



Remediation and Liability Management Company Inc.

**James F. Hartnett
Program Manager**

January 26, 2005

Gerald Rider, P.E., Chief
Operation & Maintenance Section
Division of Environmental Remediation
625 Broadway, 11th Floor
Albany, New York 12233-7014

Re: Ley Creek PCB Dredgings Site (Registry # 7-34-044)
NYSDEC Order on Consent Index # D-7-0008-97-06
2004 Annual OM&M Inspection Report

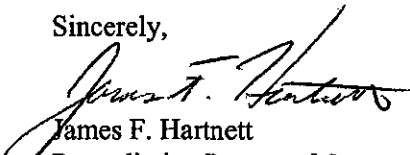
Dear Mr. Rider,

Enclosed please find documentation pertaining to the Operation, Maintenance, and Monitoring (OM&M) site inspections that were conducted at the Ley Creek PCB Dredgings Site (Site) in 2004. The OM&M site inspections were performed in accordance with the NYSDEC-approved Operation, Maintenance, and Monitoring Manual for the Site. The documentation enclosed consists of three letter reports, one each for the two site inspections and one for the wetland evaluation.

The deficiencies identified during the two site inspections were either addressed during the 2004 construction season or will be addressed in the upcoming 2005 construction season. The following deficiencies were addressed in 2004, which were documented in the site inspection letter report dated January 14, 2005: placement of stone in the eroded overflow spillway for CB-1, removal of heavy vegetation along the western end of the Site fenceline, and placement of fill in ruts and burrowing animal holes within the vegetative cover. The remaining deficiencies identified in the site inspection and wetland evaluation letter reports will be addressed by REALM during the upcoming 2005 construction season, as site conditions allow.

Should you or your staff have any questions regarding the contents of this annual OM&M inspection report, please contact me at (315) 463-2391.

Sincerely,



James F. Hartnett
Remediation Program Manager

Enclosure

cc: James Burke (NYSDEC)
Douglas Crawford (O'Brien & Gere)
Robert Nunes (USEPA)



O'BRIEN & GERE

September 30, 2004

James F. Hartnett
Remediation and Liability Management Company, Inc.
1 General Motors Drive
Suite 2
Syracuse, New York 13206-1127

Re: Ley Creek PCB Dredgings Site
August 2004 OM&M Inspection

File: 4966/34124 #2

Dear Jim:

The purpose of this letter report is to document the Operation, Maintenance, and Monitoring (OM&M) site inspection conducted on August 5, 2004 by O'Brien & Gere at the Ley Creek PCB Dredgings Site (the Site), located in Syracuse, New York. This inspection was performed in accordance with the NYSDEC-approved OM&M Manual, dated September 2001. Attached to this letter report are the OM&M checklist, inspection photographs, and site figures associated with the site inspection.

SITE INSPECTION

On August 5, 2004, an OM&M site inspection was performed at the Site. The inspection checklist along with the comments is attached. The inspection photographs are also attached along with a description of the photographs. The approximate locations of where the photographs were taken are shown in the attached site figures.

The areas of lacking or thinning vegetation observed during the August 2002 site inspection were seeded and fertilized by Royal Environmental, Inc. in the Summer of 2003 and have shown improvement of vegetation establishment since the October 31, 2003 inspection.

The designated wetland area was observed to have been mowed. Impact to this area as a result of the mowing will be evaluated during the wetland inspection that will be conducted in the Fall of 2004 by O'Brien & Gere.

The two areas of the site security fence that were observed to be damaged during the August 2002 site inspection (Figures 4 and 5) have not been repaired and should be repaired as soon as practicable.

Other observations of items that require action are as follows:

- Vegetative cover erosion: (Photograph 10, Figures 1 and 3). Two areas of erosion were observed within the CB-1 and CB-3 overflow spillways, which require repair.



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... and offices in major U.S. cities

- Burrowing animals: (Figures 2 and 3.) A woodchuck hole near MW-12 and the one observed in the June 2003 inspection, in the area of catch basin CB-3, require repair.
- Stone access road drainage: (Figure 2.) One area of the stone access road observed during the June 2003 inspection to have rutting and poor drainage, which was characterized by ponded water being visible within the stone access road, requires repair.
- Debris accumulation: (Photographs 3 and 7. Figures 1 and 3.) Debris was accumulated over the catch basin CB-1 grate, and the grate for catch basin CB-2 was fully blocked, thus restricting flow.
- Excessive scouring: (Figure 5.) The excessive scouring that was observed in the August 2002 inspection requires repair.
- Area requiring mowing: The vegetation around the catch basins, monitoring wells, utility poles, guy wires, and along the fence line requires mowing
- Vegetation within stone access road: A significant amount of vegetation was observed within the stone access road throughout Site and the stone access road turnaround at the eastern end of the Site.

RECOMMENDATIONS

Below is a list of recommended measures to address the observations during the OM&M inspection:

- Repair the damaged site security fence
- Repair eroded areas of the vegetative cover by placement of topsoil and subsequent application of seed and fertilizer
- Remove the woodchuck(s) from the Site, place topsoil in the holes, and apply seed and fertilizer
- Repair the area of rutting of the stone access road by placement of additional crushed stone and improve drainage of the stone access road by constructing small drainage channels to convey ponded water from the stone access road to Ley Creek. This could be performed by removal of less than 1 foot of vegetative cover material with subsequent replacement of crushed stone
- Remove the debris around catch basin CB-1 and catch basin CB-2 grates
- Repair the area of excessive scouring by removal of rip-rap, placement of compacted crushed stone to meet surrounding grade, and replacement of rip-rap
- Mow/trim the vegetation around all catch basins, monitoring wells, utility poles, guy wires, and along the fence line
- Remove vegetation from the stone access road and the stone access road turnaround
- Delineate wetland area with signage to discourage mowing of this area.

The next semi-annual OM&M inspection is scheduled to occur in the Fall of 2004.

James F. Hartnett
September 30, 2004
Page 3 of 3

If you should have any questions pertaining to the information presented in this letter, please feel free to contact me at (315) 437-6100.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.



Bradley A. Kubiak, P.E.
Project Engineer

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cc: Douglas Crawford, P.E.
Maureen Markert, P.E.

Inspection checklist

Date Performed: August 5, 2004			Weather: Sunny 70 F	
Site Name: Ley Creek PCB Dredgings Site			Inspector Name: Edwin B. Rahn	
Site Location: Syracuse, New York			Inspector Signature: <i>Edwin B. Rahn</i>	
Item	Task	Response		Comments
		Yes	No	
Vegetative Cover	Visually inspect surface conditions			
	1. Areas of settlement?		X	
	2. Areas of erosion?	X		Refer to Photograph 10 and Figures 1 and 3
	3. Areas where geotextile visible due to erosion?		X	
	4. Areas of slope instability?		X	
	5. Lack or thinning vegetation?		X	
	6. Presence of burrowing animals?	X		Refer to Figures 2 and 3
	7. Areas of damage?		X	
	8. Drainage problems?		X	
	9. Mowing required?	X		Mow around catch basins, monitoring wells, utility poles, guy wires, and along fence line
Access Road	Visually inspect conditions			
	1. Areas of settlement?		X	

Inspection checklist

Date Performed: August 5, 2004			Weather: Sunny 70 F	
Site Name: Ley Creek PCB Dredgings Site			Inspector Name: Edwin B. Rahn	
Site Location: Syracuse, New York			Inspector Signature: <i>Edwin B. Rahn</i>	
Item	Task	Response		Comments
		Yes	No	
Access Road	2. Areas of erosion?		X	
	3. Areas rutted or potholes present?	X		Refer to Figure 2
	4. Areas of damage?		X	
Surface Water Drainage	Visually inspect ditches, catch basins, etc.			
	1. Accumulation of debris?	X		Refer to Photographs 3 and 7 and Figures 1 and 3
	2. Excessive scouring?	X		Refer to Figure 5
	3. Areas of damage?		X	
Ground Water Wells	Visually inspect conditions			
	1. Casings secure and locked?	X		
	2. Areas of damage?		X	
Sanitary sewer access paths	Visually inspect conditions			
	1. Cracks in asphalt?		X	
	2. Manhole covers in place?	X		

Inspection checklist

Date Performed: August 5, 2004		Weather: Sunny 70 F		
Site Name: Ley Creek PCB Dredgings Site		Inspector Name: Edwin B. Rahn		
Site Location: Syracuse, New York		Inspector Signature: <i>Edwin B. Rahn</i>		
Item	Task	Response		Comments
		Yes	No	
Sanitary sewer access paths	3. Debris accumulating in access paths?		X	
Physical Site Security	<i>Visually inspect fences and gates</i>			
	1. Signs intact?	X		
	2. Fence breached?		X	
	3. Access gates locked?	X		
	4. Areas of damage?	X		Refer to Figures 4 and 5
<i>Note any additional comments:</i>				
Vegetation is established in the stone access road				
Vegetation establishment of repaired and seeded areas that was performed in Summer 2003 is improving.				



Photograph 1- View looking east from western end of Site



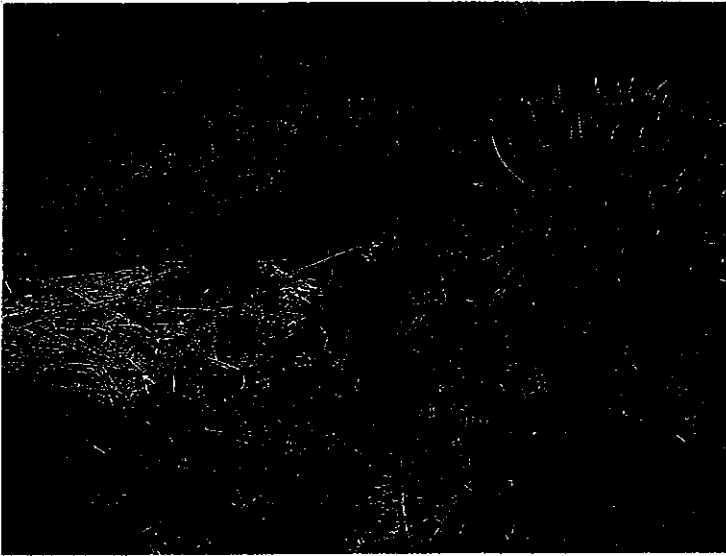
Photograph 2- View looking west down stone access road



