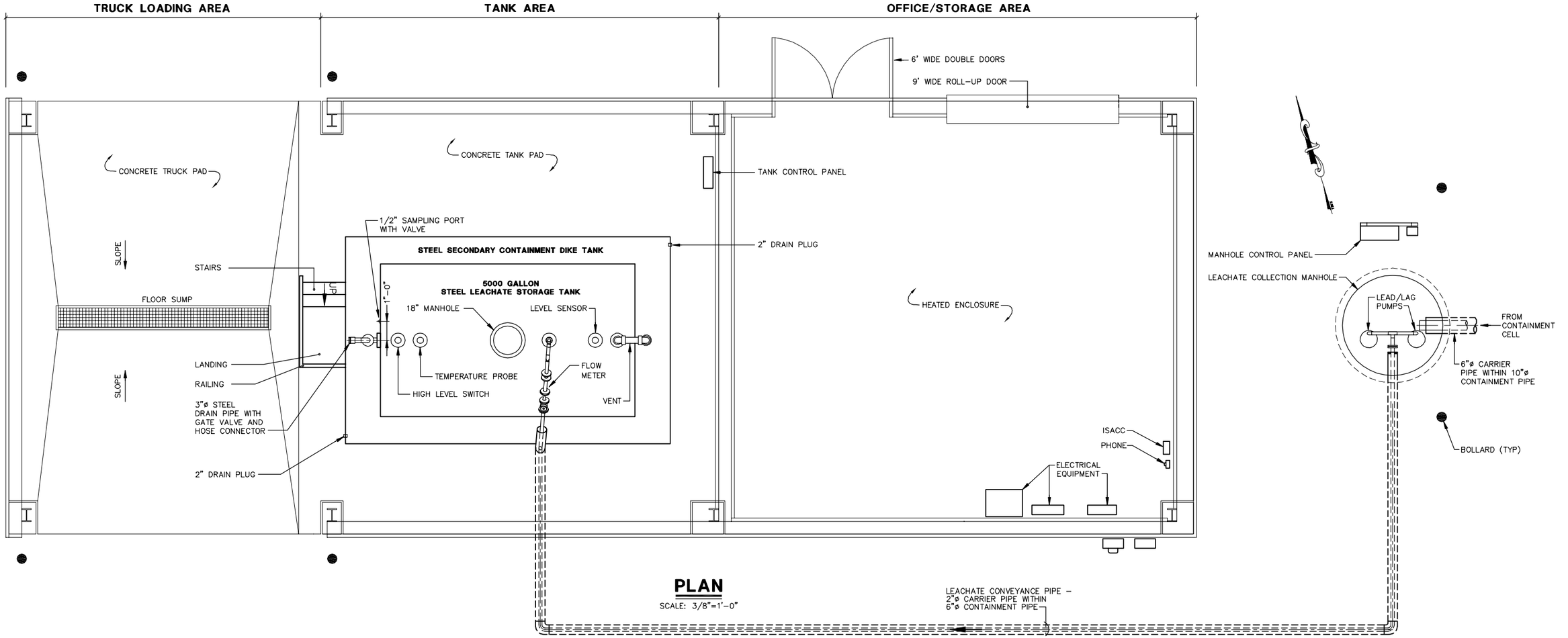
2008 ANNUAL
OPERATION, MAINTENANCE, AND
MONITORING REPORT

2200 BLEECKER STREET
UTICA, NEW YORK

REMEDIAL ACTION FACILITY PLAN

PROJECT NO.: DANA 01-04
DATE: MARCH 2009
FIGURE NO.: 3-1

X: CP-BASE.DWG
D2BBW
2/12/09
SYNAPSE/WP/DANA 01-04/2008OP&M/DANAB11.DWG



PLAN

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

0 4' 10'

GRAPHIC SCALE

X: FOUNDAT.DWG
D2BBW
2/12/09
SYNAPSE/WP/DANA 01-04/2008OP&M/DANAB10.DWG

synapse

SYNAPSE RISK MANAGEMENT, LLC
HISTORIC BENNETT WAREHOUSE
325 EAST WATER STREET
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2008 ANNUAL
OPERATION, MAINTENANCE, AND
MONITORING REPORT

2200 BLEECKER STREET
UTICA, NEW YORK

BUILDING, TANK, AND PIPING PLAN

PROJECT NO.: DANA 01-04

DATE: MARCH 2009

FIGURE NO.: 3-2

4.0 GROUNDWATER MONITORING

This section presents the results of the semi-annual groundwater monitoring events conducted at the Property in 2008. The Property OM&M Manual details the procedures that were followed during groundwater monitoring. The FER details 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. A sixth monitoring well, MW-3 was properly abandoned on September 14, 2001. The monitoring wells are located to provide groundwater quality data for site-specific RA areas and verify 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 water table and intersect 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 groundwater monitoring program, water level elevations were measured from the aforementioned monitoring wells on April 29, 2008 and October 14, 2008. Water levels in the cleanouts for the NCT and SCT were measured during the 2008 events, as well. Monitoring well water 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 water levels were measured consecutively, on the same day, prior to sampling or other activities. Water level measurements were recorded on a dedicated field sheet, Water Level Field Logs – Form D and are provided in Appendix D. The water level measurements were converted to elevations based on as-built survey information. The water levels for the two groundwater sampling events conducted in 2008 are shown in Table 4-1 – 2008 Groundwater Elevation Summary. Note that MW-17 was found to have insufficient water to allow for sample collection, during both sampling events. This is attributed to the installation of Pumping Manhole No. 2, as part of the 2002 modifications to the GTS, which 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 29, 2008, and Figure 4-2 – Overburden Groundwater Elevation Contour Map – October 14,

2008. A summary of water levels from 1999 to 2008 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 29 and 30, 2008 and October 14 and 15, 2008, 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 water during both sampling events, and as such, a sample could not be collected.

Based on the guidance set forth in the OM&M Manual, the groundwater sampling events completed in 2008 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.

To assure that the groundwater samples were representative of the shallow groundwater aquifer, a minimum of three static well volumes were purged from each monitoring well prior to sample collection. Groundwater field parameters were obtained from each monitoring well just prior to sampling, and included water levels, pH, conductivity, dissolved oxygen, turbidity, and temperature. The wells were observed to have moderate recharge capacity. Well purging was performed using a disposable Teflon® bailer. The purged groundwater was containerized and transferred to the on-site leachate collection manhole, part of the RAF, for subsequent disposal.

Groundwater samples were collected using a new disposable Teflon® bailer for each monitoring well. During the April and October 2008 groundwater sampling events, samples to be analyzed for VOCs and PCBs were collected on the first day of each sampling event. Samples to be analyzed for metals were collected on the second day, 24 hours after purging the well, to limit turbidity in the samples collected. 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 shipped/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 for all parameters during each sampling event. 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 April and October 2008 samples were submitted to Life Science Laboratories of East Syracuse, 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 – 2008 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 2008. The original laboratory analytical data for 2008 were provided under separate cover to NYSDEC upon receipt from the laboratory, and are provided in Appendix F – Groundwater Analytical Data. The analytical laboratory did not achieve the 0.05 micrograms per liter (ug/l) method detection limit (MDL) for PCBs, from any of the monitoring wells during the April 2008 or October 2008 sampling events.

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

MW-6R

- Analytical results for VOCs indicated no detectable concentrations for both 2008 sampling events;
- Analytical results for PCBs indicated no detectable concentrations for both 2008 sampling events;
- Zinc was detected during the April 2008 sampling event at a concentration of 20 ug/l, however below TOGS 1.1.1 guidance value of 2,000 ug/l;
- Chromium, lead and zinc were detected during the October 2008 sampling event at 16 ug/l, 11 ug/l and 11 ug/l, however below TOGS 1.1.1 guidance values of 50 ug/l, 25 ug/l and 2000 ug/l, respectively; and
- Historically, VOCs and PCBs have not been detected at concentrations above there respective MDL.

MW-13A

- Analytical results for VOCs indicated no detectable concentrations for both 2008 sampling events;
- Analytical results for PCBs indicated no detectable concentrations for both 2008 sampling events;
- Zinc was detected during the April 2008 and October 2008 sampling events at 19 ug/l and 12 ug/l, however below TOGS 1.1.1 guidance value of 2,000 ug/; and
- Historically, VOCs and PCBs have not been detected at concentrations above their respective MDL.

MW-14

- Analytical results for VOCs indicated no detectable concentrations for both 2008 sampling events;
- Analytical results for PCBs indicated no detectable concentrations for both 2008 sampling events;

- Zinc was detected during the April 2008 and October 2008 sampling events at 21 ug/l and 14 ug/l, however below TOGS 1.1.1 guidance value of 2,000 ug/; and

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

MW-17

- Monitoring well had insufficient water to allow sample collection during both 2008 events.

MW-18

- Vinyl chloride (VC) was detected at a concentration of 15 ug/l in the primary and duplicate samples, which exceeded the TOGS 1.1.1 guidance value of 2 ug/l, during the April 2008 sampling event. All other VOCs were not detected at concentrations above MDLs;

- VC was detected at a concentration of 34 ug/l and 31 ug/l, in the primary and duplicate sample, which exceeded the TOGS 1.1.1 guidance value of 2 ug/l, during the October 2008 sampling event. All other VOCs were not detected at concentrations above MDLs;

- Zinc was detected during the April 2008 and October 2008 sampling events at 24 ug/l and 26 ug/l, however below TOGS 1.1.1 guidance value of 2,000 ug/; and

- Analytical results for PCBs indicated no detectable concentrations for both 2007 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 2008 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 water to measure or sample, as a result of the NCT effectively lowering the groundwater table.

The groundwater quality from both the April and October 2008 groundwater sampling events are generally consistent with historic data. VC has been detected in monitoring well MW-18 above its analytical MDL for eight consecutive sampling events. The VC concentration at MW-18 demonstrates an overall increasing trend, however VC is a daughter product demonstrating the degradation of TCE. 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.

Concentration of select metals did not exceed TOGS 1.1.1 guidance values and have not demonstrated exceedances since the RA. Detectable concentrations of PCBs were not identified in groundwater from any of the current monitoring locations. It should be noted that the contract laboratory did not achieve the PCB MDL, of 0.05 ug/l, during the April or October 2008 sampling events.

4.6 Tables

TABLE 4-1
2008 GROUNDWATER ELEVATION SUMMARY

2008 ANNUAL OM&M 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: 4/29/08						
MW-6R	462.69	10.52	10.51	465.47	3.60	461.87
MW-13A	467.30	11.07	10.91	469.23	2.41	466.82
MW-14	475.71	12.94	12.99	478.45	2.95	475.50
MW-17	463.89	11.25	11.25	466.02	Dry	Note 5
MW-18	474.10	11.73	11.70	475.96	5.12	470.84
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: 10/14/08						
MW-6R	462.69	10.52	10.50	465.47	4.49	460.98
MW-13A	467.30	11.07	11.07	469.23	4.25	464.98
MW-14	475.71	12.86	12.80	478.37	5.43	472.94
MW-17	463.89	11.25	11.25	466.02	Dry	Note 5
MW-18	474.10	11.78	11.78	475.96	6.32	469.64
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

2008 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

	Well ID					
Sample Date	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

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

2008 ANNUAL OM&M 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
2008 GROUNDWATER ANALYTICAL RESULTS

2008 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

April 2008 Sampling Event

Well ID	Detection Limit	Standards and Guidance Values	MW-6R	MW-13A	MW-14	MW-17	MW-18	042808/042907
Date Sampled			4/28-29/2008	4/28-29/2008	4/28-29/2008	4/28-29/2008	4/28-29/2008	4/28-29/2008
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	**15**	**15**
Metals								
Chromium	10	50	<10	<10	<10	NS	<10	<10
Copper	10	200	<10	<10	<10	NS	<10	<10
Lead	10	25	<10	<10	<10	NS	<10	<10
Zinc	10	2,000	20	19	21	NS	24	24
Polychlorinated Biphenyls								
Aroclor 1016	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1221	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1232	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1242	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1248	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1254	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1260	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1

October 2008 Sampling Event

Well ID	Detection Limit	Standards and Guidance Values	MW-6R	MW-13A	MW-14	MW-17	MW-18	102307/102407
Date Sampled			10/14-15/2008	10/14-15/2008	10/14-15/2008	10/14-15/2008	10/14-15/2008	10/14-15/2008
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	**34**	**31**
Metals								
Chromium	10	50	16	<10	<10	NS	<10	<10
Copper	10	200	<10	<10	<10	NS	<10	<10
Lead	10	25	11	<10	<10	NS	<10	<10
Zinc	10	2,000	11	12	14	NS	26	24
Polychlorinated Biphenyls								
Aroclor 1016	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1221	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1232	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1242	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1248	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1254	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1
Aroclor 1260	0.05	0.09	<0.1	<0.1	<0.1	NS	<0.1	<0.1

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

2008 ANNUAL OM&M 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	
				March	September	March	September	March	September	March	September	April	October	April	October	April	October	April	September	April	October	April	October
				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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

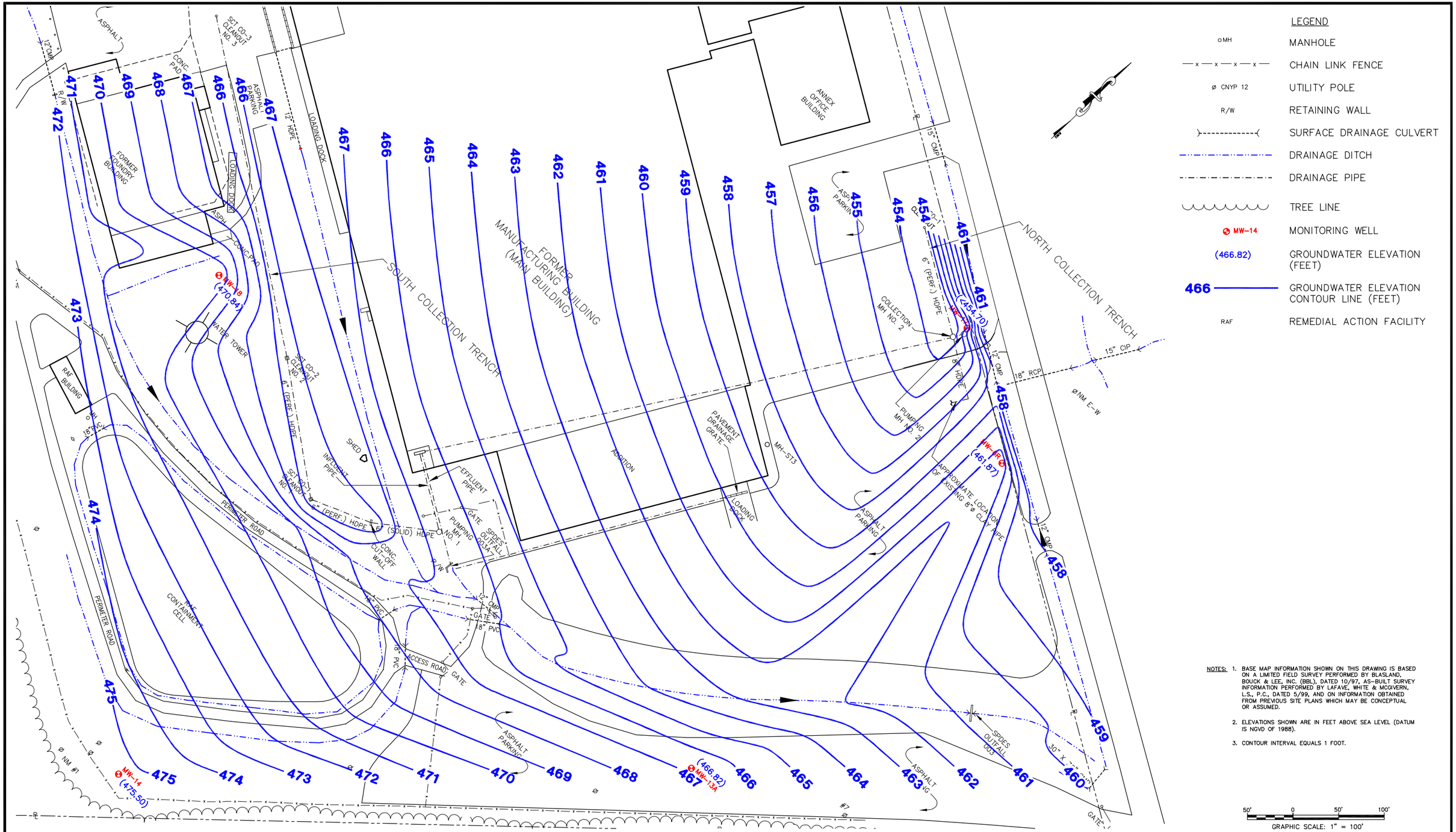
TABLE 4-5
CUMULATIVE GROUNDWATER ANALYTICAL RESULTS

2008 ANNUAL OM&M 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	
				March	September	March	September	March	September	March	September	April	October	April	October	April	October	April	September	April	October	April	October
				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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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**
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
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
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
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
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
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
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
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
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
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
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

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



X: CP-BASE
P: BL
2/12/09
SYNAPSE/WP/DANA 01-04/2008OP&M/DANAB01.DWG

synapse

SYNAPSE RISK MANAGEMENT, LLC
HISTORIC BENNETT WAREHOUSE
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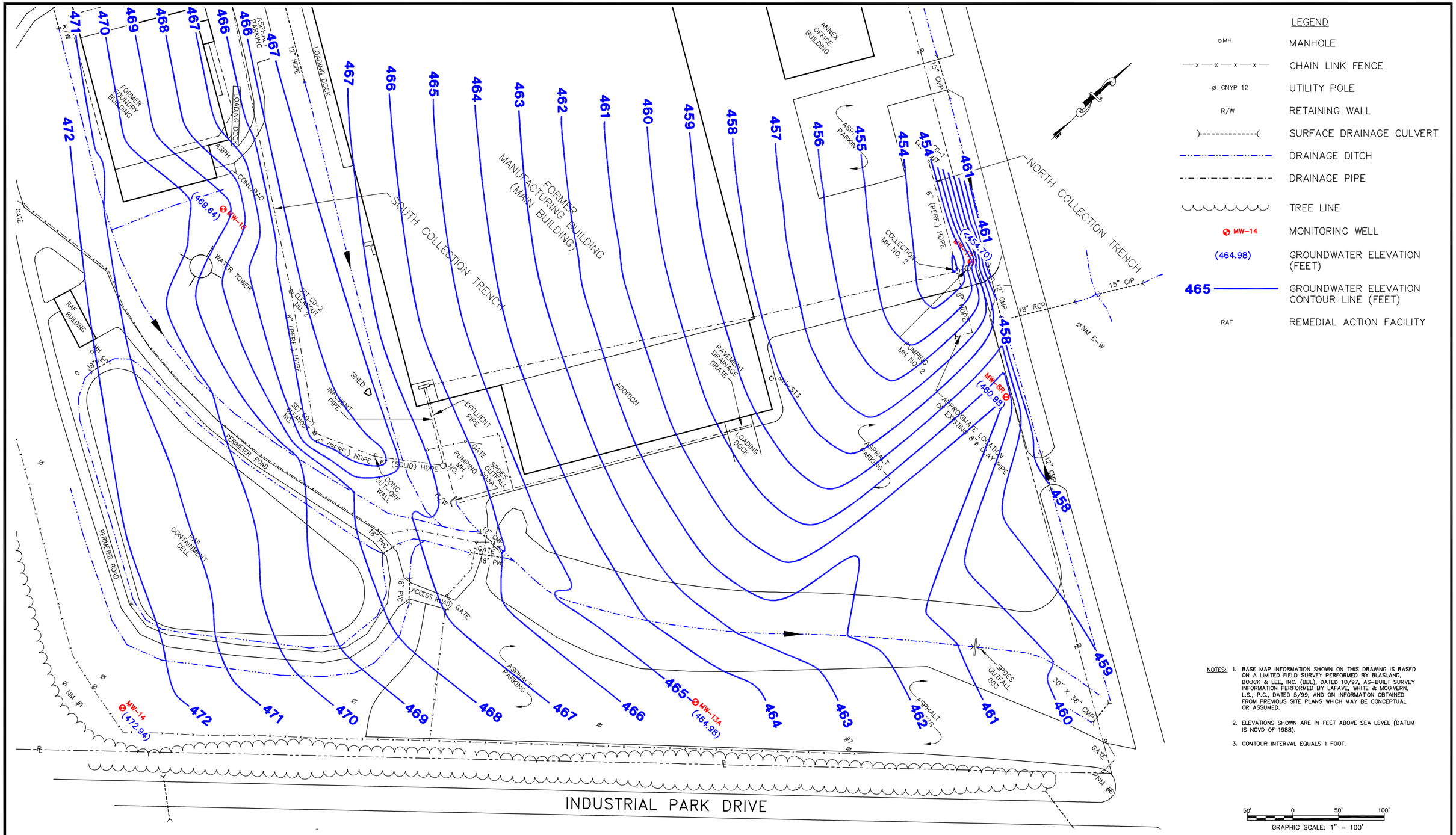
SYRACUSE, NEW YORK 13202

2008 ANNUAL
OPERATION, MAINTENANCE, AND
MONITORING REPORT

2200 BLEECKER STREET
UTICA, NEW YORK

OVERBURDEN GROUNDWATER ELEVATION CONTOUR MAP APRIL 29, 2008

PROJECT NO.: DANA 01-04
DATE: MARCH 2009
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.

X: CP-BASE
P: BL
2/12/09
SYNAPSE/WP/DANA 01-04/2008OP&M/DANAB02.DWG

synapse

SYNAPSE RISK MANAGEMENT, LLC
HISTORIC BENNETT WAREHOUSE
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2008 ANNUAL
OPERATION, MAINTENANCE, AND
MONITORING REPORT

2200 BLEECKER STREET
UTICA, NEW YORK

OVERBURDEN GROUNDWATER ELEVATION CONTOUR MAP OCTOBER 14, 2008

PROJECT NO.: DANA 01-04
DATE: MARCH 2009
FIGURE NO.: 4-2

5.0 PROPERTY 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 1, 2007.

In March 2008 UHC submitted a SPDES Permit modification, requesting leachate generated from the containment cell to be allowed to accumulate in the leachate collection manhole, and no longer be directed to the 5,000-gallon aboveground storage tank. Based on volume of the leachate collection manhole and the current leachate generation rate of 8.2 gpd, it is estimated that 600 gallons will be discharge every 3 months from the collection manhole to a new Outfall 03b in the bank of drainage ditch 6. The collection manhole leachate level will be visually observed during scheduled monthly RAF inspections and maintained by the existing automatic pump controls. The controls will operate by hand to transfer leachate from the collection manhole to Outfall 03b. Additionally, liquid levels will be monitored utilizing two of the existing eight programmed ISACC (autodialer system) channels. The ISACC channels are programmed to provide telephone notification to Synapse when 90% full conditions are identified in the leachate collection manhole.

The SPDES Permit is specific to activities conducted at the Property, including the Coolidge-owned Main Building, and permits the discharge water from three outfalls as depicted in Figure 5-1 – SPDES Outfall 001 Manhole Plan and Section, Figure 5-2 – SPDES Outfall 002 Manhole Plan and Section, and Figure 5-3 – SPDES Outfall 003 Plan and Section. UHC however has no control of Coolidge Utica's activities and those of its tenants. A significant portion (65%) of the total flow monitored by UHC at the permitted outfalls 001, 002 and 003 is from contribution associated with the operations of Coolidge Utica and its tenants, and CPTC's Outfall 03A, permitted under SPDES Permit No. NY0108537 (see Section 6.4). The following section reviews Outfall contributions and construction, routine monitoring and subsequent results, specialized studies and testing, as well as, unscheduled maintenance.

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).

Coolidge Contributions

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

Outfall 002

UHC Contribution

- Parking lot catch basins (overland flow).

Coolidge Contributions

- Building roof leaders;

- Boiler blowdown (periodic);
- Sprinkler system drains (periodic); and
- Air conditioning condensate (during warm weather).

Outfall 003

UHC Contributions

- Stormwater from overland flow, including that from the RAF; and
- Parking lots.

Coolidge Contributions

- Building roof leaders;
- Boiler blowdown (periodic);
- 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 5-4 – 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 three 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 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 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 monitoring 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.

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, and 003 has been prescribed by NYSDEC, as discussed in Section 5.3.1. 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 have 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 2008 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 2008 as follows.

- Chlorine was detected at 330 ug/l at Outfall 003 during the June 2008 sampling event, which exceeded the permitted compliance levels of 100 ug/l. This was attributed to potential expiration of the reagent chemicals used in the chlorine measurement.

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 remains 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 scheduled to be conducted during 2008 at Outfalls 001 and 002. Sampling events at both Outfalls involved collection of two grab samples over a two day period (one per day). The samples were delivered to AquaTox Research, Inc., a NYSDEC-approved laboratory, located in Syracuse, New York, for acute toxicity analysis.

2008 Acute Toxicity Sampling

The results of the 2008 sampling events are attached, and a tabular summary of the 48-hour median lethal concentration (LC_{50}) results for 2008 are presented herein. The SPDES Outfall 001 and Outfall 002 sampling locations are depicted on Figure 5-1 and 5-2, respectively. Attempts were made to conduct this sampling program during periods of stormwater runoff to best reflect actual effluent conditions, however high tail water conditions were encountered during the first, second and fourth 2008 sampling events. It should be noted that a significant portion (approximately 90%) of the total flow monitored at Outfall 001 and Outfall 002 are associated with the stormwater contributions from the main building (owned by Coolidge Utica, LLC) and its tenants.

First Quarter 2008 SPDES Outfall 001 Sample Results

The 2008 first quarter sampling program commenced on March 18, 2008 and included the collection of grab samples from Outfall 001 and Outfall 002, occurring on two consecutive days.

The 48-hour LC_{50} test results for the freshwater invertebrate (Ceriodaphnia dubia) exposed to the samples collected from Outfall 001, are summarized below.

Sample Location	Test Organism	48-hour LC_{50}
Outfall 001	Ceriodaphnia dubia	40.6% Mortality in 100% Sample

As indicated in the above table, the 48-hr LC_{50} test result for Ceriodaphnia dubia at Outfall 001 during the 2008 1st quarter was below the Permit-specified survival rate of 95%.

SPDES Outfall 002 Sample Results – First Quarter 2008

The 48-hour LC_{50} test results for the freshwater invertebrate (Ceriodaphnia dubia) exposed to the samples collected from Outfall 002, are summarized below.

Sample Location	Test Organism	48-hour LC_{50}
Outfall 002	Ceriodaphnia dubia	0% Mortality in 100% Sample

As indicated in the above table, the 48-hr LC_{50} test result for Ceriodaphnia dubia at Outfall 002 during the 2008 1st quarter was above the Permit-specified survival rate of 95%.

Second Quarter 2008 Acute Toxicity Sampling

The 2008 second quarter sampling program commenced on June 24, 2008 and included the collection of grab samples from Outfall 001 and Outfall 002, occurring on two consecutive days.

SPDES Outfall 001 Sample Results – Second Quarter 2008

The 48-hour LC_{50} test results for the freshwater invertebrate (Ceriodaphnia dubia) exposed to the samples collected from Outfall 001, are summarized below.

Sample Location	Test Organism	48-hour LC_{50}
Outfall 001	Ceriodaphnia dubia	25.9% Cumulative Mortality

As indicated in the above table, the 48-hr LC_{50} test result for Ceriodaphnia dubia at Outfall 001 during the 2008 1st quarter was below the Permit-specified survival rate of 95%.

SPDES Outfall 002 Sample Results – Second Quarter 2008

The 48-hour LC_{50} test results for the freshwater invertebrate (Ceriodaphnia dubia) exposed to the samples collected from Outfall 002, are summarized below.

Sample Location	Test Organism	48-hour LC_{50}
Outfall 002	Ceriodaphnia dubia	57.4% Cumulative Mortality

As indicated in the above table, the 48-hr LC_{50} test result for Ceriodaphnia dubia at Outfall 002 during the 2008 2nd quarter was below the Permit-specified survival rate of 95%.

Third Quarter 2008 Acute Toxicity Sampling

The 2008 third quarter sampling program commenced on September 15, 2008 and included the collection of grab samples from Outfall 001 and Outfall 002, occurring on two consecutive days. During the third quarter 2008 sampling event there was moderate flow at both Outfalls due to precipitation events on consecutive days.

SPDES Outfall 001 Sample Results – Third Quarter 2008

The 48-hour LC_{50} test results for the freshwater invertebrate (Ceriodaphnia dubia) exposed to the samples collected from Outfall 001, are summarized below.

Sample Location	Test Organism	48-hour LC_{50}
Outfall 001	Ceriodaphnia dubia	3.4% Cumulative Mortality

As indicated in the above table, the 48-hr LC_{50} test result for Ceriodaphnia dubia at Outfall 001 during the 2008 3rd quarter was above the Permit-specified survival rate of 95%, with a survival rate of 96.6%.

SPDES Outfall 002 Sample Results – Third Quarter 2008

The 48-hour LC_{50} test results for the freshwater invertebrate (Ceriodaphnia dubia) exposed to the samples collected from Outfall 002, are summarized below.

Sample Location	Test Organism	48-hour LC_{50}
Outfall 002	Ceriodaphnia dubia	12.9% Cumulative Mortality

As indicated in the above table, the 48-hr LC_{50} test result for Ceriodaphnia dubia at Outfall 002 during the 2008 3rd quarter was below the Permit-specified survival rate of 95%, with a survival rate of 87.1%.

Fourth Quarter 2008 Acute Toxicity Sampling

The 2008 fourth quarter sampling program commenced on December 8, 2008 and included the collection of grab samples from Outfall 001 and Outfall 002, occurring on two consecutive days.

SPDES Outfall 001 Sample Results – Fourth Quarter 2008

The 48-hour LC_{50} test results for the freshwater invertebrate (Ceriodaphnia dubia) exposed to the samples collected from Outfall 001, are summarized below.

Sample Location	Test Organism	48-hour LC_{50}
Outfall 001	Ceriodaphnia dubia	TUa = 100/LC50 = 100/0.3

TUa = Toxic Units Acute

The LC50 was not calculable for Outfall 001, however statistically significant toxicity (30% cumulative mortality) was identified at 100% effluent concentration. As indicated in the above table, the 48-hr LC_{50} test result for Ceriodaphnia dubia at Outfall 001 during the 2008 4th quarter was reported as exceeding 0.3 Toxic Units Acute.

SPDES Outfall 002 Sample Results – Fourth Quarter 2008

The 48-hour LC_{50} test results for the freshwater invertebrate (Ceriodaphnia dubia) exposed to the samples collected from Outfall 002, are summarized below.

Sample Location	Test Organism	48-hour LC_{50}
Outfall 002	Ceriodaphnia dubia	TUa = 100/LC50 = 100/<0.3

TUa = Toxic Units Acute

The LC50 was not calculable for Outfall 002 and no toxicity was identified at 100% effluent concentration. As indicated in the above table, the 48-hr LC_{50} test result for Ceriodaphnia dubia at Outfall 002 during the 2008 4th quarter was reported as not exceeding 0.3 Toxic Units Acute.

Summarized in the table below are the 48-hr LC_{50} test results for each of the four quarterly sampling events conducted in 2006 and 2007.

Location	Test Organism	1st Quarter 48-hr LC_{50}	2nd Quarter 48-hr LC_{50}	3rd Quarter 48-hr LC_{50}	4th Quarter 48-hr LC_{50}
Outfall 001	Ceriodaphnia dubia	40.6%	25.9%	3.4%%	100/0.3
Outfall 002	Ceriodaphnia dubia	0%	57.4%	12.9%	100/<0.3

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.

Data collected from the 2008 routine monitoring and sampling events indicate target constituents and field parameters have not been consistently identified, at the outfalls, above their respective enforceable compliance levels. Anomalous exceptions and or excursions from the enforceable compliance levels have been evaluated and not believed to be a consistent threat to the environment. As such, it is recommended that routine monitoring be continued as scheduled.

Operations conducted at the property by Coolidge Utica 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. Given the analytical results, the source of the toxicity appears to be related to contributions from the Coolidge Utica building. Specifically, based on the SPDES Stormwater Action Plan (June 2000), Outfalls 001 and 002 receive significant contributions from the Coolidge Utica Main Building.

5.5 Tables

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

2008 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087

Monitoring Period	*ECL*		*September '02*				*October '02*				*November '02*					*December '02*				*January '03*				*February '03*			
Monitoring Date	*Daily Max*	*Units*	9/6/2002	9/11/2002	9/16/2002	9/23/2002	10/3/2002	10/10/2002	10/16/2002	10/25/2002	11/1/2002	11/6/2002	11/11/2002	11/22/2002	11/27/2002	12/5/2002	12/13/2003	12/20/2003	12/27/2003	12/30/2002	1/10/2003	1/17/2003	1/24/2003	1/29/2003	2/3/2003	2/10/2003	2/18/2003
Sampler ID			rsn	bhm	bhm	rrc	rsn	bhm	bhm	rsn	rrc	rsn	rrc/rsn	rsn	rsn	rrc	bhm	bhm	rrc	bhm	bhm	bhm	bhm	rsn	rsn/sjm	sjm	rrc/sjm
SPDES Outfall 001																											
Flow Rate	Monitor	gpd	HTW	3505	15801	2314	7530	152	185634	<152	152	35901	HTW	HTW	13987	2314	30835	35901	21739	26116	HTW	152	No Flow	<152	6112	<152	<152
Temperature	90	ºF		67	71		66		57			47		53		49	46					41	35		46		40
pH	6.0-9.0	SU		7.6	7.3		7.1		7.0			6.7		7.0		6.6	7.9					7.0	7.2		7.0		7.1
Solids, Total Suspended	10 (dry)	mg/l		<4	<4		<4		15			<4		<4		14	15					10	**51**		<4		5
	50 (wet)																										
cis-1,2-Dichloroethylene	10	ug/l		7.9	1		1		2.7			<1		3.6		<1	<1					1	<0.5		1		4
trans-1,2-Dichloroethylene	10	ug/l		<1	<1		<1		<1			<1		<1		<1	<1					<1	<0.5		<1		<1
Trichloroethylene	10	ug/l		1.1	<1		<1		<1			<1		<1		<1	<1					<1	<0.5		<1		1
Chloroform	46	ug/l		<1	<1		<1		<1			<1		<1		<1	<1					<1	<0.5		<1		<1
Copper, Total	100	ug/l		73	34		55		50			20		25		11	24					22	<10		53		21
Oil & Grease	15	mg/l		<5			8.3					<5				<5						<5			<5		
Phenolics, Total	28	ug/l		<20			<20					<20				<20						<20			<20		
Antimony, Total	300	ug/l		<10												<10											
Chromium, Total	51	ug/l		22																							
Fluoride, Total	2500	ug/l		340																							
Lead, Total	13	ug/l		<10																							
Zinc, Total	210	ug/l		72																							
SPDES Outfall 002																											
Flow Rate	Monitor	gpd	43871	47168	50610	43871	47168	47168	528383	29476	27001	166744	34824	HTW	HTW	27001	88412	133097	27001	22434	HTW	1582	No Flow	574	11643	HTW	10241
Temperature	90	ºF		70	72		70		52			45	47			49	46					49	38		48		45
pH	6.0-9.0	SU		8.8	8.4		8.2		7.1			7.3	8.5			8.6	8.1					7.0	7.6		7.0		7.4
Solids, Total Suspended	10 (dry)	mg/l		<4	<4		<4		<4			<4	<4			<4	<4					<4	7		<4		<4
	50 (wet)																										
Oil & Grease	15	mg/l		<5			11					<5				<5						<5			<5		
Phenolics, Total	24	ug/l		<20			<20					<20				<20						<20			<20		
Fluoride, Total	1500	ug/l		1000																							
SPDES Outfall 003																											
Flow Rate	Monitor	gpd	6943	20829	83314	48600	36450	35345	198367	24300	18225	116640	36450	194400	48600	48600	42261	116640	29160	53018	53018	25357	7200 E	7200 E	14400 E	48600	2880 E
Temperature	90	ºF		64.2	70.3		65.5		51.3			44	58			35	44				40		33		40		33
pH	6.0-9.0	SU		7.6	7.7		7.4		7.1			7.1	7.2			7.6	6.9				7.1		7.5		7.1		7.5
Solids, Total Suspended	10 (dry)	mg/l		6	<4		<4		<4			<4	<4			<4	<4				<4		5		<4		<4
	50 (wet)																										
Chlorine, Total Residual	100	ug/l		80	70		70		85			20	80			50	50				70		60		70		47
cis-1,2-Dichloroethylene	10	ug/l		<1	1.1		1.9		<1			4	<1			4.9	8.3				6		3		3		8
trans-1,2-Dichloroethylene	10	ug/l		<1	<1		<1		<1			<1	<1			<1	<1				<1		<0.5		<1		<1
Trichloroethylene	10	ug/l		<1	<1		<1		<1			<1	<1			<1	<1				6		<0.5		<1		2
Vinyl Chloride	10	ug/l		<1	<1		<1		<1			<1	<1			<1	<1				<1		<0.5		<1		<1
Chloroform	46	ug/l		<1	<1		<1		<1			<1	<1			<1	<1				<1		<0.5		<1		<1
Oil & Grease	15	mg/l		<5			6.6					<5				<5					<5				<5		
Phenolics, Total	44	ug/l		<20			<20					<20				<20					<20				<20		
PCBs, Aroclors (Compliance)	300	ng/l							<50												<50						
PCBs, Congeners (1668A Study)	NA	pg/l							7824												2641						
Lead, Total	10	ug/l		<10																							
Zinc, Total	120	ug/l		<10																							

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

2008 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087

Monitoring Period	*ECL*		*March '03*					*April '03*				*May '03*					*June '03*				*July '03*				*August '03*			
Monitoring Date	*Daily Max*	*Units*	2/25/2003	3/7/2003	3/12/2003	3/19/2003	3/25/2003	4/4/2003	4/11/2003	4/16/2003	4/25/2003	5/2/2003	5/9/2003	5/15/2003	5/23/2003	5/29/2003	6/4/2003	6/11/2003	6/18/2003	6/25/2003	7/2/2003	7/9/2003	7/17/2003	7/23/2003	8/1/2003	8/6/2003	8/13/2003	8/29/2003
Sampler ID			sjm	rsn	bhm	rrc/pmf	rrc/bhm	rrc	pmf	rsn	rrc	rrc	sjm	bhm	sjm	bhm	sjm	sjm	sjm	pmf/bhm	sjm	pmf/bhm	sjm	rsn	sjm/bhm	bhm	rrc	sjm
SPDES Outfall 001																												
Flow Rate	Monitor	gpd	HTW	HTW	2160	HTW	HTW	2880 E	HTW	<1440 E	<1440 E	41320	<1440 E	928	<1440 E	743	<1440 E	4770	<1440 E	<1440 E	<1440 E	11676	<1440 E	12253	64800	4713	<1440 E	<1440 E
Temperature	90	ºF			43		54			56	52				58	60	60		61			66		69	66		68	74
pH	6.0-9.0	SU			7.1		7.2			7.0	7.2				7.0	6.9	7.0		7.4			7.3		7.2	6.6		6.8	7.2
Solids, Total Suspended	10 (dry)	mg/l																										
	50 (wet)				17		7			45	5				31	10	39		30			46		<4	<4		<4	30
cis-1,2-Dichloroethylene	10	ug/l			4		6			<1	<1				<1	<1	<1		1			1		<1	<1		4	<1
trans-1,2-Dichloroethylene	10	ug/l			<1		<1			<1	<1				<1	<1	<1		<1			<1		<1	<1		<1	<1
Trichloroethylene	10	ug/l			<1		2			<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
Copper, Total	100	ug/l			16		<10			17	16				22	19	<10		13			27		62	41		29	26
Oil & Grease	15	mg/l			<5					13						<5			**22**			<5			<5			
Phenolics, Total	28	ug/l			<20					<20						<2			<20			<20			<20			
Antimony, Total	300	ug/l								<10									<10									<10
Chromium, Total	51	ug/l								<10									<10									
Fluoride, Total	2500	ug/l								540									380									
Lead, Total	13	ug/l								<10									<10									
Zinc, Total	210	ug/l								99									44									

SPDES Outfall 002																												
Flow Rate	Monitor	gpd	HTW	208	3966	HTW	HTW	2880 E	HTW	844	37	47168	101	364	1582	<250 E	101	3247	1582	208	101	56	<1440 E	18366	126908	HTW	101	101
Temperature	90	ºF			48		53			54	51				58	60	61		66			68		70	66		68	74
pH	6.0-9.0	SU			6.7		7.3			7.3	7.2				7.7	7.1	7.3		7.2			6.5		7.0	6.6		6.8	7.8
Solids, Total Suspended	10 (dry)	mg/l																										
	50 (wet)				<4		11			7	11				5	10	<4		<4			<4		<4	<4		9	15
Oil & Grease	15	mg/l			8					12						<5			<5			<5			<5			
Phenolics, Total	24	ug/l			<20					<20						<2			<20			<20			<20			
Fluoride, Total	1500	ug/l								460									150									

SPDES Outfall 003																												
Flow Rate	Monitor	gpd	13886	23328	18225	83314	97200	7200 E	144000 E	24300 E	291600 E	172800 E	20000 E	64800	15247	28800	21600	18514	17280	15549	6480	18783	11782	74057	94255	47127	14811	28800
Temperature	90	ºF			38		58			59	51				61	66	64		64			67		70	65		72	73
pH	6.0-9.0	SU			7.4		7.2			7.3	7.4				7.5	7.4	7.5		7.6			7.2		7.1	7.3		7.4	7.7
Solids, Total Suspended	10 (dry)	mg/l																										
	50 (wet)				<4		<4			4	NA				<4	9	<4		<4			<4		<4	<4		<4	<4
Chlorine, Total Residual	100	ug/l			50		60			10	60				30	40	50		50			50		60	70		50	50
cis-1,2-Dichloroethylene	10	ug/l			8		5			<1	2				<1	<1	<1		<1			<1		2	<1		<1	<1
trans-1,2-Dichloroethylene	10	ug/l			<1		<1			<1	<1				<1	<1	<1		<1			<1		<1	<1		<1	<1
Trichloroethylene	10	ug/l			9		3			<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
Chloroform	46	ug/l			<1		<1			<1	<1				<1	<1	<1		<1			<1		<1	<1		<1	<1
Oil & Grease	15	mg/l			<5					<5						<5			6			<5			<5			
Phenolics, Total	44	ug/l			<2					<20						<2			<20			<20			<20			
PCBs, Aroclors (Compliance)	300	ng/l								<50									<50								<50	
PCBs, Congeners (1668A Study)	NA	pg/l								4268									6283								4546	
Lead, Total	10	ug/l								<10									<10									
Zinc, Total	120	ug/l								<10									<10									

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

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2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087

Monitoring Period	*ECL*		*September '03*		*October '03*		*November '03*		*December '03*		*January '04*			*February '04*		*March '04*		*April '04*		*May '04*		*June '04*	
Monitoring Date	*Daily Max*	*Units*	9/8/2003	9/23/2003	10/8/2003	10/23/2003	11/5/2003	11/21/2003	12/5/2003	12/17/2003	12/31/2003	1/13/2004	1/30/2004	2/12/2004	2/27/2004	3/10/2004	3/24/2004	4/7/2004	4/22/2004	5/6/2004	5/18/2004	6/1/2004	6/18/2004
Sampler ID			bhm	bhm	bhm	sjm	sjm	bhm	rsn	rsn	sjm	sjm	rsn	sjm	bhm	rsn	sjm	rsn	rsn	rsn	rsn	rsn	rsn
SPDES Outfall 001																							
Flow Rate	Monitor	gpd	<1440 E	32112	626	<4114E	<4114 E	HTW	<4114 E	<20736 E	3600 E	5760	4114	770 E	626	1775 E	2880E	2880E	5722E	3497E	1377E	3292E	4770E
Temperature	90	ºF	69	65	68	51	55	54	44	43	46	46	42	44	40	44	46	44	58	53	66	64	66
pH	6.0-9.0	SU	7.4	7.0	6.8	6.8	7.4	6.5	6.8	6.8	6.3	6.8	6.6	7.4	6.6	6.8	6.6	6.8	6.3	6.4	6.8	6.8	6.6
Solids, Total Suspended	10 (dry) / 50 (wet)	mg/l	15	<4	<4	8	6	7	21	<4	5	5	<4	<4	9	7	6	9	<4	<4	7	<4	<4
cis-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	2	<1	<1	1	<1	<1	<1	2	2	4	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
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
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
Copper, Total	100	ug/l	14	15	26	17	14	<10	12	14	18	33	20	25	17	25	32	28	35	32	25	29	30
Oil & Grease	15	mg/l	<5		<5			<5		**24**	<5				<5	<5		<5			<5		<5
Phenolics, Total	28	ug/l	<20		<20			<20		<20	<20				<20	<20		<20			<20		<20
Antimony, Total	300	ug/l								<10						<10							
Chromium, Total	51	ug/l								<10													
Fluoride, Total	2500	ug/l								240													
Lead, Total	13	ug/l								<10													
Zinc, Total	210	ug/l								38													
SPDES Outfall 002																							
Flow Rate	Monitor	gpd	37	34824	208	208	11643	HTW	HTW	HTW	28800 E	43871	32084	5672	1178	3247	8947	8947	3966	2058	208	2058	3966E
Temperature	90	ºF	69	66	68	53	56	60	48	47	49	41	36	46	43	50	49	51	57	54	68	66	69
pH	6.0-9.0	SU	7.2	6.9	7.0	7.2	7.4	6.6	6.9	6.7	6.3	7.5	7.6	6.9	7.3	6.9	6.8	7.4	6.5	6.5	7.2	6.9	6.2
Solids, Total Suspended	10 (dry) / 50 (wet)	mg/l	<4	<4	<4	7	<4	4	<4	<4	<4	<4	<4	<4	<4	6	<4	8	<4	<4	<4	<4	<4
Oil & Grease	15	mg/l	<5		<5			9		**16**	<5				<5	<5		<5			<5		6
Phenolics, Total	24	ug/l	<20		<20			<20		<20	<20				<20	<20		<20			<20		<20
Fluoride, Total	1500	ug/l								200													
SPDES Outfall 003																							
Flow Rate	Monitor	gpd	9969	103680	13642	15247	25920	43200	25920	37029	32400	47127	21600	8361	5400	51840	32400	25920	51840	39273	10327	33188	33010E
Temperature	90	ºF	71	64	63	45	52	48	35	42	43	34	33	37	36	48	51	45	60	56	75	71	73
pH	6.0-9.0	SU	7.8	7.2	7.6	7.6	7.1	7.1	7.3	6.8	6.1	6.9	7.1	7.1	7.0	6.8	7.4	7.1	7.0	6.9	7.0	7.3	7.1
Solids, Total Suspended	10 (dry) / 50 (wet)	mg/l	<4	<4	<4	<4	<4	4	4	<4	<4	<4	<4	4	17	5	<4	<4	<4	<4	<4	<4	<4
Chlorine, Total Residual	100	ug/l	50	80	50	30	50	90	30	50	50	30	20	30	40	50	50	30	60	30	10	30	20
cis-1,2-Dichloroethylene	10	ug/l	<1	1	<1	<1	2	3	10	6	4	11	2	5	2	3	3	2	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
Trichloroethylene	10	ug/l	<1	<1	<1	<1	1	2	8	1	3	3	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
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
Oil & Grease	15	mg/l	<5		<5			8		<5	<5				<5	<5		<5			<5		<5
Phenolics, Total	44	ug/l	<20		<20			<20		<20	<20				<20	<20		<20			<20		<20
PCBs, Aroclors (Compliance)	300	ng/l								<50						<50							
PCBs, Congeners (1668A Study)	NA	pg/l								3449													
Lead, Total	10	ug/l								<10													
Zinc, Total	120	ug/l								11													

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

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SPDES NO. NY-0257087

Monitoring Period	*ECL*		*July '04*			*August '04*		*September '04*			*October '04*		*November '04*		*December '04*		*January '05*			*February '05*	
Monitoring Date	*Daily Max*	*Units*	6/30/2004	7/15/2004	7/29/2004	8/13/2004	8/26/2004	9/10/2004	9/22/2004	9/23/2004	10/6/2004	10/20/2004	11/3/2004	11/15/2004	11/30/2004	12/17/2004	12/28/2004	1/12-13/05	1/26 - 27/2005	2/9/2005	2/22/2005
Sampler ID			rrc	rrc	rrc	sjm	rrc	sjm	sjm	sjm	sjm	sjm	sjm	sjm	sjm	sjm	sjm	sjm	sjm	sjm	sjm
SPDES Outfall 001																					
Flow Rate	Monitor	gpd	4770E	2314E	1196E	26111	3505	2314	1196		0	1196	5200	1140	HTW	2880	626E	9026	4770	152	21739
Temperature	90	ºF	19	67	71	70	64	68	68		62	56	55	49	51	48	41	41	43	45	47
pH	6.0-9.0	SU	6.8	6.8	6.8	6.6	6.9	6.5	6.3		6.2	7.4	6.5	7.0	7.2	7.1	7.4	6.96	7.1	7.7	7.0
Solids, Total Suspended	10 (dry)	mg/l	10	<4	6	<4	5	<4	<4		<4	<4	6	<4	<4	14	4	<4	<4	<4	5
	50 (wet)																				
cis-1,2-Dichloroethylene	10	ug/l	<1	1	4	<1	<1	2	<1		<1	<1	<1	1	2.2	1.4	<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
Trichloroethylene	10	ug/l	<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
Copper, Total	100	ug/l	50	34	43	29	17	41	38		<10	20	62	**420**	<10	<10	10	<10	20	29	78
Oil & Grease	15	mg/l	<5			<5	9	<5			<5	**26**	<5	<5		<5		<5		**23**	
Phenolics, Total	28	ug/l	<20			<20	<20	<20			<20	<20	<20	<20		<20		<20		21	
Antimony, Total	300	ug/l		<10			<10	13				<10		<10						<10	
Chromium, Total	51	ug/l					42							<10							
Fluoride, Total	2500	ug/l					410							930							
Lead, Total	13	ug/l					<10							<10							
Zinc, Total	210	ug/l					58							<10							
SPDES Outfall 002																					
Flow Rate	Monitor	gpd	1178E	3247E	3966E	50610	1178	3247	37		208	2612	2058	208	HTW	2058	364	24654	6665	13153	24654
Temperature	90	ºF	19	68	69	72	64	67	71		66	57	57	55	54	49	46	47	45	45	48
pH	6.0-9.0	SU	7.2	7.1	6.8	6.6	7.3	6.9	6.9		6.9	7.9	5.8	7.3	7.8	7.0	6.5	7.2	7.1	7.1	7.5
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	<4	<4	<4	9.0		4.0	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
	50 (wet)																				
Oil & Grease	15	mg/l	<5			<5	10	<5			<5	**45**	6	<5		<5		<5		<5	
Phenolics, Total	24	ug/l	<20			<20	<20	<20			<20	<20	<20	<20		<20		<20		<20	
Fluoride, Total	1500	ug/l					380							490							
SPDES Outfall 003																					
Flow Rate	Monitor	gpd	20000E	21000	33200E	75000	25000	15549		10540	8934	8640	23542	10800	37008	21600	15247	32400	28800	32400	43200
Temperature	90	ºF	25	75	71	70	70	66		69	61	50	51	42	48	37	35	37	36	38	35
pH	6.0-9.0	SU	7.6	7.5	7.8	7.1	7.7	6.6		6.4	6.7	7.5	6.4	7.6	7.7	7.1	6.5	7.6	6.8	7.3	7.4
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	<4	<4	<4		<4	<4	<4	12	8	<4	<4	<4	<4 (sampled 1/27)	<4	4.5	<4
	50 (wet)																				
Chlorine, Total Residual	100	ug/l	30	40	30	60	65	30		40	60	50	20	70	50	40	20	30	20	40	40
cis-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	1	<1	<1		<1	<1	<1	<1	<1	2.1	3.8	<1	1.2	<1	2.2	7.5
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
Trichloroethylene	10	ug/l	<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
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Oil & Grease	15	mg/l	<5			<5	<5	<5			<5	<5	5	<5		<5		<5		9	
Phenolics, Total	44	ug/l	<20			<20	**79**	<20			<20	<20	<20	<20		<20		<20		<20	
PCBs, Aroclors (Compliance)	300	ng/l		<50			<50					<50		<50		<50					<50
PCBs, Congeners (1668A Study)	NA	pg/l		4134								2137				2761					3765
Lead, Total	10	ug/l					<10							<10							
Zinc, Total	120	ug/l					<10							<10							

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

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SPDES Outfall 001

Monitoring Period	ECL		March '05		April '05		May '05		June '05		July '05			August '05		September '05		October '05		November '05		December '05		
Monitoring Date	Daily Max	Units	3/7/2005	3/22/2005	4/6/2005	4/20/2005	5/4/2005	5/20/2005	6/2/2005	6/14/2005	6/30/2005	7/13/2005	7/27/2005	8/10/2005	8/23/05	9/6/2005	9/22/2005	10/6/2005	10/21/2005	10/31/2005	11/15/2005	11/29/2005	12/12/2005	12/28/2005
Sampler ID			sjm	sjm	sjm	sjm	rrc	rrc	rrc	rrc	rrc	sm	bhm	sjm	sjm	sjm	rrc	sjm	sjm	sjm	sjm	sjm	sjm	rrc
Flow Rate	Monitor	gpd	19677	HTW	HTW	152	1196	152	152	38566	3505	4770	40	80	80	152	152	HTW	HTW	50	28432	3505	HTW	125
Temperature	90	ºF	49	42	47	55	55	58	60	70	67	72	72	73	69	67	70	65	60	53	49	53	43	44
pH	6.0-9.0	SU	8.0	6.6	6.6	7.8	7.7	7.7	6.8	6.8	7.5	6.7	6.5	6.7	6.3	7.0	6.9	6.5	7.4	8.8	8.2	7.8	7.2	7.0
Solids, Total Suspended	10 (dry)	mg/l	5	5.5	10	<4	10	27	42	<4	27	<4	9	5	4	31	6.5	29	11	27	<4	6.5	<4	<4
	50 (wet)																							
cis-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	2
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
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
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
Copper, Total	100	ug/l	31	<10	<10	83	25	<10	<10	69	<10	50	14	18	33	<10	35	<10	<10	<10	31	22	13	20
Oil & Grease	15	mg/l	<5		<5		<5		6.4		<5			<5		<5		<5		<5		5.8		
Phenolics, Total	28	ug/l	<20		<20		36		**100**		<20			<20		<20		<20		<2		4		
Antimony, Total	300	ug/l					<10							<10						<10				
Chromium, Total	51	ug/l					<10													<10				
Fluoride, Total	2500	ug/l					310													580				
Lead, Total	13	ug/l					<10													<10				
Zinc, Total	210	ug/l					76													29				

SPDES Outfall 002

Flow Rate	Monitor	gpd	120894	HTW	HTW	364	1582	364	7	57935	37	2612	5672	37	37	574	HTW	HTW	HTW	364	13153	364	HTW	844
Temperature	90	ºF	49	41	48	53	55	56	65	71	65	71	69	73	68	67	68	65	61	60	49	55	43	48
pH	6.0-9.0	SU	7.1	6.9	6.9	7.9	7.8	7.9	6.7	6.7	7.3	6.7	7.1	6.7	6.9	6.9	6.7	6.7	7.5	7.7	7.3	7.2	6.9	7.2
Solids, Total Suspended	10 (dry)	mg/l	<4	5	<4	<4	4.5	<4	8.5	<4	5	<4	4	<4	<4	<4	<4	13	<4	8	<4	<4	<4	<4
	50 (wet)																							
Oil & Grease	15	mg/l	6.8		<5		<5		5		<5			<5		<5		<5		<5		6.5		
Phenolics, Total	24	ug/l	<20		<20		29		**76**		<20			<20		<20		<20		<2		2.6		
Fluoride, Total	1500	ug/l					230													380				

SPDES Outfall 003

Flow Rate	Monitor	gpd	28880	172800	24300	6480	7783	3020	3744	64800	17280	2880	1100	2880	2520	6171	1728	9600	12342	17280	29950	21600	34560	21600
Temperature	90	ºF	45	44	52	60	61	64	80	71	76	77	73	80	68	65	72	64	54	55	46	53	42	47
pH	6.0-9.0	SU	7.6	7.3	7.6	8.3	7.9	8.1	7.2	6.9	7.8	7.2	7.1	7.2	7.1	6.7	6.9	7.1	7.8	8.4	6.8	7.3	7.2	7.4
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	<4	<4	<4	<4	<4	4.5	<4	5	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
	50 (wet)																							
Chlorine, Total Residual	100	ug/l	90	80	40	50	50	60	30	80	40	50	30	40	40	80	30	20	30	40	10	30	40	40
cis-1,2-Dichloroethylene	10	ug/l	5.2	6.4	<1	<1	<1	<1	<1	1.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.8	<1	1.4	2.5
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
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
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
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
Oil & Grease	15	mg/l	<5		<5		<5		5		<5			<5		<5		5.5		<5		<5		
Phenolics, Total	44	ug/l	<20		<20		27		40		<20			<20		<20		<20		<2		2.6		
PCBs, Aroclors (Compliance)	300	ng/l												<0.1						<100				
PCBs, Congeners (1668A Study)	NA	pg/l																		na				
Lead, Total	10	ug/l					<10													<10				
Zinc, Total	120	ug/l					14													<10				

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

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2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087

Monitoring Period	*ECL*		*January '06*		*February '06*		*March '06*		*April '06*		*May '06*		*June '06*			*July '06*		*August '06*		*September '06*	
Monitoring Date	*Daily Max*	*Units*	1/13/2006	1/25/2006	2/9/2006	2/20/2006	3/3/2006	3/24/2006	4/7/2006	4/20/2006	5/3/2006	5/17/2006	6/2/2006	6/16/2006	6/30/2006	7/11/2006	7/26/2006	8/10/2006	8/22/2006	9/7/2006	9/20/2006
Sampler ID			rrc	rrc	rrc	rrc	rrc	bhm	rrc	rrc	BHM	RRC	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc
SPDES Outfall 001																					
Flow Rate	Monitor	gpd	HTW	HTW	HTW	152	152	4770	47076	152	152	152	152	3505	10600	152	152	152	152	152	3505
Temperature	90	°F	44	44	44	40	41	50	46	51	57	55	58	60	66	65	68	68	69	65	64
pH	6.0-9.0	SU	7.3	7.2	7.2	7.4	7.9	7.3	7.0	7.5	7.3	7.1	6.9	6.9	6.9	6.94	7.2	7.14	6.64	6.6	7.35
Solids, Total Suspended	10 (dry)	mg/l	12	5	24	26	48	6.5	21	33	25	7.4	45	40	<4	<4	31	38	4	21	<4
	50 (wet)																				
cis-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
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
Trichloroethylene	10	ug/l	<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	1.9	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.2	<1	<1
Copper, Total	100	ug/l	15	28	10	11	11	18	18	<10	<10	45	<10	<10	23	59	<10	<10	<10	<10	<10
Oil & Grease	15	mg/l		<5	<5		<5		5.1		<5		<5			<5		<5		<5	
Phenolics, Total	28	ug/l		4.3	6.7		3.4		2.2		5.5		2.1			2.1		<2		<2	
Antimony, Total	300	ug/l							<10				<10			<10					
Chromium, Total	51	ug/l											<10								
Fluoride, Total	2500	ug/l											410								
Lead, Total	13	ug/l											12								
Zinc, Total	210	ug/l											25								
SPDES Outfall 002																					
Flow Rate	Monitor	gpd	HTW	HTW	HTW	574	364	HTW	10221	364	37	364	101	364	HTW	101	101	844	208	7	3966
Temperature	90	°F	43	42	44	44	45	49	50	52	57	54	58	60	66	65	67	68	69	67	64
pH	6.0-9.0	SU	7.5	7.6	6.8	7.2	7.2	7.7	7.9	7.6	7.7	7.1	6.8	6.9	7.3	7.07	6.98	6.97	7.24	6.98	7.93
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	<4	<4	<4	<4	4	5.5	<4	<4	13	<4	<4	<4	<4	<4	11	<4
	50 (wet)																				
Oil & Grease	15	mg/l		<5	<5		<5		<5		<5		<5			<5		<5		<5	
Phenolics, Total	24	ug/l		5.8	5.7		3.2		3.3		6.1		2.9			2.9		<2		<2	
Fluoride, Total	1500	ug/l											160								
SPDES Outfall 003																					
Flow Rate	Monitor	gpd	28800	43200	29394	24300	29494	41760	100800	25200	16070	5760	36400	25200	92100	43200	32400	33600	100800	25200	75600
Temperature	90	°F	47	42	43	34	34	48	44	48	61	48	58	70	67	71	68	69	69	69	69
pH	6.0-9.0	SU	7	7.1	7.2	7.3	6.4	8.1	7.3	7.6	7.8	6.9	7.2	7.1	7.1	6.8	7.16	7.24	7.15	7.03	7.47
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
	50 (wet)																				
Chlorine, Total Residual	100	ug/l	55	40	50	40	40	80	40	35	40	35	40	35	40	40	45	30	40	35	45
cis-1,2-Dichloroethylene	10	ug/l	3.4	2.9	2.2	1.9	<1	2.1	<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
Trichloroethylene	10	ug/l	<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
Chloroform	46	ug/l	<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	<5		<5		<5		<5		<5			<5		<5		<5	
Phenolics, Total	44	ug/l		3.9	4.4		2.2		2.7		4.4		3.9			3		<2		<2	
PCBs, Aroclors (Compliance)	300	ng/l							<50				<100			<100					
PCBs, Congeners (1668A Study)	NA	pg/l											na			na					
Lead, Total	10	ug/l											10								
Zinc, Total	120	ug/l											<10								

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

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SPDES Outfall 001

Monitoring Period	ECL		October '06		November '06			December '06		January '07		February '07		March '07		April '07		May '07			June '07		July '07	
Monitoring Date	Daily Max	Units	10/5/2006	10/17/2006	11/3/2006	11/16/2006	11/30/2006	12/14/2006	12/29/2006	1/10/2007	1/26/2007	2/9/2007	22/21/07	3/9/2007	3/23/2007	4/3/2007	4/18/2007	5/1/2007	5/15/2007	5/31/2007	6/12/2007	6/26/2007	7/12/2007	7/26/2007
Sampler ID			rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc
Flow Rate	Monitor	gpd	152	19677	15801	HTW	152	152	HTW	HTW	70199	3505	21739	HTW	HTW	HTW	HTW	152	152	152	HTW	HTW	HTW	HTW
Temperature	90	ºF	62	55	54	54	50	49	45	46	41	41	43	38	40	45	44	50	53	57	60	64	66	66
pH	6.0-9.0	SU	7.8	8.3	7.4	7.3	7.4	7.4	7.3	7.7	7.8	7.9	7.9	7.5	7.7	7.7	7.6	7.6	7.6	7.6	7.9	7.8	7.3	7.0
Solids, Total Suspended	10 (dry) / 50 (wet)	mg/l	7	<4	27	<4	30	6.5	18	7	27	28	<4	29	6	27	14	31	25	34	39	31	<4	31
cis-1,2-Dichloroethylene	10	ug/l	<2	<1	<1	2.1	<1	<1	1	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,2-Dichloroethylene	10	ug/l	<2	<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	<2	<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	<2	<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	25	37	27	15	<10	25	15	<10	14	<10	29	<10	12	<10	<10	<10	<10	<10	<10	<10	<10	<10
Oil & Grease	15	mg/l	<5		<5	<5		<5		<5		6		6		6		<5			<5		**17**	
Phenolics, Total	28	ug/l	2		<2	<2		<2		<2		2.6		<50		<20		<3			<3		<3	<3
Antimony, Total	300	ug/l			11											<10					14			<10
Chromium, Total	51	ug/l			12																11			
Fluoride, Total	2500	ug/l			460																365			
Lead, Total	13	ug/l			**22**																13			
Zinc, Total	210	ug/l			35																31			

SPDES Outfall 002

Flow Rate	Monitor	gpd	101	16512	4773	HTW	208	208	HTW	HTW	13153	16512	13153	HTW	HTW	HTW	HTW	208	37	208	208	HTW	574	3966
Temperature	90	ºF	65	52	60		58	55	53	52	42	46	46	38	47	49	48	51	53	56	59	65	76	73
pH	6.0-9.0	SU	7.3	8.2	7.6	7.6	7.6	7.6	7.9	7.4	7.4	7.8	7.9	8.7	7.7	7.5	7.6	7.9	8.0	7.7	7.4	7.6	7.7	7.0
Solids, Total Suspended	10 (dry) / 50 (wet)	mg/l	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	6	14	7	<4	26
Oil & Grease	15	mg/l	<5		<5	<5		<5		<5		6		11		7.1		<6			<5		5	
Phenolics, Total	24	ug/l	2		<2	<2		<2		<2		4		<50		<20		<3			<3		<3	
Fluoride, Total	1500	ug/l			260																			

SPDES Outfall 003

Flow Rate	Monitor	gpd	35576	302400	60480	35576	50400	37800	58154	37800	47999	60480	33600	43199	151200	151200	151200	75600	4319	4319	86399	25620	30240	30240
Temperature	90	ºF	61	51	47	55	55	47	42	39	34	35	35	35	41	53	46	56	69	70	74	71	76	73
pH	6.0-9.0	SU	7.3	7.7	7.7	7.7	7.7	7.6	8	7.4	8.4	8	8.1	8.1	8	8	8	8	8.3	7.9	8	8	7.9	7.4
Solids, Total Suspended	10 (dry) / 50 (wet)	mg/l	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	17	27	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Chlorine, Total Residual	100	ug/l	40	45	35	45	40	40	45	40	50	45	40	40	45	40	45	50	40	45	40	40	40	40
cis-1,2-Dichloroethylene	10	ug/l	<1	1.2	<1	<1	<1	<1	<1	<1	2	<1	<1	1.8	4.2	<1	1.6	<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
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
Vinyl Chloride	10	ug/l	<1	<1	<1	<1	<1	<2	<1	<2	<1	<2	<2	<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
Oil & Grease	15	mg/l	<5		<5	5.9		<5		<5		<6		<5		7.4		<5			<5		<5	
Phenolics, Total	44	ug/l	<2		<2	<2		3		<2		<2		<50		<20		<3			<3		<3	
PCBs, Aroclors (Compliance)	300	ng/l			<50											<35						<100		
PCBs, Congeners (1668A Study)	NA	pg/l																						
Lead, Total	10	ug/l			**17**																13			
Zinc, Total	120	ug/l			14																11			

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

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Monitoring Period	*ECL*		*August '07*		*September '07*		*October '07*		*November '07*			*December '07*		*January '08*		*February '08*		*March '08*		*April '08*		
Monitoring Date	*Daily Max*	*Units*	8/10/2007	8/23/2007	9/6/2007	9/21/2007	10/5/2007	10/19/2007	11/2/2007	11/16/2007	11/30/2007	12/14/2007	12/28/2007	1/11/2008	1/25/2008	2/8/2008	2/21/2008	3/4/2008	3/17/2008	4/3/2008	4/18/2008	4/29/2008
Sampler ID			rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	sm	rrc	sm - qtrly
SPDES Outfall 001																						
Flow Rate	Monitor	gpd	19677	152	HTW	152	152	3505	152	HTW	HTW	HTW	HTW	HTW	HTW	HTW	HTW	HTW	HTW	HTW	12253	2314
Temperature	90	ºF	69	69	69	70	67	64	58	53	63	48	45	46	43	43	42	45	42	47	49	53
pH	6.0-9.0	SU	6.7	7.7	7.3	7.2	7.3	7.3	7.4	7.4	7.3	7.4	7.9	7.3	7.8	7.6	7.6	6.6	7.2	7.2	7.3	7.2
Solids, Total Suspended	10 (dry)	mg/l	<4	11	5	<4	<4	20	15	<4	<4	<4	<4	<4	14	<4	10	14	4	<4	18	10
	50 (wet)																					
cis-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	1.7	<1	5.2	<1	<1	<1	<1	<1	1	<1	2.4	<1	<1
trans-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.8	<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
Chloroform	46	ug/l	<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	59	38	<10	54	18	<10	42	22	12	32	37	<10	<10	<10		29	<10	48	14	12
Oil & Grease	15	mg/l	6			<5	5.2		<5	<5			<5	<5		<5		<5		<5		<5
Phenolics, Total	28	ug/l	<2			<3	4.1		<3	<3			<3	<3		<3		<3		<3		<3
Antimony, Total	300	ug/l					<10			<10						<10						<10
Chromium, Total	51	ug/l								<10												
Fluoride, Total	2500	ug/l								220												
Lead, Total	13	ug/l								<10												
Zinc, Total	210	ug/l								29												
SPDES Outfall 002																						
Flow Rate	Monitor	gpd	844	208	101	101	208	364	7	HTW	HTW	HTW	HTW	HTW	HTW	HTW	HTW	HTW	HTW	HTW	7	HTW
Temperature	90	ºF	70	69	67	67	66	66	61	55	43	50	45	44	50	48	44	42	47	46	50	55
pH	6.0-9.0	SU	7.2	7.2	7.4	7.3	7.5	7.5	7.7	7.6	7.7	7.6	7.6	8.2	7.6	7.5	7.9	6.1	7.4	7.9	7.6	7.4
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	4	5	6.5	5	6	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
	50 (wet)																					
Oil & Grease	15	mg/l	<5			<5	<5		<5	<5			5	<5		<5		<5		<5		<5
Phenolics, Total	24	ug/l	<2			<3	<3		<3	<3			<3	<3		<3		<3		<3		<3
Fluoride, Total	1500	ug/l								<100												
SPDES Outfall 003																						
Flow Rate	Monitor	gpd	100800	20160	5760	75600	33600	23261	37800	151200	60480	75600	302400	46523	13745	100800	46533	75600	37800	100800	50400	16800
Temperature	90	ºF	68	69	67	69	65	62	53	47	43	42	43	38	35	39	35	38	45	43	63	55
pH	6.0-9.0	SU	7.3	7.2	7.7	7.2	7.6	7.6	7.7	7.7	7.8	7.9	7.6	7.6	7.2	7.8	8	7.1	7.8	7.4	7.7	7.8
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
	50 (wet)																					
Chlorine, Total Residual	100	ug/l	50	55	50	45	40	45	40	40	45	40	45	40	40	40	45	40	80	60	55	90
cis-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.2	2.4	2.5	1.1	<1	3.8	1.1	1.7	<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
Trichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	<1	<1	<1	4.2	<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
Chloroform	46	ug/l	<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	5.4			<5	<5		<5	<5			<5	7.2		<5		<5		<5		<5
Phenolics, Total	44	ug/l	<2			<3	<3		<3	<3			<3	<3		<3		<3		<3		<3
PCBs, Aroclors (Compliance)	300	ng/l								<100						<100						<100
PCBs, Congeners (1668A Study)	NA	pg/l																				
Lead, Total	10	ug/l								<10												
Zinc, Total	120	ug/l								<10												

TABLE 5-1
CUMULATIVE SUMMARY OF SPDES MONITORING RESULTS

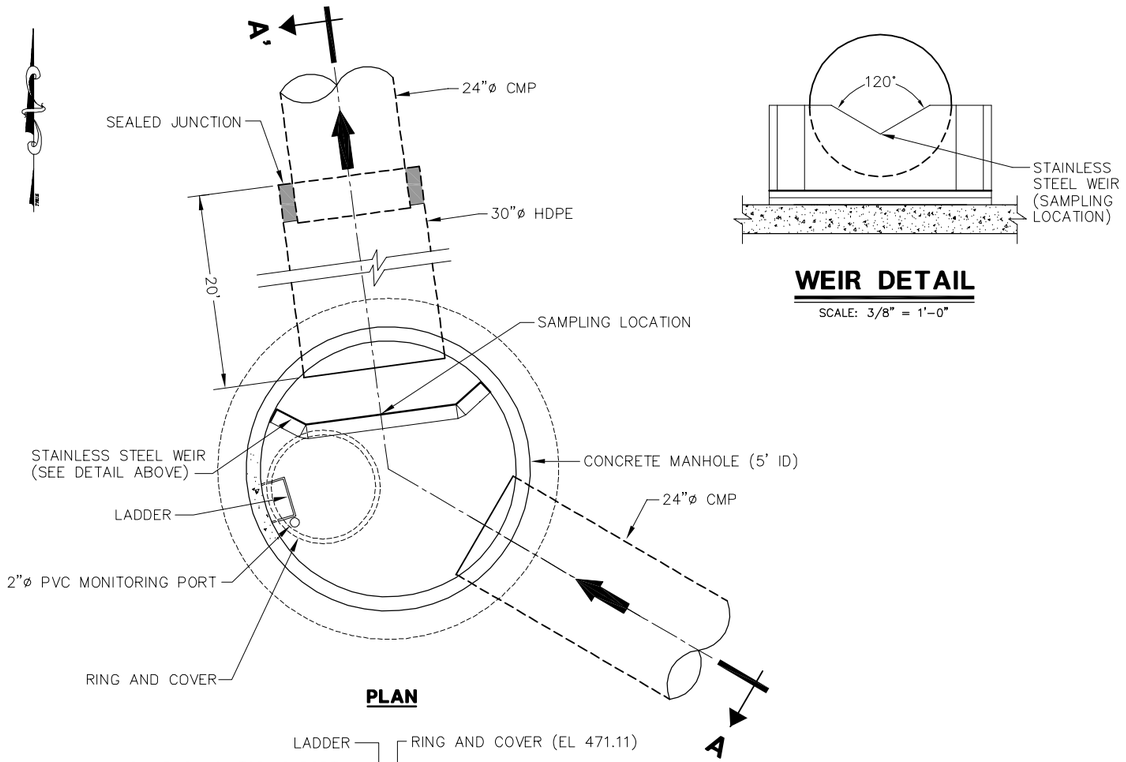
2008 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
SPDES NO. NY-0257087