Photograph 3- View of CB-1 and ponded water due to grate blockage



Photograph 4 - View looking east from CB-1 overflow spillway



Photograph 5- View looking east down stone access road



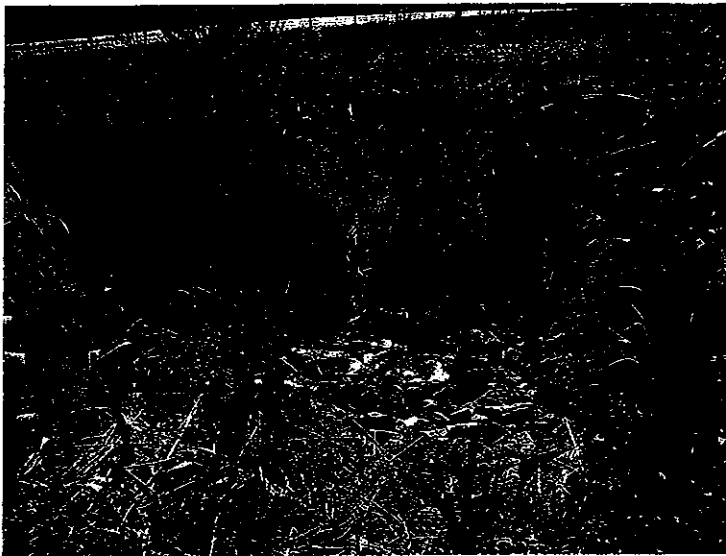
Photograph 6- View looking east from stone access road



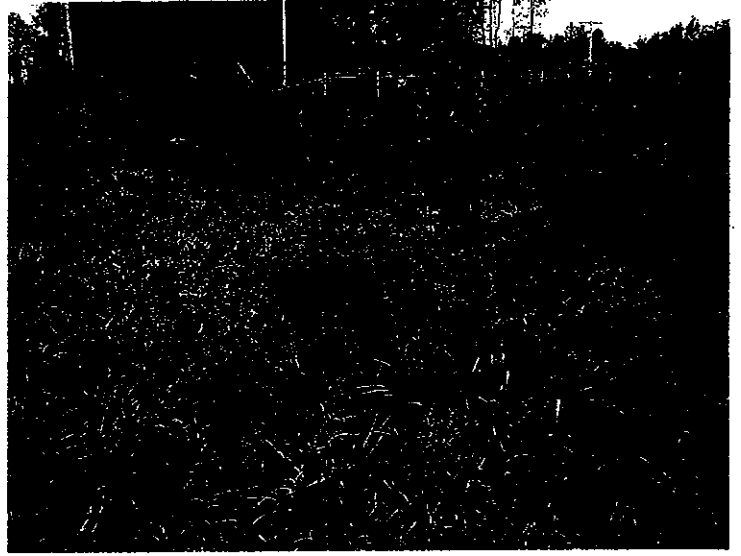
Photograph 7- View of CB-2 and ponded water due to grate blockage



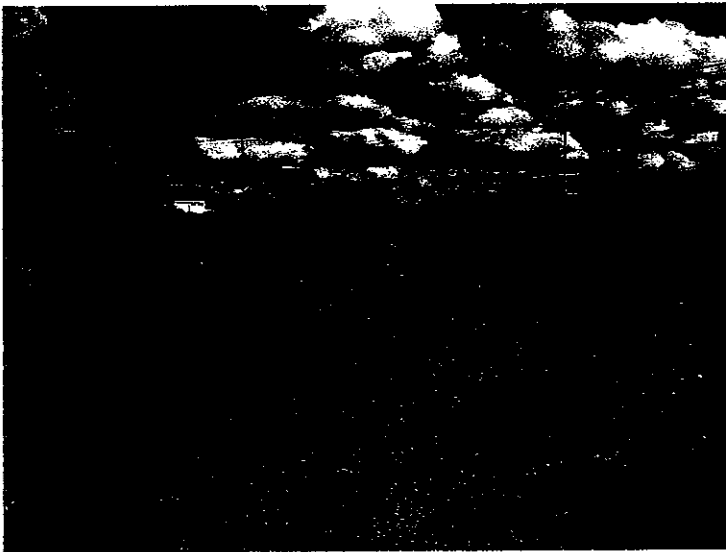
Photograph 8- View looking east from area east of MW-10



Photograph 9- View of area around CB-3



Photograph 10- View of area with erosion control fabric visible



Photograph 11- View looking east from stone access road



Photograph 12- View looking west from eastern stone access drive



Photograph 13- View of CB-4/003



Photograph 14- View of CB-5/004

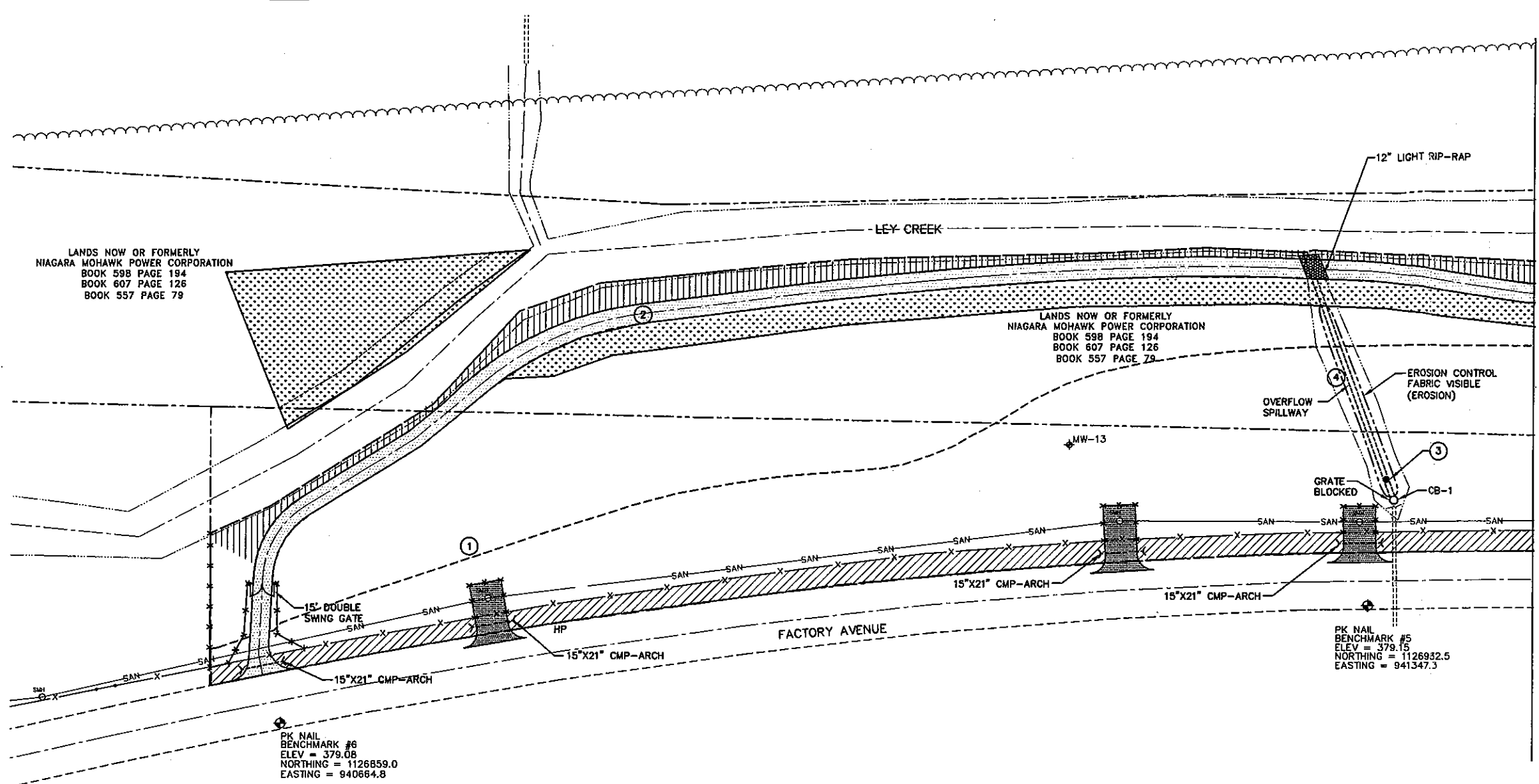


FIGURE 1

- LEGEND**
- SEEDED WITH CANARY GRASS
 - OVERHEAD WIRES
 - PROPERTY BOUNDARY
 - EDGE OF WOODS
 - UTILITY POLE
 - GUY WIRE
 - SANITARY SEWER
 - SANITARY MANHOLE
 - CATCH BASIN
 - SECURITY FENCE (SEE GENERAL NOTE 4)
 - PAVEMENT
 - GRAVEL ACCESS ROAD
 - LIMITS OF SOIL LOCATED ALONG FACTORY AVENUE RELOCATED BENEATH COVER SYSTEM
 - CATCH BASIN
 - MODIFIED MONITORING WELL
 - MONITORING WELL PRESUMED DESTROYED
 - ABANDONED MONITORING WELL
 - NEW MONITORING WELL
 - LIMITS OF EROSION CONTROL MAT
 - LIMITS OF COVER SYSTEM
 - LIMITS OF NON-WOVEN GEOTEXTILE
 - PHOTOGRAPH LOCATION