Monitoring Period	*ECL*		*May '08*		*June '08*		*July '08*		*August '08*		*September '08*		*October '08*			*November '08*		*December '08*	
Monitoring Date	*Daily Max*	*Units*	5/13/2008	5/29/2008	6/11/2008	6/24/2008	7/10/2008	7/23/2008	8/6/2008	8/19/2008	9/5/2008	9/16/2008	10/1/2008	10/15/2008	10/29/2008	11/14/2008	11/25/2008	12/9/2008	12/24/2008
Sampler ID			rrc - montholy	sji - biweekly	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc	rrc
SPDES Outfall 001																			
Flow Rate	Monitor	gpd	152	152	152	12253	152	4770	2314	70199	1196	3505	152	1196	HTW	HTW	HTW	HTW	HTW
Temperature	90	ºF	53	55	64	62	65	71	68	69	68	69	66	62	50	49	53	46	43
pH	6.0-9.0	SU	7.7	7.7	6.8	7.1	7.4	7.6	7.2	7.0	6.7	6.9	7.0	7.1	7.9	7.5	8.2	7.2	7.3
Solids, Total Suspended	10 (dry)	mg/l	17	<4	<4	48	31	<4	6	<4	53	31	<4	9.5	<4	9	<4	10	<4
	50 (wet)																		
cis-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.7	<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
Trichloroethylene	10	ug/l	<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
Copper, Total	100	ug/l	68	34	51	<10	<10	36	<10	30	<10	51	34	43	28	43	14	11	<10
Oil & Grease	15	mg/l	<5		<5		<5		<5		<5		<5			<5	<5	6.6	
Phenolics, Total	28	ug/l	<3		<3		<3		<3		4.3		<3			<3		<3	
Antimony, Total	300	ug/l			<10				<10				<10						
Chromium, Total	51	ug/l			11				11										
Fluoride, Total	2500	ug/l			190				190										
Lead, Total	13	ug/l			<10				<10										
Zinc, Total	210	ug/l			49				49										
SPDES Outfall 002																			
Flow Rate	Monitor	gpd	37	37	HTW	7755	101	3966	3966	50610	574	1178	364	208	HTW	HTW	HTW	HTW	HTW
Temperature	90	ºF	53	55	66	62	64	71	67	69	67	68	66	64	46	48	55	43	53
pH	6.0-9.0	SU	7.5	6.7	7.2	7.6	7.4	7.5	7.4	7.5	7.3	7.2	7.3	7.3	7.6	7.7	8.3	7.7	7.9
Solids, Total Suspended	10 (dry)	mg/l	6.5	<4	<4	7	6.5	<4	4.5	<4	<4	4.5	<4	<4	5	<4	<4	<4	<4
	50 (wet)																		
Oil & Grease	15	mg/l	<5		<5		<5		<5		<5		<5			<5		<5	
Phenolics, Total	24	ug/l	<3		<3		<3		<3		5.6		<3			<3		<3	
Fluoride, Total	1500	ug/l			140				140										
SPDES Outfall 003																			
Flow Rate	Monitor	gpd	8640	10427	10080	50400	15915	100800	7033	20160	43200	30240	100800	75600	20160	75600	43200	201600	151200
Temperature	90	ºF	66	69	73	75	75	71	73	69	73	66	65	58	62	41	47	34	35
pH	6.0-9.0	SU	7	7	7.2	7.8	7.9	7.4	7.2	7.2	7.6	7.2	7.7	7.6	7.6	8.1	7.9	7.9	6.9
Solids, Total Suspended	10 (dry)	mg/l	<4	<4	<4	<4	<4	<4	<4	83	<4	<4	<4	<4	<4	<4	<4	<4	<4
	50 (wet)																		
Chlorine, Total Residual	100	ug/l	80	96	330	95	80	60	50	55	60	55	55	40	45	45	40	45	45
cis-1,2-Dichloroethylene	10	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1.2	<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
Trichloroethylene	10	ug/l	<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
Chloroform	46	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Oil & Grease	15	mg/l	<5		<5		<5		<5		<5		<5			<5		<5	
Phenolics, Total	44	ug/l	<3		<3		<3		<3		<3		<3			<3		<3	
PCBs, Aroclors (Compliance)	300	ng/l			<50								<100			<50			
PCBs, Congeners (1668A Study)	NA	pg/l																	
Lead, Total	10	ug/l			<10											<10			
Zinc, Total	120	ug/l			<10											<10			

Notes:

1. ECL = Effluent Compliance Level.
2. gpd = gallons per day.
3. ºF = Degrees Fahrenheit.
4. SU = Standard Units.
5. mg/l = milligrams per liter, approximately equivalent to ppm.
6. ug/l = micrograms per liter, approximately equivalent to ppb.
7. ng/l = nanograms per liter, approximately equivalent to parts per trillion (ppt).
8. pg/l = picograms per liter, approximately equivalent to parts per quadrillion (ppq).
9. HTW = High Tail Water.
10. No Flow = No measurable discharge.
11. E = Estimated.
12. NA = Not analyzed.
13. Bolded values exceed permit effluent compliance levels.

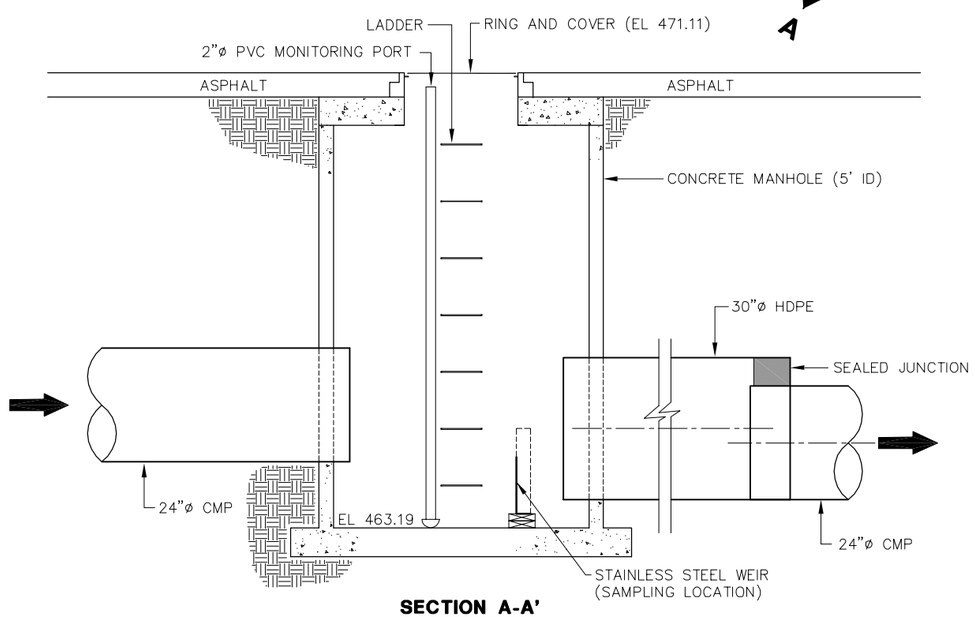
5.6 Figures



PLAN

WEIR DETAIL

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



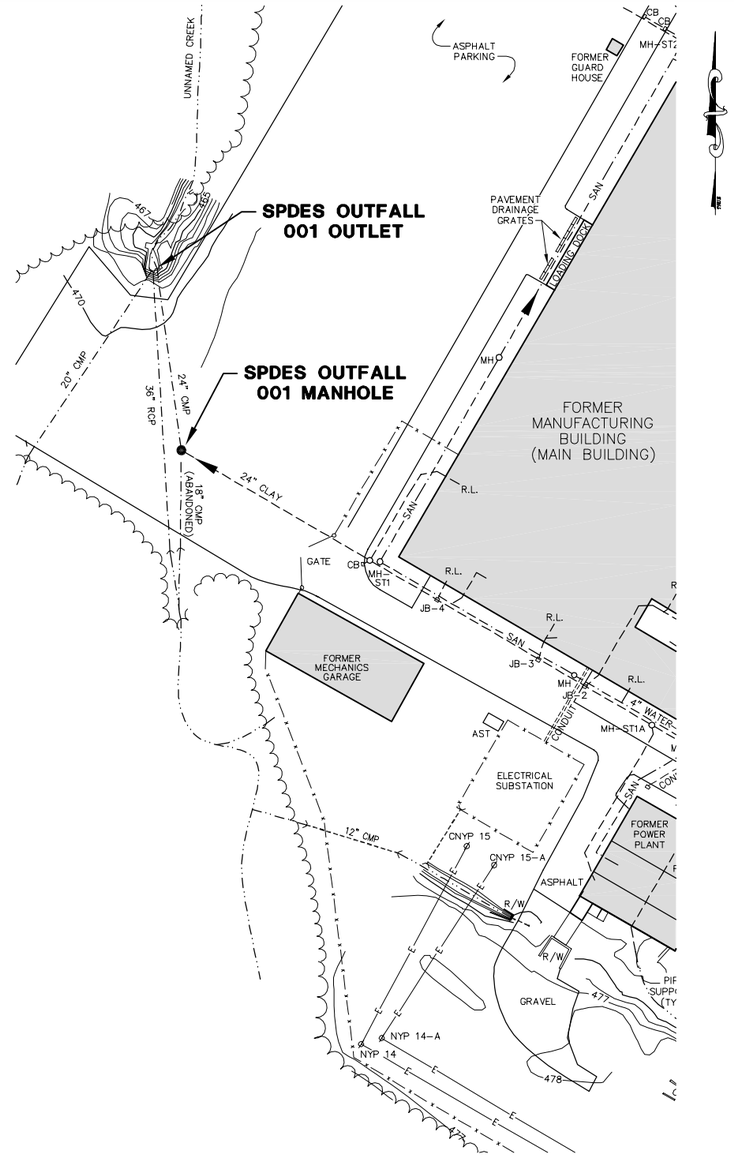
SECTION A-A'

SPDES OUTFALL 001 MANHOLE PLAN AND SECTION

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

0 2' 5'

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



MANHOLE LOCATION PLAN

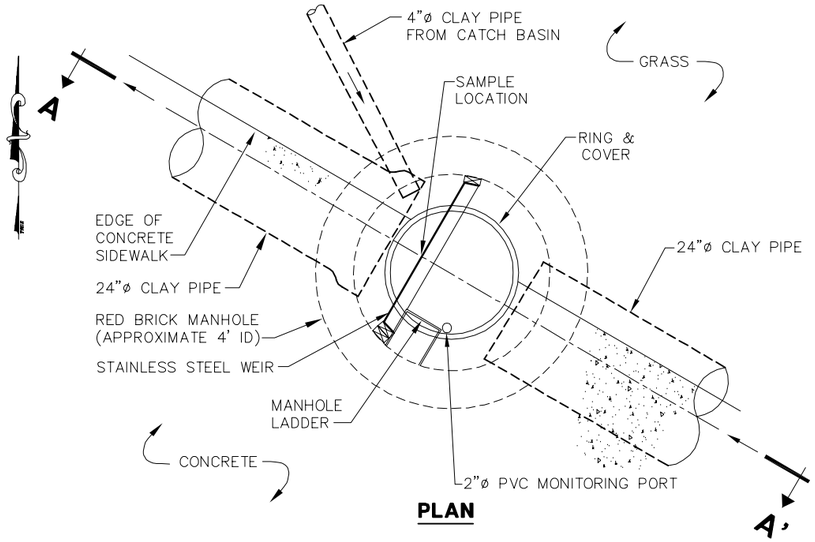
SCALE: 1" = 120'

0 120' 240'

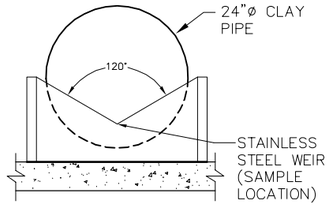
GRAPHIC SCALE: 1" = 120'

X: CP-BASE
P: BL
2/12/09
SYNAPSE/WP/DANA 01-04/2008OP&M/DANAB06.DWG

synapse SYNAPSE RISK MANAGEMENT, LLC HISTORIC BENNETT WAREHOUSE 325 EAST WATER STREET SYRACUSE, NEW YORK 13202	2008 ANNUAL OPERATION, MAINTENANCE, AND MONITORING REPORT 2200 BLEECKER STREET UTICA, NEW YORK	**SPDES OUTFALL 001 MANHOLE PLAN AND SECTION**	PROJECT NO.: DANA 01-04 DATE: MARCH 2009 FIGURE NO.: **5-1**

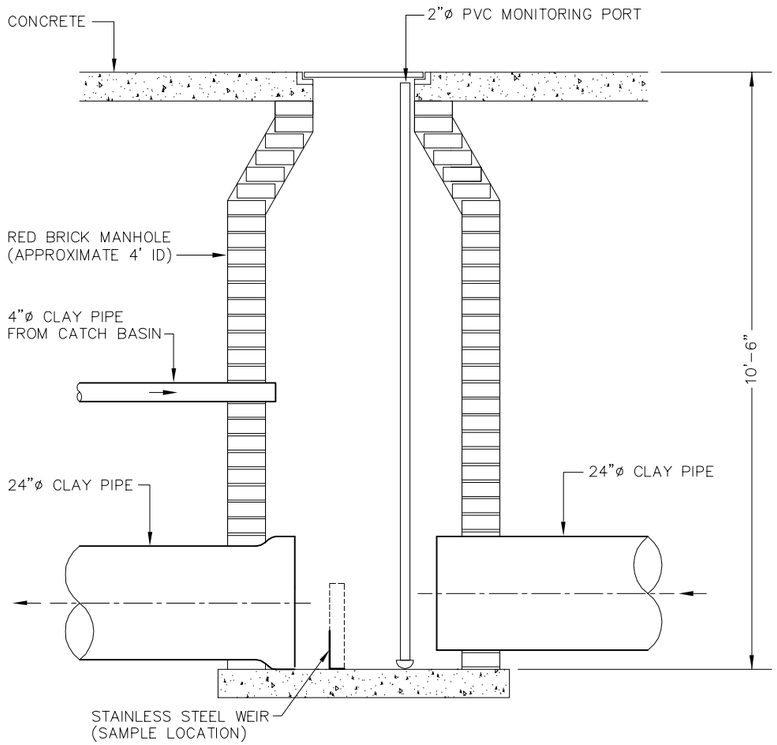


PLAN



WEIR DETAIL

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



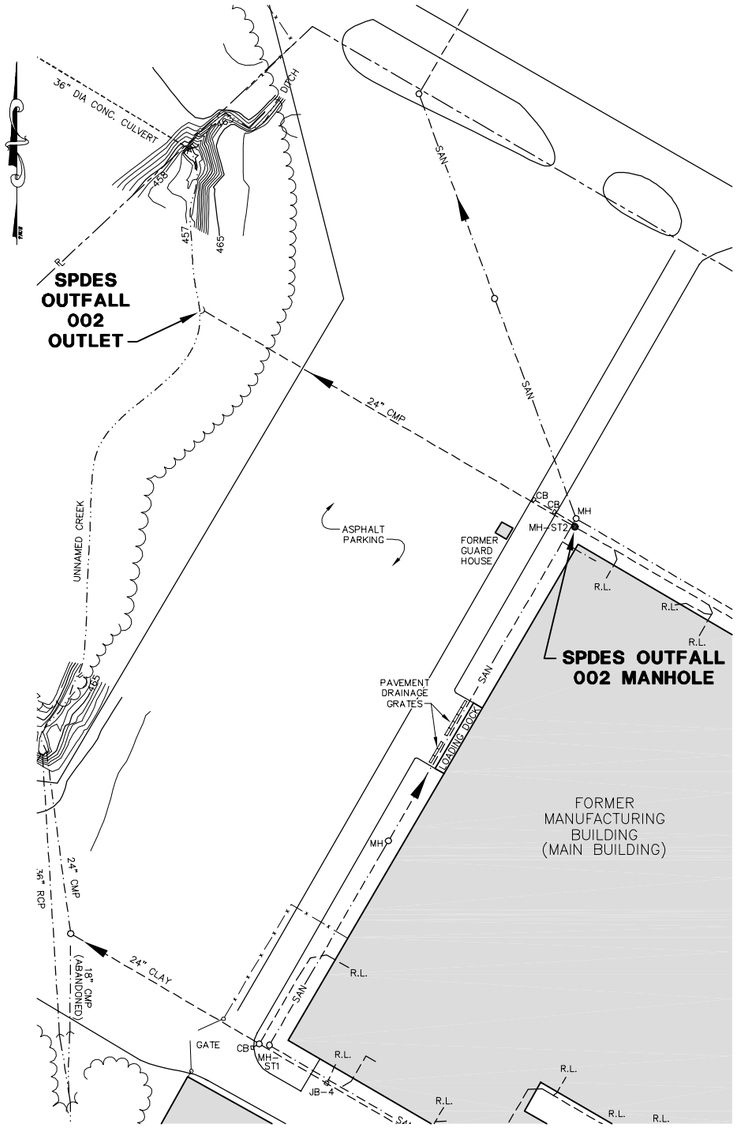
SECTION A-A'

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: D2BBW
2/12/09
SYNAPSE/WP/DANA 01-04/2008OP&M/DANAB07.DWG

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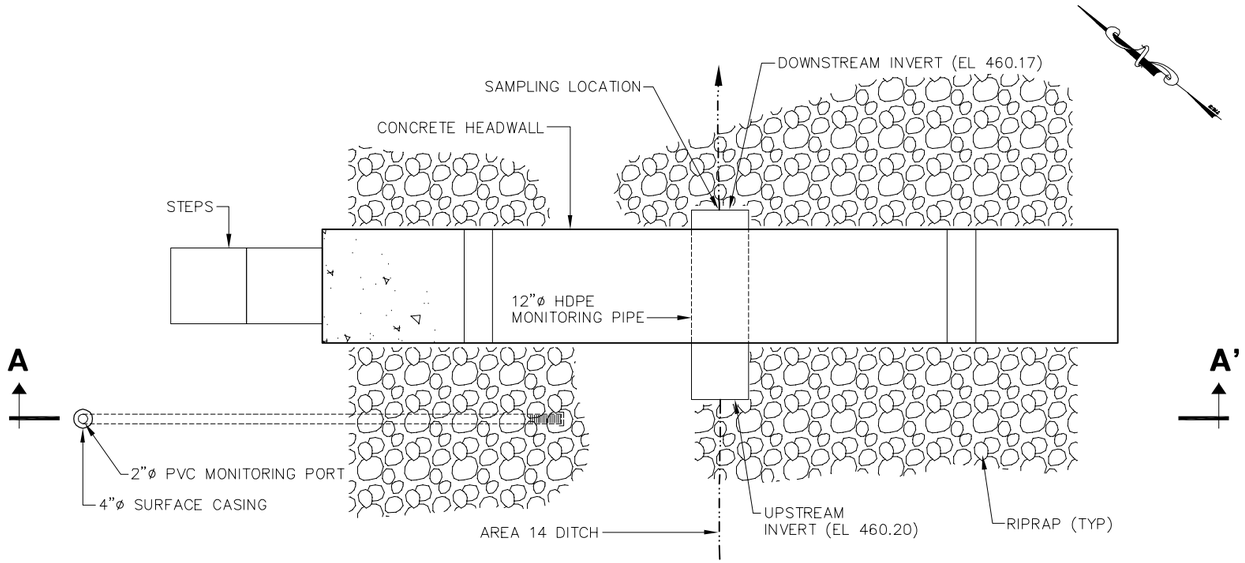
2200 BLEECKER STREET
UTICA, NEW YORK

SPDES OUTFALL 002 MANHOLE PLAN AND SECTION

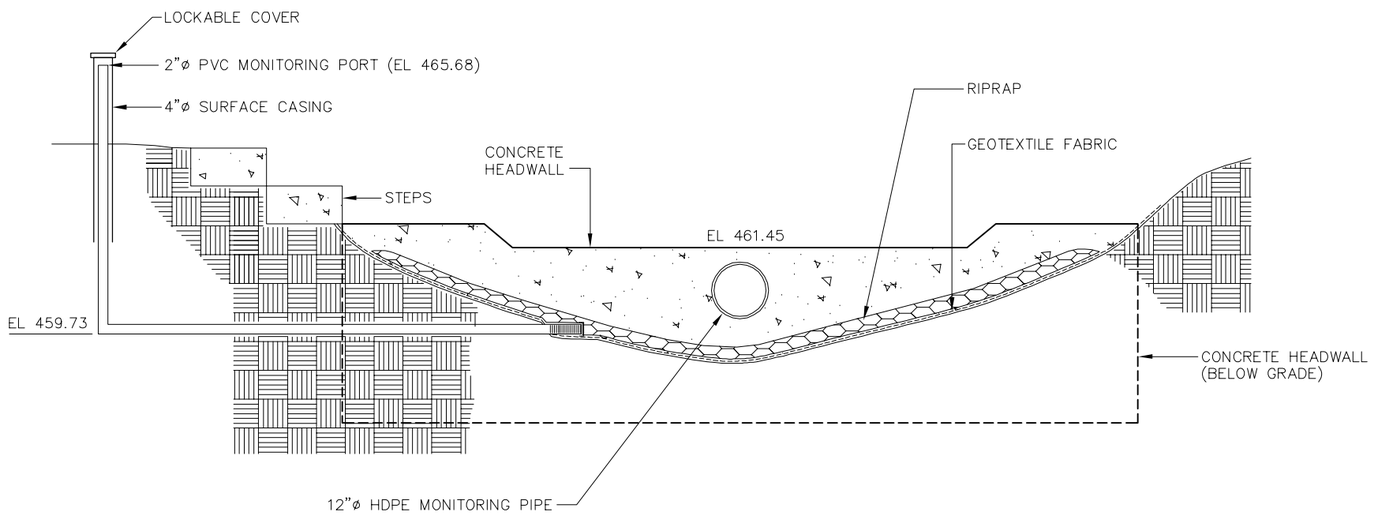
PROJECT NO.: DANA 01-04

DATE: MARCH 2009

FIGURE NO.: 5-2



PLAN



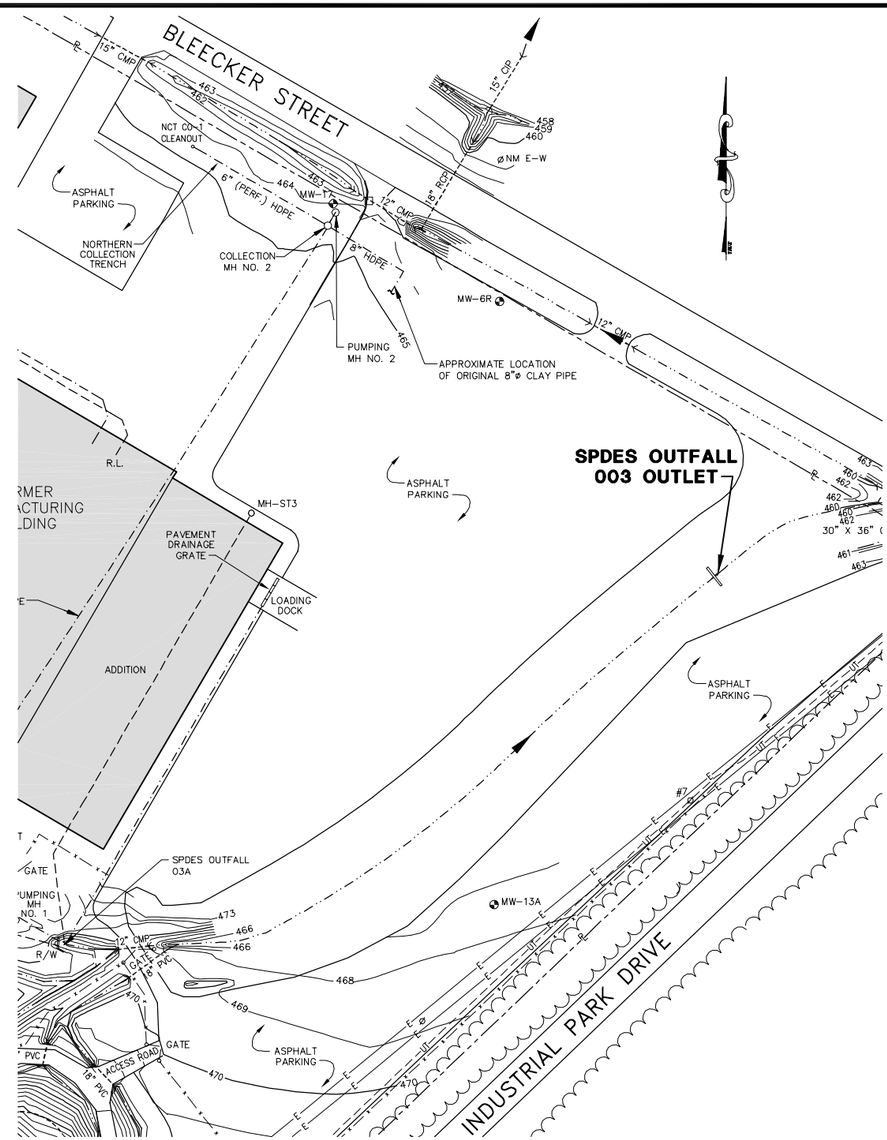
SECTION A-A'

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
2/12/09
SYNAPSE/WP/DANA 01-04/2008OP&M/DANAB08.DWG

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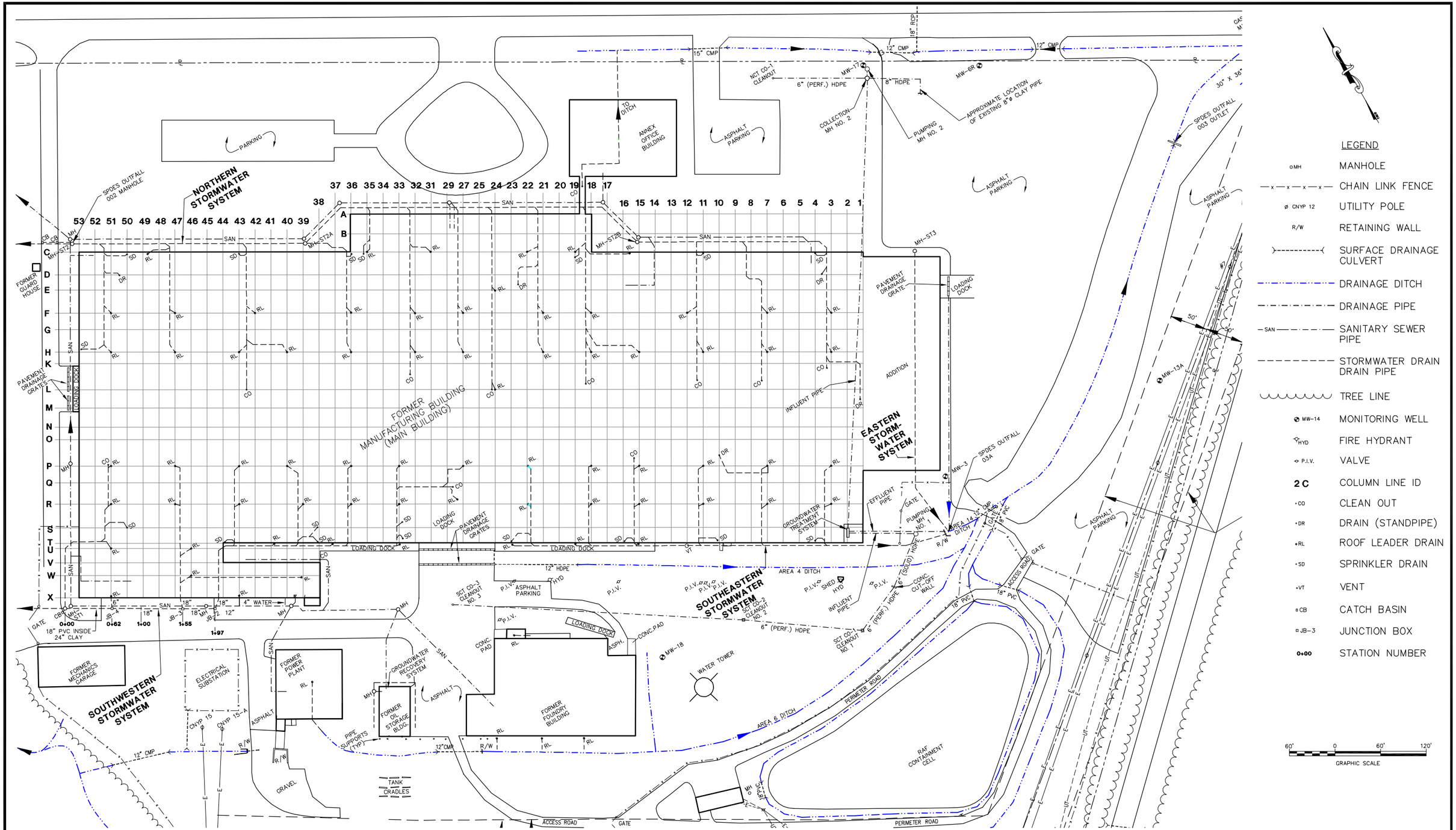
2200 BLEECKER STREET
UTICA, NEW YORK

SPDES OUTFALL 003
PLAN AND SECTION

PROJECT NO.: DANA 01-04
DATE: MARCH 2009
FIGURE NO.: **5-3**



X: CP-BASE
D2BBW
2/12/09
SYNAPSE/WP/DANA 01-04/2008OP&M/DANAB15.DWG

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2008 ANNUAL
OPERATION, MAINTENANCE, AND
MONITORING REPORT

2200 BLEECKER STREET
UTICA, NEW YORK

STORMWATER SYSTEM PARTIAL PLAN

PROJECT NO.: DANA 01-04
DATE: MARCH 2009
FIGURE NO.: 5-4

6.0 GROUNDWATER TREATMENT SYSTEM

Section 6.0 documents the operations, monitoring and maintenance (OM&M) of the groundwater treatment system (GTS), 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 in operation. As part of the selected Remedial Action (RA), the system was modified to collect and treat groundwater in 1999. System upgrades were completed in December 2006. Presently, the GTS consists of an air stripper unit located in the southeast corner of the Main Building, the northern collection trench (NCT), the southern collection trench (SCT), the piping system, an equalization tank, transfer pumps, a control system, and two pumping manholes designated Pumping Manhole No. 1 (MH-1) and Pumping Manhole No. 2 (MH-2). The Groundwater Treatment System Plan (Figure 6-1) provides the location of these components. AECOM (formerly ENSR Corporation), on behalf of CPTC, conducted the OM&M of the GTS from June 1, 2005 through September 30, 2008. Clough Harbor Associates (CHA), on behalf of CPTC, has been conducting OM&M of the GTS since October 1, 2008. The following sections have been structured to allow AECOM and CHA to provide certification to their respective sections, for which each had OM&M responsibilities during 2008.

6.1. SYSTEM CONSTRUCTION

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) and on the Treatment System As-Built Drawing (Figure 6-4). The low-profile air stripper treats influent groundwater pumped from MH-1 and MH-2. These manholes are 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 (downgradient) 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 groundwater. Groundwater is directed, via gravity feed, to the respective manholes where it is then pumped to the air stripper.

Each pumping manhole contains two submersible pumps, arranged in lead/lag mode, and five bulb type control switches. MH-1 is equipped with 3/4 horsepower (hp), 65 gallons per minute (gpm) pumps and MH-2 has 1/2 hp, 10 gpm pumps. 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 groundwater treatment system area via a double containment piping system in all piping below grade, and single wall piping above grade. The groundwater treatment system components are located within a 6-foot high chain link fence, which is equipped with a locked security gate.
After entering the treatment system area, groundwater flows first to a 2,500-gallon equalization tank, which provides uniform flow into the air stripper and allows solids to settle out prior to treatment. The equalization tank is equipped with four float switches, which monitor and trigger events for the system.

Two Goulds 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 them.

Groundwater is conveyed via the Goulds pumps from the equalization tank to two 50-micron bag filters on the effluent side of the pumps to capture smaller particles. The filter housing is a stainless steel construction, which is rated for a maximum pressure of 70 psi. The treatment system has a typical

operating range of 15 to 30 psi. When bag filter pressures exceed 35 psi, the air stripper feed pumps shut down and send an automated alarm call-out signaling that the bag filters need to be replaced before operation is able to resume. After passing through the 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 at flow rates between 6 gpm to 425 gpm. The control panel system was constructed by Northeast Environmental Systems.

All data is remotely accessible via the existing phone line using EOS data management systems. Once per day, the EOS system transmitted a record of the GTS operating conditions via facsimile to AECOM's East Syracuse, New York and Albany, New York offices. The data was reviewed to determine whether the system was 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 was generally conducted between once per week and several times per day. If the GTS was found to be in an alarm condition, an appropriate response was 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.

A FREIJE Electronic Descaling system was installed on a trial basis during the overall system upgrade that was completed in December 2006 in an effort to decrease the frequency of maintenance by reducing the amount of sediment build-up in the groundwater treatment system. In December 2007, the FREIJE system was shut down to evaluate its effectiveness. Based on the results of that testing, it was determined that the FREIJE system was not contributing significantly to the operation of the groundwater treatment system, and upon approval from the NYSDEC, the FREIJE system was removed in January 2008.

The operation and maintenance of the IRM GTS is not provided in the RA OM&M Manual. A separate O&M Manual, dated April 1995, was prepared by Blasland, Bouck and Lee (BBL) to address the GTS components.

6.2. OPERATION

6.2.1. January - September 2008, AECOM

The GTS is designed to operate continuously. The manhole and equalization tank pumps operate, as needed, to control water flow into the air stripper. Control bulbs normally activate pumps. If the pump systems fail to control the water level, an alarm is activated. If daily monitoring of the GTS status facsimile transmittals and/or real-time monitoring indicate that the GTS is in an alarm condition, an appropriate response is initiated. The inspection logs, included in Appendix J, provide documentation of weekly site visits, recorded alarm conditions, and modifications made to the system from January 1, 2008 through September 30, 2008. A summary of alarm conditions and maintenance from January 1, 2008 through September 30, 2008 are presented in the following table.

Alarm Conditions and Maintenance Summary
January 1, 2008 – September 30, 2008, AECOM

Date	Incident/Resolution
1/31/2008	Remove FREIJE system and change in-line strainers.
2/18/2008 – 2/20/2008	Air stripper cleaning completed. Bag filters changed several times following cleaning.
3/3/2008	MH-1, MH-2, EQ Tank High Level alarms caused system shut down; AECOM responded and pumped system down by hand, after which the system operated normally.
3/21/2008	MH-1, MH-2, EQ Tank High Level alarms caused system shut down; AECOM responded and pumped system down by hand and changed bag filters, after which the system operated normally.
5/12/2008	MH-2 High Level alarm on; MH-2 pump operation to be reviewed due to no flow.
5/19/2008	MH-2 High Level alarm on; MH-2 pump operation to be reviewed due to no flow.
5/29/2008	MH-2 pumped out. AECOM changed bag filters several times. Electrical junction box in MH-2 discovered to be waterlogged; work stopped per AECOM Health and Safety Manager. System shut down until an electrical subcontractor could repair the box at a later date. Pumps and floats removed from MH-2; debris discovered in impeller of one of the pumps, which may have contributed to failure. Both MH-2 pumps removed from site for cleaning, inspection and testing.
6/24/2008 – 6/27/2008	MH-2 and EQ Tank are emptied into a frac tank and cleaned. Electrical subcontractor performs repairs on wiring and replaces damaged MH-2 electrical junction box with a waterproof box, and inspects electrical systems in MH-1 and MH-2 for additional issues. Water is pumped from frac tank to EQ Tank for treatment by the system. New liquid level controls are also installed in MH-2. Sludge/solids remaining in frac tank are pumped out and drummed for analysis and disposal at a later date. AECOM pumped system down by hand and changed bag filters several times, after which the system operated normally.
7/2/2008	Bag Filter High Pressure alarm caused system shut down; AECOM responded and changed bag filters. In addition, MH-1 flow meter was cleaned due to not registering flow despite operation of pumps. Pumped system down by hand and changed bag filters again, after which the system operated normally.
7/7/2008	Bag Filter High Pressure alarm caused system shut down; AECOM changed bag filters. Pumped system down by hand and changed bag filters again, after which the system operated normally.
7/10/2008	AECOM shuts system down remotely after determining that EQ Tank pumps are not operating correctly (low flow rate) and will become damaged if left to operate as they were. Variable Frequency Drive (VFD) was possibly not operating properly as well. Troubleshooting of the system to take place on a later date.
8/7/2008	AECOM inspects EQ Tank and EQ Tank pumps for operational issues. Air released from EQ Tank pumps. VFD flow rate is adjusted to an appropriate value. Air stripper is inspected. AECOM pumped system down by hand, changed bag filters several times and ran through several cycles, after which the system operated normally.
8/13/2008	During remote monitoring of system, production of EQ Tank pumps decreases. AECOM responded and changed bag filters, adjusted VFD flow rate and modified the angle of the pipe within the EQ Tank so that air does not enter the treatment system. Pipe may have inadvertently been moved during EQ Tank cleaning activities in June 2008. AECOM pumped system down by hand and changed bag filters several times, after which the system operated normally.
8/29/2008	Bag Filter High Pressure alarm caused system shut down; AECOM responded and changed bag filters. In addition, MH-1 flow meter was cleaned due to not registering flow despite operation of pumps. Pumped system down by hand for several minutes; however, MH-1 pumps registered minimal flow, perhaps due to drier weather.

9/5/2008	MH-1, MH-2, EQ Tank High Level alarms caused system shut down; AECOM responded and pumped system down by hand, after which the system operated normally, although with low flow rates from both manholes.
9/25/2008	During weekly sampling event, AECOM opens MH-1 manhole cover; water level within MH-1 is low, which may have been the cause of reduced production. Changed bag filters.
10/1/2008	MH-1, MH-2, EQ Tank High Level alarms caused system shut down; AECOM responded and pumped system down by hand and changed bag filters several times, after which the system operated normally.
NOTES:	

The total volume of water pumped to the air stripper is measured by in-line flow meters that provide 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 6-1. Between January 1, 2008 and September 30, 2008, approximately 1,005,276 gallons of water were pumped, treated, and discharged to Outfall 03A. The 2008 Manhole Flow Summary (Table 6-1) 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 2008. Between January 1, 2008 and September 30, 2008, for MH-1, the recorded low, recorded average, and recorded high flow rates per monitoring event were 0 gallons per day (gpd), 3,434 gpd, and 9,504 gpd, respectively. For MH-2, during this period the recorded low, recorded average and recorded high flow rates per monitoring event were 0 gpd, 917 gpd, and 6,825 gpd, respectively. The GTS processed an average of 3,765 gpd during the 9-month period between January 1, 2008 and September 30, 2008.

Air stripper influent and effluent samples are collected and analyzed on a weekly basis for the required VOC parameters. Effluent analytical data is collected to satisfy the required conditions of Chicago Pneumatic's SPDES Permit (No. NY-0108537), and is discussed in Section 6.4.1. The January 1, 2008 through September 30, 2008 Influent and Effluent Analytical Summary (Table 6-2) 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 6-3, the January 1, 2008 through September 30, 2008 Air Stripper Flow Summary, provides weekly and monthly average flowrates measured during sampling events, and is inclusive of the flow to the stripper from MH-1 and MH-2.

The information presented in Table 6-2 and Table 6-3 was developed to assist in evaluating mass removal of VOCs by the GTS. Table 6-4, the January 1, 2008 through September 30, 2008 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 9-month period from January 1, 2008 to September 30, 2008. As indicated, the total average annual removal efficiency was 92.1%, resulting in the removal of approximately 5.0 pounds of VOCs during the first three quarters of 2008.

6.2.2. October – December 2008, CHA

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 control water flow into the air stripper. Control bulbs 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 J, provide documentation of weekly site visits, recorded alarm conditions, and modifications made to the system from October 1, 2008 through December 31, 2008. A summary of alarm conditions and maintenance from October 1, 2008 through December 31, 2008 are presented in the following table.

Alarm Conditions and Maintenance Summary

October 1, 2008 – December 31, 2008

Date	Incident/Resolution
10/24/2008	MH-1 and MH-2 High Alarms caused system shutdown; CHA responded and pumped manholes down manually and changed bag filters until system was operating normally.
11/04/2008	CHA on site to clean area and secure waste that was left by previous consultants.
11/12/2008	CHA on site with sub consultant Paragon Environmental. Paragon cleaned air stripper trays and system was operating normally by the end of the day.
11/25/2008	CHA on site to turn over 3 drums of non-hazardous bag filter waste to Clean Harbors waste disposal service.
12/04/2008	EQ Tank Low Level Alarm, and MH-1, MH-2 High Level Alarms caused system shutdown. CHA responded, pumped MH-1 and MH-2 by hand, operated system, and changed bag filters until system continued to operate normally.
NOTES:	

The total volume of water pumped to the air stripper is measured by in-line flow meters that provide 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 6-1. Between October 1, 2008 and December 31, 2008 approximately 588,012 gallons of water was pumped, treated, and discharged to Outfall 03A. The 2008 Manhole Flow Summary (Table 6-1), 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 2008. Between October 1, 2008 and December 31, 2008, for MH-1, the recorded low, recorded average, and recorded high flow rates per monitoring event are 38 gpd, 699 gpd, and 1,627 gpd, respectively. For MH-2, during this period the recorded low, recorded average and recorded high flow rates per monitoring event are 999 gpd, 5,473 gpd, and 8,043 gpd, respectively. The GTS processed an average of 6,128 gpd during the 3-month period between October 1, 2008 and December 31, 2008.

Air stripper influent and effluent samples are collected and analyzed for the required VOCs. Effluent analytical data is collected to satisfy required conditions of Chicago Pneumatics' SPDES Permit (No. NY-0108537), and is discussed in Section 6.4. The October 1, 2008 through December 31, 2008 Influent and Effluent Analytical Summary (Table 6-2) 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 6-3, the 2008 Air Stripper Flow Summary, provides weekly and monthly average flows measured during sampling events.

The information presented in Table 6-2 and Table 6-3 was developed to assist in evaluating mass removal of VOCs by the GTS. Table 6-4, the 2008 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 3-month period from October 1, 2008 to December 31, 2008. As indicated, the total average annual removal efficiency was 99.9%, resulting in the removal of approximately 0.6 pounds of VOCs between the dates October 1, 2008 and December 31, 2008.

6.3. MAINTENANCE AND TROUBLESHOOTING

6.3.1. January - September 2008, AECOM

The following scheduled and unscheduled maintenance events resulted in the temporary shutdown of the GTS between January 1, 2008 and September 30, 2008:

- As summarized in Section 6.2.1, several system shut-downs were recorded which resulted in the GTS being shut down for a relatively short amount of time (one to two days).

- May 29, 2008 through June 26, 2008: During an inspection of MH-2 on May 29, an electrical junction box within manhole MH-2 was discovered to be waterlogged. As a result, the GTS was shut down as an emergency health and safety precaution, and was restarted on June 26 following repair/replacement activities by an electrical contractor.

- July 10, 2008 through August 7, 2008: The GTS was shut down due to poor production by the Equalization Tank pumps. The Variable Frequency Drive (VFD) was adjusted on August 7 to the proper setting, the EQ Tank pumps were cleaned and the angle of the pipe within the Equalization Tank was adjusted (on August 13) to allow for better pumping of liquids from the Equalization Tank to the bag filters and air stripper.

6.3.2. October – December 2008, CHA

The following scheduled and unscheduled maintenance events resulted in the temporary shutdown of the GTS between October 1, 2008 and December 31, 2008:

- As summarized in Section 6.2, few system shut-downs were recorded which resulted in the GTS being shut down for a relatively short amount of time (one day maximum).
- November 12, 2008: GTS shut down for one day to complete cleaning.

6.4. SPDES OUTFALL 03A

6.4.1. January - September 2008, AECOM

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).

On behalf of Chicago Pneumatic, between January 1, 2008 and September 30, 2008, GTS samples were collected by AECOM personnel, placed in appropriately labeled laboratory glassware, packed on ice, and delivered or shipped via Federal Express to Life Science Laboratories, Inc. in East Syracuse, New York. These samples were collected from the SPDES Outfall 03A sampling port located in the effluent pipe prior to discharge to the eastern drainage ditch. Results from weekly sampling events conducted between January 1, 2008 and September 30, 2008 are provided in Table 6-5, the Summary of Outfall 03A Analytical Results. The analytical results were submitted by AECOM to the NYSDEC in the form of monthly discharge monitoring reports (DMRs). The nine (9) monthly DMRs AECOM prepared are presented in Appendix K. Between January 1, 2008 and September 30, 2008, there were two excursions of the SPDES Permit effluent limits. Per the Report of Noncompliance Event submitted with the January 2008 DMR (Appendix K), an excursion on January 31, 2008 may have been due to the transfer of encrusted scale from the sampling port to the sample container. An excursion on May 29, 2008 may have been due to bag filter breakthrough by iron sludge following the transfer of liquids from MH-2 to MH-1 during MH-2 cleaning and repair activities.

6.4.2. October – December 2008, CHA

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 October 1, 2008 and December 31, 2008, GTS samples were collected by CHA personnel, placed in appropriately labeled laboratory glassware, packed on ice, and delivered by the CHA sampling personnel to Life Sciences Laboratory in East Syracuse, New York. These samples are collected from the SPDES Outfall 03A sampling port located in the effluent pipe prior to discharge to the eastern drainage ditch. Results from weekly sampling events conducted between October 1, 2008 and December 31, 2008 are provided in Table 6-5, the Summary of Outfall 03A Analytical Results. The analytical results are submitted by CHA to the NYSDEC in the form of monthly DMRs. The 3 monthly DMRs are presented in Appendix K. Between October 1, 2008 and December 31, 2008, there were no excursions to the SPDES Permit effluent limits.

6.5. SECTION 6 – SUMMARY

6.5.1. January - September 2008, AECOM

The GTS has been in operation for over 10 years. Operation of the air stripper, pumps, and appurtenances has been consistent and continuous with only a few exceptions. System maintenance and emergency responses are summarized in Section 6.2.1; in general, emergency call outs were resolved quickly, and resulted in the GTS being shut down for only one to two days. However, longer shutdown periods also occurred in 2008. The GTS was shut down on May 29, 2008 as an emergency health and safety precaution due to the presence of water in an electrical junction box in MH-2, and was restarted on June 26, 2008. The GTS was also shut down between July 10, 2008 and August 7, 2008 due to poor production by the EQ Tank pumps. The treatment system flow totalizers, as recorded on inspection reports, indicate that approximately 1,005,276 gallons of water were pumped, treated, and released to Outfall 03A between January 1, 2008 and September 30, 2008, removing approximately 5.0 pounds of VOCs.

6.5.2. October – December 2008, CHA

The GTS has been in operation for over 10 years. Between October 1, 2008 and December 31, 2008 operation of the air stripper, pumps, and appurtenances has been consistent and continuous with only a few exceptions. System maintenance and emergency responses are summarized in Section 6.2; in general, emergency call outs were resolved quickly, and resulted in the GTS being shut down for one day maximum, for each event. The GTS was shut down on November 12, 2008 for system cleaning. The treatment system flow totalizers, as recorded on inspection reports, indicate that approximately 588,284 gallons of water was pumped, treated, and released to Outfall 03A between October 1, 2008 and December 31, 2008, removing approximately 0.6 pounds of VOCs.

6.6 Tables

6-1 Manhole Flow Summary

- January – September 2008, AECOM
- October – December 2008, CHA

6-2 Influent and Effluent Analytical Summary

- January – September 2008, AECOM
- October – December 2008, CHA

6-3 Air Stripper Flow Summary

- January – September 2008, AECOM
- October – December 2008, CHA

6-4 Air Stripper Mass Removal Summary

- January – September 2008, AECOM
- October – December 2008, CHA

6-5 Cumulative Summary of Outfall 03A Analytical Results

- January – September 2008, AECOM
- October – December 2008, CHA

TABLE 6-1
JANUARY 1, 2008 THROUGH SEPTEMBER 30, 2008 MANHOLE FLOW SUMMARY

2008 ANNUAL OM+M REPORT
2200 BLEECKER STREET, UTICA, NY
NYSDEC SITE NO. 622003

Monitoring Date	Flow Totalizer Reading		Flow per Monitoring Period (gpd)		
	MH-1	MH-2	MH-1	MH-2	Total
6/27/2008	1996328	352072	0	40	40
6/30/2008	1996328	352596	0	175	175
Average Monthly Flow			**0**	**52**	**52**

Monitoring Date	Flow Totalizer Reading		Flow per Monitoring Period (gpd)		
	MH-1	MH-2	MH-1	MH-2	Total
7/7/2008	2013433	356356	2444	537	2981
Average Monthly Flow			**2444**	**537**	**2981**

Monitoring Date	Flow Totalizer Reading		Flow per Monitoring Period (gpd)		
	MH-1	MH-2	MH-1	MH-2	Total
8/7/2008	2039733	358596	848	72	921
8/13/2008	2072463	361452	5455	476	5931
8/22/2008	2072463	422875	0	6825	6825
8/29/2008	2072463	455289	0	4631	4631
Average Monthly Flow			**1114**	**1867**	**2980**

Monitoring Date	Flow Totalizer Reading		Flow per Monitoring Period (gpd)		
	MH-1	MH-2	MH-1	MH-2	Total
9/5/2008	2074038	484533	225	4178	4403
9/12/2008	2075294	511470	179	3848	4028
9/18/2008	2077156	538957	310	4581	4892
9/25/2008	2078386	565950	176	3856	4032
Average Monthly Flow			**219**	**4099**	**4318**

Summary of Manhole Flow for January 1, 2008 through September 30, 2008		
Total Flow	**gal**	**gpd**
MH-1	**789,299**	**2956**
MH-2	**215,977**	**809**
Total Q1-Q3 2008 Flow:	**1,005,276**	**3765**

Notes:

Average monthly manhole flow is based on daily average

TABLE 6-1
JANUARY 1, 2008 THROUGH SEPTEMBER 30, 2008 MANHOLE FLOW SUMMARY

2008 ANNUAL OM+M REPORT
2200 BLEECKER STREET, UTICA, NY
NYSDEC SITE NO. 622003

Monitoring Date	Flow Totalizer Reading		Flow per Monitoring Period (gpd)		
	MH-1	MH-2	MH-1	MH-2	Total
1/9/2008	1332047	350096	6137	18	6155
1/16/2008	1382804	350227	7251	19	7270
1/23/2008	1410608	350273	3972	7	3979
1/31/2008	1431759	350293	2644	3	2646
Average Monthly Flow			**4920**	**11**	**4931**

Monitoring Date	Flow Totalizer Reading		Flow per Monitoring Period (gpd)		
	MH-1	MH-2	MH-1	MH-2	Total
2/7/2008	1480490	350341	6962	7	6968
2/14/2008	1523118	350388	6090	7	6096
2/20/2008	1548517	350417	4233	5	4238
2/29/2008	1582322	350465	3756	5	3761
Average Monthly Flow			**5192**	**6**	**5198**

Monitoring Date	Flow Totalizer Reading		Flow per Monitoring Period (gpd)		
	MH-1	MH-2	MH-1	MH-2	Total
3/4/2008	1594163	350487	2960	6	2966
3/12/2008	1670198	350605	9504	15	9519
3/19/2008	1707971	350662	5396	8	5404
3/26/2008	1754186	350728	6602	9	6612
Average Monthly Flow			**6610**	**10**	**6620**

Monitoring Date	Flow Totalizer Reading		Flow per Monitoring Period (gpd)		
	MH-1	MH-2	MH-1	MH-2	Total
4/2/2008	1797535	350794	6193	9	6202
4/10/2008	1839911	350858	5297	8	5305
4/14/2008	1861027	350889	5279	8	5287
4/24/2008	1896789	350919	3576	3	3579
4/28/2008	1908158	350919	2842	0	2842
Average Monthly Flow			**4666**	**6**	**4672**

Monitoring Date	Flow Totalizer Reading		Flow per Monitoring Period (gpd)		
	MH-1	MH-2	MH-1	MH-2	Total
5/6/2008	1939046	350920	3861	0	3861
5/12/2008	1957653	350920	3101	0	3101
5/19/2008	1974630	350920	2425	0	2425
5/29/2008	1996327	350920	2170	0	2170
Average Monthly Flow			**2844**	**0**	**2844**

TABLE 6-1
October 1, 2008 through December 31, 2008 Manhole Flow Summary

2008 ANNUAL OM+M REPORT
2200 BLEECKER STREET, UTICA, NY
NYSDEC SITE NO. 622003

Monitoring Date	Flow Totalizer Reading		Days between sampling events	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
10/1/2008	2062939	618454	6	38	999	1037
10/9/2008	2064841	659683	8	238	5154	5391
10/15/2008	2066492	686968	6	275	4548	4823
10/23/2008	2069535	726031	8	380	4883	5263
10/29/2008	2076466	763692	6	1155	6277	7432
Average Monthly Flow			**34**	**405**	**4448**	**4853**

Monitoring Date	Flow Totalizer Reading		Days between sampling events	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
11/4/2008	2081453	803147	6	831	6576	7407
11/12/2008	2084979	845321	8	441	5272	5713
11/19/2008	2089202	883681	7	603	5480	6083
11/25/2008	2091856	912899	6	442	4870	5312
Average Monthly Flow			**27**	**570**	**5526**	**6096**

Monitoring Date	Flow Totalizer Reading		Days between sampling events	Flow per Monitoring Period (gpd)		
	MH-1	MH-2		MH-1	MH-2	Total
12/3/2008	2097861	962356	8	751	6182	6933
12/10/2008	2103199	999540	7	763	5312	6075
12/17/2008	2111629	1044934	7	1204	6485	7689
12/23/2008	2117822	1084168	6	1032	6539	7571
12/30/2008	2129211	1140466	7	1627	8043	9670
Average Monthly Flow			**35**	**6502**	**6502**	**13004**

Notes:
Average monthly manhole flow is based on daily average

TABLE 6-2
JANUARY 1, 2008 THROUGH SEPTEMBER 30, 2008 INFLUENT AND EFFLUENT ANALYTICAL SUMMARY

2008 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		
1/9/2008	1.3	6.7	<1	<1	8	<20	410	<20	2200	2610	<1	<1	<1	1	1	
1/16/2008											<1	<1	<1	<1	0	
1/23/2008											<1	<1	<1	1	1	
1/31/2008											<1	8.1	<1	16	24.1	6.5
2/7/2008	4.1	10	<1	<1	14.1	<100	800	<100	3600	4400	<1	<1	<1	<1	0	
2/14/2008											<1	1.1	<1	1.1	2.2	
2/20/2008											<1	<1	<1	<1	0	
2/29/2008											<1	<1	<1	<1	0	0.6
3/4/2008	5.6	17	<1	<1	22.6	<100	1700	<100	5300	7000	<1	<1	<1	<1	0	
3/12/2008											<1	1.2	<1	2.1	3.3	
3/19/2008											<1	1.6	<1	3.5	5.1	
3/26/2008											<1	1.5	<1	1.8	3.3	2.9
4/2/2008	2.5	15	<1	<1	17.5	<50	1500	<50	5100	6600	<1	<1	<1	1.1	1.1	
4/10/2008											<1	1.8	<1	3	4.8	
4/14/2008											<1	3.5	<1	6.2	9.7	
4/24/2008											<1	<1	<1	<1	0	
4/28/2008											<1	<1	<1	<1	0	3.1
5/6/2008	<5	190	<5	540	730	N/A	N/A	N/A	N/A	0	<1	<1	<1	<1	0	
5/12/2008											<1	<1	<1	<1	0	
5/19/2008											<1	<1	<1	<1	0	
5/29/2008											<1	5.7	<1	11	16.7	4.2
6/27/2008	4.9	42	<1	66	112.9	<20	290	<20	1200	1490	<1	<1	<1	<1	0	
6/30/2008											<1	<1	<1	<1	0	0.0
7/7/2008	10	13	<1	13	36	<20	300	<20	1300	1600	<1	<1	<1	<1	0	0.0
8/7/2008	2.9	20	<1	8	30.9	<20	840	<20	3000	3840	<1	<1	<1	<1	0	
8/13/2008											<1	<1	<1	<1	0	
8/22/2008											<1	<1	<1	<1	0	
8/29/2008											<1	<1	<1	<1	0	0.0
9/5/2008	9.5	27	<1	2.5	39	<20	310	<20	890	1200	<1	<1	<1	<1	0	
9/12/2008											<1	<1	<1	<1	0	
9/18/2008											<1	<1	<1	<1	0	
9/25/2008											<1	<1	<1	<1	0	0.0

Notes:
1) All values reported in micrograms per liter (ug/L), approximately equivalent to parts per billion (ppb).
2) VOCs = Volatile Organic Compounds.

Table 6-2
OCTOBER 1, 2008 through DECEMBER 31, 2008 INFLUENT AND EFFLUENT ANALYTICAL SUMMARY

2008 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		
10/1/2008	10	24	<1	2.8	36.8	<10	230	<10	760	990	<1	<1	<1	<1	0	
10/9/2008											<1	<1	<1	<1	0	
10/15/2008											<1	<1	<1	<1	0	
10/23/2008											<1	6.8	<1	10	16.8	
10/29/2008											<1	<1	<1	<1	0	3.4
11/4/2008	25	30	<1	2.2	57.2	<2	230	<2	830	1060	<1	<1	<1	<1	0	
11/12/2008											<1	<1	<1	<1	0	
11/19/2008											<1	<1	<1	<1	0	
11/25/2008											<1	<1	<1	<1	0	0.0
12/3/2008	10	22	<1	1.2	33.2	<5	280	<5	1000	1280	<1	<1	<1	<1	0	
12/10/2008											<1	<1	<1	<1	0	
12/17/2008											<1	<1	<1	1.1	1.1	
12/23/2008											<1	<1	<1	<1	0	
12/30/2008											<1	<1	<1	<1	0	0.2

Notes:
1) All values reported in micrograms per liter (ug/L), approximately equivalent to parts per billion (ppb).
2) VOCs = Volatile Organic Compounds.
3) No exceedances of SPDES permit during this monitoring period.

TABLE 6-3
JANUARY 1, 2008 - SEPTEMBER 30, 2008 AIR STRIPPER FLOW SUMMARY

2008 ANNUAL OM&M REPORT
2200 BLEECKER STREET, UTICA, NEW YORK
NYSDEC SITE NO. 622003

Date	Average Flow During Monitoring Period (gpd)
1/9/2008	6155
1/16/2008	7270
1/23/2008	3979
1/31/2008	2646
Average Monthly Flow (gpd)	**4931**
2/7/2008	6968
2/14/2008	6096
2/20/2008	4238
2/29/2008	3761
Average Monthly Flow (gpd)	**5198**
3/4/2008	2966
3/12/2008	9519
3/19/2008	5404
3/26/2008	6612
Average Monthly Flow (gpd)	**6620**
4/2/2008	6202
4/10/2008	5305
4/14/2008	5287
4/24/2008	3579
4/28/2008	2842
Average Monthly Flow (gpd)	**4672**
5/6/2008	3861
5/12/2008	3101
5/19/2008	2425
5/29/2008	2170
Average Monthly Flow (gpd)	**2844**
6/27/2008	40
6/30/2008	175
Average Monthly Flow (gpd)	**52**
7/7/2008	2981
Average Monthly Flow (gpd)	**2981**
8/7/2008	921
8/13/2008	5931
8/22/2008	6825
8/29/2008	4631
Average Monthly Flow (gpd)	**2980**
9/5/2008	4403
9/12/2008	4028
9/18/2008	4892
9/25/2008	4032
Average Monthly Flow (gpd)	**4318**

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 6-3

October 1, 2008 through December 31, 2008

AIR STRIPPER FLOW SUMMARY

2008 ANNUAL OM&M REPORT

2200 BLEECKER STREET, UTICA, NEW YORK

NYSDEC SITE NO. 622003

Date	Average Flow During Monitoring Period (gpd)
10/1/2008	1037
10/9/2008	5391
10/15/2008	4823
10/23/2008	5263
10/29/2008	7432
Average Monthly Flow (gpd)	**684**
11/4/2008	7407
11/12/2008	5713
11/19/2008	6083
11/25/2008	5312
Average Monthly Flow (gpd)	**876**
12/3/2008	6933
12/10/2008	6075
12/17/2008	7689
12/23/2008	7571
12/30/2008	9670
Average Monthly Flow (gpd)	**1054**

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, 2008 - SEPTEMBER 30, 2008 AIR STRIPPER MASS REMOVAL SUMMARY

2008 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	14	6.53	7	53.4	4931	0.0
Feb	19	0.55	18	97.1	5198	0.0
Mar	33	2.93	30	91.1	6620	0.0
Apr	26	3.12	23	88.0	4672	0.0
May	730	4.18	726	99.4	2844	0.5
Jun	1489	0.00	1489	100.0	52	0.0
Jul	318	0.00	318	100.0	2981	0.1
Aug	2417	0.00	2417	100.0	2980	3.2
Sep	1141	0.00	1141	100.0	4318	1.1
			2008 Average (%)[6]:	**92.1**	2008 Total (lbs):	**5.0**

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) Life Science Laboratories detection limit equals 1.0 ug/L. Therefore, mass removal calculations are based on an estimated value of less than 1.0 ug/L, i.e. 0.99 ug/L.
6) 2008 Average of % VOCs removed value obtained by averaging monthly values

TABLE 6-4
October 1, 2008 - December 31, 2008 Air Stripper Mass Removal Summary

2008 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]
Oct	911	3.36	908	99.6	684	0.2
Nov	966	0.00	966	100.0	876	0.2
Dec	657	0.22	657	100.0	1054	0.2
		Three Month Average (%)[6]:		**99.9**	2008 Three Month Total (lbs):	**0.6**

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) Life Sciences Laboratories detection limit equals 1.0 ug/L. Therefore, mass removal calculations are based on an estimated value of less than 1.0 ug/L, i.e. 0.99 ug/L.
6) 2008 Average of % VOCs removed value obtained by averaging monthly values

TABLE 6-5
JANUARY 1, 2008 THROUGH SEPTEMBER 30, 2008 SUMMARY OF SPDES OUTFALL- 03A ANALYTICAL RESULTS

2008 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**		
1/9/2008	<1	<1	1	<1	6155	7.5
1/16/2008	<1	<1	<1	<1	7270	8.2
1/23/2008	<1	<1	1	<1	3979	8.3
1/31/2008	8.1	<1	16	<1	2646	8.2
2/7/2008	<1	<1	<1	<1	6968	8.2
2/14/2008	1.1	<1	1.1	<1	6096	8.2
2/20/2008	<1	<1	<1	<1	4238	8.2
2/29/2008	<1	<1	<1	<1	3761	8.3
3/4/2008	<1	<1	<1	<1	2966	8.2
3/12/2008	1.2	<1	2.1	<1	9519	8.2
3/19/2008	1.6	<1	3.5	<1	5404	8.15
3/26/2008	1.5	<1	1.8	<1	6612	8
4/2/2008	<1	<1	1.1	<1	6202	8.2
4/10/2008	1.8	<1	3	<1	5305	8.1
4/14/2008	3.5	<1	6.2	<1	5287	7.9
4/24/2008	<1	<1	<1	<1	3579	8
4/28/2008	<1	<1	<1	<1	2842	7.9
5/6/2008	<1	<1	<1	<1	3861	8.2
5/12/2008	<1	<1	<1	<1	3101	8
5/19/2008	<1	<1	<1	<1	2425	7.9
5/29/2008	5.7	<1	11	<1	2170	8.1
6/27/2008	<1	<1	<1	<1	40	7.9
6/30/2008	<1	<1	<1	<1	175	7.9
7/7/2008	<1	<1	<1	<1	2981	8.1

TABLE 6-5
JANUARY 1, 2008 THROUGH SEPTEMBER 30, 2008 SUMMARY OF SPDES OUTFALL- 03A ANALYTICAL RESULTS

2008 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**		
8/7/2008	<1	<1	<1	<1	921	7.5
8/13/2008	<1	<1	<1	<1	5931	8.1
8/22/2008	<1	<1	<1	<1	6825	8.1
8/29/2008	<1	<1	<1	<1	4631	8.1
9/5/2008	<1	<1	<1	<1	4403	7
9/12/2008	<1	<1	<1	<1	4028	7
9/18/2008	<1	<1	<1	<1	4892	6.5
9/25/2008	<1	<1	<1	<1	4032	6.3

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.

TABLE 6-5
October 1, 2008 through December 31, 2008 Summary of SPDES Outfall- 03A Analytical Results

2008 ANNUAL OM 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**		
10/1/2008	<1	<1	<1	<1	1037	7.9
10/9/2008	<1	<1	<1	<1	5391	8.22
10/15/2008	<1	<1	<1	<1	4823	8.1
10/23/2008	6.8	<1	10	<1	5263	8.1
10/29/2008	<1	<1	<1	<1	7432	8.3
11/4/2008	<1	<1	<1	<1	7407	7.4
11/12/2008	<1	<1	<1	<1	5713	7.6
11/19/2008	<1	<1	<1	<1	6083	7.5
11/25/2008	<1	<1	<1	<1	5312	8.1
12/3/2008	<1	<1	<1	<1	6933	8.3
12/10/2008	<1	<1	<1	<1	6075	8.1
12/17/2008	<1	<1	1.1	<1	7689	8.7
12/23/2008	<1	<1	<1	<1	7571	8.75
12/30/2008	<1	<1	<1	<1	9670	8.79

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
7) There were no permit exceedances at outfall 03A between October 1, 2008 and December 31, 2008

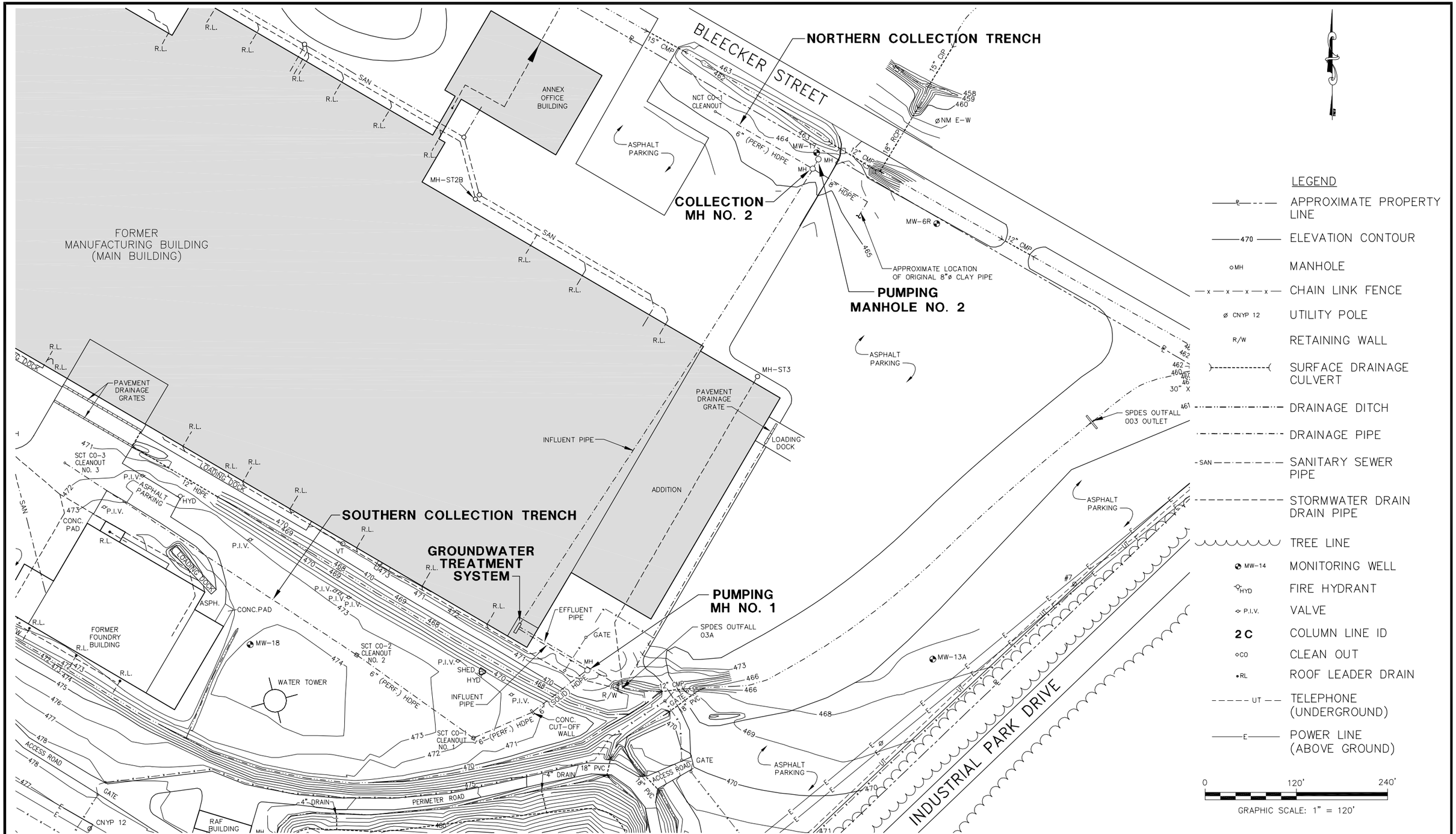
6.7 Figures

6-1 Groundwater Treatment System Plan

6-2 Air Stripper Plan

6-3 Pumping Manhole Plans and Sections

6-4 Treatment System Upgrade – As-Built Drawing



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
2/12/09
SYNAPSE/WP/DANA 01-04/2008OP&M/DANAB12.DWG

synapse

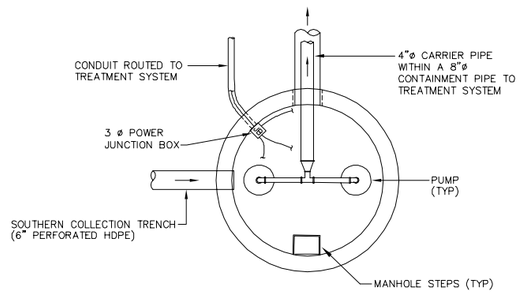
SYNAPSE RISK MANAGEMENT, LLC
HISTORIC BENNETT WAREHOUSE
325 EAST WATER STREET
SYRACUSE, NEW YORK 13202