LEY CREEK PCB DREDGINGS SITE
SYRACUSE, NEW YORK
SITE REMEDIATION PROJECT

**AUGUST 2004
OM&M INSPECTION
PARTIAL SITE PLAN**



FILE NO. 4966.34124.012
SEPTEMBER 2004



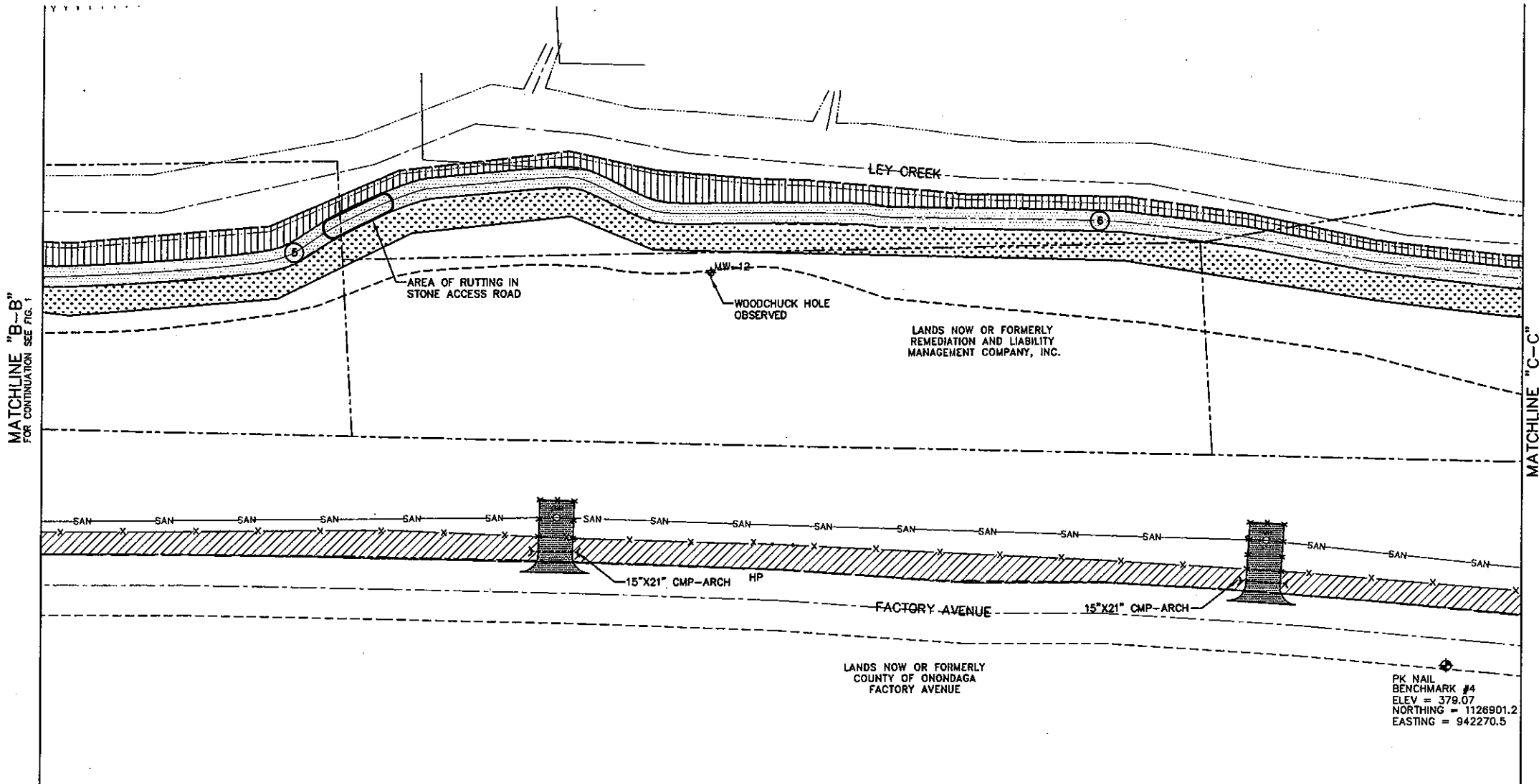
MATCHLINE "B-B"
FOR CONTINUATION SEE FIG. 2

LANDS NOW OR FORMERLY
NIAGARA MOHAWK POWER CORPORATION
BOOK 598 PAGE 194
BOOK 607 PAGE 126
BOOK 557 PAGE 79

LANDS NOW OR FORMERLY
NIAGARA MOHAWK POWER CORPORATION
BOOK 598 PAGE 194
BOOK 607 PAGE 126
BOOK 557 PAGE 79

PK NAIL
BENCHMARK #6
ELEV = 379.08
NORTHING = 1126859.0
EASTING = 940664.8

PK NAIL
BENCHMARK #5
ELEV = 379.15
NORTHING = 1126932.5
EASTING = 941347.3



MATCHLINE "B-B"
FOR CONTINUATION SEE FIG. 1

MATCHLINE "C-C"
FOR CONTINUATION SEE FIG. 3

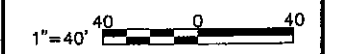
FIGURE 2

LEGEND

- SEEDED WITH CANARY GRASS
- OVERHEAD WIRES
- PROPERTY BOUNDARY
- EDGE OF WOODS
- UTILITY POLE
- GUY WIRE
- SANITARY SEWER
- SANITARY MANHOLE
- CATCH BASIN
- SECURITY FENCE (SEE GENERAL NOTE 4)
- PAVEMENT
- GRAVEL ACCESS ROAD
- LIMITS OF SOIL LOCATED ALONG FACTORY AVENUE RELOCATED BENEATH COVER SYSTEM
- CATCH BASIN
- MW-08G7C MODIFIED MONITORING WELL
- MONITORING WELL PRESUMED DESTROYED
- ABANDONED MONITORING WELL
- NEW MONITORING WELL
- LIMITS OF EROSION CONTROL MAT
- LIMITS OF COVER SYSTEM
- LIMITS OF NON-WOVEN GEOTEXTILE
- PHOTOGRAPH LOCATION

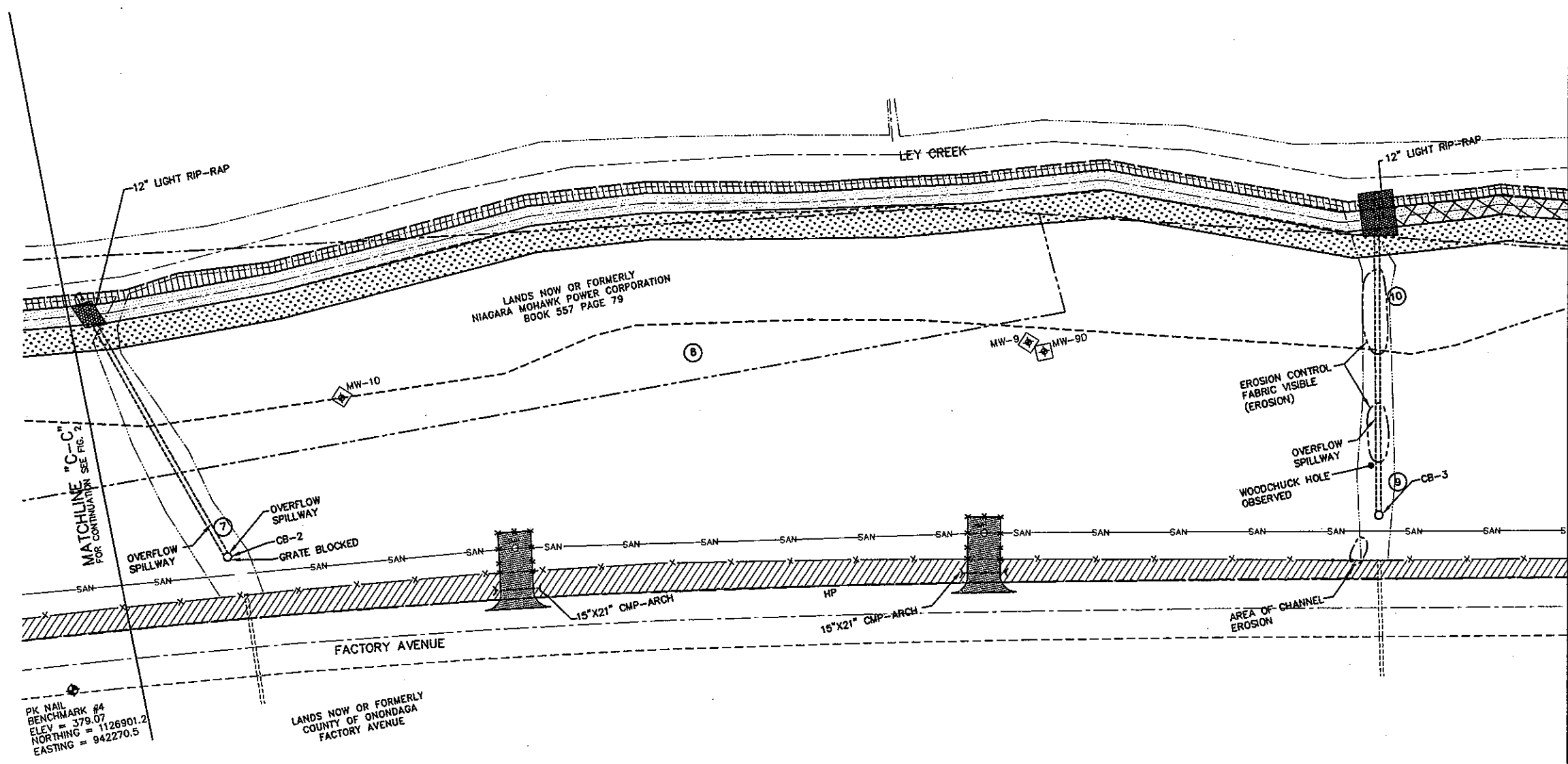
LEY CREEK PCB DREDGINGS SITE
SYRACUSE, NEW YORK
SITE REMEDIATION PROJECT

AUGUST 2004
OM&M INSPECTION
PARTIAL SITE PLAN



FILE NO. 4966.34124.013
SEPTEMBER 2004





PK NAIL
BENCHMARK #4
ELEV = 379.07
NORTHING = 1126901.2
EASTING = 942270.5

LANDS NOW OR FORMERLY
COUNTY OF ONONDAGA
FACTORY AVENUE

LANDS NOW OR FORMERLY
NIAGARA MOHAWK POWER CORPORATION
BOOK 557 PAGE 79

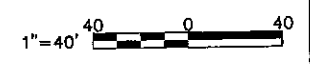


FIGURE 3

- LEGEND**
- SEEDED WITH CANARY GRASS
 - OVERHEAD WRES
 - PROPERTY BOUNDARY
 - EDGE OF WOODS
 - UTILITY POLE
 - GUY WIRE
 - SANITARY SEWER
 - SANITARY MANHOLE
 - CATCH BASIN
 - SECURITY FENCE (SEE GENERAL NOTE 4)
 - PAVEMENT
 - GRAVEL ACCESS ROAD
 - LIMITS OF SOIL LOCATED ALONG FACTORY AVENUE RELOCATED BENEATH COVER SYSTEM
 - CATCH BASIN
 - MODIFIED MONITORING WELL
 - MONITORING WELL PRESUMED DESTROYED
 - ABANDONED MONITORING WELL
 - NEW MONITORING WELL
 - LIMITS OF EROSION CONTROL MAT
 - LIMITS OF COVER SYSTEM
 - LIMITS OF NON-WOVEN GEOTEXTILE
 - PHOTOGRAPH LOCATION