2008 ANNUAL
OPERATION, MAINTENANCE, AND
MONITORING REPORT

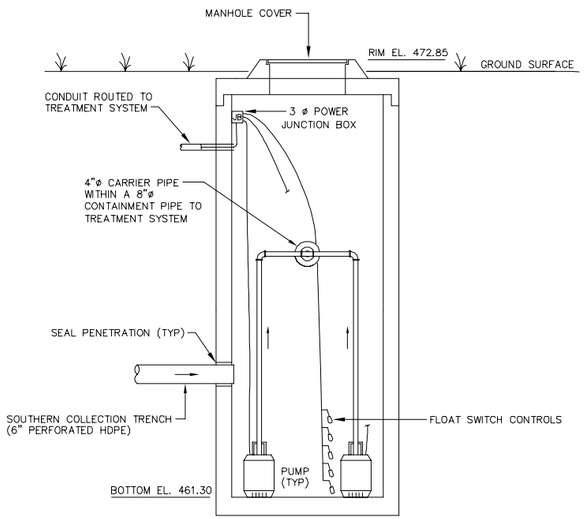
2200 BLEECKER STREET
UTICA, NEW YORK

GROUNDWATER TREATMENT SYSTEM PLAN

PROJECT NO.: DANA 01-04
DATE: MARCH 2009
FIGURE NO.: 6-1



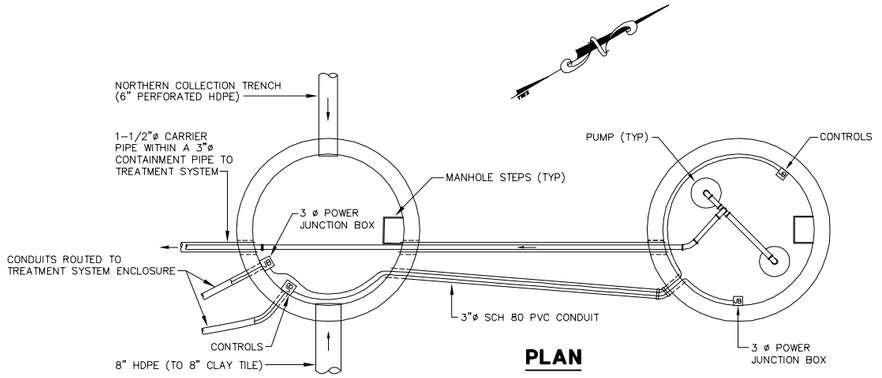
PLAN



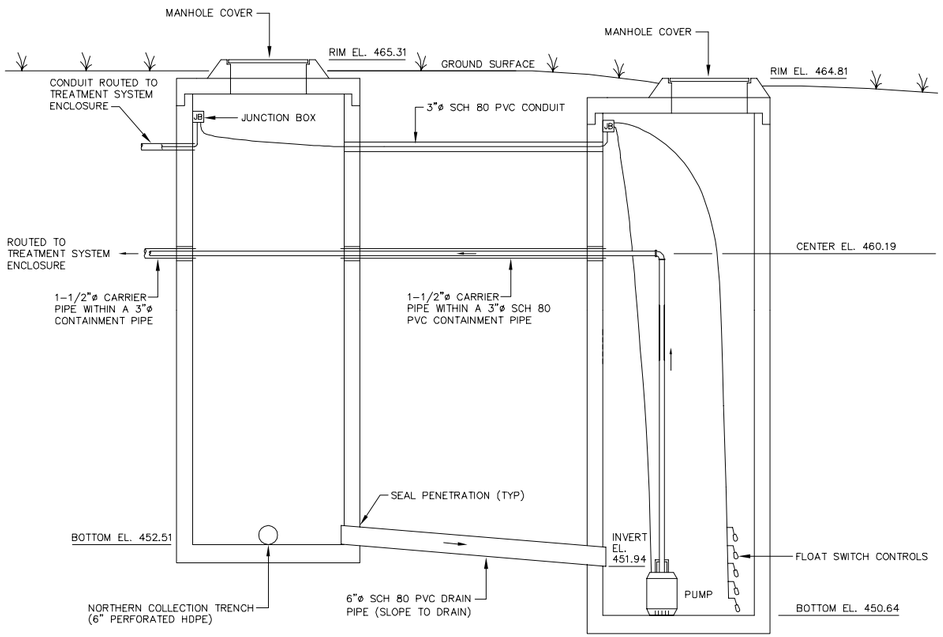
GENERAL SECTION

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
D2BBW
2/12/09
SYNAPSE/WP/DANA 01-04/2008OP&M/DANAB13.DWG

synapse

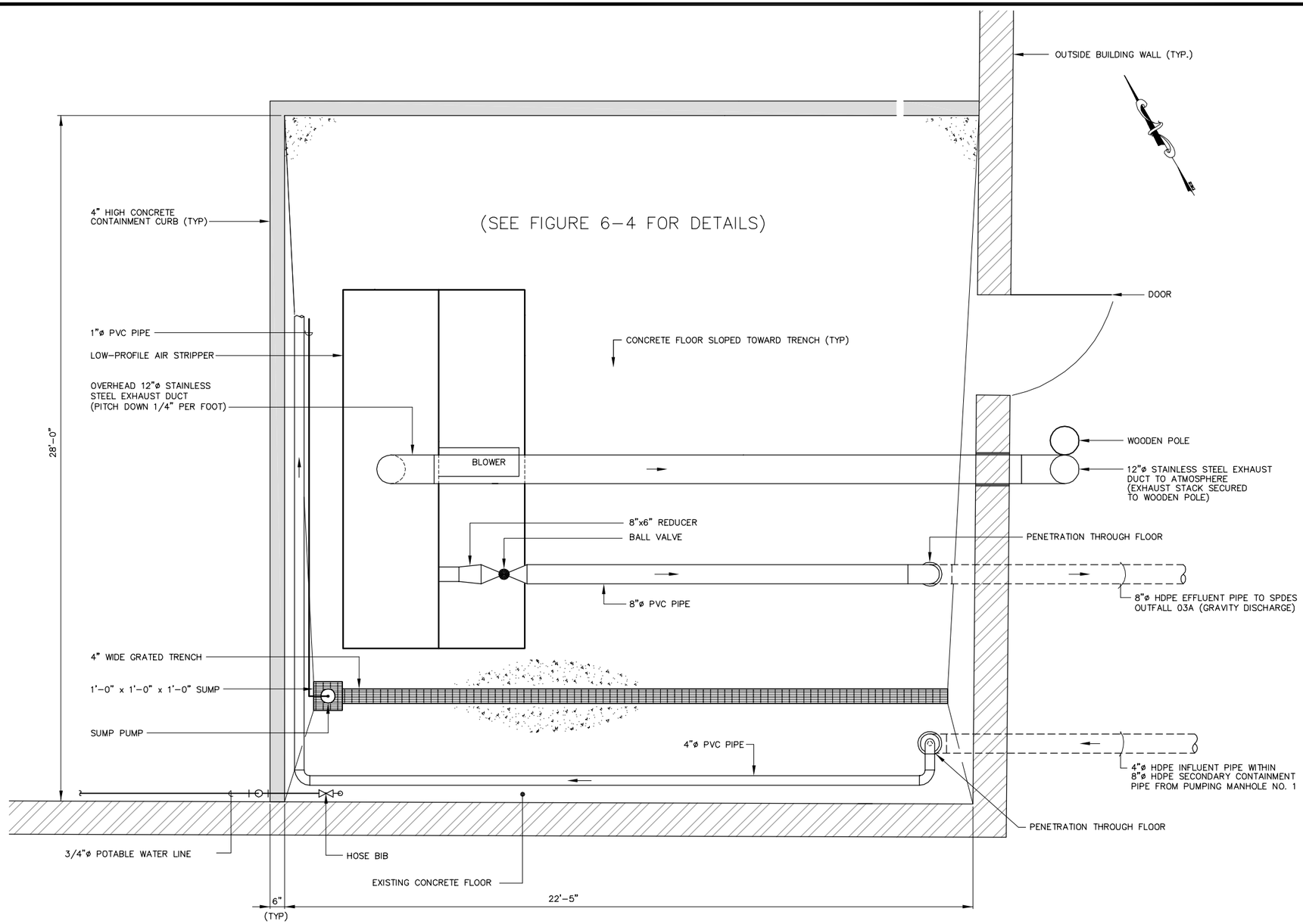
SYNAPSE RISK MANAGEMENT, LLC
HISTORIC BENNETT WAREHOUSE
325 EAST WATER STREET
SYRACUSE, NEW YORK 13202

2008 ANNUAL
OPERATION, MAINTENANCE, AND
MONITORING REPORT

2200 BLEECKER STREET
UTICA, NEW YORK

PUMPING MANHOLE PLANS AND SECTIONS

PROJECT NO.: DANA 01-04
DATE: MARCH 2009
FIGURE NO.: **6-3**



FLOOR PLAN

1/4" = 1'-0"

GRAPHIC SCALE

0 2' 4' 8'

1/4" = 1'-0"

X: CP-BASE
D2BBW
2/12/09
SYNAPSE/WP/DANA 01-04/2008OP&M/DANAB14.DWG

synapse

SYNAPSE RISK MANAGEMENT, LLC
HISTORIC BENNETT WAREHOUSE
325 EAST WATER STREET
SYRACUSE, NEW YORK 13202

2008 ANNUAL
OPERATION, MAINTENANCE, AND
MONITORING REPORT

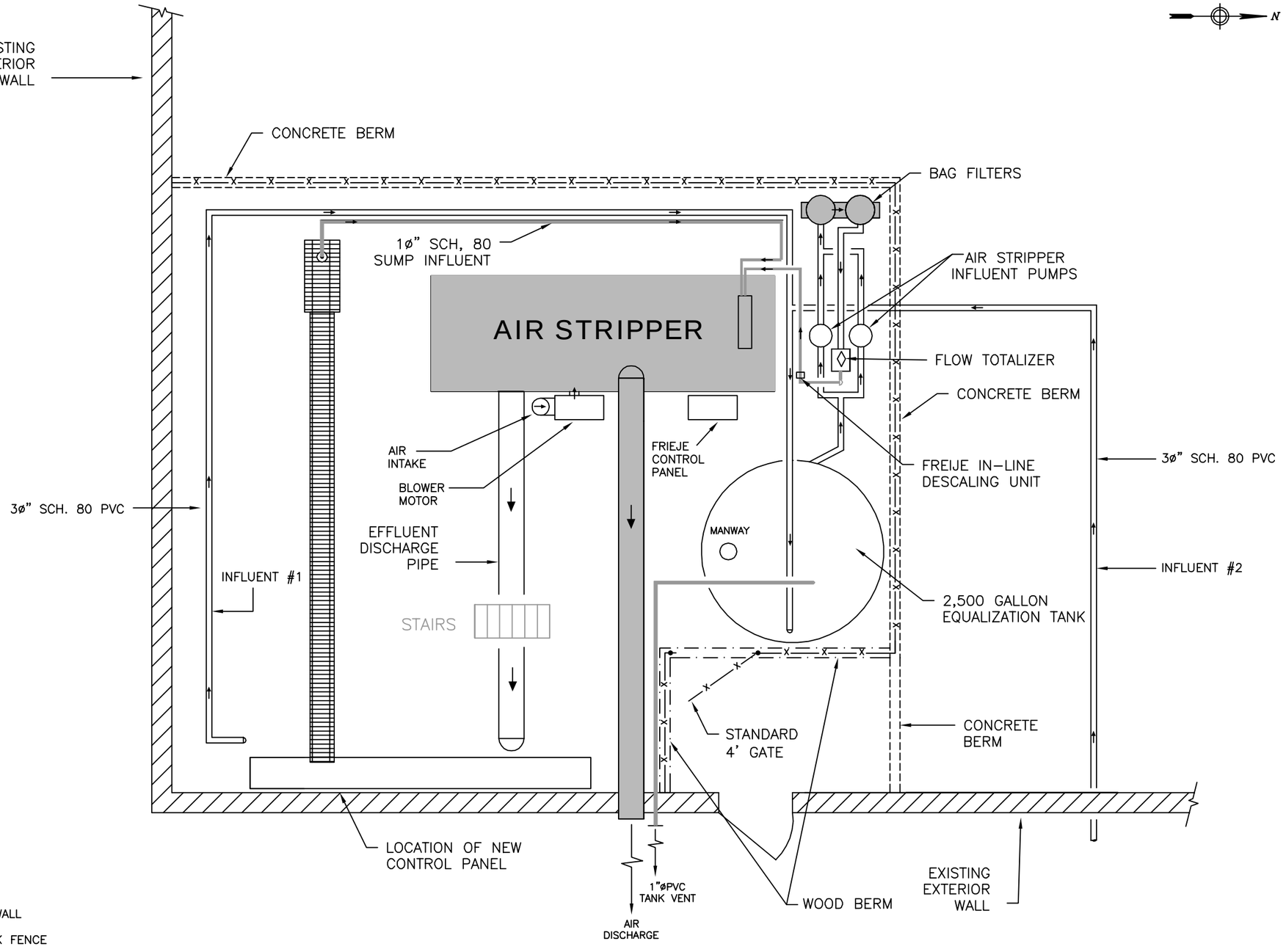
2200 BLEECKER STREET
UTICA, NEW YORK

AIR STRIPPER PLAN

PROJECT NO.: DANA 01-04

DATE: MARCH 2009

FIGURE NO.: 6-2



LEGEND

- EXISTING WALL
- CHAIN LINK FENCE
- CONCRETE BERM
- WOOD BERM

PLAN VIEW

NOT TO SCALE

REVISIONS			
NO.:	DESCRIPTION:	DATE:	BY:

DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:
DM	LLM/DM	DMS	LPM

ENSR CORPORATION
6601 KIRKVILLE ROAD
E. SYRACUSE, NEW YORK 13057
PHONE: (315) 432-0506
FAX: (315) 437-0509
WEB: HTTP://WWW.ENSR.AECOM.COM

TREATMENT SYSTEM AS-BUILT DRAWING
CHICAGO PNEUMATIC
UTICA, NEW YORK

PROJECT NUMBER:	DATE:	SCALE:
10783-014	3/18/08	NTS

FIGURE NUMBER: 6-4

SHEET NUMBER: 1 OF 1

J:\LANSTAND\120\Projects\10783 Chicago Pneumatic Utica\2007 Synapse Annual Report\FIGURE\SYSTEM AS-BUILT.dwg

APPENDIX A
SITE INSPECTION REPORTS – FORM A & FORM A1

2008 ANNUAL OPERATION, MAINTENANCE AND MONITORING REPORT

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

APRIL 2009

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: 1/14/08

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	SAA	✓
C	Culverts	SAA	✓
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 ___ Internal not inspected	✓
B	Pumps and Plumbing	Pump 1 Hours 128.5 Pump 2 Hours 215.0	✓
B'	Pump Changeover	(Y or N) Lead Pump 1 Lag Pump 2	✓
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: 1/14/08

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 = 671 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: 2/21/08

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		✓
B	Ditches		✓
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)		✓
4 Leachate Collection Manhole			
A	Structure	External___ Internal___	✓
B	Pumps and Plumbing	Pump 1 Hours 128.5 Pump 2 Hours 215.0	✓
B'	Pump Changeover	(Y or N) Lead Pump 1 Lag Pump 2	✓
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: 2/21/08

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 = 6800 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:

Leachate Manhole = 4.4°C = Temp
8.14 = pH

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: S. Matthews Date: 3.18.08

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access		✓
B	General Property Drainage	SPDES Outfall (001 ✓ 002 ✓ 003 ✓) HTW 001 & 002	✓
2 Cell Perimeter Components			
A	Perimeter and Access Roads		✓
B	Ditches		✓
C	Culverts		✓
D	Perimeter Fence	Gates ✓	✓
E	Utilities	Elec. ✓ Phone ✓ Phone has loud hum	✓
3 Containment Cell			
A	Surface Cover System	Burrows None Vegetation None	✓
B	Gas Vents (2)		✓
B'	PID Readings NA	(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 128.5 Pump 2 Hours 215.1	✓
B'	Pump Changeover	(Y or N) Lead Pump 1 Lag Pump 2	✓
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: S. Matthews Date: 3-18-08

Category	Inspected	Observation/Condition	√
5 Building			
A	Structure	Lock √, Vent √, Heater √	√
B	Electrical and Telephone	Elec √ Phone √ Phone has loud hum	√
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 = 68300 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: 4/18/08

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)	No Flow	✓
4 Leachate Collection Manhole			
A	Structure	External___ Internal___	✓
B	Pumps and Plumbing	Pump 1 Hours 178.6 Pump 2 Hours 215.1	✓
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: 4/18/08

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 = 685 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: PMF + RRC Date: 5-13-08

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		✓
B	Ditches	DRY	✓
C	Culverts	DRY	✓
D	Perimeter Fence	Gates ✓	✓
E	Utilities	Elec. ✓ Phone ✓	✓
3 Containment Cell			
A	Surface Cover System	Burrows 4 SMOKED Vegetation GOOD	✓
B	Gas Vents (2)		✓
B'	PID Readings	(Y or N) Background ___ ppm, @ 20' ___ ppm, @ Vent ___ ppm	✓
C	Collection Pipe / Cleanout		✓
D	Perimeter Drains (4)	OPEN	✓
4 Leachate Collection Manhole			
A	Structure	External ✓ Internal ✓	✓
B	Pumps and Plumbing	Pump 1 Hours 128.6 Pump 2 Hours 215.1	✓
B'	Pump Changeover	(Y or N) Lead Pump 1 Lag Pump 2	✓
B"	Test Automatic Pump Controls	LSHH____, LSH ____, LSL ____, LSLL ____ NO	✓
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: PMF + RRC Date: 5-13-08

Category		Inspected	Observation/Condition	√
5	**Building**			
A	Structure		Lock √, Vent OPEN 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)	✓
A'	Flow Totalizer		Reading = 68700 gal.	✓
B	Secondary Containment		Liquid (Y or N)	✓
C	Piping Components		REMOVED INSULATION & VIEW FLOW METER	✓
D	Electrical Components		Lock √ Light Bulbs	✓
E	Leachate Sampling		(Y or N) (see Form C)	✓

Additional Comments:
- OP-TECH ON SITE TO REVIEW PROPOSED 03B OUTFALL
- TOOK PHOTOS OF MANHOLE

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: 6/23/08

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	Need to be Mowed	✓
B	Ditches	GOOD	✓
C	Culverts	GOOD	✓
D	Perimeter Fence	Gates ✓	✓
E	Utilities	Elec. ✓ Phone ✓	✓
3 Containment Cell			
A	Surface Cover System	Burrows ____ Vegetation ✓ GOOD 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)	MOW	✓
4 Leachate Collection Manhole			
A	Structure	External ✓ Internal ✓	✓
B	Pumps and Plumbing	Pump 1 Hours 128.8 Pump 2 Hours 215.1	✓
B'	Pump Changeover	(Y or (N)) Lead Pump 1 Lag Pump 2	✓
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: 6/23/08

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 = 690 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:

Contact Evergreen lawn regarding the Containment cell — Mowing

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: 7/23/08

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	Needs to be Mowed	✓
B	Ditches	Good	✓
C	Culverts	Good	✓
D	Perimeter Fence	Gates ✓	✓
E	Utilities	Elec. ✓ Phone ✓	✓
3 Containment Cell			
A	Surface Cover System	Burrows 1 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 128.9 Pump 2 Hours 218.2	✓
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 Need replacement	✓
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: 7/23/08

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 = 692.00 gal.	✓
B	Secondary Containment		Liquid (Y or (N))	✓
C	Piping Components			✓
D	Electrical Components		Lock ✓ Light Bulbs good	✓
E	Leachate Sampling		(Y or (N)) (see Form C)	✓

Additional Comments:

Containment cell needs mowing — Contact Evergreen

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: RCC / PME Date: 8-6-08

Category		Inspected	Observation/Condition	✓
1	**General Property**			
	A	General Property Access		✓
	B	General Property Drainage	SPDES Outfall (001 ✓ 002 ✓ 003 ✓) SAMPLE	✓
2	**Cell Perimeter Components**			
	A	Perimeter and Access Roads	SOME VEGETATION	✓
	B	Ditches	VEGETATED	✓
	C	Culverts	OPEN	✓
	D	Perimeter Fence	Gates ___	✓
	E	Utilities	Elec. ✓ Phone ✓ STATIC	✓
3	**Containment Cell**			
	A	Surface Cover System	Burrows 4 Vegetation GOOD	✓
	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 129.0 Pump 2 Hours 215.1	✓
	B'	Pump Changeover	(Y or N) Lead Pump 1 Lag Pump 2	✓
	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: RCC/PMF Date: 8-6-08

Category		Inspected	Observation/Condition	✓
5	**Building**			
	A	Structure	Lock ✓, Vent OPEN, Heater OFF	✓
	B	Electrical and Telephone	Elec ✓ Phone ✓ — STATIC	✓
	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 = 6944 00 gal.	✓
	B	Secondary Containment	Liquid (Y or N)	✓
	C	Piping Components	INSULATION OFF TOTALIZE FOR VIEWING	✓
	D	Electrical Components	Lock ✓ Light Bulbs ____	✓
	E	Leachate Sampling	(Y or N) (see Form C)	✓

Additional Comments:

INCIDENTAL INSPECTION REPORT (FORM A - 1)
OPERATION, MAINTENANCE AND MONITORING

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

Synapse Representative: RCC / PMF Date: 8-6-08

Category	Inspected	Observation/Condition	✓
1 Inspection Overview			
A	Reason for Inspection	RAF ✓ GW ____ SPDES ____	✓
B	Regulatory Inspection	DER ____ DOW ____	✓
C	Photos Taken	35mm ____ Digital ✓	✓
2 Groundwater Monitoring Wells			
A	Condition	MW-6R ✓, MW-13A ✓, MW-14 ___, MW-17 ✓, MW-18 ___	✓
B	Water Levels	(Y or N) (see Form C)	✓
C	Groundwater Sampling	(Y or N) (see Form D)	✓
3 Collection Trenches NO			
A	MH-1	DTW ____ Total: 11.55	
B	MH-2C (Collection)	DTW ____ Total: 12.80	
C	MH-2P (Pumping)	DTW ____ Total: 14.17	
4 Air Stripper NO			
A	MH-1 - Flow Totalizer	Reading = 0 gal. Rate: ____ gpm	
B	MH-2 - Flow Totalizer	Reading = 0 gal. Rate: ____ gpm	
C	Sump - Flow Totalizer	Reading = 0 gal. Rate: ____ gpm	
D	Blower Hours	Reading = ____ Hours.	

Additional Comments: AIR STRIPPER - BLOWER RUNNING / NOT RUNNING

Contacts:

Synapse Syracuse Office	**475.3700**	**NYSDEC, DOW, Richard Coriale**	**793.2796**
RAF	**733.6230**	**Evergreen, Tom Gehig (cell)**	**725.3200**
Coolidge Equities, Jessie Bailey	**866.7403**	**Dodge Graphics, Don Zimbler**	**735.9226**
Coolidge Maintenance, Charles Dovi	**534.3490 (cell)**	**Deiorio's, Richard Viti**	**724.2401**
NYSDEC, DER, Phil Waite	**785.2605**		
ENSR – Luke McKenney	**315.432.0506**		

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: 9/15/08

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 2 Vegetation Good	
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 138.1 Pump 2 Hours 215.1	
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: 9/15/08

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 = 69600 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: 10/1/08

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		
C	Culverts		
D	Perimeter Fence	Gates ✓	
E	Utilities	Elec. ✓ Phone ✓	
3 Containment Cell			
A	Surface Cover System	Burrows 1 Vegetation Good	
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 129.4 Pump 2 Hours 215.1	
B'	Pump Changeover	(Y or (N)) Lead Pump 1 Lag Pump 2	
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: 10/1/08

Category		Inspected	Observation/Condition	✓
5	**Building**			
A	Structure		Lock ✓, Vent ✓, Heater ✓ Heat 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))	
A'	Flow Totalizer		Reading = 696 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:
Tank Belly Heaters on Temp below 35°F

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: 11/25/08

Category	Inspected	Observation/Condition	✓
1 General Property			
A	General Property Access	GOOD	✓
B	General Property Drainage	SPDES Outfall (001 ✓ 002 ✓ 003 ✓) GOOD	✓
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___ Not Inspected	✓
B	Pumps and Plumbing	Pump 1 Hours 127.8 Pump 2 Hours 215.1	✓
B'	Pump Changeover	(Y or (N)) Lead Pump 1 Lag Pump 2	✓
B"	Test Automatic Pump Controls	LSHH_____, LSH ____, LSL ____, LSLL _____	✓
C	Electrical Components	Test Pumps (Y or (N)), Light Bulbs_____	✓
D	Manhole Interstitial Space	Not Inspected	✓
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: 11/25/08

Category		Inspected	Observation/Condition	✓
5	**Building**			
	A	Structure	Lock ✓, Vent ✓, Heater ✓ Heat 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))	✓
	A'	Flow Totalizer	Reading = 699 00 gal.	✓
	B	Secondary Containment	Liquid (Y or N)	✓
	C	Piping Components		✓
	D	Electrical Components	Lock ✓ Light Bulbs ✓ Changed Bulb	✓
	E	Leachate Sampling	(Y or (N)) (see Form C)	✓

Additional Comments: Turned off the electrical Heater

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: 12/24/08

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	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 Inspected	
D	Perimeter Drains (4)	Snow Covered	
4 Leachate Collection Manhole			
A	Structure	External___ Internal___ Not Inspected	
B	Pumps and Plumbing	Pump 1 Hours 129.9 Pump 2 Hours 25.1	
B'	Pump Changeover	(Y or (N)) Lead Pump 129.9 Lag Pump 215.1	
B"	Test Automatic Pump Controls	LSHH_____, LSH ____, LSL ____, LSLL _____	
C	Electrical Components	Test Pumps (Y or (N)), Light Bulbs_____	
D	Manhole Interstitial Space	Not Inspected	
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: 12/24/08

Category		Inspected	Observation/Condition	✓
5	**Building**			
A	Structure		Lock ✓, Vent ✓, Heater ✓ Heat 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))	✓
A'	Flow Totalizer		Reading = 70200 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: Snow Removal Issues

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

2008 ANNUAL OPERATION, MAINTENANCE AND MONITORING REPORT

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

APRIL 2009

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: Rec/PMF

Received Alarm: Y or (N)

Tested Alarm: (Y) or N

Date Received: _____

Date Tested: 8-6-09

Time Received: _____

Channel No.	Function	Alarm Rec'd	Testing Results
1	Tank Level (@ 80%)		Measured: 64 3/4 Reading: 64.20
2	Tank High Level (100%)		- OK
3	Tank Leak		- OK
4	Tank 90% Full		Not Tested
5	High Manhole Level		- OK
6	Manhole Leak		- OK
7	Pipe Leak		Not Tested
8	Tank Low Temperature		Not Tested
9	Inside Temperature		76° F
10	Outside Temperature		84° F
11-15	Not In Use		—
16	Power Off		- No - Possible Dead Battery

Reason for Alarm: —

Action Taken: —

Comments: Some Channels Not Tested As The System Is Schedule To Be Changed Within The Up Coming Months

synapse

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: R. Creighton

Tested Alarm: Y or N

Date Tested: _____

Received Alarm (Y) or N

Date Received: 12/22/08

Time Received: 11:20 AM

Channel No.	Function	Alarm Rec'd	Testing Results
1	Tank Level (@ 80%)	✓	Measured:_____ Reading:_____
2	Tank High Level (100%)		
3	Tank Leak		
4	Tank 90% Full		
5	High Manhole Level		
6	Manhole Leak		
7	Pipe Leak		
8	Tank Low Temperature		
9	Inside Temperature		
10	Outside Temperature		
11-15	Not In Use		
16	Power Off		

Reason for Alarm: TANK Level 80%

Action Taken: Entered "555" Code via Telephone.

Comments: "555" Acknowledgement Code failed via telephone. Logged into ISACC via Computer and disabled the call out function on Alarm. Alarm will be verified During Bi-weekly SPDES Sampling.

synapse

APPENDIX C
LEACHATE DISPOSAL CORRESPONDENCE AND ANALYTICAL DATA

2008 ANNUAL OPERATION, MAINTENANCE AND MONITORING REPORT

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

APRIL 2009

APPENDIX D
WATER LEVEL FIELD LOGS - FORM D

2008 ANNUAL OPERATION, MAINTENANCE AND MONITORING REPORT

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

APRIL 2009

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: 4/29/08

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	3.60	461.87	6.91		
MW-13A	10.92	10.91	469.23	2.41	466.82	8.50		
MW-14	13.00	12.99	478.37	2.95	475.50	10.04		
MW-17	11.25	11.25	466.02	11.24	454.78	0.01		
MW-18	11.73	11.70	475.96	5.12	470.84	6.58		
SCT CO-1	NA	NA	472.30	DRY	465.20	NA		
SCT CO-2	NA	NA	473.42	7.72	465.70	NA		
SCT CO-3	NA	NA	471.21	DRY	465.61	NA		
NCT CO-1	NA	NA	464.70	DRY	453.42	NA		
MH-2 (Collection)	12.80	NA	465.31	11.94	453.37	NA		

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:

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: 10/14/08

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	10.50	465.47	4.49	461.87	6.01		
MW-13A	10.92	11.07	469.23	4.25	466.82	6.82		
MW-14	13.00	12.80	478.37	5.43	475.50	7.37		
MW-17	11.25	11.25	466.02	11.25	DRY	0.0		
MW-18	11.73	11.73	475.96	6.32	470.84	5.41		
SCT CO-1	NA	NA	472.30	DRY	465.20	NA		
SCT CO-2	NA	NA	473.42	7.71	465.71	NA		
SCT CO-3	NA	NA	471.21	DRY	465.61	NA		
NCT CO-1	NA	NA	464.70	DRY	453.42	NA		
MH-2 (Collection)	12.80	12.80	465.31	11.96	453.35	NA		

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:

APPENDIX E
GROUNDWATER SAMPLING LOGS – FORM E

2008 ANNUAL OPERATION, MAINTENANCE AND MONITORING REPORT

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

APRIL 2009

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: 4/29/08 Well Number: MW-6R

AIR MONITORING

PID Model: — Background: — ppm At Well — ppm

WELL PURGING

Purge Volume

TD = Total Depth of Well (from Form C)

Dedicated

WL = Water Level Depth (from Form C)

VOL = Number of Well Volumes to Be Purged (3-9)

Purge Method

Bailer Type: Reusable _____ (Disposable)

Actual Volume Generated

_____ Gallons

Purge Volume Calculation: (*for 2" diameter well*) (10.51 *TD (ft.)* - 3.60 *WL (ft.)*) x .163 *Vol/ft.* x 3 *#VOLS* = 3.4 *Purge Vol.* Gallons *(Vol/ft = 0.163 for 2" OD)*

FIELD PARAMETER MEASUREMENT

Time	Vol. No.	Temp (°C)	Conductivity (mS/cm)	Water Depth (ft.)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	pH (NA)	Observations
13:10	1	12.3	0.684	4.26	12.1	1000	6.68	Orange Color
13:20	2	11.9	0.682	6.84	6.1	1000	6.59	Orange Color
13:30	3	12.5	0.631	7.61	2.4	1000	6.49	

WELL SAMPLING

Sample ID: MW-6R (MS/MSD) **Receiving Lab (Chain of Custody)**: LSL

General Notes: High turbidity, potential Iron bacteria

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: 4/29/08 Well Number: MW-13A

AIR MONITORING

PID Model: — Background: — ppm At Well — ppm

WELL PURGING

Purge Volume

TD = Total Depth of Well (from Form C)

Dedicated

WL = Water Level Depth (from Form C)

VOL = Number of Well Volumes to Be Purged (3-9)

Purge Method

Bailer Type: Reusable _____ (Disposable)

Actual Volume Generated

_____ Gallons

Purge Volume Calculation: (10.91 - 2.41) x .163 x 3 = 4.2 Gallons

(for 2" diameter well) *TD (ft.)* *WL (ft.)* *Vol/ft.* *#VOLS* *Purge Vol.* *(Vol/ft = 0.163 for 2" OD)*

FIELD PARAMETER MEASUREMENT

Time	Vol. No.	Temp (°C)	Conductivity (mS/cm)	Water Depth (ft.)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	pH (NA)	Observations
11:50	1	13.1	0.564	2.41	8.76	50	6.35	
12:00	2	11.8	0.561	3.68	9.55	230	6.55	
12:08	3	10.9	0.589	5.16	9.95	699	6.72	

WELL SAMPLING

Sample ID: MW-13A **Receiving Lab (Chain of Custody)**: LSL

General Notes:

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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: 4/29/08 Well Number: MW-18

AIR MONITORING

PID Model: — Background: — ppm At Well — ppm

WELL PURGING

Purge Volume

TD = Total Depth of Well (from Form C)

Dedicated

WL = Water Level Depth (from Form C)

VOL = Number of Well Volumes to Be Purged (3-9)

Purge Method

Bailer Type: Reusable _____ Disposable

Actual Volume Generated

3 Gallons

Purge Volume Calculation: *(for 2" diameter well)* (11.70 *TD (ft.)* - 5.12 *WL (ft.)*) x .163 *Vol/ft.* x 3 *#VOLS* = 3.2 *Purge Vol.* Gallons *(Vol/ft = 0.163 for 2" OD)*

FIELD PARAMETER MEASUREMENT

Time	Vol. No.	Temp (°C)	Conductivity (mS/cm)	Water Depth (ft.)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	pH (NA)	Observations
14:00	1	8.2	0.712	5.12	11.88	65	6.78	
14:15	2	7.6	0.728	6.60	12.10	121	6.76	
1420	3	7.2	0.713	7.45	12.31	485	6.74	

WELL SAMPLING

Sample ID: MW-18 (Dup) **Receiving Lab (Chain of Custody)**: LSL

General Notes:

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: 4/29/08 Well Number: MW-14

AIR MONITORING

PID Model: — Background: — ppm At Well — ppm

WELL PURGING

Purge Volume

TD = Total Depth of Well (from Form C)

Dedicated

WL = Water Level Depth (from Form C)

VOL = Number of Well Volumes to Be Purged (3-9)

Purge Method

Bailer Type: Reusable _____ (Disposable)

Actual Volume Generated

3.5 Gallons

Purge Volume Calculation: (for 2" diameter well) (12.99 (TD ft.) - 2.95 (WL ft.)) x .163 (Vol/ft.) x 3 (#VOLS) = 4.9 (Purge Vol.) Gallons (Vol/ft = 0.163 for 2" OD)

FIELD PARAMETER MEASUREMENT

Time	Vol. No.	Temp (°C)	Conductivity (mS/cm)	Water Depth (ft.)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	pH (NA)	Observations
11:03	1	8.2	0.427	3.42	10.49	41	5.76	
11:12	2	7.1	0.327	4.61	11.32	193	5.90	
DRY								

WELL SAMPLING

Sample ID: MW-14 **Receiving Lab (Chain of Custody)**: LSL

General Notes: DRY after 2.5 gallons

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: 10/14/08 Well Number: MW-6R

AIR MONITORING

PID Model: ~~—~~ Background: ~~—~~ ppm At Well ~~—~~ ppm

WELL PURGING

Purge Volume

TD = Total Depth of Well (from Form C)

Dedicated

WL = Water Level Depth (from Form C)

VOL = Number of Well Volumes to Be Purged (3-9)

Purge Method

Bailer Type: Reusable _____ Disposable

Actual Volume Generated

3 Gallons

Purge Volume Calculation: *(for 2" diameter well)*

(10.50 *TD (ft.)* - 4.49 *WL (ft.)*) x .163 *Vol/ft.* x 3 *#VOLS* = 2.9 *Purge Vol.* Gallons *(Vol/ft = 0.163 for 2" OD)*

FIELD PARAMETER MEASUREMENT

Time	Vol. No.	Temp (°C)	Conductivity (mS/cm)	Water Depth (ft.)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	pH (NA)	Observations
13:10	1	18.1	0.553	4.49	10.77	800	7.60	
13:16	2	18.1	0.586	6.20	10.74	71000	7.72	
13:22	3	17.9	0.562	7.16	10.45	71000	7.65	

WELL SAMPLING

Sample ID: MW-6R (MS/MSD) **Receiving Lab (Chain of Custody)**: LSL

General Notes:

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: 10/14/08 Well Number: MW-13A

AIR MONITORING

PID Model: ~ Background: ~ ppm At Well ~ ppm

WELL PURGING

Purge Volume

TD = Total Depth of Well (from Form C)

Dedicated

WL = Water Level Depth (from Form C)

VOL = Number of Well Volumes to Be Purged (3-9)

Purge Method

Bailer Type: Reusable _____ (Disposable)

Actual Volume Generated

3 Gallons

Purge Volume Calculation: (11.07 - 4.25) x .163 x 3 = 3.3 Gallons

(for 2" diameter well) *TD (ft.)* *WL (ft.)* *Vol/ft.* *#VOLS* *Purge Vol.* *(Vol/ft = 0.163 for 2" OD)*

FIELD PARAMETER MEASUREMENT

Time	Vol. No.	Temp (°C)	Conductivity (mS/cm)	Water Depth (ft.)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	pH (NA)	Observations
12:05	1	18.2	0.515	4.25	11.07	38	7.51	
12:16	2	18.2	0.521	5.61	11.08	111	7.87	
12:24	3	18.2	0.516	6.24	10.99	185	7.65	

WELL SAMPLING

Sample ID: MW-13A **Receiving Lab (Chain of Custody)**: LSL

General Notes:

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: 10/14/08 Well Number: MW-14

AIR MONITORING

PID Model: — Background: — ppm At Well — ppm

WELL PURGING

Purge Volume

TD = Total Depth of Well (from Form C)

Dedicated

WL = Water Level Depth (from Form C)

VOL = Number of Well Volumes to Be Purged (3-9)

Purge Method

Bailer Type: Reusable _____ (Disposable)

Actual Volume Generated

3 Gallons

Purge Volume Calculation: (for 2" diameter well)

(13.80 - 5.43) x .163 x 3 = 3.6 Gallons

TD (ft.) - WL (ft.) x Vol/ft. x #VOLS = Purge Vol. (Vol/ft = 0.163 for 2" OD)

FIELD PARAMETER MEASUREMENT

Time	Vol. No.	Temp (°C)	Conductivity (mS/cm)	Water Depth (ft.)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	pH (NA)	Observations
11:30	1	17.1	0.346	5.43	12.12	135	8.49	
11:40	2	14.1	0.366	6.26	13.70	200	7.11	
11:49	3	15.2	0.359	7.12	13.90	115	7.49	

WELL SAMPLING

Sample ID: MW-14 **Receiving Lab (Chain of Custody)**: LSL

General Notes:

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: 10/14/08 Well Number: MW-18

AIR MONITORING

PID Model: — Background: — ppm At Well — ppm

WELL PURGING

Purge Volume

TD = Total Depth of Well (from Form C)

Dedicated

WL = Water Level Depth (from Form C)

VOL = Number of Well Volumes to Be Purged (3-9)

Purge Method

Bailer Type: Reusable _____ (Disposable)

Actual Volume Generated

2.5 Gallons

Purge Volume Calculation: (for 2" diameter well)

(11.73 TD (ft.) - 6.32 WL (ft.)) x .163 Vol/ft. x 3 #VOLS = 2.65 Gallons Purge Vol. (Vol/ft = 0.163 for 2" OD)

FIELD PARAMETER MEASUREMENT

Time	Vol. No.	Temp (°C)	Conductivity (mS/cm)	Water Depth (ft.)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	pH (NA)	Observations
13:55	1	15.0	0.671	6.32	12.56	226	7.22	
14:06	2	14.6	0.675	7.62	12.51	250	7.18	
14:16	3	14.5	0.675	8.16	12.39	151	7.35	

WELL SAMPLING

Sample ID: MW-18 (Dup-1) **Receiving Lab (Chain of Custody)**: LSL

General Notes:

APPENDIX F
GROUNDWATER ANALYTICAL DATA

2008 ANNUAL OPERATION, MAINTENANCE AND MONITORING REPORT

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

APRIL 2009

Roger Creighton
Synapse Risk Management, LLC
325 East Water Street
Syracuse, NY 13202

Phone: (315) 475-3700
FAX: (315) 475-3780
Authorization: PO #DANA 01-07 T02

Laboratory Analysis Report

For

Synapse Risk Management, LLC

Client Project ID:

SPDES / 2200 Bleecker St., Utica, NY

LSL Project ID: **0818774**

Receive Date/Time: 10/14/08 14:58

Project Received by: GS

Life Science Laboratories, Inc.