LEY CREEK PCB DREDGINGS SITE
SYRACUSE, NEW YORK
SITE REMEDIATION PROJECT

AUGUST 2004
OM&M INSPECTION
PARTIAL SITE PLAN



FILE NO. 4966.34124.014
SEPTEMBER 2004



MATCHLINE "D-D"
FOR CONTINUATION SEE FIG. 3

MATCHLINE "E-E"
FOR CONTINUATION SEE FIG. 5

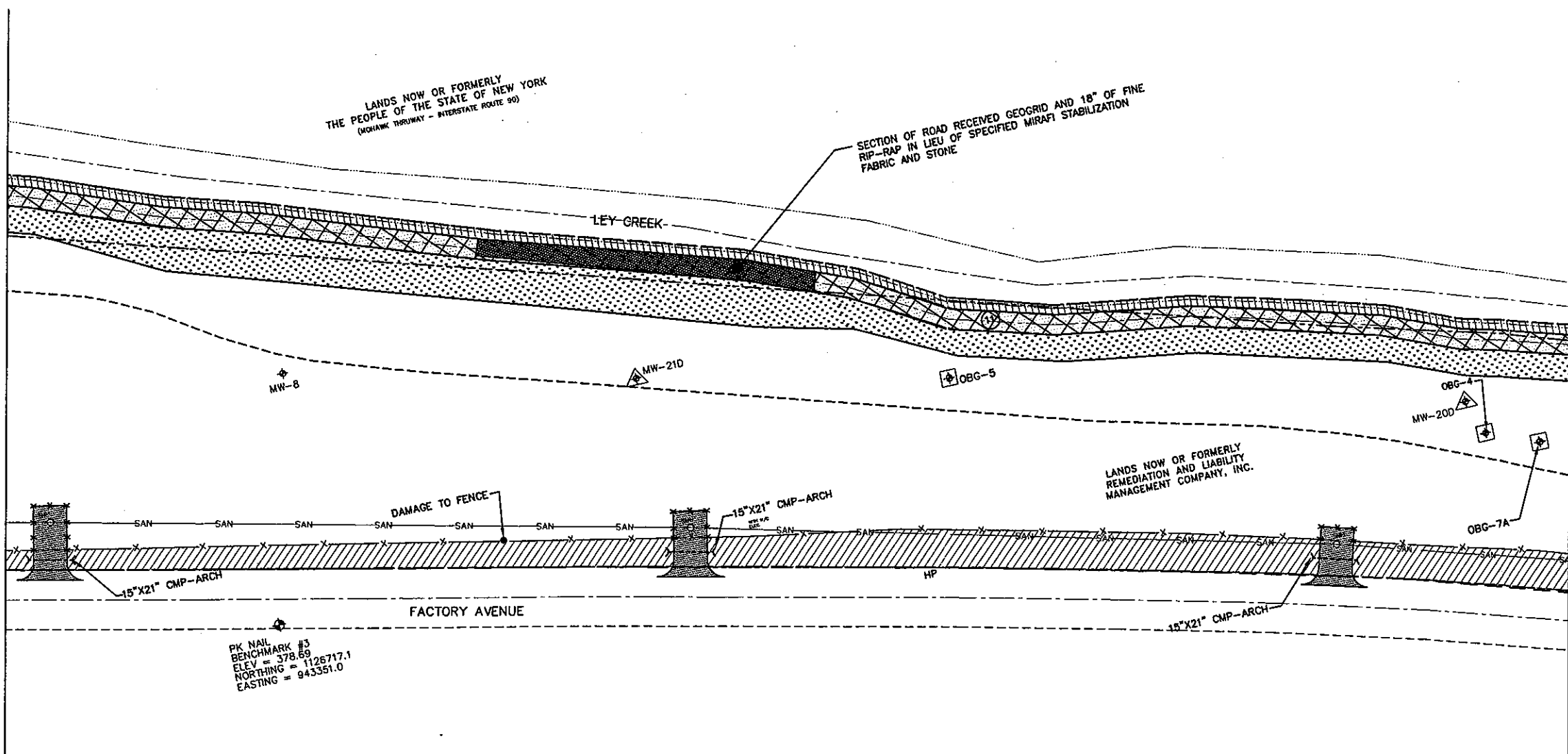


FIGURE 4

- LEGEND**
- SEEDED WITH CANARY GRASS
 - OVERHEAD WIRES
 - PROPERTY BOUNDARY
 - EDGE OF WOODS
 - UTILITY POLE
 - GUY WIRE
 - SANITARY SEWER
 - SANITARY MANHOLE
 - CATCH BASIN
 - SECURITY FENCE (SEE GENERAL NOTE 4)
 - PAVEMENT
 - GRAVEL ACCESS ROAD
 - LIMITS OF SOIL LOCATED ALONG FACTORY AVENUE RELOCATED BENEATH COVER SYSTEM
 - CATCH BASIN
 - MW-OBG7C MODIFIED MONITORING WELL
 - MONITORING WELL PRESUMED DESTROYED
 - ABANDONED MONITORING WELL
 - NEW MONITORING WELL
 - LIMITS OF EROSION CONTROL MAT
 - LIMITS OF COVER SYSTEM
 - LIMITS OF NON-WOVEN GEOTEXTILE
 - PHOTOGRAPH LOCATION

LEY CREEK PCB DREDGINGS SITE
SYRACUSE, NEW YORK
SITE REMEDIATION PROJECT

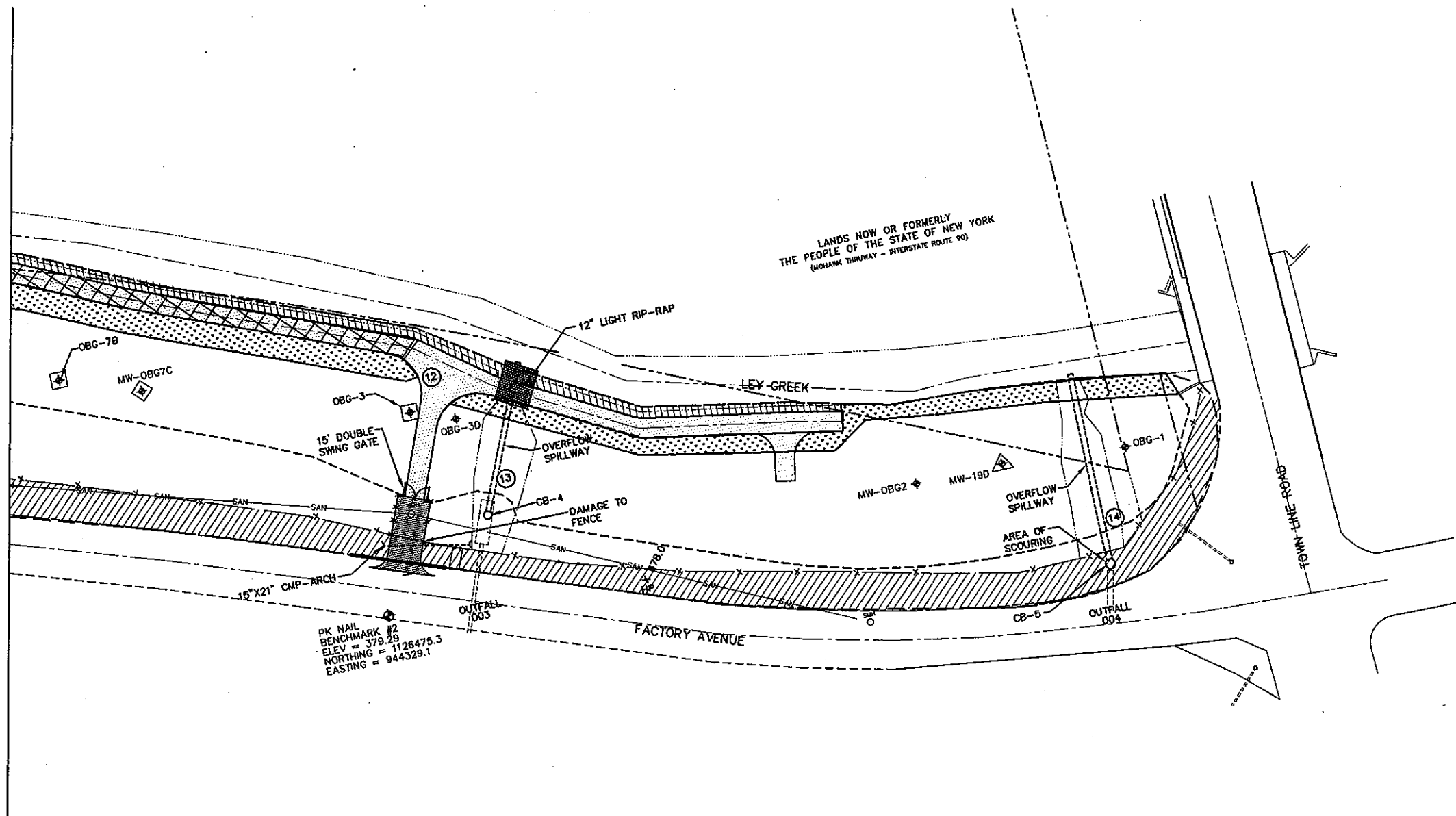
**AUGUST 2004
OM&M INSPECTION
PARTIAL SITE PLAN**



FILE NO. 4966.34124.015
SEPTEMBER 2004



MATCHLINE "E-E"
FOR CONTINUATION SEE FIG. 4



PK NAIL
BENCHMARK #2
ELEV = 379.29
NORTHING = 1126475.3
EASTING = 944329.1

FIGURE 5

LEGEND

- SEEDED WITH CANARY GRASS
- OVERHEAD WIRES
- PROPERTY BOUNDARY
- EDGE OF WOODS
- UTILITY POLE
- GUY WIRE
- SANITARY SEWER
- SANITARY MANHOLE
- CATCH BASIN
- SECURITY FENCE (SEE GENERAL NOTE 4)
- PAVEMENT
- GRAVEL ACCESS ROAD
- LIMITS OF SOIL LOCATED ALONG FACTORY AVENUE RELOCATED BENEATH COVER SYSTEM
- CATCH BASIN
- MW-OBG7C MODIFIED MONITORING WELL
- MONITORING WELL PRESUMED DESTROYED
- ABANDONED MONITORING WELL
- NEW MONITORING WELL
- LIMITS OF EROSION CONTROL MAT
- LIMITS OF COVER SYSTEM
- LIMITS OF NON-WOVEN GEOTEXTILE
- PHOTOGRAPH LOCATION

LEY CREEK PCB DREDGINGS SITE
SYRACUSE, NEW YORK
SITE REMEDIATION PROJECT

AUGUST 2004
OM&M INSPECTION
PARTIAL SITE PLAN



FILE NO. 4966.34124.016
SEPTEMBER 2004





O'BRIEN & GERE

December 23, 2004

Mr. James F. Hartnett
General Motors Corporation
One General Motors Drive STE2
Syracuse, NY 13206-1127

Re: Ley Creek PCB Dredgings Site
2004 OM&M Wetland Evaluation

File: 4966/34124 #2

Dear Jim:

This letter presents the results of wetland evaluation efforts performed at the Ley Creek PCB Dredgings Site (the Site), located in Syracuse, New York. Kyle Buelow and Ron Chiarello of O'Brien & Gere performed the evaluation on October 1, 2004, in accordance with Section 2.6 of the September 2001 *Operation, Maintenance, and Monitoring Manual* (OM&M Manual), which was approved by the New York State Department of Environmental Conservation.

The OM&M Manual specifies that a wetland evaluation is to be performed following the first full growing season (2001) and the subsequent four years (2002 through 2005). This wetland evaluation (Year 2004 Evaluation) represents the fourth full growing season following NYSDEC approval of the *Remedial Action Engineering Report* in 2001.

BACKGROUND

As documented in the *Wetland Assessment Report* for the Site (O'Brien & Gere 1998), eight emergent wetlands, totaling approximately 1.4 acres and dominated by dense stands of common reed (*Phragmites australis*) were identified at the Site prior to implementation of the Remedial Action. These wetlands were considered fringe wetlands based on their location adjacent to Ley Creek. The implementation of the Remedial Action at the Site temporarily eliminated these wetlands. A Wetland Mitigation Plan (letter report dated September 15, 2000), which consisted of the planting of reed canary grass (*Phalaris arundinacea*), was prepared by O'Brien & Gere on behalf of General Motors Corporation and approved by NYSDEC and the United States Environmental Protection Agency for the impacted wetlands at the Site. The Wetland Mitigation Plan was based on an evaluation of pre-remediation Site conditions and anticipated post-remediation site conditions. The wetland mitigation was incorporated in the remedial design. Figures 1 through 5 of this letter report depict the locations of the restored wetland areas at the Site.



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INSPECTION ACTIVITIES

In accordance with the OM&M Manual, a site visit was performed by qualified O'Brien & Gere wetland scientists on October 1, 2004 to evaluate the fourth year conditions of the restored wetlands and to identify maintenance activities that would be recommended to support the success of the wetland mitigation.

RESTORATION EVALUATION OBJECTIVES AND CRITERIA

This letter report presents the results of the fourth evaluation effort for the restored wetlands at the Site. Restoration success is based on the target percentage of ground cover and the density of planted species (reed canary grass). The restoration goal for restored wetlands at the Site, as specified in Section 2.6 of the OM&M Manual, is 90% ground cover within the sample plots of seeded (reed canary grass) and wetland species. The performance standard for wetlands restoration at the Site is measured by the percent of established ground cover, either through planting or natural recruitment.

Consistent with the OM&M Manual, four 9 square-foot sample plots were used to evaluate ground cover in the restored wetlands during the 2004 evaluation. Data collected for these sample plots were recorded on field data forms developed by O'Brien & Gere; the completed forms are included as Attachment 1 of this letter report. The sample plot locations are identified on Figures 1 through 5 of this letter report.

In accordance with the OM&M Manual, percent ground cover evaluation plots were located randomly in representative areas along the access road at the Site. The percent vegetative ground cover and percent ground cover by species was visually estimated within each plot and recorded on field data forms (Attachment 1). The data forms included:

- species observed within the sample plot
- percent ground cover for each species observed
- the United States Fish and Wildlife Service (USFWS) indicator status for each species as described in the USFWS NERC-99/18.21 document dated 1988 - *National List of Plant Species That Occur in Wetlands* and the 1995 Northeast Supplement
- total percent ground cover
- percent of the total ground which are hydrophytic species (FAC, FACW, and OBL).

RESULTS AND DISCUSSION

Four ground cover sample plots were evaluated within the restored wetlands at the Site. Data collected from the sample plots are presented on the field data forms included as Attachment 1. The comparison of observed percent ground cover to the restoration goal is presented in Table 1. As depicted on the field data forms and Table 1, Plots #3 and #4 exceeded the target ground cover percentage of 90% for seeded (reed canary grass) and wetland species, excluding invasive wetland species such as *Phragmites australis* (common reed), *Lythrum salicaria* (purple loosestrife), and non-wetland species.

In Plots #3 and #4, reed canary grass and other desirable wetland species made up 100% of the total ground cover for both plots, with reed canary grass comprising 45% of the total in Plot #3 and 55% of the total in Plot #4. Sample Plots #1 and #2 did not meet the target ground cover percentage. Plot #1 had a total desirable ground cover of 80%, of which reed canary grass made up 65% of the total ground cover and a sedge species, a desirable wetland species, the remaining 15%. In Plot #2, reed canary grass and other desirable wetland species made up 61% of the total ground cover, with reed canary grass comprising 40% of that total. In addition, Plot #2 exhibited a total percent ground cover of 72%, which is lower than the 97% total ground cover measured in the 2003 evaluation.

In the 2003 evaluation, Plots #1 and #4 met the target ground cover percentage and Plots #2 and #3 did not. This variability in Plot success from year to year may be attributed to the randomness of the plot selection for each evaluation. As previously noted, in accordance with the OM&M Manual, percent ground cover evaluation plots are located randomly in representative restored wetland areas along the access road at the Site for each inspection.

As these sample plot results indicate, half of the Site restored wetlands have met the target ground cover percentage of 90% reed canary grass and other desirable wetland species, which is consistent with the success rate achieved in 2003. The sample plots evaluated indicated that the seeded species (reed canary grass) along with other desirable wetland species, which are present due to natural recruitment, have been established in two of the four evaluated areas. A photograph log of the sample plot areas is included as Attachment 2.

Common reed (*Phragmites australis*) and purple loosestrife (*Lythrum salicaria*), two highly invasive species, were generally observed in large numbers along the banks of Ley Creek in the Site area; however, it did not appear that these species were dominating the restored wetlands. Neither of these species was present in the sample plots evaluated in 2001. In 2002, both were present in Plot #3, and common reed was present in Plot #4. In 2003, both were present in Plot #3. Neither of these species was observed in the sample plots in 2004.

CONCLUSIONS AND RECOMMENDATIONS

Evaluation efforts performed during the fourth full growing season (Year 2004 evaluation) indicated that the restored wetlands have remained consistent in 2004 as compared to the observations made during the 2003 evaluation. The restoration goal was met in two of the four sample plots evaluated in 2004, which is consistent with the 2003 observations. Although the vegetation within the restored wetlands has become well established and a high percentage of desirable species is present, O'Brien & Gere recommends the following activities be performed within the restored wetlands at the times presented below to deter the establishment of two highly invasive species within the restored wetlands. As previously noted, although neither of these species were observed in the sample plots, common reed (*Phragmites australis*) and purple loosestrife (*Lythrum salicaria*) were observed in portions of the restored wetland and along Ley Creek:

- Additional seeding of herbaceous wetland species (reed canary grass) is recommended in the emergent portion of this wetland, and should be performed in Spring 2005. Fertilizer 6-44-12 should be applied at a rate of 300 lbs per acre and FINN HST soil conditioner should be applied at a rate of 2.5 gallons per acre. Conwed HYDRO MULCH 2000 should be applied at a rate of 2,500 lbs per acre to minimize the potential of newly applied seed/fertilizer/soil conditioner being carried away during high discharge periods within Ley Creek.

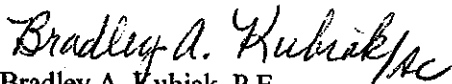
Mr. James F. Hartnett
December 23, 2004
Page 4

The implementation of this recommendation in the 2005 growing season should assist in deterring the establishment of invasive species within the wetlands; accelerate the restoration of the wetlands towards meeting the restoration in portions of the wetlands that do not currently meet the goal (area of Plots #1 and #2); and maintain the current wetland success observed in the areas of Plots #3 and #4. It is possible that the wetland restoration will succeed in meeting the restoration goal and invasive species will not become established within the restored wetlands without the implementation of this recommendation. The next wetland evaluation will be performed in 2005 in accordance with the OM&M Manual.

If you should have any questions pertaining to the information presented in this letter, please feel free to contact Maureen Markert or me at (315) 437-6100.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.


Bradley A. Kubiak, P.E.
Project Engineer

G:\SYRACUSE\DIV71\Projects\4966\34124\2_corres\Client\2004 wetland mon\2004 report.doc

cc: Ronald P. Chiarello – O'Brien & Gere
Douglas M. Crawford, P.E. – O'Brien & Gere
Maureen S. Markert, P.E.- O'Brien & Gere

Attachment 1:

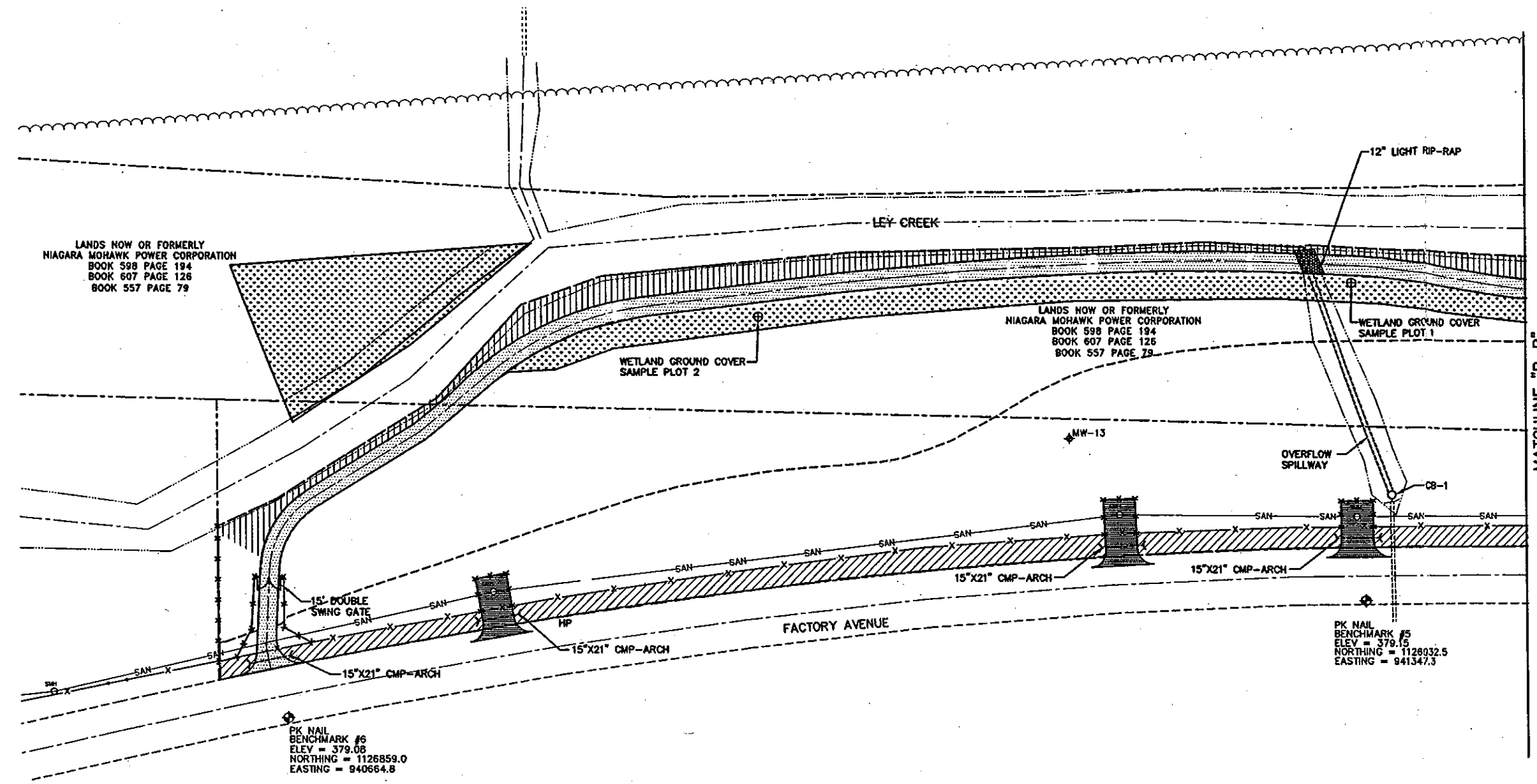
Table 1. Summary of Evaluation Criteria Comparisons

Sample Plot #	Desirable Ground Cover Criterion ^a	Observed Ground Cover	Observed Desirable Ground Cover ^b
1	90%	100%	80%
2	90%	72%	61%
3	90%	100%	100%
4	90%	100%	100%

^aGround cover of seeded and wetland-dependent species.