(1) LSL Central Lab, East Syracuse, NY	(315) 445-1105	NYS DOH ELAP #10248 PA DEP #68-2556
(2) LSL North Lab, Waddington, NY	(315) 388-4476	NYS DOH ELAP #10900
(3) LSL Finger Lakes Lab, Wayland, NY	(585) 728-3320	NYS DOH ELAP #11667
(4) LSL Southern Tier Lab, Cuba, NY	(585) 968-2640	NYS DOH ELAP #10760
(5) LSL MidLakes Lab, Canandaigua, NY	(585) 396-0270	NYS DOH ELAP #11369
(6) LSL Brittonfield Lab, East Syracuse, NY	(315) 437-0200	NYS DOH ELAP #10155

This report was reviewed by: Beverly Crescenzi, QA *Date:* 10/27/08

Life Science Laboratories, Inc.

A copy of this report was sent to:

Date Printed: 10/27/08

- - LABORATORY ANALYSIS REPORT - -

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-6R **LSL Sample ID:** 0818774-001

Location:

Sampled: 10/14/08 13:20 **Sampled By:** RC

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	<1	ug/l		10/17/08	BD
trans-1,2-Dichloroethene	<1	ug/l		10/17/08	BD
Trichloroethene	<1	ug/l		10/17/08	BD
Vinyl chloride	<1	ug/l		10/17/08	BD
Surrogate (1,2-DCA-d4)	104	%R		10/17/08	BD
Surrogate (Tol-d8)	95	%R		10/17/08	BD
Surrogate (4-BFB)	100	%R		10/17/08	BD
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1221	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1232	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1242	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1248	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1254	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1260	<0.1	ug/l	10/15/08	10/18/08	KIW
Surrogate (DCB)	121	%R	10/15/08	10/18/08	KIW

Sample ID: MW-13A **LSL Sample ID:** 0818774-002

Location:

Sampled: 10/14/08 12:30 **Sampled By:** RC

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	<1	ug/l		10/17/08	BD
trans-1,2-Dichloroethene	<1	ug/l		10/17/08	BD
Trichloroethene	<1	ug/l		10/17/08	BD
Vinyl chloride	<1	ug/l		10/17/08	BD
Surrogate (1,2-DCA-d4)	104	%R		10/17/08	BD
Surrogate (Tol-d8)	94	%R		10/17/08	BD
Surrogate (4-BFB)	97	%R		10/17/08	BD
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1221	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1232	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1242	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1248	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1254	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1260	<0.1	ug/l	10/15/08	10/18/08	KIW
Surrogate (DCB)	105	%R	10/15/08	10/18/08	KIW

- - LABORATORY ANALYSIS REPORT - -

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-14 **LSL Sample ID:** 0818774-003

Location:

Sampled: 10/14/08 11:50 **Sampled By:** RC

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	<1	ug/l		10/17/08	BD
trans-1,2-Dichloroethene	<1	ug/l		10/17/08	BD
Trichloroethene	<1	ug/l		10/17/08	BD
Vinyl chloride	<1	ug/l		10/17/08	BD
Surrogate (1,2-DCA-d4)	104	%R		10/17/08	BD
Surrogate (Tol-d8)	94	%R		10/17/08	BD
Surrogate (4-BFB)	98	%R		10/17/08	BD
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1221	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1232	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1242	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1248	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1254	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1260	<0.1	ug/l	10/15/08	10/18/08	KIW
Surrogate (DCB)	100	%R	10/15/08	10/18/08	KIW

Sample ID: MW-18 **LSL Sample ID:** 0818774-004

Location:

Sampled: 10/14/08 14:10 **Sampled By:** RC

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	<1	ug/l		10/17/08	BD
trans-1,2-Dichloroethene	<1	ug/l		10/17/08	BD
Trichloroethene	<1	ug/l		10/17/08	BD
Vinyl chloride	34	ug/l		10/17/08	BD
Surrogate (1,2-DCA-d4)	108	%R		10/17/08	BD
Surrogate (Tol-d8)	95	%R		10/17/08	BD
Surrogate (4-BFB)	97	%R		10/17/08	BD
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1221	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1232	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1242	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1248	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1254	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1260	<0.1	ug/l	10/15/08	10/18/08	KIW
Surrogate (DCB)	103	%R	10/15/08	10/18/08	KIW

Life Science Laboratories, Inc.

Date Printed: 10/27/08

Analysis performed at: *(1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield*

- - LABORATORY ANALYSIS REPORT - -

Synapse Risk Management, LLC Syracuse, NY

Sample ID: 101408-DUP-1 **LSL Sample ID:** 0818774-005

Location:

Sampled: 10/14/08 0:00 **Sampled By:** RC

Sample Matrix: QC, NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	<1	ug/l		10/17/08	BD
trans-1,2-Dichloroethene	<1	ug/l		10/17/08	BD
Trichloroethene	<1	ug/l		10/17/08	BD
Vinyl chloride	31	ug/l		10/17/08	BD
Surrogate (1,2-DCA-d4)	108	%R		10/17/08	BD
Surrogate (Tol-d8)	94	%R		10/17/08	BD
Surrogate (4-BFB)	96	%R		10/17/08	BD
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1221	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1232	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1242	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1248	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1254	<0.1	ug/l	10/15/08	10/18/08	KIW
Aroclor-1260	<0.1	ug/l	10/15/08	10/18/08	KIW
Surrogate (DCB)	107	%R	10/15/08	10/18/08	KIW

Sample ID: MW-6R (Matrix Spike) **LSL Sample ID:** 0818774-006

Location:

Sampled: 10/14/08 13:20 **Sampled By:** RC

Sample Matrix: QC, NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	91	%R		10/17/08	BD
trans-1,2-Dichloroethene	95	%R		10/17/08	BD
Trichloroethene	89	%R		10/17/08	BD
Vinyl chloride	111	%R		10/17/08	BD
Surrogate (1,2-DCA-d4)	98	%R		10/17/08	BD
Surrogate (Tol-d8)	93	%R		10/17/08	BD
Surrogate (4-BFB)	95	%R		10/17/08	BD
(1) EPA 8082 PCB's					
Aroclor-1016			10/15/08	10/18/08	KIW
Aroclor-1221			10/15/08	10/18/08	KIW
Aroclor-1232			10/15/08	10/18/08	KIW
Aroclor-1242			10/15/08	10/18/08	KIW
Aroclor-1248	104	%R	10/15/08	10/18/08	KIW
Aroclor-1254			10/15/08	10/18/08	KIW
Aroclor-1260			10/15/08	10/18/08	KIW
Surrogate (DCB)	123	%R	10/15/08	10/18/08	KIW

- - LABORATORY ANALYSIS REPORT - -

Synapse Risk Management, LLC *Syracuse, NY*

Sample ID: MW-6R (Matrix Spike Duplicate) **LSL Sample ID:** 0818774-007

Location:

Sampled: 10/14/08 13:20 **Sampled By:** RC

Sample Matrix: QC, NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	1	RPD		10/17/08	BD
trans-1,2-Dichloroethene	1	RPD		10/17/08	BD
Trichloroethene	2	RPD		10/17/08	BD
Vinyl chloride	2	RPD		10/17/08	BD
Surrogate (1,2-DCA-d4)	99	%R		10/17/08	BD
Surrogate (Tol-d8)	94	%R		10/17/08	BD
Surrogate (4-BFB)	97	%R		10/17/08	BD
(1) EPA 8082 PCB's					
Aroclor-1016			10/15/08	10/18/08	KIW
Aroclor-1221			10/15/08	10/18/08	KIW
Aroclor-1232			10/15/08	10/18/08	KIW
Aroclor-1242			10/15/08	10/18/08	KIW
Aroclor-1248	4	RPD	10/15/08	10/18/08	KIW
Aroclor-1254			10/15/08	10/18/08	KIW
Aroclor-1260			10/15/08	10/18/08	KIW
Surrogate (DCB)	97	%R	10/15/08	10/18/08	KIW

Sample ID: Trip Blank **LSL Sample ID:** 0818774-008

Location:

Sampled: 10/14/08 0:00 **Sampled By:**

Sample Matrix: TB

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8021B Volatiles(Partial List)by 8260					
cis-1,2-Dichloroethene	<1	ug/l		10/17/08	BD
trans-1,2-Dichloroethene	<1	ug/l		10/17/08	BD
Trichloroethene	<1	ug/l		10/17/08	BD
Vinyl chloride	<1	ug/l		10/17/08	BD
Surrogate (1,2-DCA-d4)	106	%R		10/17/08	BD
Surrogate (Tol-d8)	96	%R		10/17/08	BD
Surrogate (4-BFB)	99	%R		10/17/08	BD

LSL

SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS

Method	Surrogate(s)	Water Limits, %R	SHW Limits, %R
EPA 504	TCMX	80-120	NA
EPA 508	DCB	70-130	NA
EPA 515.4	DCAA	70-130	NA
EPA 524.2	1,2-DCA-d4, 4-BFB	80-120	NA
EPA 525.2	1,3-DM-2-NB, TPP, Per-d12	70-130	NA
EPA 526	1,3-DM-2-NB, TPP	70-130	NA
EPA 528	2-CP-3,4,5,6-d4, 2,4,6-TBP	70-130	NA
EPA 551.1	Decafluorobiphenyl	80-120	NA
EPA 552.2	2,3-DBPA	70-130	NA
EPA 601	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 602	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 608	TCMX, DCB	30-150	NA
EPA 624	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 625, AE	2-Fluorophenol	21-110	NA
EPA 625, AE	Phenol-d5	10-110	NA
EPA 625, AE	2,4,6-Tribromophenol	10-123	NA
EPA 625, BN	Nitrobenzene-d5	35-114	NA
EPA 625, BN	2-Fluorobiphenyl	43-116	NA
EPA 625, BN	Terphenyl-d14	33-141	NA
EPA 8010	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8020	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8021	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8081	TCMX, DCB	30-150	30-150
EPA 8082	DCB	30-150	30-150
EPA 8151	DCAA	30-130	30-120
EPA 8260	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8270, AE	2-Fluorophenol	21-110	25-121
EPA 8270, AE	Phenol-d5	10-110	24-113
EPA 8270, AE	2,4,6-Tribromophenol	10-123	19-122
EPA 8270, BN	Nitrobenzene-d5	35-114	23-120
EPA 8270, BN	2-Fluorobiphenyl	43-116	30-115
EPA 8270, BN	Terphenyl-d14	33-141	18-137
DOH 310-13	Terphenyl-d14	40-110	40-110
DOH 310-14	Terphenyl-d14	40-110	40-110
DOH 310-15	Terphenyl-d14	40-110	40-110
DOH 310-34	4-BFB	50-150	50-150
DOH 313-4	DCB	NA	30-150
8015M_GRO	4-BFB	50-150	50-150
8015M_DRO	Terphenyl-d14	50-150	50-150

Units Key:	ug/l = microgram per liter ug/kg = microgram per kilogram mg/l = milligram per liter mg/kg = milligram per kilogram %R = Percent Recovery

Life Science Laboratories, Inc.
CHAIN OF CUSTODY RECORD

LSL Central Lab.
5854 Butternut Drive
E. Syracuse, NY 13057
Phone: 315-445-1105
Fax: 315-445-1301

LSL North Lab.
131 St. Lawrence Ave.
Waddington, NY 13694
Phone: 315-388-4476
Fax: 315-388-4061

LSL Finger Lakes Lab.
16 N. Main St., PO Box 424
Wayland, NY 14572
Phone: 585-728-3320
Fax: 585-728-2711

LSL Southern Tier
30 East Main St.
Cuba, NY 14727
Phone: 585-968-2
Fax: 585-968-2

0818774

SynapseRiskManage

Turnaround Time

Normal	Pre-Authorized			
14 DAY [X]	Next Day* [ ]	3-Day * [ ]	*Additional Charges may apply
	2-Day * [ ]	7-Day* [ ]	

Report Address:

Name: Roger Creighton
Company: Synapse
Street: Historic Bennett Warehouse 325 East Water Street
City/State: Syracuse, NY Zip: 13202
Phone: 475-3700 Fax: 475-3780
Email: rcreighton@synapseriskmanagement.com

Date Needed or Special Instructions:

Authorization or P.O. # DANA 01-07 T02

Client Project ID/Client Site ID SPDES / 2200 Bleecker St, Utica, NY

LSL Project Number:

Client's Sample Identifications	Sample Date	Sample Time	Type grab/comp	Matrix	Preserv. Added	Containers #	Containers size/type	Analyses	Preserv Check	LSL ID#
MW-6R	10/14/08	13:20	Grab	W	HCl	2	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		001 AB
MW-6R		13:20	Grab	W	–	1	1-Liter Amber	PCBs by EPA Method 8082		↓ C
MW-13A		12:30	Grab	W	HCl	2	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		002 AB
MW-13A		12:30	Grab	W	–	1	1-Liter Amber	PCBs by EPA Method 8082		↓ C
MW-14		11:50	Grab	W	HCl	2	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		003 AB
MW-14		11:50	Grab	W	--	1	1-Liter Amber	PCBs by EPA Method 8082		↓ C
MW-18		14:10	Grab	W	HCl	2	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		004 AB
MW-18		14:10	Grab	W	--	1	1-Liter Amber	PCBs by EPA Method 8082		↓ C
101408-Dup-1		—	Grab	W	HCl	2	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		005 AB
101408-Dup-1		—	Grab	W	–	1	1-Liter Amber	PCBs by EPA Method 8082		↓ C
MS/~~MSD~~ MW-6R		13:20	Grab	W	HCl	4	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)	PCB	006 AB C
MS/MSD MW-6R		13:20	Grab	W	–	2	1-Liter Amber	PCBs by EPA Method 8082 +VOCs		007 AA C
Trip Blank		11:00	—	W	HCL	2	40ml VOA	Select VOCs		008

LSL use only:

Temp. of samples:
Containers this C-O-C:

Custody Transfers

		Date	Time
Sampled By: R. Creighton	Received By:	10/14/08	15:00
Relinquished By:	Received By:		
Relinquished By:	Rec'd for Lab By:	10-14-08	14:59
Shipment Method:	Received Intact: Y N		

*** All areas of this Chain of Custody Record MUST be filled out in order to process samples in a timely manner IN PEN ONLY***

Semi-AnnualGW-VOCs&PCBs

LSL COC

3 Coolers

Brian Macrae
Synapse Risk Management, LLC
325 East Water Street
Syracuse, NY 13202

Phone: (315) 475-3700
FAX: (315) 475-3780
Authorization: DANA 001-07 TO2

Laboratory Analysis Report

For

Synapse Risk Management, LLC

Client Project ID:

2200 Bleeker St. Utica

LSL Project ID: **0818917**

Receive Date/Time: 10/15/08 16:10

Project Received by: GS

Life Science Laboratories, Inc.

(1) LSL Central Lab, East Syracuse, NY	(315) 445-1105	NYS DOH ELAP #10248 PA DEP #68-2556
(2) LSL North Lab, Waddington, NY	(315) 388-4476	NYS DOH ELAP #10900
(3) LSL Finger Lakes Lab, Wayland, NY	(585) 728-3320	NYS DOH ELAP #11667
(4) LSL Southern Tier Lab, Cuba, NY	(585) 968-2640	NYS DOH ELAP #10760
(5) LSL MidLakes Lab, Canandaigua, NY	(585) 396-0270	NYS DOH ELAP #11369
(6) LSL Brittonfield Lab, East Syracuse, NY	(315) 437-0200	NYS DOH ELAP #10155

This report was reviewed by: Connie Cameron, QA *Date:* 10/31/08

Life Science Laboratories, Inc.

A copy of this report was sent to:

Date Printed: 10/30/08

- - LABORATORY ANALYSIS REPORT - -

Synapse Risk Management, LLC Syracuse, NY

Sample ID: Grab **LSL Sample ID:** 0818917-001
Location: MW-6R
Sampled: 10/15/08 14:20 **Sampled By:** RC
Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	0.016	mg/l	10/17/08	10/24/08	DP
Copper	<0.01	mg/l	10/17/08	10/24/08	DP
Lead	0.011	mg/l	10/17/08	10/24/08	DP
Zinc	0.11	mg/l	10/17/08	10/24/08	DP

Sample ID: Grab **LSL Sample ID:** 0818917-002
Location: MW-13A
Sampled: 10/15/08 14:10 **Sampled By:** RC
Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	<0.01	mg/l	10/17/08	10/24/08	DP
Copper	<0.01	mg/l	10/17/08	10/24/08	DP
Lead	<0.01	mg/l	10/17/08	10/24/08	DP
Zinc	0.012	mg/l	10/17/08	10/24/08	DP

Sample ID: Grab **LSL Sample ID:** 0818917-003
Location: MW-14
Sampled: 10/15/08 14:05 **Sampled By:** RC
Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	<0.01	mg/l	10/17/08	10/24/08	DP
Copper	<0.01	mg/l	10/17/08	10/24/08	DP
Lead	<0.01	mg/l	10/17/08	10/24/08	DP
Zinc	0.014	mg/l	10/17/08	10/24/08	DP

Sample ID: Grab **LSL Sample ID:** 0818917-004
Location: MW-18
Sampled: 10/15/08 14:35 **Sampled By:** RC
Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	<0.01	mg/l	10/17/08	10/24/08	DP
Copper	<0.01	mg/l	10/17/08	10/24/08	DP
Lead	<0.01	mg/l	10/17/08	10/24/08	DP
Zinc	0.026	mg/l	10/17/08	10/24/08	DP

Life Science Laboratories, Inc.

Date Printed: 10/30/08

Analysis performed at: *(1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield*

- - LABORATORY ANALYSIS REPORT - -

Synapse Risk Management, LLC Syracuse, NY

Sample ID: Grab **LSL Sample ID:** 0818917-005
Location: 101508-Dup-2
Sampled: 10/15/08 0:00 **Sampled By:** RC
Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	<0.01	mg/l	10/17/08	10/24/08	DP
Copper	<0.01	mg/l	10/17/08	10/24/08	DP
Lead	<0.01	mg/l	10/17/08	10/24/08	DP
Zinc	0.024	mg/l	10/17/08	10/24/08	DP

Sample ID: Grab/MS **LSL Sample ID:** 0818917-006
Location: MW-6R MS
Sampled: 10/15/08 14:20 **Sampled By:** RC
Sample Matrix: QC, NPW MS

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	72	% R	10/17/08	10/24/08	DP
Copper	71	% R	10/17/08	10/24/08	DP
Lead	74	%R	10/17/08	10/24/08	DP
Zinc	70	% R	10/17/08	10/24/08	DP

Sample ID: Grab/MSD **LSL Sample ID:** 0818917-007
Location: MW-6R MSD
Sampled: 10/15/08 14:20 **Sampled By:** RC
Sample Matrix: QC, NPW MSD

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 200.7 Priority Pollutant Metals					
Chromium	17	RPD	10/17/08	10/24/08	DP
Copper	18	RPD	10/17/08	10/24/08	DP
Lead	19	RPD	10/17/08	10/24/08	DP
Zinc	16	RPD	10/17/08	10/24/08	DP

Life Science Laboratorie

CHAIN OF CUSTODY RECORD

0818917

SynapseRiskManage

LSL Central Lab.
5854 Butternut Drive
E. Syracuse, NY 13057
Phone: 315-445-1105
Fax: 315-445-1301

LSL North Lab.
131 St. Lawrence Ave.
Waddington, NY 13694
Phone: 315-388-4476
Fax: 315-388-4061

LSL Finger Lakes Lab.
16 N. Main St., PO Box 424
Wayland, NY 14572
Phone: 585-728-3320
Fax: 585-728-2711

LSL Southern
30 East Main
Cuba, NY 14727
Phone: 585-968-2640
Fax: 585-968-2640

Phone: 585-554-5347
Fax: 585-554-6743

Report Address:

Name: Roger Creighton
Company: Synapse Risk Management, LLC
Street: Historic Bennett Warehouse 325 East Water Street
City/State: Syracuse, NY Zip: 13202
Phone: 475-3700 Fax: 475-3780
Email: rcreighton@synapseriskmanagement.com

Turnaround Time

Normal	Pre-Authorized				
14 DAY [X]	Next Day* [ ]	2-Day * [ ]	3-Day * [ ]	7-Day* [ ]	*Additional Charges may apply

Date Needed or Special Instructions:

Authorization or P.O. # DANA 001-07 T02

LSL Project Number:

Client Project ID/Client Site ID

SPDES / 2200 Bleecker St, Utica, NY

Client's Sample Identifications	Sample Date	Sample Time	Type grab/comp	Matrix	Preserv. Added	Containers #	Containers size/type	Analyses	Preserv Check	LSL ID#
MW-6R	10/15/08	14:20	Grab	W	HNO_3	1	500-ml plastic	Metals by EPA Method 200 Series (Cr, Cu, Pb, Zn)		1
MW-13A		14:10	Grab	W	HNO_3	1	500-ml plastic	Metals by EPA Method 200 Series (Cr, Cu, Pb, Zn)		2
MW-14		14:05	Grab	W	HNO_3	1	500-ml plastic	Metals by EPA Method 200 Series (Cr, Cu, Pb, Zn)		3
MW-18		14:35	Grab	W	HNO_3	1	500-ml plastic	Metals by EPA Method 200 Series (Cr, Cu, Pb, Zn)		4
~~Dup-1~~ 101508-Dup-2		—	Grab	W	HNO_3	1	500-ml plastic	Metals by EPA Method 200 Series (Cr, Cu, Pb, Zn)		5
MS/MSD MW-6R		14:20	Grab	W	HNO_3	2	500-ml plastic	Metals by EPA Method 200 Series (Cr, Cu, Pb, Zn)		MS 6 / MSD 7

LSL use only:

Temp. of samples:
Containers this C-O-C:

Custody Transfers

		Date	Time
Sampled By: R. Creighton	**Received By:**		
Relinquished By:	**Received By:**	10/15/08	1612
Relinquished By:	**Rec'd for Lab By:**		
Shipment Method:	Received Intact: Y N		

*** **All areas of this Chain of Custody Record MUST be filled out in order to process samples in a timely manner IN PEN ONLY*** 2.0°C on Ice

Semi-AnnualGW-Metals

LSL COC

LSL

RECEIVED
MAY 16 2008

Roger Creighton
Synapse Risk Management, LLC
325 East Water Street
Syracuse, NY 13202

Phone: (315) 475-3700
FAX: (315) 475-3780
Authorization: PO #DANA 01-07 T02

Laboratory Analysis Report

For

Synapse Risk Management, LLC

Client Project ID:

SPDES / 2200 Bleecker St., Utica, NY

LSL Project ID: **0806652**

Receive Date/Time: 04/29/08 16:00

Project Received by: KV

Life Science Laboratories, Inc.

(1) LSL Central Lab, East Syracuse, NY	(315) 445-1105	NYS DOH ELAP #10248 PA DEP #68-2556
(2) LSL North Lab, Waddington, NY	(315) 388-4476	NYS DOH ELAP #10900
(3) LSL Finger Lakes Lab, Wayland, NY	(585) 728-3320	NYS DOH ELAP #11667
(4) LSL Southern Tier Lab, Cuba, NY	(585) 968-2640	NYS DOH ELAP #10760
(5) LSL MidLakes Lab, Canandaigua, NY	(585) 396-0270	NYS DOH ELAP #11369
(6) LSL Brittonfield Lab, East Syracuse, NY	(315) 437-0200	NYS DOH ELAP #10155

This report was reviewed by: Delsey Kemp, QA ***Date:*** 5/14/08

Life Science Laboratories, Inc.

A copy of this report was sent to:

Date Printed: 5/14/08

- - LABORATORY ANALYSIS REPORT - -

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-6R **LSL Sample ID:** 0806652-001

Location:

Sampled: 04/29/08 13:35 **Sampled By:** RC

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	5/1/08	5/2/08	KIS
Aroclor-1221	<0.1	ug/l	5/1/08	5/2/08	KIS
Aroclor-1232	<0.1	ug/l	5/1/08	5/2/08	KIS
Aroclor-1242	<0.1	ug/l	5/1/08	5/2/08	KIS
Aroclor-1248	<0.1	ug/l	5/1/08	5/2/08	KIS
Aroclor-1254	<0.1	ug/l	5/1/08	5/2/08	KIS
Aroclor-1260	<0.1	ug/l	5/1/08	5/2/08	KIS
Surrogate (DCB)	97	%R	5/1/08	5/2/08	KIS
(1) EPA 8260B TCL Volatiles					
trans-1,2-Dichloroethene	<1	ug/l		5/1/08	BD
cis-1,2-Dichloroethene	<1	ug/l		5/1/08	BD
Trichloroethene	<1	ug/l		5/1/08	BD
Vinyl chloride	<1	ug/l		5/1/08	BD
Surrogate (1,2-DCA-d4)	94	%R		5/1/08	BD
Surrogate (Tol-d8)	96	%R		5/1/08	BD
Surrogate (4-BFB)	97	%R		5/1/08	BD

Sample ID: MW-13A **LSL Sample ID:** 0806652-002

Location:

Sampled: 04/29/08 12:25 **Sampled By:** RC

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	5/1/08	5/2/08	KIS
Aroclor-1221	<0.1	ug/l	5/1/08	5/2/08	KIS
Aroclor-1232	<0.1	ug/l	5/1/08	5/2/08	KIS
Aroclor-1242	<0.1	ug/l	5/1/08	5/2/08	KIS
Aroclor-1248	<0.1	ug/l	5/1/08	5/2/08	KIS
Aroclor-1254	<0.1	ug/l	5/1/08	5/2/08	KIS
Aroclor-1260	<0.1	ug/l	5/1/08	5/2/08	KIS
Surrogate (DCB)	85	%R	5/1/08	5/2/08	KIS
(1) EPA 8260B TCL Volatiles					
trans-1,2-Dichloroethene	<1	ug/l		5/1/08	BD
cis-1,2-Dichloroethene	<1	ug/l		5/1/08	BD
Trichloroethene	<1	ug/l		5/1/08	BD
Vinyl chloride	<1	ug/l		5/1/08	BD
Surrogate (1,2-DCA-d4)	95	%R		5/1/08	BD
Surrogate (Tol-d8)	96	%R		5/1/08	BD
Surrogate (4-BFB)	98	%R		5/1/08	BD

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-14 **LSL Sample ID:** 0806652-003

Location:

Sampled: 04/29/08 11:30 **Sampled By:** RC

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	5/1/08	5/2/08	KIS
Aroclor-1221	<0.1	ug/l	5/1/08	5/2/08	KIS
Aroclor-1232	<0.1	ug/l	5/1/08	5/2/08	KIS
Aroclor-1242	<0.1	ug/l	5/1/08	5/2/08	KIS
Aroclor-1248	<0.1	ug/l	5/1/08	5/2/08	KIS
Aroclor-1254	<0.1	ug/l	5/1/08	5/2/08	KIS
Aroclor-1260	<0.1	ug/l	5/1/08	5/2/08	KIS
Surrogate (DCB)	102	%R	5/1/08	5/2/08	KIS
(1) EPA 8260B TCL Volatiles					
trans-1,2-Dichloroethene	<1	ug/l		5/1/08	BD
cis-1,2-Dichloroethene	<1	ug/l		5/1/08	BD
Trichloroethene	<1	ug/l		5/1/08	BD
Vinyl chloride	<1	ug/l		5/1/08	BD
Surrogate (1,2-DCA-d4)	94	%R		5/1/08	BD
Surrogate (Tol-d8)	95	%R		5/1/08	BD
Surrogate (4-BFB)	95	%R		5/1/08	BD

Sample ID: MW-18 **LSL Sample ID:** 0806652-004

Location:

Sampled: 04/29/08 14:25 **Sampled By:** RC

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	5/5/08	5/6/08	KIS
Aroclor-1221	<0.1	ug/l	5/5/08	5/6/08	KIS
Aroclor-1232	<0.1	ug/l	5/5/08	5/6/08	KIS
Aroclor-1242	<0.1	ug/l	5/5/08	5/6/08	KIS
Aroclor-1248	<0.1	ug/l	5/5/08	5/6/08	KIS
Aroclor-1254	<0.1	ug/l	5/5/08	5/6/08	KIS
Aroclor-1260	<0.1	ug/l	5/5/08	5/6/08	KIS
Surrogate (DCB)	114	%R	5/5/08	5/6/08	KIS
(1) EPA 8260B TCL Volatiles					
trans-1,2-Dichloroethene	<1	ug/l		5/4/08	BD
cis-1,2-Dichloroethene	<1	ug/l		5/4/08	BD
Trichloroethene	<1	ug/l		5/4/08	BD
Vinyl chloride	15	ug/l		5/4/08	BD
Surrogate (1,2-DCA-d4)	98	%R		5/4/08	BD
Surrogate (Tol-d8)	98	%R		5/4/08	BD
Surrogate (4-BFB)	100	%R		5/4/08	BD

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: 042908-Duplicate **LSL Sample ID:** 0806652-005
Location:
Sampled: 04/29/08 0:00 **Sampled By:** RC
Sample Matrix: QC, NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8082 PCB's					
Aroclor-1016	<0.1	ug/l	5/5/08	5/6/08	KIS
Aroclor-1221	<0.1	ug/l	5/5/08	5/6/08	KIS
Aroclor-1232	<0.1	ug/l	5/5/08	5/6/08	KIS
Aroclor-1242	<0.1	ug/l	5/5/08	5/6/08	KIS
Aroclor-1248	<0.1	ug/l	5/5/08	5/6/08	KIS
Aroclor-1254	<0.1	ug/l	5/5/08	5/6/08	KIS
Aroclor-1260	<0.1	ug/l	5/5/08	5/6/08	KIS
Surrogate (DCB)	111	%R	5/5/08	5/6/08	KIS
(1) EPA 8260B TCL Volatiles					
trans-1,2-Dichloroethene	<1	ug/l		5/4/08	BD
cis-1,2-Dichloroethene	<1	ug/l		5/4/08	BD
Trichloroethene	<1	ug/l		5/4/08	BD
Vinyl chloride	15	ug/l		5/4/08	BD
Surrogate (1,2-DCA-d4)	98	%R		5/4/08	BD
Surrogate (Tol-d8)	98	%R		5/4/08	BD
Surrogate (4-BFB)	101	%R		5/4/08	BD

Sample ID: MW-6R Matrix Spike **LSL Sample ID:** 0806652-006
Location:
Sampled: 04/29/08 13:35 **Sampled By:** RC
Sample Matrix: QC, NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8082 PCB's					
Aroclor-1016			5/5/08	5/6/08	KIS
Aroclor-1221			5/5/08	5/6/08	KIS
Aroclor-1232			5/5/08	5/6/08	KIS
Aroclor-1242			5/5/08	5/6/08	KIS
Aroclor-1248	136	%R	5/5/08	5/6/08	KIS
Aroclor-1254			5/5/08	5/6/08	KIS
Aroclor-1260			5/5/08	5/6/08	KIS
Surrogate (DCB)	124	%R	5/5/08	5/6/08	KIS
(1) EPA 8260B TCL Volatiles					
trans-1,2-Dichloroethene	99	%R		5/4/08	BD
cis-1,2-Dichloroethene	102	%R		5/4/08	BD
Trichloroethene	98	%R		5/4/08	BD
Vinyl chloride	75	%R		5/4/08	BD
Surrogate (1,2-DCA-d4)	102	%R		5/4/08	BD
Surrogate (Tol-d8)	98	%R		5/4/08	BD
Surrogate (4-BFB)	98	%R		5/4/08	BD

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC *Syracuse, NY*

Sample ID: MW-6R Matrix Spike Duplicate **LSL Sample ID:** 0806652-007
Location:
Sampled: 04/29/08 13:35 **Sampled By:** RC
Sample Matrix: QC, NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8082 PCB's					
Aroclor-1016			5/5/08	5/6/08	KIS
Aroclor-1221			5/5/08	5/6/08	KIS
Aroclor-1232			5/5/08	5/6/08	KIS
Aroclor-1242			5/5/08	5/6/08	KIS
Aroclor-1248	9	RPD	5/5/08	5/6/08	KIS
Aroclor-1254			5/5/08	5/6/08	KIS
Aroclor-1260			5/5/08	5/6/08	KIS
Surrogate (DCB)	102	%R	5/5/08	5/6/08	KIS
(1) EPA 8260B TCL Volatiles					
trans-1,2-Dichloroethene	2	RPD		5/4/08	BD
cis-1,2-Dichloroethene	<1	RPD		5/4/08	BD
Trichloroethene	1	RPD		5/4/08	BD
Vinyl chloride	3	RPD		5/4/08	BD
Surrogate (1,2-DCA-d4)	103	%R		5/4/08	BD
Surrogate (Tol-d8)	99	%R		5/4/08	BD
Surrogate (4-BFB)	97	%R		5/4/08	BD

Sample ID: Trip Blank **LSL Sample ID:** 0806652-008
Location:
Sampled: 04/29/08 0:00 **Sampled By:**
Sample Matrix: TB

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 8260B TCL Volatiles					
trans-1,2-Dichloroethene	<1	ug/l		5/1/08	BD
cis-1,2-Dichloroethene	<1	ug/l		5/1/08	BD
Trichloroethene	<1	ug/l		5/1/08	BD
Vinyl chloride	<1	ug/l		5/1/08	BD
Surrogate (1,2-DCA-d4)	94	%R		5/1/08	BD
Surrogate (Tol-d8)	95	%R		5/1/08	BD
Surrogate (4-BFB)	96	%R		5/1/08	BD

LSL

SURROGATE RECOVERY CONTROL LIMITS FOR ORGANIC METHODS

Method	Surrogate(s)	Water Limits, %R	SHW Limits, %R
EPA 504	TCMX	80-120	NA
EPA 508	DCB	70-130	NA
EPA 515.4	DCAA	70-130	NA
EPA 524.2	1,2-DCA-d4, 4-BFB	80-120	NA
EPA 525.2	1,3-DM-2-NB, TPP, Per-d12	70-130	NA
EPA 526	1,3-DM-2-NB, TPP	70-130	NA
EPA 528	2-CP-3,4,5,6-d4, 2,4,6-TBP	70-130	NA
EPA 551.1	Decafluorobiphenyl	80-120	NA
EPA 552.2	2,3-DBPA	70-130	NA
EPA 601	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 602	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 608	TCMX, DCB	30-150	NA
EPA 624	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	NA
EPA 625, AE	2-Fluorophenol	21-110	NA
EPA 625, AE	Phenol-d5	10-110	NA
EPA 625, AE	2,4,6-Tribromophenol	10-123	NA
EPA 625, BN	Nitrobenzene-d5	35-114	NA
EPA 625, BN	2-Fluorobiphenyl	43-116	NA
EPA 625, BN	Terphenyl-d14	33-141	NA
EPA 8010	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8020	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8021	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8081	TCMX, DCB	30-150	30-150
EPA 8082	DCB	30-150	30-150
EPA 8151	DCAA	30-130	30-120
EPA 8260	1,2-DCA-d4, Tol-d8, 4-BFB	70-130	70-130
EPA 8270, AE	2-Fluorophenol	21-110	25-121
EPA 8270, AE	Phenol-d5	10-110	24-113
EPA 8270, AE	2,4,6-Tribromophenol	10-123	19-122
EPA 8270, BN	Nitrobenzene-d5	35-114	23-120
EPA 8270, BN	2-Fluorobiphenyl	43-116	30-115
EPA 8270, BN	Terphenyl-d14	33-141	18-137
DOH 310-13	Terphenyl-d14	40-110	40-110
DOH 310-14	Terphenyl-d14	40-110	40-110
DOH 310-15	Terphenyl-d14	40-110	40-110
DOH 310-34	4-BFB	50-150	50-150
DOH 313-4	DCB	NA	30-150
8015M_GRO	4-BFB	50-150	50-150
8015M_DRO	Terphenyl-d14	50-150	50-150

Units Key:	
	ug/l = microgram per liter
	ug/kg = microgram per kilogram
	mg/l = milligram per liter
	mg/kg = milligram per kilogram
	%R = Percent Recovery

Life Science Laboratories, Inc.
CHAIN OF CUSTODY RECORD

0806652

SynapseRiskManage

LSL Central Lab.
5854 Butternut Drive
E. Syracuse, NY 13057
Phone: 315-445-1105
Fax: 315-445-1301

LSL North Lab.
131 St. Lawrence Ave.
Waddington, NY 13694
Phone: 315-388-4476
Fax: 315-388-4061

LSL Finger Lakes Lab.
16 N. Main St., PO Box 424
Wayland, NY 14572
Phone: 585-728-3320
Fax: 585-728-2711

LSL Southern Tier Lab.
30 East Main St.
Cuba, NY 14727
Phone: 585-968-2640
Fax: 585-968-2640

Middlesex, NY 14507
Phone: 585-554-5347
Fax: 585-554-6743

Report Address:

Name: Roger Creighton
Company: Synapse
Street: Historic Bennett Warehouse 325 East Water Street
City/State: Syracuse, NY Zip: 13202
Phone: 475-3700 Fax: 475-3780
Email: rcreighton@synapseriskmanagement.com

Turnaround Time

Normal: 14 DAY [X]
Pre-Authorized: Next Day* [ ] 2-Day * [ ] 3-Day * [ ] 7-Day* [ ]
*Additional Charges may apply

Date Needed or Special Instructions:

Authorization or P.O. #

DANA 01-07 T02

Client Project ID/Client Site ID

SPDES / 2200 Bleecker St, Utica, NY

LSL Project Number:

	Client's Sample Identifications	Sample Date	Sample Time	Type grab/comp	Matrix	Preserv. Added	Containers #	Containers size/type	Analyses	Preserv Check	LSL ID#
001 AB	MW-6R ~~MS/MSD~~	4/29/08	13:35	Grab	W	HCl	2	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		
↓ C	MW-6R ~~MS/MSD~~		13:35	Grab	W	--	1	1-Liter Amber	PCBs by EPA Method 8082		
002 AB	MW-13A		12:25	Grab	W	HCl	2	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		
↓ C	MW-13A		12:25	Grab	W	--	1	1-Liter Amber	PCBs by EPA Method 8082		
003AB	MW-14		11:30	Grab	W	HCl	2	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		
↓ C	MW-14		11:30	Grab	W	--	1	1-Liter Amber	PCBs by EPA Method 8082		
004AB	MW-18		14:25	Grab	W	HCl	2	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		
↓ C	MW-18		14:25	Grab	W	--	1	1-Liter Amber	PCBs by EPA Method 8082		
005AB	042908-Dup			Grab	W	HCl	2	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		
↓ C	042908-Dup			Grab	W	--	1	1-Liter Amber	PCBs by EPA Method 8082		
006ABC	~~MS/MSD~~ MW6R MS			Grab	W	HCl	4	40 ml/ voa	Select VOCs by EPA Method 8260 (cis- & trans-1,2-DCE; TCE; and vinyl chloride)		
007ABC	~~MS/MSD~~ MW6R MSD			Grab	W	--	2	1-Liter Amber	PCBs by EPA Method 8082		
008AB	Trip Blank	↓									

LSL use only:

Temp. of samples:
Containers this C-O-C:

Custody Transfers

		Date	Time
Sampled By: R. Creighton	Received By:		
Relinquished By:	Received By:	4/29/08	16:00
Relinquished By:	Rec'd for Lab By: 04-29-08 16:00 ARH		
Shipment Method:	Received Intact: Y N		

*** All areas of this Chain of Custody Record MUST be filled out in order to process samples in a timely manner IN PEN ONLY***

Semi-AnnualGW-VOCs&PCBs

LSL COC

1 cooler on ice

LSL

RECEIVED
MAY 21 2008

Roger Creighton
Synapse Risk Management, LLC
325 East Water Street
Syracuse, NY 13202

Phone: (315) 475-3700
FAX: (315) 475-3780
Authorization: PO #DANA 001-07 T02

Laboratory Analysis Report

For

Synapse Risk Management, LLC

Client Project ID:

SPDES / 2200 Bleecker St., Utica, NY

LSL Project ID: **0806747**

Receive Date/Time: 04/30/08 16:18

Project Received by: KV

Life Science Laboratories, Inc.

(1) LSL Central Lab, East Syracuse, NY	(315) 445-1105	NYS DOH ELAP #10248 PA DEP #68-2556
(2) LSL North Lab, Waddington, NY	(315) 388-4476	NYS DOH ELAP #10900
(3) LSL Finger Lakes Lab, Wayland, NY	(585) 728-3320	NYS DOH ELAP #11667
(4) LSL Southern Tier Lab, Cuba, NY	(585) 968-2640	NYS DOH ELAP #10760
(5) LSL MidLakes Lab, Canandaigua, NY	(585) 396-0270	NYS DOH ELAP #11369
(6) LSL Brittonfield Lab, East Syracuse, NY	(315) 437-0200	NYS DOH ELAP #10155

This report was reviewed by: Emma Cameron, QA *Date:* 5/19/08

Life Science Laboratories, Inc.

A copy of this report was sent to:

Date Printed: 5/16/08

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-6R **LSL Sample ID:** 0806747-001

Location:

Sampled: 04/30/08 13:45 **Sampled By:** SM

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 6010 Partial List of Metals					
Zinc	0.020	mg/l	5/1/08	5/8/08	DP
Lead	<0.01	mg/l	5/1/08	5/8/08	DP
Copper	<0.01	mg/l	5/1/08	5/8/08	DP
Chromium	<0.01	mg/l	5/1/08	5/8/08	DP

- - LABORATORY ANALYSIS REPORT - -

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-13A **LSL Sample ID:** 0806747-002

Location:

Sampled: 04/30/08 12:45 **Sampled By:** SM

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 6010 Partial List of Metals					
Zinc	0.019	mg/l	5/1/08	5/8/08	DP
Lead	<0.01	mg/l	5/1/08	5/8/08	DP
Copper	<0.01	mg/l	5/1/08	5/8/08	DP
Chromium	<0.01	mg/l	5/1/08	5/8/08	DP

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-14 **LSL Sample ID:** 0806747-003

Location:

Sampled: 04/30/08 13:00 **Sampled By:** SM

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 6010 Partial List of Metals					
Zinc	0.021	mg/l	5/1/08	5/8/08	DP
Lead	<0.01	mg/l	5/1/08	5/8/08	DP
Copper	<0.01	mg/l	5/1/08	5/8/08	DP
Chromium	<0.01	mg/l	5/1/08	5/8/08	DP

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: MW-18 **LSL Sample ID:** 0806747-004

Location:

Sampled: 04/30/08 13:15 **Sampled By:** SM

Sample Matrix: NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 6010 Partial List of Metals					
Zinc	0.024	mg/l	5/1/08	5/8/08	DP
Lead	<0.01	mg/l	5/1/08	5/8/08	DP
Copper	<0.01	mg/l	5/1/08	5/8/08	DP
Chromium	<0.01	mg/l	5/1/08	5/8/08	DP

Life Science Laboratories, Inc.

Date Printed: 5/16/08

Analysis performed at: *(1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield*

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC Syracuse, NY

Sample ID: Dup-1 **LSL Sample ID:** 0806747-005

Location:

Sampled: 04/30/08 0:00 **Sampled By:** SM

Sample Matrix: QC, NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 6010 Partial List of Metals					
Zinc	0.024	mg/l	5/1/08	5/8/08	DP
Lead	<0.01	mg/l	5/1/08	5/8/08	DP
Copper	<0.01	mg/l	5/1/08	5/8/08	DP
Chromium	<0.01	mg/l	5/1/08	5/8/08	DP

Life Science Laboratories, Inc. **Date Printed:** 5/16/08

Analysis performed at: *(1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield*

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC *Syracuse, NY*

Sample ID: MW-6R Matrix Spike **LSL Sample ID:** 0806747-006

Location:

Sampled: 04/30/08 13:45 **Sampled By:** SM

Sample Matrix: QC, NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 6010 Partial List of Metals					
Zinc	100	%R	5/1/08	5/8/08	DP
Lead	110	%R	5/1/08	5/8/08	DP
Copper	100	%R	5/1/08	5/8/08	DP
Chromium	120	%R	5/1/08	5/8/08	DP

Life Science Laboratories, Inc. **Date Printed:** 5/16/08

Analysis performed at: *(1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield*

-- LABORATORY ANALYSIS REPORT --

Synapse Risk Management, LLC *Syracuse, NY*

Sample ID: MW-6R Matrix Spike Duplicate **LSL Sample ID:** 0806747-007

Location:

Sampled: 04/30/08 13:45 **Sampled By:** SM

Sample Matrix: QC, NPW

Analytical Method / Analyte	Result	Units	Prep Date	Analysis Date & Time	Analyst Initials
(1) EPA 6010 Partial List of Metals					
Zinc	<1	RPD	5/1/08	5/8/08	DP
Lead	<1	RPD	5/1/08	5/8/08	DP
Copper	<1	RPD	5/1/08	5/8/08	DP
Chromium	<1	RPD	5/1/08	5/8/08	DP

Life Science Laboratories, Inc. **Date Printed:** 5/16/08

Analysis performed at: *(1) LSL Central, (2) LSL North, (3) LSL Finger Lakes, (4) LSL Southern Tier, (5) LSL MidLakes, (6) LSL Brittonfield*

Life Science Laboratories, Inc.

CHAIN OF CUSTODY RECORD

0806747

SynapseRiskManage

LSL Central Lab.
5854 Butternut Drive
E. Syracuse, NY 13057
Phone: 315-445-1105
Fax: 315-445-1301

LSL North Lab.
131 St. Lawrence Ave.
Waddington, NY 13694
Phone: 315-388-4476
Fax: 315-388-4061

LSL Finger Lakes Lab.
16 N. Main St., PO Box 424
Wayland, NY 14572
Phone: 585-728-3320
Fax: 585-728-2711

LSL Southern Tier Lab.
30 East Main St.
Cuba, NY 14727
Phone: 585-968-2640
Fax: 585-968-2640

Middlesex, NY 14507
Phone: 585-554-5347
Fax: 585-554-6743

Turnaround Time

Normal	Pre-Authorized				
14 DAY [X]	Next Day* [ ]	3-Day * [ ]	*Additional Charges may apply
	2-Day * [ ]	7-Day* [ ]	

Report Address:

Name: Roger Creighton
Company: Synapse Risk Management, LLC
Street: Historic Bennett Warehouse 325 East Water Street
City/State: Syracuse, NY Zip: 13202
Phone: 475-3700 Fax: 475-3780
Email: rcreighton@synapseriskmanagement.com

Date Needed or Special Instructions:

Authorization or P.O. # DANA 001-07 T02

LSL Project Number:

Client Project ID/Client Site ID SPDES / 2200 Bleecker St, Utica, NY

Client's Sample Identifications	Sample Date	Sample Time	Type grab/comp	Matrix	Preserv. Added	Containers #	Containers size/type	Analyses	Preserv Check	LSL ID#
MW-6R	4-30-08	1345	Grab	W	HNO_3	1	500-ml plastic	Metals by EPA Method 6000 Series (Cr, Cu, Pb, Zn)		001
MW-13A	4-30-08	1245	Grab	W	HNO_3	1	500-ml plastic	Metals by EPA Method 6000 Series (Cr, Cu, Pb, Zn)		002
MW-14	4-30-08	1300	Grab	W	HNO_3	1	500-ml plastic	Metals by EPA Method 6000 Series (Cr, Cu, Pb, Zn)		003
MW-18	4-30-08	1315	Grab	W	HNO_3	1	500-ml plastic	Metals by EPA Method 6000 Series (Cr, Cu, Pb, Zn)		004
Dup-1	4-30-08	—	Grab	W	HNO_3	1	500-ml plastic	Metals by EPA Method 6000 Series (Cr, Cu, Pb, Zn)		005
006 007 MS/MSD (MW-6R)	4-30-08	1345	Grab	W	HNO_3	2	500-ml plastic	Metals by EPA Method 6000 Series (Cr, Cu, Pb, Zn)		006 007

Custody Transfers

		Date	Time
Sampled By: Scott Matthews	Received By:		
Relinquished By: S. Matth	Received By:		
Relinquished By:	Rec'd for Lab By: [illegible]	04-30-08	16:10 RCVD
Shipment Method:	Received Intact: Y N		

LSL use only:

Temp. of samples: 4.2°C on ice

Containers this C-O-C:

*** All areas of this Chain of Custody Record MUST be filled out in order to process samples in a timely manner IN PEN ONLY***

APPENDIX G
GROUNDWATER TREATMENT SYSTEM INSPECTION LOGS

2008 ANNUAL OPERATION, MAINTENANCE AND MONITORING REPORT

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

APRIL 2009

1/2/08 Weekly Sampling
1330 D. Sco (ENSR) onsite - Re-start
pump 2 in MH-1 - pump 1 running.
1340 SAMPLE CP effluent

MH-1 42.3gpm 1289087
MH-2 3419473
Sump 113
A/S 3283793
meter 3034600
1300 gal H_2O in tank
1400 DS offsite.
~~DMS 1/2/08~~

1/9/08 Monthly Sampling
14:07 DS onsite, system running
MH-1 1332047
MH-2 3500196
FS 113
A/S 3364444
Meter 3107900
MH6 24
Filter pressure: Prim - 20
Second - 11
~~DMS 1/9/08~~

1410 SAMPLE CP effluent
1415 SAMPLE CP influent #1
1420 SAMPLE CP influent #2
1430 Change filters
1440 DS offsite.
~~DMS 1/9/08~~

1/16/08 Weekly Sampling
1055 DS onsite
MH-1 1382804
MH-2 350227
FS 113
A/S 3495035
Meter 3183200
1100 SAMPLE CP effluent
11:15 DS offsite.
~~DMS 1/16/08~~

1/23/08 Weekly Sampling
1445 DS onsite
MH-1 1410608
MH-2 350 273
FS 113
AS 3510476

1500 Sample CP effluent
1520 DS offsite.
Heather

1/31/08 weekly sampling + O+M
800 Ray Smith (EWSR) on site.
Remove FREITE System, change in-line strainers.
900 Denise Sero (EWSR) on site.
DS + RS inspect stripper trays.
Trays look good - no loose sediment, moderate scaling.
Change bag filters.
945 SAMPLE CP Effluent
MH1 = 1,431,759
MH2A = 350,293
FS = 113
SYSTEM = 3,560,980
METER = 3,282,700
10:00 all offsite.
1/31/08
+Monthly
2/7/08 Weekly sampling.
1300 DS onsite.
2/7/08

2/7/08 Cont'd
MH-1 1480490
MH-2 350341
FS 113
VFS 3633385
Meter 3347400

1305 SAMPLE CP influent #1
1310 SAMPLE CP influent #2
1315 SAMPLE CP effluent
1320 DS offsite.
2/7/08
2/14/08 weekly sampling
13:25 DS on site, talk to Jim Stevens of Dodge Graphics regarding upcoming stripper cleaning.
13:45 DS at stripper area.
MH-1 1573118
MH-2 350388
FS 113
Change filters.
14:09 collect CP effluent
14:15 DS offsite.
2/14/08

2/18/08 Air Stripper cleaning.
755 Denise Seib (EWSR) on-site.
805 Paragon Env. construction crew on-site. Review safety, CofC, general procedure for cleaning.
815 Tom & Luke (EWSR) onsite.
8.45 - Luke off site.
930 Luke onsite - picked up silicone spray lubricant for gaskets.
1015 DS Review MH-2 cleanout location + cleaning plan with crew.
1045 Stripper disassembled. Will let trays dry overnight. Clean up.
11:10 All offsite.

DS 2/18/08

2/19/08 Air Stripper Cleaning
7:50 AM - T. Wilkinson on site.
8:03 - Paragon on site with 3 workers. Crew organizes equipment and continues cleaning of air stripper.
12-12:30 - Lunch Break.
15:00 - All workers leaving site. One Tray is cleaned and re-stacked. 2 more Trays will be put back on Tomorrow morning.

TW 2/19/08

2/20/09

7:50AM - T. Wilkinson arrives on site and unlocks area.

8:20 - Paragon arrives on site and organizes equipment to continue cleaning of trays. 4 Paragon workers.

11:30 - All Trays + Cover are back in place. Exhaust vent is hooked up. Workers are fixing a broken PVC fitting.

12:15 - Denise G. on site to re-start system.

1230 - Low air pressure alarm. DS check w/ EWSR PM Luke McKenney. He says to prime the hose w/ clean water, then run EQ tank pump by hand to prime trays.

1340 System running normally. PEC crew offsite. Will let system run for ~1 hr before collect sample. TW offsite. DS break for lunch.

1355 DS onsite. Will likely need to change filters several times.

1405 Filter pressure hi level alarm. Change filters.

1415 restart system.

1511 - Shut off 1 MH-1 pump to get EQ tank to pump down. EQ tank pumped down. Will change primary filter & wait for EQ tank to fill up again, then sample.

1520 - MH-1 high level alarm off. DS leave msg for LM.

1535 Sample CA effluent

MH-1 1548517

MH-2 350417

FS 113

1545 EQ tank filling normally. DS offsite to ensure samples get to lab.

2/20/09

2/29/08

1100 R. SMITH ON SITE.
MH1 = 1,582,322
MH2A = 350,465
FS = 113
SYSTEM = 3,790,001
METER = 3,487,362

1110 COLLECT CP EFFLUENT SAMPLE.

1120 CHANGE BAG FILTERS

1130 OFF SITE.

RS 2/29/08

3/3/08

1400 R. SMITH ON SITE TO TROUBLE SHOOT SYSTEM. EQ TANK FULL. MANHOLES FULL. RUN SYSTEM IN HAND MODE. SWITCH TO AUTO. SYSTEM RUNNING. OFFSITE

RS 3/3/08

1000 R SMITH ON SITE.
MH1 = 1,594,163
MH2A = 350,487
FS = 113
METER = 3,500,328
SYSTEM = 3,804,503

CHANGE BAG FILTER.

1020 COLLECT CP EFFLUENT SAMPLE.

1045 OFF SITE.

RS 3/4/08

3/12/08 Monthly Sampling

1142 Denise Sard (ENSR) on site.

MH-1 1670198
MH-2 350605
FS 113

1145 SAMPLE CP influent #1

1150 SAMPLE CP influent #2

1155 SAMPLE CP effluent.

1205 OS off site.

DSG 3/12/08

3/19/08 Weekly Sampling

1500 Denise Sard (ENSR) on site.

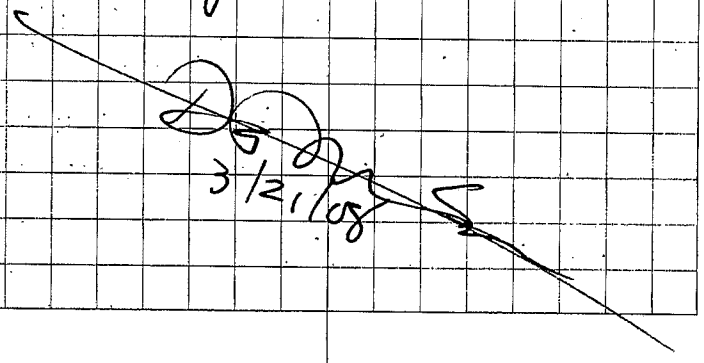
MH-1 1707971
MH-2 350662
FS 113

1505 SAMPLE CP effluent change filters, had to turn EQ pumps off first.

1515 Restart pumps OS off site.

3/21/08 alarm call-out.
1035 Denise Sea (ENSR) on site.
EQ high alarm
MH1 & MH2 high alarm
blower running
DS turn system off & change filters.
1045 Restart system. pump EQ tank down by hand.
1053 turn EQ pumps to auto @ 1600 gallons. will wait till EQ tank pumps down on its own to restart MH pumps.
1058 EQ tank pumped down. alarm cleared. Set 1 MH1 pump & both MH2 pumps to "auto"
1111 MH-1 pump off. MH-1 high alarm cleared. EQ tank pumps not turned on yet. MH-2 pumps still apparently running.
DS update Ray Smith of ENSR. He says give it 1/2 hr to see if MH-1 kicks on

1111 (cont'd) long enough to fill up tank so we can be sure the EQ pumps are working.
1120 MH-1 on, EQ tank pumps & blower turn on.
1127 Pumps off.
1129 MH-1 pump on. will wait one more cycle to make sure system is operating normally.
1140 DS ~~down~~ discuss w/ Ray Smith - he says he will monitor remotely - system seems to be operating normally Blower off.
1145 DS off site.



3/26/08 Weekly Sampling
1258 Denise Sero ENSR on site.
MH-1 17544186
MH-2 350728
FS 120
#S 4019719
1305 SAMPLE CL effluent
1315 DS offsite.
3/26/08

4/2/08 Weekly Sampling.
1347 D. Sero on site.
MH-1 1797535
MH-2 350794
FS 120
Meter 37483500
Change filters
1357 SAMPLE CL effluent
1400 DS offsite.
4/2/08

4/10/08 Monthly Sampling
1100 ENSR on site.
MH-1 1939911
MH-2 350858
FS ~~#3~~ 120
meter 3805200

11:10 SAMPLE influent #1
11:20 Sample influent #2
11:30 Sample effluent
11:40 offsite
4/10/08

4/14/08 Review site + weekly sample.
945 ENSR on site - Lindsay Chernaza, Dan Stocker, Denise Sero. Review system.
MH-1 1861027
MH-2 350889
FS 127
meter 3833500
change filters.
1040 collect sample CL effluent
11:00 all offsite
4/14/08

4/24/08 Weekly sampling
0945 ENSR on-site - Lindsay Channing, JR Russo
(Perm1) *MH1: 1896789 *meter: 3875200
~~(Perm2)~~ MH2: 350919 system: 4224505
(Perm2)
*FS: 127
(Perm1)

weather: Partly Cloudy, high 60s
1025 Sample CP effluent collected
Checked bag filter pressures
→ both are below 20 psi
1120 All off-site

(LC) 4/24/08

4/28/08 Weekly Sampling
09:00 ENSR on site Lindsay Charniga + JR Russo
MH-1: ~~20~~ 1908158
MH-2: 350919
Meter: 3884500
FS: 127
Changed right hand bag filter
(pressure was at 20 psi)
1045 Sample CP effluent collected

System: 4235123 (taken after other readings were noted and after system ran pumping MH-1 briefly)

1100 ENSR off-site

(LC) 4/28/08

5/6/08 Weekly Sampling Tuesday
9:20 ENSR Ron Russo Jr on site
MH-1: 1939046
MH-2: 350920
Meter: 3910500
FS: 138
9:30 Sample CP Effluent Collected
not able to check filter pressures
10:00 ENSR off site

5/12/08 Monday
8:20 Ron Russo on site
change filters (2)

		That # is recorded on chain of custody ↓ After Sampling
MH-1	1957539	1957653
MH-2	350920	350920
Meter	3925600	3926500

FS (upon arrival) 138 FS after Sampling 145
8:50 System turned on automatically
Left filter Reading was 12
Right filter reading was 16
Both new filters
Collected weekly sampling
9:20 Manhole 2 high level Sump light 135 ft on.
Ron Russo off site.

5/19/08 Monday Weekly Sampling.

9:15 - T. Wilkinson on site for weekly effluent sample.

MH-1: 01974630.
MH 2: 00350920
FS: 145
MeTer: 03940200

Manhole #2 high sump Level Light is still on.

T.W. Turns system on manually:
Left Filter guage - 10 psi
Right Filter guage - 16 psi
Filters not changed this week.
10:15 - T.W. off site to L.S.L.

LC

and Influent Line

05/29/08 MH-2 Repair/Maintenance activities
weather: Windy, warm, clear
0815 Lindsay Charniga (ENSR) on-site
Pete Pelletier (ENSR O&M group) and Andy Pickard (Paragon) already on-site
~~0825~~ LC
0825 LC John Jon Dziedzic and Mike Venditti (Paragon) on-site
Vac. truck not yet on-site
0830 Review Health & Safety Plan; pre-entry briefing Discuss
Andy and John are already familiar with plan; Mike reviews HASP
0850 Bruce Reynolds (Paragon vac. truck operator) arrives on-site
He has read HASP previously; perform pre-entry briefing w/ Bruce
0855 Pete and Andy proceed to remediation system to review the control panel, etc. and perform lockout/tagout (took photos of control panel, etc.)

LC

05/29/08 MH-2 Repair/Maintenance

0905 Vac. truck begins pumping from MH-2; capacity of vac truck is 3,000 gallons

Paragon estimates that approx. 8,000 gallons of water are in MH-2 currently

0930 First vac. truck load is discharged to MH-1. Truck operator says that MH-2 water appears to have a black tint, but no sediment/silt is visually entrained in this water

0935 MH-1 pump starts

Bag filter pressures:
Left - 4-6 psi
Right - 32-36 psi

0940 Bag filter needs to be changed (Right filter hits 36 psi → system shuts off)

Vac. truck finishes at MH-1; goes back to pump out MH-2 (bag filter high pressure light is on

05/29/08 MH-2 Repair/Maintenance

Andy from Paragon removes lock from control panel; turn system off / Change right hand bag filter

0955 Turn system on; Pete hits reset button

Filters: Left: 12 psi
Right: 16 psi

High bag filter pressure light turns off

L. Charniga re-locks control panel

1000 Vac. truck continues to pump second load; water level does not change much; inlet piping may be draining

(Took photos of manhole MH-2 before and during pumping)

1015 Paragon opens MH-2 (former) to south of MH-2; see small flow of water into this manhole from east (photos)

(15)

05/29/08 MH-2 Repair/Maintenance

1020 Second Vac. truck load travels to MH-1 to discharge water

1020 Scott Matthews from Synapse on-site; ENSR & Paragon review site activities that have occured thus far; discuss system and influent line/pump details with him
A larger pump will likely not be able to be used due to power supply issues
Mr. Matthews states that Phil Waite of DEC is meeting w/ Synapse on-site today (SPDES sampling) and may stop in (MW-17?)
Opened Monitoring well adjacent to MH-2 to see what the water level is; no water level meter available; use a plastic measuring tape to estimate; water [~11.5 ft from TOC to bottom] Rete-tape stops @ 2ft; ~1ft. end of tape

1035 Vac. truck begins pumping of third load from MH-2

Keith 315-481-4119

05/29/08 MH-2 Repair/Maintenance

1105 Other staff from Synapse arrive on-site (Brian Macrae, Roger Creighton, Paul) for a meeting with DEC

Vac. truck finishes with third load of water from MH-2; discharges load into MH-1

Synapse suggests plugging pipe that connects MH-2 to former manhole 2.

1120 CO/LEL meter - Mike Confined Space
RAE Systems LEL:3 H2S:0 meter
CO:1 (and) Oxy:20.9

Per Andy of Paragon: Clean-out and check valve are just inside building, in 3" pipe (as opposed to 1.5" pipe between MH-2 and building)
Inform Brian Macrae that DEC ~~Closed~~ SPDES inspection is June 3rd

05/29/08 MH-2 Repair/Maintenance
Pete: multimeter - LEL: 0; CO: 0; Oxy: 20.9; H2S: 0
~1135 Andy enters MH-2; easternmost junction box has water in it (not watertight); Andy reviews wires in junction box (photos)

Vac. truck continues to remove water from MH-2
1150 Stop suction from truck per Andy, there isn't much silt/sediment at bottom of MH-2
Paragon pulls floats from MH-2 and wipes down (photo)
1155 Pete Pelletier heads back to control panel for instructions from Paragon
Paragon wipes down upper wiring of floats
Bruce sets vac. truck hose into former MH-2 to remove some of the water flowing into MH-2

High filter pressure alarm goes off - Change bag filters (primary - right)

05/29/08 MH-2 Repair/Maintenance

~1217 @ ~~1220~~ Reset system;
(Secondary) left hand filter: 12 psi
(primary) Right hand filter: 18 psi and climbing

Stay with system; bag filter (primary) pressure is climbing and shutting down very quickly

1221 System shuts off; high filter pressure indicator
Change filter (primary - right)

[Speak with Dan Shearer (and Pete Pelletier speaks with Dave Malone of ENSR O&M group) regarding bag filters and whether pumps 3 & 4 for MH-2 can be run with the rest of the system off]

1245 Pete Pelletier and Paragon (at MH-2) instruct Lindsay Chemiga

05/29/08 MH-2 Repair/Maintenance

(at control panel) when to turn on Pumps 3 and 4 by hand; per Pete P., high/low level settings for Pumps 3 and 4 appear to be reversed

Take photos of bag filters (2); red-brown material caked along inside of filters due to entrained material from MH-1; Petroleum-like odor

1300 Due to presence of water within junction box, Work is temporarily stopped until Project Manager speaks with Health and Safety manager or Dave Macone

Control panel and breaker box are locked out by Pete P. with locks from Paragon (control panel) and both Paragon and ENSR (breaker box)

Per Andy P. from Paragon, Pump 3 does not work (gurgles),

05/29/08 MH-2 Repair/Maintenance

while Pump 4 appears to work

~1315 Pete P. off-site for lunch; 1330 Pete P. on-site

1340 Speak with Dan Shearer regarding work; stop work due to electrical safety issues

Dave Macone will (cc) spoke with Pete Pelletier; Pete will pull pumps and take them back to his office to test their functionality

1400 Pete P. off-site to buy totes to put pumps 3 & 4 in

Paragon (Mike V.) enters MH-2 to meter airspace:

LEL: 0
CO: 0
Oxy: 21%
H_2S: 0

disconnect piping to Pump 1? (nameplate says "1") (should be Pump 4)

Wipe down pump 1

Pull other pump and piping: (Pump 2?) 1-2 zipties were stuck in the pump inlet (propeller), debris in pump → should be Pump 3 - may have caused failure

05/29/08 MH-2 Repair/Maintenance

Per Andy P., Pumps are labeled on Junction box as 1 & 2

Pull vac. truck hose ≈ 2,300 gal. in ~~first~~ ④ Fourth vac. truck load (≈ 11,000 gal. in total pumped from MH-2 and former MH-3

1435 Pete P. back on-site; pumps are placed in separate totes and labeled

Floats are placed back into MH-2 (mounted to a pipe) but not secured (just with 1 ziptie) Pump piping and chains moved to back of building within cage (next to wall, near trench drain)

Paragon says that it will take 2 weeks for new pumps to be delivered; confirm w/ Dan Shearer that pumps should be ordered by Paragon

05/29/08 MH-2 Repair/Maintenance

~1445 Paragon pumps contents of Vac. truck into MH-1; level in manhole evened back out to a similar level as before pumping in the 2,300 gallons, even though system is turned off

check ~~Change~~ primary bag filter - clean due to system not running

1508 Turn system on (Pete P.) Left hand (secondary) filter: ~4psi

1510 Right hand (primary) filter: climbing [Paragon off-site] toward 36 psi

1513 Turn system off before it reaches 36 psi

Change bag filters (both)

1528 Turn system back on Primary - climbing; secondary - ~10psi

1532 Turn system off; Change primary from ENSR Syracuse on site with supplies

1540 Keith

1543 Turn system back on

1546 Turn system off; Change ~~primary~~ both bag filters

05/29/08 MH-2 Repair/maintenance

1602 Turn system back on

1607 Turn system off - high filter pressure indicator lights

Change primary filter

1612 Place spent, dried filters in drum closest to air stripper

1617 Turn system back on

1620 Turn system off before primary filter pressure reaches 36 psi; change primary filter

1630 Turn system back on

1634 Turn system off before primary filter pressure reaches 36 psi; change primary filter

1645 Speak with Dan Shearer; we should perform monthly sampling, except for MH-2, today

05/29/08 Monthly sampling

Left { MH-1 01996320 (Perm1)
Left { MH-2 0 0350920 (Perm2)
Right { FS 223 (Perm1) RST7 (cc)
Right { Meter 03961300
Right { System 04320568

1720 Sample CP effluent; water looks orange in color

1725 Sample CP Influent #1

1740 Change both bag filters again

1751 Turn system on briefly

1752 Turn system off

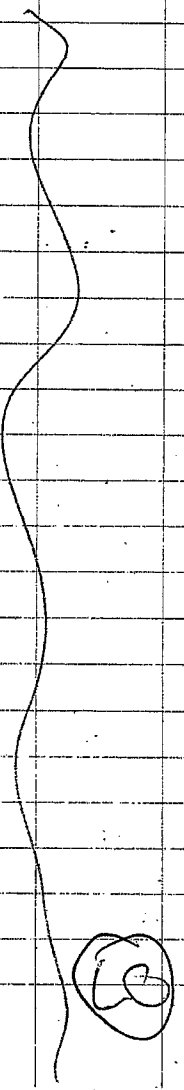
1755 Attempt to re-sample effluent; same orange color

Will submit the first effluent sample taken at 1720

1800 Will not sample MH-2 influent due to that portion of system being down

1800 Pete Pelletier locks out system when it is off; Pete P. off-site

05/29/08 Monthly sampling
1825 Lindsay Charniga and Keith Neijstrom off-site



06/25/08 GTS Cleaning/Repairs

1110 L. Charniga (LC) (ENSR) ARRIVES on site
(PP) Pete Pelletier (ENSR) and Don Gilbride (Gilbride Electric) already on-site
Weather: rainy, cool, 60s

Pete Pelletier has been on-site since Tuesday 6/24/08 performing cleaning and maintenance activities; changed primary bagfilters once on 6/24
MH-2 currently being pumped of water; water pumped into frac tank near MH-1 location
1130 Pete Pelletier off-site for maintenance pump platform
1130 L. Charniga changes bag filters in GTS cage in order to run system and pump down frac tank (MH-1, MH-2 and Equalization tank all read high sump levels on control panel)
1150 Start running air stripper and Equalization tank to pump EQ tank down in order to pump some of

06/26/08 GTS Cleaning/Repairs

Temporary frac tank water in and run water through system

1150 Pete Pelletier back on-site; runs hose from Frac tank to EQ tank in order to treat settled water

1157 EQ tank pumps shut off manually due to reduced level in tank; bag filter pressures were holding at <20 psi

Start trash pump running from frac tank into EQ tank (EQ tank's air stripper set on auto)

≈1230 During pumping out of FRAC tank, groundwater treatment system could not keep up with trash pump and the equalization (EQ) tank overflowed into treatment area containment (during brush clearing) LC immediately turned off treatment system and trash pump

≈1300 Changed bag filter (primary) LC pumped down EQ tank by hand then pumped floor sump out

06/26/08 GTS Cleaning/Repairs

by hand until the water had cleared from the containment

1425 LC Removed trash from fenced treatment area and hosed down floor to clean

1610 LC Runs treatment system and Temporary Frac tank intermittently throughout the afternoon in order to treat the majority of water within the FRAC tank (from MW-2) and keep the EQ tank level down Run trash pump approx. 10-15 minutes at a time (turned off at 1625 during this pumpout)

1630 Floor sump appears to stop working, even when on "HAND". Determine that sump pump digital readout is showing no flow, but analog "RunTime" meter continues to move forward, and water level in floor sump drops (OK)

06/26/08 GTS Cleaning/Repairs

1630 LC turns system off; high bag filter pressure - change primary filter

1650 Turn system back on continue cleaning activities and brush clearing outside

1700 LC discovers that filter high pressure light is on; Shutdown system and change primary bag filter

1720 Gilbride and PP test pump floats ~~(new)~~ (old) in MH-2

1730 LC continues running system, emptying frac tank, cleaning treatment area and clearing brush near SPDES outfall/ MH-1 and building

2115 Site cleanup; PP and Gilbride finish up for the night due to darkness

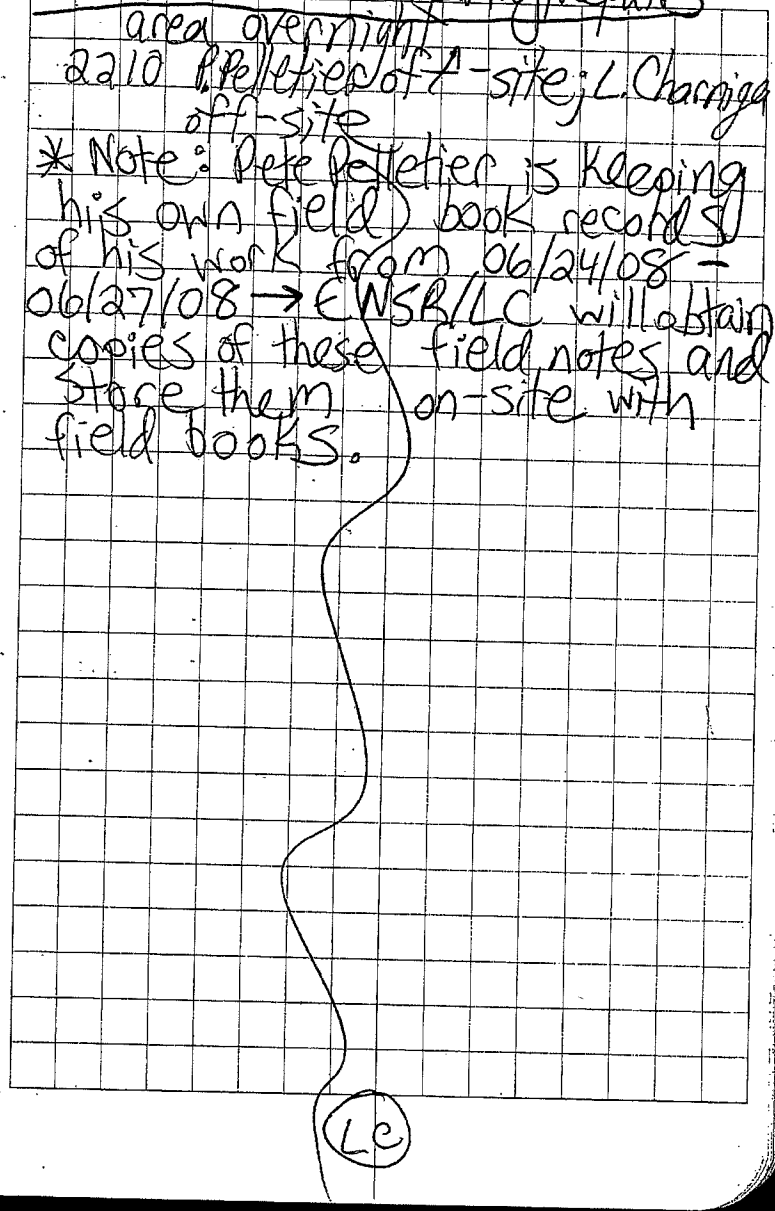
≈2150 Don Gilbride off-site; EWSR shutsdown system and puts equipment into fenced

06/26/08 GTS Cleaning/Repairs

area overnight

2210 Pelletier off-site; L. Charniga off-site

* Note: Pete Pelletier is keeping his own field book records of his work from 06/24/08 - 06/27/08 → EWSR/LC will obtain copies of these field notes and store them on-site with field books.