^bCalculated by subtracting % cover of undesirable wetland species, i.e., *Lythrum salicaria*, *Phragmites australis*, if present, and non-wetland species from total % ground cover.

FIGURE 1

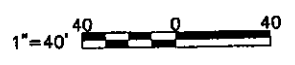


MATCHLINE "B-B"
FOR CONTINUATION SEE FIG. 2

- LEGEND**
- SEEDED WITH CANARY GRASS
 - OVERHEAD WIRES
 - PROPERTY BOUNDARY
 - EDGE OF WOODS
 - UTILITY POLE
 - GUY WIRE
 - SANITARY SEWER
 - SANITARY MANHOLE
 - CATCH BASIN
 - SECURITY FENCE (SEE GENERAL NOTE 4)
 - PAVEMENT
 - GRAVEL ACCESS ROAD
 - LIMITS OF SOIL LOCATED ALONG FACTORY AVENUE RELOCATED BENEATH COVER SYSTEM
 - CATCH BASIN
 - MODIFIED MONITORING WELL
 - MONITORING WELL PRESUMED DESTROYED
 - ABANDONED MONITORING WELL
 - NEW MONITORING WELL
 - LIMITS OF EROSION CONTROL MAT
 - LIMITS OF COVER SYSTEM
 - LIMITS OF NON-WOVEN GEOTEXTILE
 - WETLAND GROUND COVER SAMPLE PLOT LOCATION

LEY CREEK PCB DREDGINGS SITE
SYRACUSE, NEW YORK
SITE REMEDIATION PROJECT

**OM&M PARTIAL
SITE PLAN
WETLAND
EVALUATION**



FILE NO. 4966.34124.020
DECEMBER 2004



MATCHLINE "B-B"
FOR CONTINUATION SEE FIG. 1

MATCHLINE "C-C"
FOR CONTINUATION SEE FIG. 3

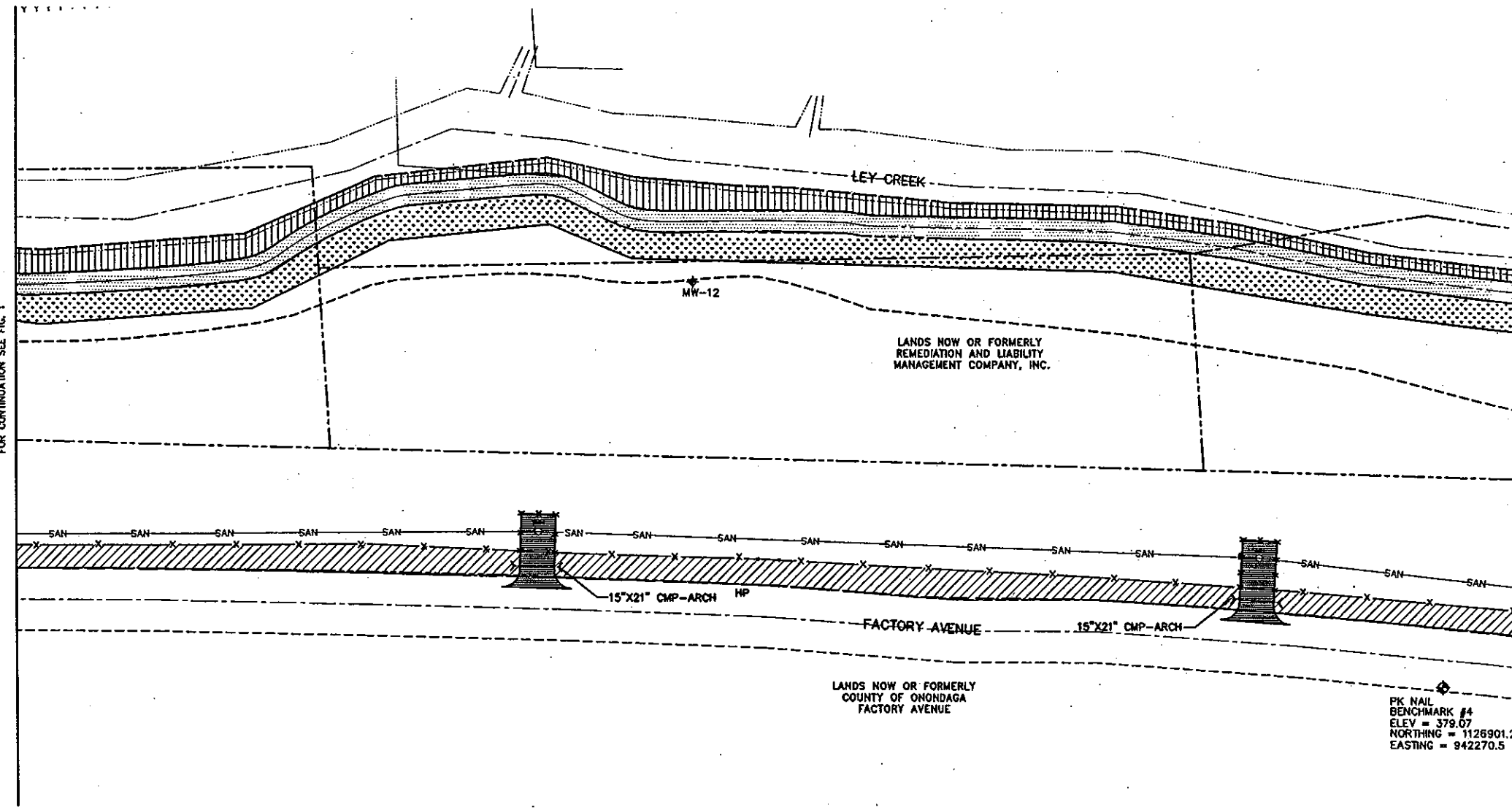


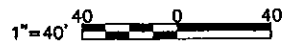
FIGURE 2

LEGEND

- SEEDED WITH CANARY GRASS
- OVERHEAD WIRES
- PROPERTY BOUNDARY
- EDGE OF WOODS
- UTILITY POLE
- GUY WIRE
- SANITARY SEWER
- SANITARY MANHOLE
- CATCH BASIN
- SECURITY FENCE (SEE GENERAL NOTE 4)
- PAVEMENT
- GRAVEL ACCESS ROAD
- LIMITS OF SOIL LOCATED ALONG FACTORY AVENUE RELOCATED BENEATH COVER SYSTEM
- CATCH BASIN
- MODIFIED MONITORING WELL
- MONITORING WELL PRESUMED DESTROYED
- ABANDONED MONITORING WELL
- NEW MONITORING WELL
- LIMITS OF EROSION CONTROL MAT
- LIMITS OF COVER SYSTEM
- LIMITS OF NON-WOVEN GEOTEXTILE
- WETLAND GROUND COVER SAMPLE PLOT LOCATION

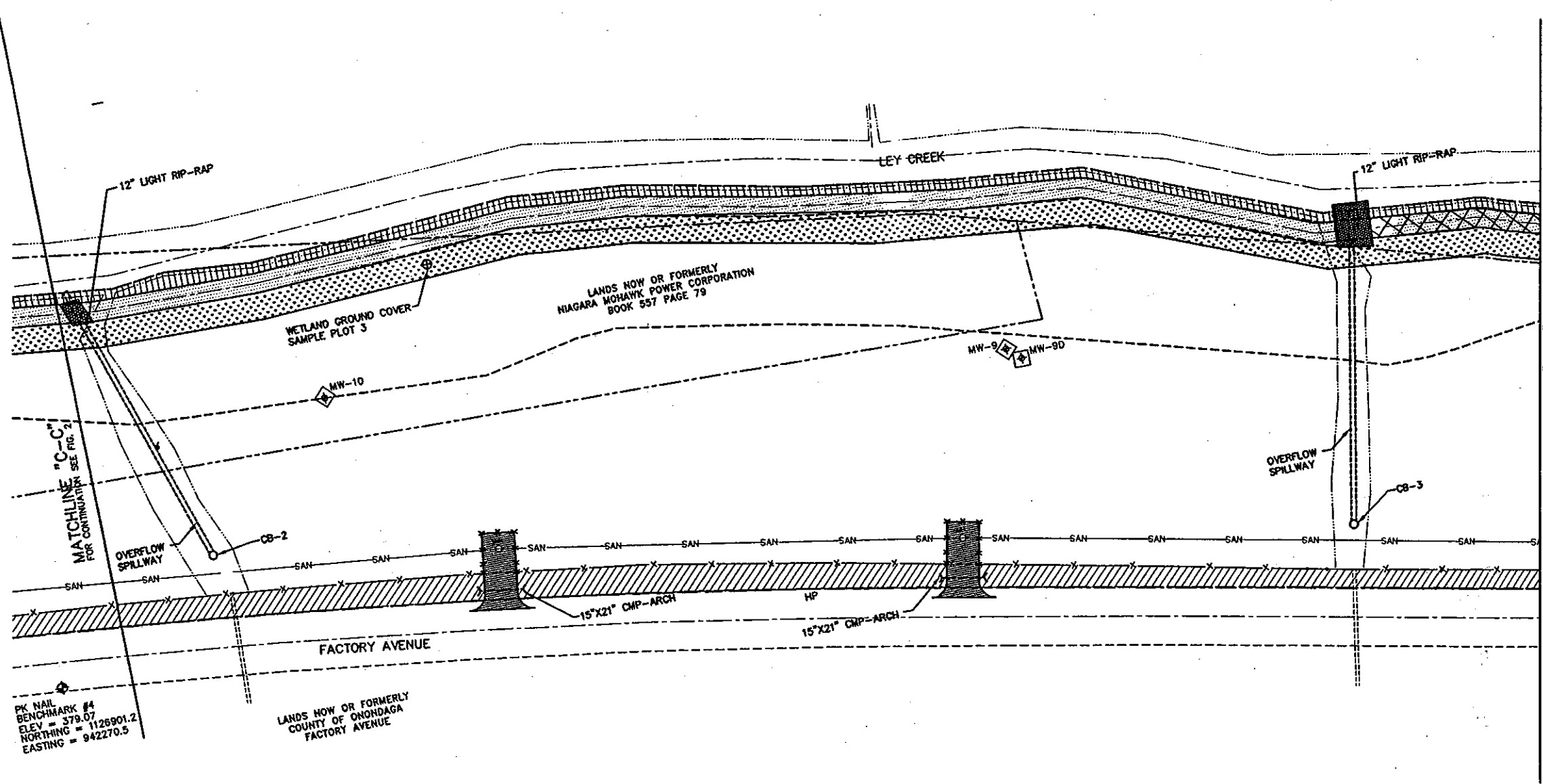
LEY CREEK PCB DREDGINGS SITE
SYRACUSE, NEW YORK
SITE REMEDIATION PROJECT

OM&M PARTIAL
SITE PLAN
WETLAND
EVALUATION



FILE NO. 4966.34124.021
DECEMBER 2004





PK NAIL
BENCHMARK #4
ELEV = 579.07
NORTHING = 1128901.2
EASTING = 942270.5

LANDS NOW OR FORMERLY
COUNTY OF ONONDAGA
FACTORY AVENUE

LANDS NOW OR FORMERLY
NIAGARA MOHAWK POWER CORPORATION
BOOK 557 PAGE 79



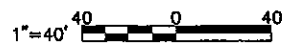
FIGURE 3

LEGEND

- SEEDED WITH CANARY GRASS
- OVERHEAD WIRES
- PROPERTY BOUNDARY
- EDGE OF WOODS
- UTILITY POLE
- GUY WIRE
- SANITARY SEWER
- SANITARY MANHOLE
- CATCH BASIN
- SECURITY FENCE (SEE GENERAL NOTE 4)
- PAVEMENT
- GRAVEL ACCESS ROAD
- LIMITS OF SOIL LOCATED ALONG FACTORY AVENUE SITE RELOCATED BENEATH COVER SYSTEM
- CATCH BASIN
- MODIFIED MONITORING WELL
- MONITORING WELL PRESUMED DESTROYED
- ABANDONED MONITORING WELL
- NEW MONITORING WELL
- LIMITS OF EROSION CONTROL MAT
- LIMITS OF COVER SYSTEM
- LIMITS OF NON-WOVEN GEOTEXTILE
- WETLAND GROUND COVER SAMPLE PLOT LOCATION

LEY CREEK PCB DREDGINGS SITE
SYRACUSE, NEW YORK
SITE REMEDIATION PROJECT

OM&M PARTIAL
SITE PLAN
WETLAND
EVALUATION



FILE NO. 4966.34124.022
DECEMBER 2004



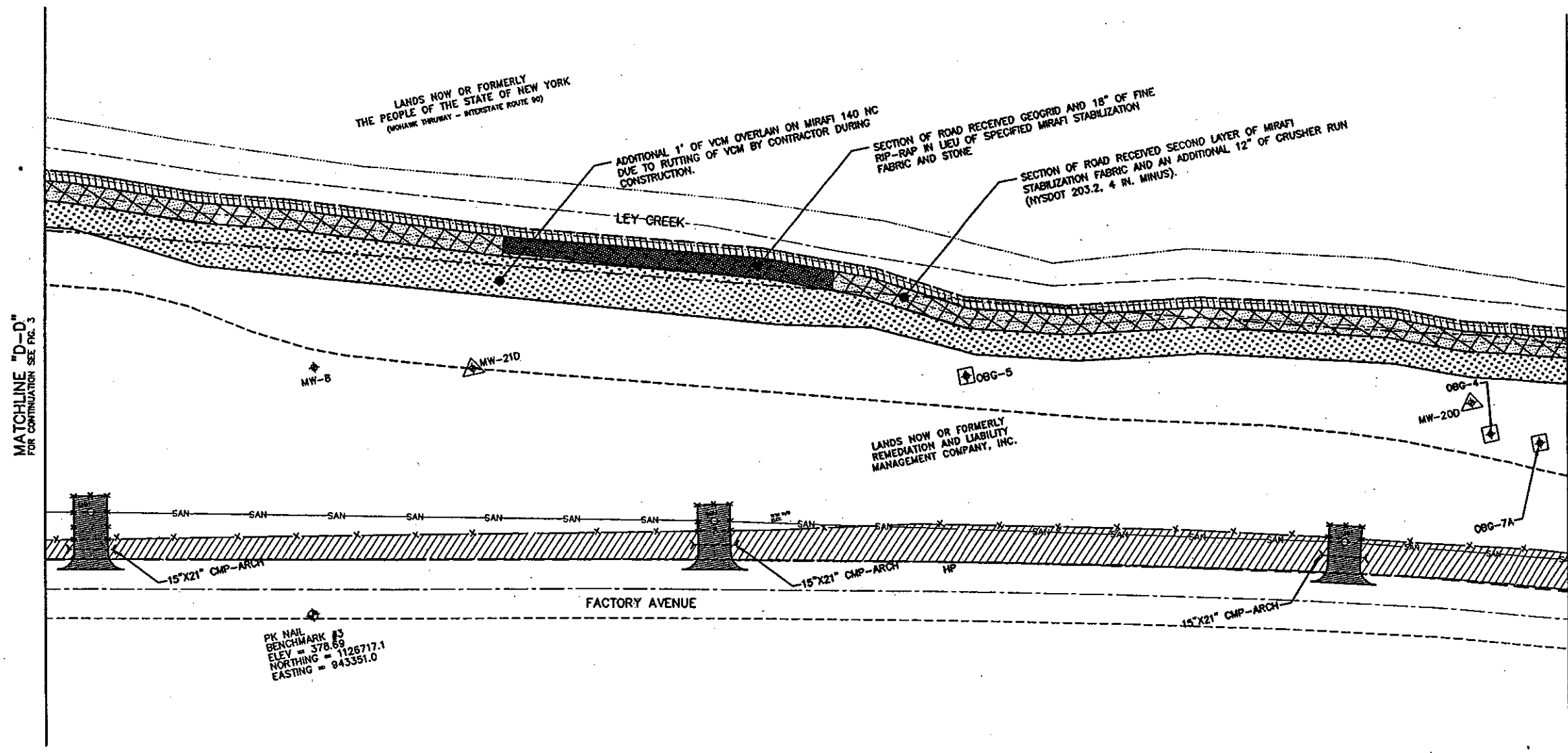
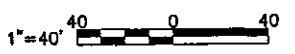


FIGURE 4

- LEGEND**
- SEEDED WITH CANARY GRASS
 - OVERHEAD WIRES
 - PROPERTY BOUNDARY
 - EDGE OF WOODS
 - UTILITY POLE
 - GUY WIRE
 - SANITARY SEWER
 - SANITARY MANHOLE
 - CATCH BASIN
 - SECURITY FENCE (SEE GENERAL NOTE 4)
 - PAYEMENT
 - GRAVEL ACCESS ROAD
 - LIMITS OF SOIL LOCATED ALONG FACTORY AVENUE RELOCATED BENEATH COVER SYSTEM
 - CATCH BASIN
 - MODIFIED MONITORING WELL
 - MONITORING WELL PRESUMED DESTROYED
 - ABANDONED MONITORING WELL
 - NEW MONITORING WELL
 - LIMITS OF EROSION CONTROL MAT
 - LIMITS OF COVER SYSTEM
 - LIMITS OF NON-WOVEN GEOTEXTILE
 - WETLAND GROUND COVER SAMPLE PLOT LOCATION