Monthly sampling and
06/27/08 GTS Cleaning/Repairs

0940 L. Charnigo (LC), ENSR arrives on-site. Pete Pelletier (PP) of ENSR and Don Gilbride of Gilbride Electric already on-site

New pump floats have been installed in MH-2 and electrical system/pump setups (pumps 3&4) have been checked

Weather: overcast, 70s, warm

0955 L.C. goes to treatment area within building to pump down EQ tank through the GTS and review site documentation

1020 MH-2 pumps are turned on and flow begins to enter EQ tank at ≈ 14-16 GPM. Pumps appear to be running properly. PP and Gilbride remain at MH-2 in order to ensure that pump floats are working properly.

(LC)

Monthly sampling and
06/27/08 GTS Cleaning/Repairs

1055 "Overload Tripped in M.S. Panel" indicator light turned on and Pump 3 shut off. Don Gilbride re-set switch in electrical fuse box

1105 Bag filter high pressure indicator light turns on; Shutdown system and change primary bag filter

1115 Restart system

1200 L.C. clears brush around MH-1

1230 Collect sample of ~~Effluent~~ Influent #2 (from MH-2 intake line). At the time of sampling, pump 3 was not running properly due to issues with functionality; Pump 4 is currently operational.

(2c)

Per Don Gilbride: MH-1 has galvanized junction boxes secured to roof of manhole, have

06/27/08 Monthly sampling and GTS cleaning/repairs

multi-pin outlets; floats and pumps are plugged into junction boxes; MH-1 appears to be working properly

MH-2: Splices in wires have been coated w/ weather proof compound (wires all are corroded within the coating insulation; Gilbride repaired/cleaned as much of the wires within MH-2 as possible. However, the wires are likely damaged (corroded) toward the building to south; wires should be ~~c~~. Could not replace all boxes. Two junction boxes are in each manhole (MH-2A and MH-2B); replaced one junction box (spliced one), but did not replace other 3.

Clean Harbors on-site to empty and clean FRAC Tank since ~1/00 (John Potts, Rich Ustolka) have been

06/27/08 Monthly sampling and GTS cleaning/Repairs

Metering for sampling event:

1320 MH-1: 01996328
MH-2: 00352072
meter: 0397200
system: 04331637
FS: 1007

1320 MH-1 and MH-2 had both been pumping into EQ tank; High bag filter pressure indicator light turns on; change primary bag filter

1330 Turn system back on

1335 Collect sample of Influent #1 (from MH-1 intake line)

1350 Collect sample of Effluent

Bill from Life Science Laboratories picks samples up at site

1350 High bag filter pressure; shut system down & change primary

1400 Turn system back on

Monthly sampling and GTS cleaning/Repairs

06/27/08

system turns off; change primary bag filter and secondary bag filter

1430 Turn system back on

1435 Clean Harbors begins pumping out 2 full compartments of frac tank with a prime pump (MH-1 pumps 1 and 2 are currently off in order to allow for space in EQ tank for FRAC contents) (Leave MH-2 pump 4 on; pump 3 off)

1500 Turn system off → high bag filter pressure indicator

LC Change primary filter

1510 Restart system; pump down EQ tank on auto

Pete Pelletier locks out MH-2 Pump 3

1510 Pete Pelletier and Don Gilbride off-site

1515 Turned system back on to pump out FRAC tank

1535 EQ tank nearly full; turn off prime pump.

Monthly sampling and GTS cleaning/Repairs

06/27/08

1535 Pump down EQ tank

1550 Bag filters high pressure - change primary

1555 Restart system

1605 FRAC pump on

LC ~~1615 Change bag filter (primary)~~

1620 FRAC pump off (full EQ tank)

1625 Change bag filter (primary)

1630 Restart system

1650 Turn off system; change bag filter (primary)

John and Rick from Clean Harbors off-site; Mike Fagan and Darrell Osborn, of Clean Harbors, came in at around 1630 to cover for them

1700 Restart system; pumping of FRAC tank continues

1745 Turn system off (high bag filter pressure); change primary & secondary filters

1805 Restart system

1830 Turn off FRAC tank pump (EQ tank approaching full at ≈ 2300 gallons)

LC ~~1835~~

1835 FRAC Pump on

LC

Monthly Sampling and GTS Cleaning/Repairs.

06/27/08

≈1900 FRAC pump off-tank mainly empty, only a small amount of water and sludge remain at the bottom

1920 Set Pumps 122 (mH-1 pumps) to "Auto" → currently there is a manhole 1 High Sump level indicator light on.

Clean Harbors sets up Vacuum tank (trailer mounted) in order to pump out remainder of fluid in FRAC tank

2000 Continue to pump out mH-1 into system.

Clean Harbors states that there may be too much water/sludge mixture to fit into vacuum tank and 5-55 gal. drums. Mixture should not be pumped into EQ tank - mostly sludge.

06/27/08 GTS Cleaning/Repairs

Speak w/ Dan Shearer, Dave Macore

≈2030 Clean Harbors pumps out as much sludge/water from bottom of frac tank as possible, while rinsing inside of tank (rear compartments first)

Inside of frac tank is rusted from top to bottom

2135 Clean Harbors finishes cleaning out and pumping Rain for Rent's FRAC Tank

All waste fit into 500-gallon vacuum tank; no sludge/water mixture was placed into drums.

One drum moved into treatment room to house used bag filters; other 4 empty drums left on-site near mH-1

Site clean up

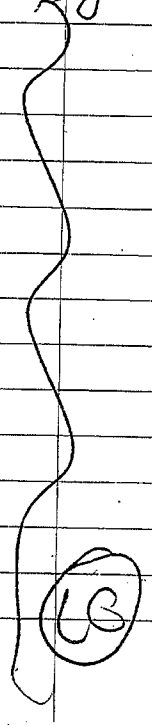
mH-1 continues to pump through system

06/27/08 GTS Cleaning/Repairs

2015 Clean Harbors (Mike and Darrell) off-site

Pump from MH-1 continued to run intermittently through system

2030 L. Charniga (ENSR) off-site



Weekly Sampling/

06/30/08 2008 Annual Inspection

0900 Dan Shearer (ENSR) and Lindsay Charniga (ENSR) on-site for 2008 Annual NYSDEC Inspection
Gary Babinec (Chicago Pneumatic) and Rich Coriale (NYSDEC) already on-site

0905 Bag filter high pressure indicator light on; change primary bag filter and restart the system

Weather: partly cloudy, humid, 80s

1015 Rich Coriale off-site; Gary Babinec off-site

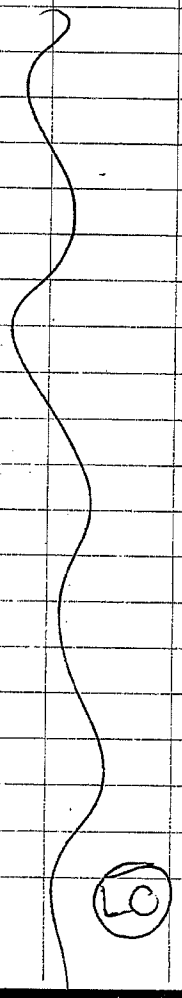
1015 Bag filter high pressure indicator light on; change primary and secondary bag filters and restart system

1030 Take meter readings:
MH-1: 01990328
MH-2: 00352596
meter: 03989400
system: 04348805
FS: 1007

06/30/08 Weekly Sampling/ 2008 Annual Inspection

1115 Collect sample CP Effluent

1125 L. Charniga and D. Shearer off-site



LC

07/02/08 Emergency call-out → bag filter change; MH-1 flow meter troubleshooting

1300 L. Charniga (ENSR) arrives on-site to respond to bag high filter pressure alarm and to clean MH-1 flow meter, which does not register flow through MH-1 despite operation of pumps

Weather: sunny, low 80s

1320 Change primary bag filter

1340 Close valve from MH-1 above flow meter and remove meter pinwheel; clean pinwheel of debris by rinsing

1355 Restart system (air stripper and EQ tank pumpout)

1400 Restart Pumps 1 and 2; flow meter registers flow between approx. 135-155 gpm

Pump 3 & 4 read at approx. 16 to 18 gpm

LC

Emergency callout: bag filter change; MH-1 flow meter troubleshooting

07/02/08

1405 Allow GTS to process some of the water within EQ tank, MH-1 and MH-2; observe bag filter pressures (GTS on "Auto")

1445 Turn off pumps 1 & 2 and pump EQ tank down by Hand

1540 Turn everything back on "Auto" and fill EQ tank; allow GTS to run

1655 Change both primary and secondary bag filters; restart system.

1715 L. Charniga off-site

LC

7/7/08

1345 Ron Rosso Jr onsite
I change both filters

MH-1 ~~02012934~~ 02013483
MH-2 00356356
Meter ~~04011500~~ 04013100
System 4370338
FS 1007

Filter pressures Left open Right 3 psi

1420 I sample MH-2 Influent

1440 I manually run EQ Tank pump 6B in order to be able to collect MH-1 Influent. All systems running I collect MH-1 Inf and then Effluent. I talk to LC on phone she wants me to stay onsite for 1 hour to make sure systems are running properly. all samples stored in cooler on ice.

1555 I change primary filter again and turn system back on.

1605 I leave site + lock gate

DJ

Effluent Sampling;

08/07/08 EQ Tank Pump Cleaning/Repairs

1215 Lindsay Chernigoff (ENSR) on-site
Brendon Mayer (ENSR) has been on-site since approx. 10:30

Weather: Mostly cloudy, 80s

B.M. has been looking at the EQ tank, EQ tank pumps (6A and 6B), and the GTS as a whole in order to determine why the EQ pumps stopped working in early July. (System was shut down on 07/10/08 remotely due to very poor (slow) EQ pump flow rates (less than 40 gpm)

1300 Restart system after Brendon modified (lowered) the maximum flowrate of the Variable Frequency Device (VFD) and changing both bag filters (38 Hz, ≈80 gpm)

Pumps 1, 2 & 4 are on - Pump 3 locked out

Effluent Sampling

08/07/08 EQ Tank Pump Cleaning/Repairs

EQ Pumps - release air in pumps by loosening screens at the back of each (bag filter side) to let excess air out

≈1300 Collect bagfilter sample

1315 Problem with air in EQ tank pumps occurs again after system switches from utilizing Pump EQ 6B to Pump EQ 6A during pumping down of EQ tank

1400 Tank Pumps down fine; GTS appears to be operating properly.

EQ tank is pumping down at approximately 60-80 gpm

→ VFD is operating at >45.00 Hz (VFD 1)

1420 EQ tank flowrate now approx. 45 gpm (should be 60 gpm or greater)

08/07/08 Effluent Sampling; EQ Tank Pump Cleaning/Repairs

B.M. Contacts pump manufacturer (Grundfos)

1445 Voltmeter Readings → EQ Tank Pump B

7.9-8.0 59 GPM ← Viewing A/S effluent flowrate on control panel

8.0 (7.9-8.1) 50 GPM

7.9-8.0 40 GPM

Power to pump isn't changing

Plug voltmeter directly into EQ6B box:

1935 32 GPM (A/S effluent)

~~1935~~ LC

The issue does not appear to be with the VFD.

~~244~~ LC

≈1500 B.M. checks inside air stripper (at top - looks okay)

Change primary bag filter (high pressure)

1530 Pump EQ tank down all the way (to Low-Low) by hand; restart system and allow to run; A/S effluent at 100-130 GPM.

08/07/08 Effluent Sampling; EQ tank pump cleaning/repairs

1540 Collect Sample CP Effluent

readings: MH-1: 02039733

MH-2: 00358596

FS : 1007

Meter: 04038300

System: 04383473

1650 VFD1 at >48.23 Hz

System has run through several cycles without issues

1700 L. Charniga, B. Maye off-site

LC

8/13/08 R. Russo onsite 9:00 I change both bag filters.

upon arrival MH-1 02064760
MH-2 00360590
FS 1007
Meter 4061600
System 4398532

939 Flowrate while pumping down eq tank ranges between 108 gpm + 121 gpm. Tank pumps down to ~980 gallons. I reset panel - tank fills up and start to pumping down - I turn sump pumps off 1, 2 + 4. Switch VFD to 60 Hz

10:15 EQ tank pumping down 148.4 gpm bag filter pressures 16 primary, 12 secondary pump flows say 131.9, 146.2

11:00 Pipe at bottom of tank now at 45° angle (not 90° straight up-down). I turn everything back on auto + reset. Tank fills, EQ pumps 6A + 6B turn on Flowrate 152.9, 147.8

11:10 Bag filters #1 16, #2 12
flows 143.5, 145.9 gpm

1130 EQ Tank Reaches HIGH level pumps 1, 2, 4 shut off
Flow pump 6A = 147.8 gpm, Air Stripper blower still functioning.

1140 EQ tank pumps down, once it reaches low level pumps 1, 2 + 4 turn back on - system seems to be operating properly. Readings now are
MH-1 02072463
MH-2 00361452
FS 1007
Meter 4070200
System 4407920

1145 I start monthly sampling

1200 Sampling complete. I go get ice for cooler

1300 Manhole 1 High Sump light is off
Manhole 2 still has High sump level.

1330 I reset panel after seeing pump 2 has shut off - Both Manholes 1 + 2 High sump lights have shut off.

1330 I change the primary filters. All switches on auto except for pump 3 (off).

1345 I leave site. Drop samples off in Syracuse
Gate is secure - Systems turns back on as I'm leaving - Air Stripper Blower.

8/22/08

17:15 DM Shearer onsite.

Readings: MH 1: 02072463 g

MH 2: 00422875 g

FS: 1007 g

Meter: 04173090 g

System: 4519612 g

17:21 Collected effluent sample (pH)

17:23 Collected effluent sample (SVOCs)

17:40 Blower off.

System cycles appear to have slowed due to drier weather.

17:58 DMS offsite.

[signature]

08/29/08 Weekly Effluent Sampling, MH-1 Flow meter cleanout

2200 Lindsay Charniga (LC) of ENSR arrives on-site

2220 Change both bag filters (system not currently running)

Readings: MH-1 = 02072463

MH-2 = 00455289

FS = 1007

meter = 04221106

system = 04571913

2240 Clean MH-1 Influent line flow meter (pinwheel)

2250 Start system [Air Stripper, Pump 1 (MH-1)] on "HAND" to see if flow total changes on control panel

2251 Pump 1 did not register flow; set Pump 2 on "HAND," pumped at 7-12 GPM for 1-2 minutes.

08/29/08 MH-1 Flow meter cleaning
Weekly effluent sampling
2253 MH-1 no longer pumps influent when on manual ("HAND")
2300 Collect sample of effluent (Run air stripper, EQ tank pump on manual intermittently)
2315 L. Charniga off-site

LC 08/29/08

09/05/08 Monthly Influent and Weekly effluent sampling
1810 L. Charniga (ENSR) arrives on-site
Back door of facility (adjacent to remediation system) is locked and alarmed. enter Dodge-Graphics press building through side loading dock entrance
1830 Readings: MH1 = 02074038
MH2 = 00484533
FS = 1007
system = 04616354
meter = 04261900
No components of the system are running at this time. (automatically)
1854 Run MH-2 Pump #4 for a short period on "HAND" in order for new groundwater to run through MH-2 influent line
1857 Pump 4 is running based on analog "Pump 4 RunTime" meter (Hours), but Flow did

09/05/08 Monthly Influent and Weekly effluent sampling

not register on GPM or totalflow diameters

1920 Collect Sample of Influent #2 for VOCs, pH (water relatively clear)

1927 Utilize a pH test strip to determine approx. in-field pH: pH ≅ 6.0 S.U. [pH Test strips used: Macherey-Nagel 7.0 S.U. (color appeared in between) pH 1-12 strips]

The facility's weed whacker is stored against the wall directly beneath the MH-2 influent sampling port. A strong petroleum odor is present in this corner of the storage room.

1938 Return to remediation system cage; EQ Tank Pump 6A and Air Stripper are both running

Bag filters: (pressure)

Primary = 22 psi

Secondary = 12 psi

LC

09/05/08 Monthly Influent and weekly effluent sampling

1942 Run MH-1 pump #2 for a short period (flow in GPM only registered in range of 0-12 GPM)

1944 Collect sample of Influent #1 for VOCs, pH (water is yellowish-orange color with orange sheen/stained material)

→ Utilize a pH Test Strip to determine approx. in-field pH: pH ≅ 6.0 S.U. - 7.0 S.U. (color appeared in between the two)

1950

1954 Remediation system continues to run on its own

1956 Collect sample of Effluent for VOCs, pH (water is clear) [System turned off during sampling of VOCs]

2002 Utilize a pH test strip to determine approx. in-field pH: pH ≅ 7.0 S.U.

2010 L. Charniga off-site

LC

09/12/08 ~~Monthl~~ Weekly effluent Sampling

1915 L. Charniga (ENSR) arrives on-site

mH1 = 02075294
mH2 = 00511470
FS = 1007
System = 04657525
meter = 84299800

1940 Attempt to open mH-1 cover

2000 Turn Pumps 1 and 2 (mH-1) on hand; when pump 2 is on alone, max. gpm ≅ 15; When pump 1 and 2 were on together max gpm ≅ 40

2005 Collect effluent sample CP effluent

2010 pH Test strips; pH = 7.0

2015 L. Charniga off-site

(CP 09/12/08)

09/18/08 Weekly Effluent Sampling

1830 L. Charniga (ENSR) arrives on-site
weather: sunny, 70s

mH1 = 02077156
mH2 = 00538957
FS = 1007
System = 04702240
meter = 04341300

1850 Collect effluent sample CP effluent

1853 pH Test Strips: pH ≅ 6.5

1855 L. Charniga off-site

09/18/08 (CP)

09/25/08 Weekly Effluent Sampling

1240 L. Charniga (ENSR) arrives on-site

MH1 = 02078386
MH2 = 00565950
FS = 100'
System = 04742655
meter = 04378300

1305 Change both primary and secondary bag filters

1335 Collect Sample C@ Effluent

1345 Collect pH test strip values:
pH = ~6.0-6.5 5.4
(2 strips taken)

1400 Attempt to open manhole MH-1 with manhole hook and crowbar.
Take multiple photos of inside of MH-1 in order to determine

09/25/08 Weekly Effluent Sampling

the amount of water/water level within MH-1.

the majority of a

1430 Move small pile of asphalt pieces and other debris (took photos) near the SPDES effluent location on the slope to the stream. Place debris in a pile at the top of the slope, near rear driveway, with a shovel.

1515 L. Charniga off-site

09/25/08

LC

10/1/08 Weekly Effluent Sampling and Drum Pickup

1030 L. Charniga (ENSR) on-site Kelly from Clean Harbors is already on-site. Seven (7) waste drums leftover from June 27, 2008 cleanout (of the Frac) weir tank used to pump out MH-2) picked up for disposal. L. Charniga signs Bill of Lading for drums

1040 Clean Harbors off-site

1050. Groundwater Treatment System is running; Equalization tank is at a high level and indicator lights for MH-1 high sump level, MH-2 high sump level and EQ tank high sump level are lit. (However, EQ tank pumps not currently running)

(CC)

10/1/08 Weekly Effluent Sampling and Drum Pickup

MH1 = 02078612
MH2 = 00571946
FS = 1007
System = 04750096
meter = 04385200

1115 Run EQ Pump 6A by hand to pump EQ Tank down and run some water through GTS

1140 Collect sample CP Effluent

1143 Collect pH test strip values: pH ≅ ~ 6.5 S.U. (2 test strips taken)

1150 Contact Life Science Labs to further discuss sample collection and analysis in anticipation of bag filter disposal

(LC)

Weekly Sampling and Drum Pickup

10/01/08

1217 Pump EQ Tank down by hand

Bag filter pressures:
Primary ≈ 23 psi
Secondary ≈ 8 psi

1232 High bag filter pressure indicator light turns on

Change primary bag filter; Reset and restart system; operation

1255 Speak with Tony Napoli of Clean Harbors regarding bag filter disposal

1305 L. Charniga off-site

1340 L. Charniga back on-site. Take several photos where waste drums had been. Bag filter high pressure indicator light is on

Change primary bag filter; reset and restad system

System appears to be functioning normally

Weekly Sampling and Drum Pickup

10/01/08

Bag (le) named (Filters 10/08)

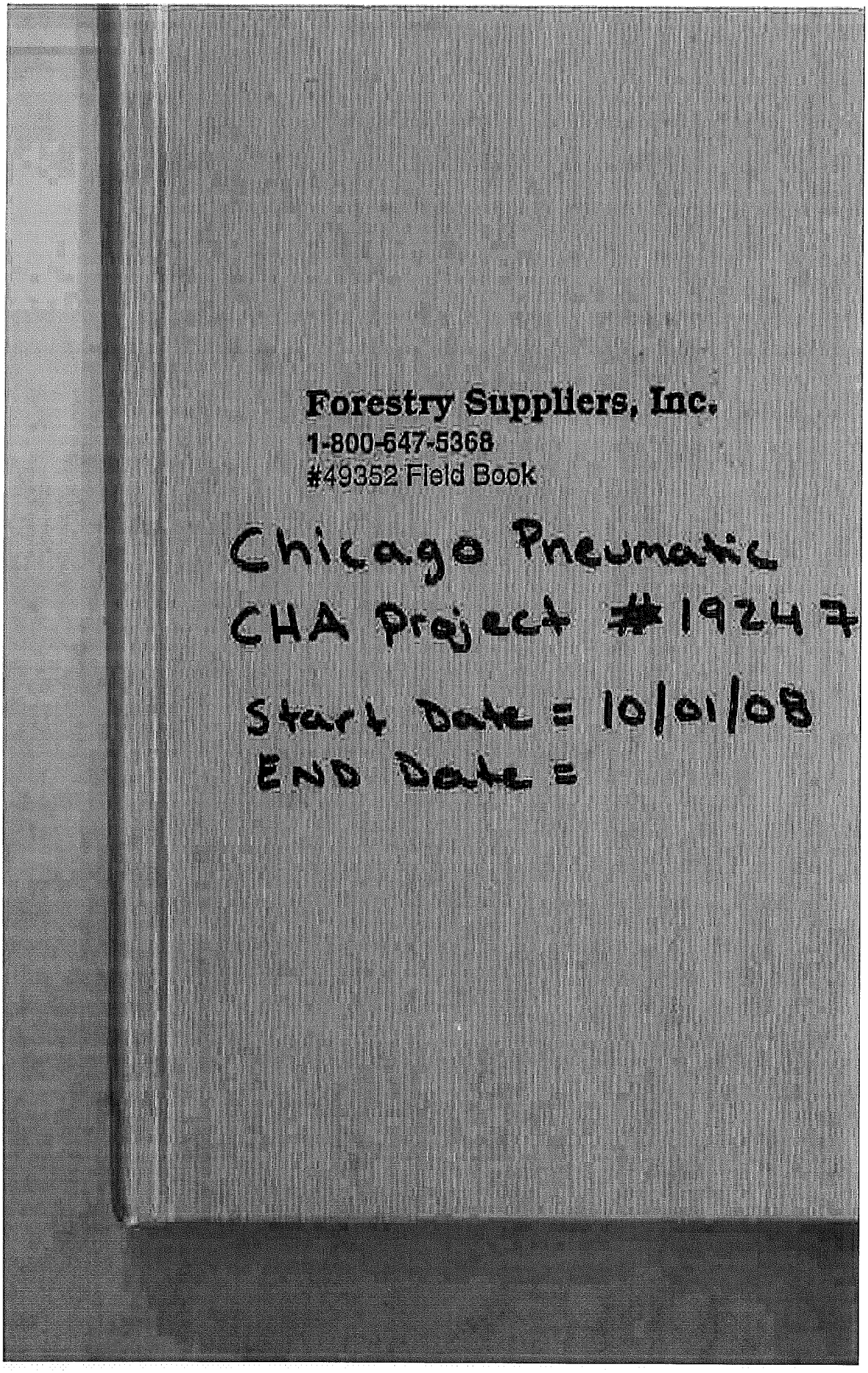
1420 Collect a composite sample of dried bag filters in drums to submit for analysis a disposal determination. Cannot open drum #1 (oldest); collect five squares each from drum #2 and Drum #3 (with utility knife)

1445 Bag filter high pressure; change primary filter; reset; restart system

Dried bag filter samples were placed in a 4-oz. clear glass jar with a plastic lid as each piece (square) was removed. Each square was cut from a different dried bag filter within a drum. (10 squares total were packed into jar) Drum # 3 contains the most recently used bag filters (June 2008); Drum #2 also contains bag filters from 2008.

Drum #1 states the start date as 1/2/07

1530 L. Charniga off-site.


Forestry Suppliers, Inc.
1-800-647-5368
#49352 Field Book
Chicago Pneumatic
CHA Project # 19243
Start Date = 10/01/08
End Date =

CONTENTS

PAGE NO.	REFERENCE	DATE

10/09/08

Weather - 60° sunny — D. Beach, L. McElreavy

6900 onsite

- check system = OK
- pump 3 is off. - reason unknown
- collected system samples
  - MH-2 @ 10:45am
    - pH = 6.99
  - Effluent @ 11:05am
    - pH = 8.22
  - MH-1 @ 11:25am
    - pH = 6.95
- Brass meter reading = 4,458,200 (4:30pm)
- EQ tank @ 1600 gallons

DB

10/15/08

WEATHER - 60° OVERCAST

08:30 AM on SITE

- check system - O.K.
- Verify Pump 3 is lockedout
  - Pump 3 is off @ contr. panel
- collect system samples
- volume in EQ TANK is ± 1200 gal
- check H_2O level in m.H.
- Brasa meter reading =
  4498,100
- H_2O level in mh 2 = ± 8 steps in mh.
  (last week ± 9 steps)

10/23/08

WEATHER: 50° Sunny

09:00 AM ON SITE

- CHECK SYSTEM - OK.
- PUMP 3 - OFF ON PANEL

- VOLUME IN EQ TANK = 1400 gallons

- BRASS METER READING =
  4,561,700 gallons

- COLLECT SYSTEM SAMPLES FROM EFFLUENT - 09:27 AM
  (HAD TO PUMP BY HAND) / D.B.

10/24/08

WEATHER 35° SUNNY

08:40 ON SITE:

SYSTEM IN ALARM

- EQ TANK LOW
- ≅ 1500 gal in EQ TANK - (?)
- MH1 HI MHZ HI ALARM
- PUMP M.H. 1 + 2 MANUALLY
- EQ TANK LOW ALARM OFF
- CONTINUE TO RUN SYSTEM TO CLEAR MH1 + MH2 HI ALARM
- BRASS METER 4562900

FILTER PRESSURE

$P_1 = 22$ $P_2 = 16$

- MONITOR SYSTEM

MH1 ALARM CLEAR @ 11:45 A

MH2 ALARM CLEAR @ 12:45

CHANGE P. BAG FILTER

10/24/08

FILTER PRESSURE @ 18 psi - 2 cycles of Eq Tank

System operating O.K.

OFF SITE @ 13:30

10/29/08

WEATHER: 20° snowing

2:00pm ON SITE

- CHECK SYSTEM - OK
- PUMP 4 - ON (LIGHT GREEN)
- VOLUME IN EQ TANK = 1900 gallons (water flowing into tank / probably from pump 4)
- BRASS METER READING = 4,645,000
- BLOWER ON @ 1412 (2:12 pm)
- COLLECTED SAMPLES @ 1420 (2:20pm)
- BAG FILTERS AT 22 psi D.B

11/4/08

- WEATHER 50° CLOUDY
- 8:30 ON SITE
- OBJECTIVE -
- CLEAN AREA TO REMOVE PAINT DEBRIS & DUST.
- SECURE WASTE THAT WAS LEFT BEHIND BY PREVIOUS CONTRACT. (3 DRUMS & FILTERS)
- COLLECT WEEKLY SAMPLES
- BRING METER READING 4,717,900
- CHANGE P. FILTER

OFF SITE @ 16:40

11/4/08

11/12/08

WEATHER - 30° SNOW
07:30 ON SITE
OBJECTIVE: HAVE SUBCONTRACTOR DISASSEMBLE & CLEAN AIR STRIPPER

L. McKENNEY - CHA
to CHECK OF — PARAGON ENV.

1. REVIEW H+S ASPECTS OF AIR STRIPPER DISASSEMBLY.
2. REVIEW LOTO PROCEDURES FOR AIR STRIPPER DISASSEMBLY

11:30 - 12:00 LUNCH BREAK

AIR TANK (#) CLEANED AND

BEGIN REASSEMBLY - 16:00

SYSTEM OPERATION 16:15 - REC CREW OFF-SITE.

COLLECT MONTHLY SAMPLES -

11/19/08

WEATHER 14° SNOW
08:30 ON SITE
CHECK STATUS OF SYSTEM
CHANGE P_1 + P_2 FILTERS
EQ TANK @ 1700 gal
COLLECT WEEKLY SAMPLES
~~LCS~~
REMOVE SOCK OUTFALL 03A
SHOW FOR MODIFICATION
OFF-SITE @ 11:00

11/19/08

11/25/08

Weather 30° cloudy
10:45am onsite

- 11:00am clean Harbor picked up 3 drums filled w/ air stripper non-haz waste.
- Checked system = o.k.
  - sump pump green light on when I arrived - means its operating
- EQ Tank = ~1800 gallons
- Turned on Blower @ 11:35
- Turned on EQ pump 6A @ 11:43 for system sampling - (by hand)
- Effluent sample taken @ 11:45am

Brass Flow Meter = 4896300

12/4/08 - continued

- EQ tank is filling faster than blower is pumping so before EQ tank reached 2,300 gallons (high level) I shut off pumps

- Waiting for tank to empty

- Bag filter high pressure alarm - at 10:50
  - I shut down system to change the filter

- Changed P-1 filter
- Started system up again

- MH-1 cleared around 11:00am

- MH-2 cleared @ 12:30

- changed filter-1 again
- changed filter-2

12/4/08 - continued

- System ok - all alarms off

- Filter 1 @ 18 psi
- Filter 2 @ 15 psi

Brass Flow meter = 4,990,600

OFFSITE at 13:45pm

Danielle Berard

12/3/08
Weather: 25° sunny
9:40 AM onsite w/ katie Flood

- Checked System = OK
  - sump pump on

- Brass Flow Meter
  ~~4983000 gallons~~
  4,983,000 gallons
- Air-stripper turned on 9:55am
- Samples taken from Effluent and MH1 @ 10:00 am
- EQ tank = 1800 gallons

- changed filter 1

- Filter 1 and Filter 2 = 20 psi

- Brass Flow meter at 10:35am
  4,984,400 gallons

D:B

12/4/08
Weather 30° rainy
onsite @ 10:00am

- System in alarm
  - MH1 / MH2 high sump level
  - EQ tank low sump level (EQ tank @ ~1000 gallons)
- Hand pumped MH-1 / MH-2 to fill EQ tank

Brass flow meter = 4,984,400 when I arrived.

- Cleared EQ low alarm
- kept system running (i.e. kept hand pumping MH-1 and MH-2)

- stopped manual pumping @ 10:24
  - MH-1 pumps 1+2
  - MH-2 pumps 4
  - sump pump
  } turned green on auto
- Tank @ 2,000 gallons → blower +

12/16/08

Weather ~ 30° rainy
onsite @ 9:30am

- Check system: OK.
  - MH-2 running (pump)
  - sump light on.
- EQ tank @ 1600 gallons
- changed P-1 Filter
- Brass Flow Meter =
  5,044,800 gallons
- Took samples from effluent at 10:15 am
- Filter pressure:
  P-1 = 18 psi
  P-2 = 15 psi
- system running when I left site.

DB.

12/17/08

Weather ~ 20° flurries
onsite @ 11:00 a.m

- check system: OK
  - MH-2 pump running
  - sump pump light on
- EQ tank @ 1700 gallons
- Air stripper on @ 11:26
- effluent pump on @ 11:31
- pH = 8.70
- samples taken at 11:31 am (from effluent)
- Brass Flow Meter =
  5,132,000 gallons
- Filter 1 ≈ 22 psi

DB.

12/23/08

Weather ~35° sunny
onsite @ 9:40 AM

- check system - ok
  - sump pump ON

- EQ tank @ 1800 gallons

- Turned on air stripper at 9:45am (to collect samples)
- Pumped by hand (EQ tank pump GAJ) at 9:50am
- Took effluent sample at 9:52am
  - pH = 8.75
- changed P1 + P2 filters / both running at @ 16 psi
- Brass Flow Meter = 5,197,600 gallons

DB

12/30/2008

Weather 20° snowing
onsite @ 10:00 am

- Check system = OK.
  - sump pump on

- EQ tank @ 15,00 gallons

- changed P-1 and P-2 bag filters. (Now P1 = 16 psi and P2 = 12 psi)
- Turned on air stripper at 10:32 am
- Pumped by hand at 10:40am
  - Took effluent sample at 10:40am
  - pH = 8.79
- Brass Flow Meter = 5,304,000 gallons

off site @ 11:00 am

DB

1/6/09

Weather ~ 20°C snowing
onsite @ 10:00 am

- check system = ok
  - sump pump on

- EQ tank @ 1400 gallons

- Pumped MH-1 by hand
  - took sample at 10:15 am
  - MH-1 pH = 7.63

- Air stripper on at 10:18 am
- Pumped EQ tank pump by hand at 10:25 am
  - took sample at 10:26 am
  - effluent pH = 8.52

- Took MH-2 sample at 10:40 am
  - MH-2 pH = 7.46

- Pressure of P-1 filter ≈ 22 psi
  P-2 filter ≈ 18 psi

- Brass Flow Meter = 5400800 gallons