LEY CREEK PCB DREDGINGS SITE
SYRACUSE, NEW YORK
SITE REMEDIATION PROJECT

**OM&M PARTIAL
SITE PLAN
WETLAND
EVALUATION**



FILE NO. 4966.34124.023
DECEMBER 2004



MATCHLINE "E-E"
FOR CONTINUATION SEE FIG. 4

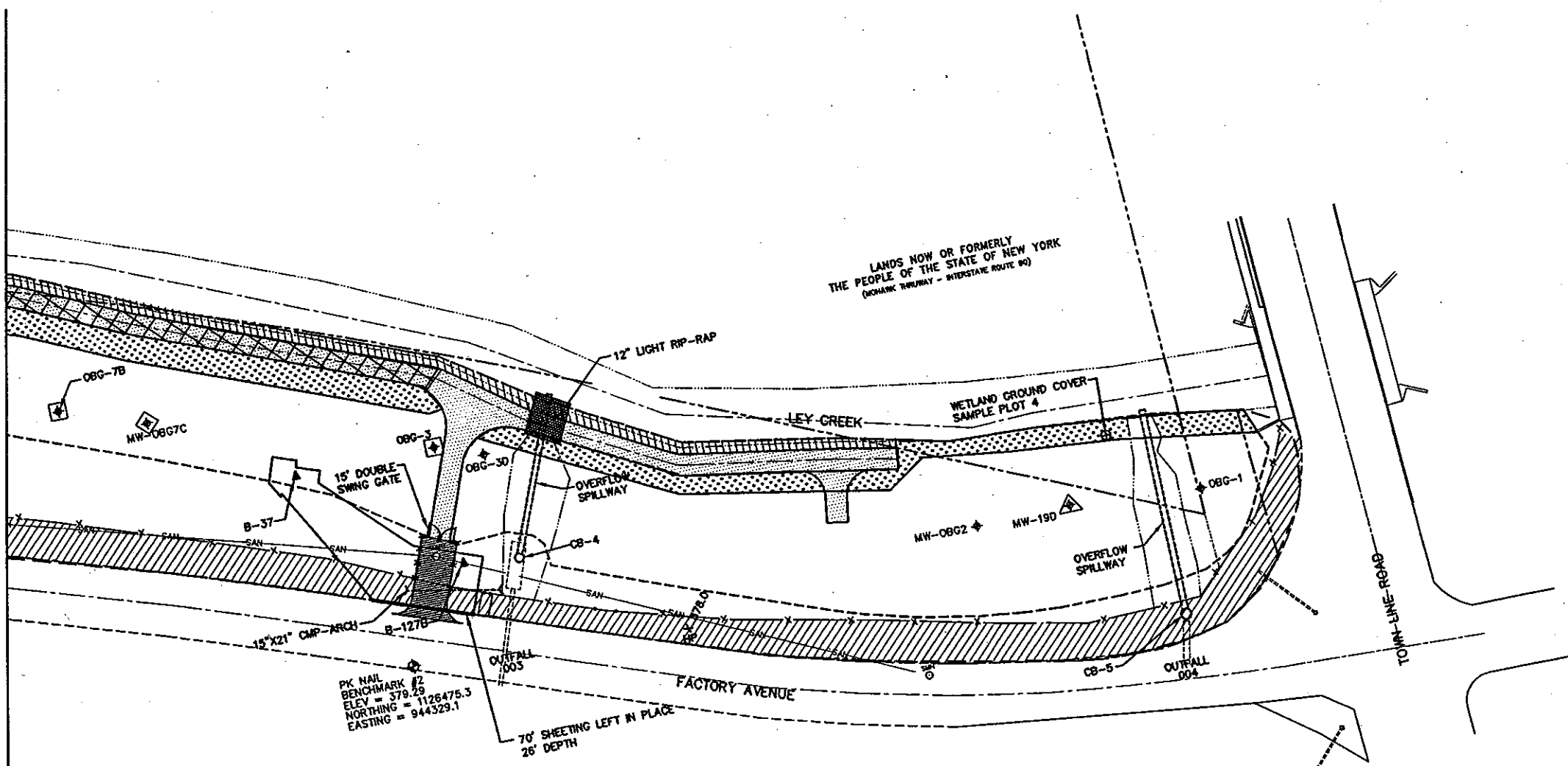


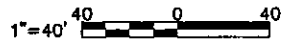
FIGURE 5

LEGEND

- SEEDED WITH CANARY GRASS
- OVERHEAD WIRES
- PROPERTY BOUNDARY
- EDGE OF WOODS
- UTILITY POLE
- GUY WIRE
- SANITARY SEWER
- SANITARY MANHOLE
- CATCH BASIN
- SECURITY FENCE (SEE GENERAL NOTE 4)
- PAVEMENT
- GRAVEL ACCESS ROAD
- LIMITS OF SOIL LOCATED ALONG FACTORY AVENUE RELOCATED BENEATH COVER SYSTEM
- CATCH BASIN
- MW-OBG7C MODIFIED MONITORING WELL
- MONITORING WELL PRESUMED DESTROYED
- ABANDONED MONITORING WELL
- NEW MONITORING WELL
- LIMITS OF EROSION CONTROL MAT
- LIMITS OF COVER SYSTEM
- LIMITS OF NON-WOVEN GEOTEXTILE
- WETLAND GROUND COVER SAMPLE PLOT LOCATION

LEY CREEK PCB DREDGINGS SITE
SYRACUSE, NEW YORK
SITE REMEDIATION PROJECT

OM&M PARTIAL
SITE PLAN
WETLAND
EVALUATION



FILE NO. 4966.34124.024
DECEMBER 2004



Attachment 1

Field Data Forms

GROUND COVER DATA FORM

Site: GM Ley Creek Site - Restored Wetland
Date: 10/1/2004
Investigator(s): K. Buelow & R. Chiarello
Plot: Plot #1
Wetland type: Emergent

Species	Wetland Indicator Status	Percent cover
<i>Phalaris arundinacea</i>	FACW+	65
<i>Lathyrus latifolia</i>	NI	15
<i>Carex</i> sp.	FACW	15
<i>Lotus corniculatus</i>	FACU-	5
Total ground cover (%)		100
% desirable ground cover		80 ^a
% ground cover hydrophytic (FAC, FACW and OBL)		80 ^b

Note

^aCalculated by subtracting % cover of undesirable wetland species, i.e., *Lythrum salicaria*, *Phragmites australis*, if present, non-wetland (FACU, FACU- and UPL), and non-indicator (NI) species from total % ground cover.

^bCalculated by adding percent cover for hydrophytic indicator status and dividing by total ground cover %. This value is an indicator of the predominant vegetation type (hydrophytic or upland) in the sample plot.

Wetland Indicator Status Range

UPL (obligate upland) = probability of occurrence in wetland <1%

FACU (facultative upland) = probability of occurrence in wetland in the range 1 to 33%

FACU- (facultative upland -) = probability of occurrence in wetland in the lower part of the range 1 to 33%

FACU+ (facultative upland +) = probability of occurrence in wetland in the upper part of the range 1 to 33%

FAC (facultative) = probability of occurrence in wetland in the range 34 to 66%

FAC- (facultative -) = probability of occurrence in wetland in the lower part of the range 34 to 66%

FAC+ (facultative +) = probability of occurrence in wetland in the upper part of the range 34 to 66%

FACW (facultative wetland) = probability of occurrence in wetland in the range 67 to 99%

FACW- (facultative wetland -) = probability of occurrence in wetland in the lower part of the range 67 to 99%

FACW+ (facultative wetland +) = probability of occurrence in wetland in the upper part of the range 67 to 99%

OBL (obligate wetland) = probability of occurrence in wetland >99%

NI = non indicator species (not included on indicator listing)

GROUND COVER DATA FORM

Site: GM Ley Creek Site - Restored Wetland
Date: 10/1/2004
Investigator(s): K. Buelow & R. Chiarello
Plot: Plot #2
Wetland type: Emergent

Species	Wetland Indicator Status	Percent cover
<i>Phalaris arundinacea</i>	FACW+	40
<i>Populus deltoides</i>	FAC	15
<i>Taraxacum officinale</i>	FACU-	10
<i>Solidago gigantea</i>	FACW	5
<i>Trifolium repense</i>	FACU-	1
<i>Acer negundo</i>	FAC+	1
Total ground cover (%)		72
% desirable ground cover		61 ^a
% ground cover hydrophytic (FAC, FACW and OBL)		61 ^b

Note

^aCalculated by subtracting % cover of undesirable wetland species, *i.e.*, *Lythrum salicaria*, *Phragmites australis*, if present, non-wetland (FACU, FACU- and UPL), and non-indicator (NI) from total % ground cover.

^bCalculated by adding percent cover for hydrophytic indicator status and dividing by total ground cover %. This value is an indicator of the predominant vegetation type (hydrophytic or upland) in the sample plot.

Wetland Indicator Status Range

UPL (obligate upland) = probability of occurrence in wetland <1%

FACU (facultative upland) = probability of occurrence in wetland in the range 1 to 33%

FACU- (facultative upland -) = probability of occurrence in wetland in the lower part of the range 1 to 33%

FACU+ (facultative upland +) = probability of occurrence in wetland in the upper part of the range 1 to 33%

FAC (facultative) = probability of occurrence in wetland in the range 34 to 66%

FAC- (facultative -) = probability of occurrence in wetland in the lower part of the range 34 to 66%

FAC+ (facultative +) = probability of occurrence in wetland in the upper part of the range 34 to 66%

FACW (facultative wetland) = probability of occurrence in wetland in the range 67 to 99%

FACW- (facultative wetland -) = probability of occurrence in wetland in the lower part of the range 67 to 99%

FACW+ (facultative wetland +) = probability of occurrence in wetland in the upper part of the range 67 to 99%

OBL (obligate wetland) = probability of occurrence in wetland >99%

GROUND COVER DATA FORM

Site: GM Ley Creek Site - Restored Wetland
Date: 10/1/2004
Investigator(s): K. Buelow & R. Chiarello
Plot: Plot #3
Wetland type: Emergent

Species	Wetland Indicator Status	Percent cover
<i>Phalaris arundinacea</i>	FACW+	45
<i>Aster lateriflorus</i>	FACW-	45
<i>Populus deltoides</i>	FAC	9
<i>Acer rubrum</i>	FACW+	1
Total ground cover (%)		100
% desirable ground cover		100 ^a
% ground cover hydrophytic (FAC, FACW and OBL)		100 ^b

Note

^aCalculated by subtracting % cover of undesirable wetland species, *i.e.*, *Lythrum salicaria*, *Phragmites australis*, if present, non-wetland (FACU, FACU- and UPL), and non-indicator (NI) species from total % ground cover.

^bCalculated by adding percent cover for hydrophytic indicator status and dividing by total ground cover %. This value is an indicator of the predominant vegetation type (hydrophytic or upland) in the sample plot.

Wetland Indicator Status Range

UPL (obligate upland) = probability of occurrence in wetland <1%

FACU (facultative upland) = probability of occurrence in wetland in the range 1 to 33%

FACU- (facultative upland -) = probability of occurrence in wetland in the lower part of the range 1 to 33%

FACU+ (facultative upland +) = probability of occurrence in wetland in the upper part of the range 1 to 33%

FAC (facultative) = probability of occurrence in wetland in the range 34 to 66%

FAC- (facultative -) = probability of occurrence in wetland in the lower part of the range 34 to 66%

FAC+ (facultative +) = probability of occurrence in wetland in the upper part of the range 34 to 66%

FACW (facultative wetland) = probability of occurrence in wetland in the range 67 to 99%

FACW- (facultative wetland -) = probability of occurrence in wetland in the lower part of the range 67 to 99%

FACW+ (facultative wetland +) = probability of occurrence in wetland in the upper part of the range 67 to 99%

OBL (obligate wetland) = probability of occurrence in wetland >99%

GROUND COVER DATA FORM

Site: GM Ley Creek Site - Restored Wetland
Date: 10/1/2004
Investigator(s): K. Buelow & R. Chiarello
Plot: Plot #4
Wetland type: Emergent

Species	Wetland Indicator Status	Percent cover
<i>Phalaris arundinacea</i>	FACW+	55
<i>Aster lateriflorus</i>	FACW-	20
<i>Galium tinctorium</i>	OBL	15
<i>Impatiens</i> sp.	FACW	5
<i>Boehmeria cylindrica</i>	FACW+	5
Total ground cover (%)		100
% desirable ground cover		100 ^a
% ground cover hydrophytic (FAC, FACW and OBL)		100 ^b

Note

^aCalculated by subtracting % cover of undesirable wetland species, i.e., *Lythrum salicaria*, *Phragmites australis*, if present, non-wetland (FACU, FACU- and UPL), and non-indicator (NI) species from total % ground cover.

^bCalculated by adding percent cover for hydrophytic indicator status and dividing by total ground cover %. This value is an indicator of the predominant vegetation type (hydrophytic or upland) in the sample plot.

Wetland Indicator Status Range

UPL (obligate upland) = probability of occurrence in wetland <1%

FACU (facultative upland) = probability of occurrence in wetland in the range 1 to 33%

FACU- (facultative upland -) = probability of occurrence in wetland in the lower part of the range 1 to 33%

FACU+ (facultative upland +) = probability of occurrence in wetland in the upper part of the range 1 to 33%

FAC (facultative) = probability of occurrence in wetland in the range 34 to 66%

FAC- (facultative -) = probability of occurrence in wetland in the lower part of the range 34 to 66%

FAC+ (facultative +) = probability of occurrence in wetland in the upper part of the range 34 to 66%

FACW (facultative wetland) = probability of occurrence in wetland in the range 67 to 99%

FACW- (facultative wetland -) = probability of occurrence in wetland in the lower part of the range 67 to 99%

FACW+ (facultative wetland +) = probability of occurrence in wetland in the upper part of the range 67 to 99%

OBL (obligate wetland) = probability of occurrence in wetland >99%

Attachment 2

Photograph Log

Ley Creek PCB Dredgings Site – 2004 Wetland Evaluation Photograph Log



Photo 1: Looking east at area of restored wetland evaluation Plot #1.
Date photo taken: 10/1/2004

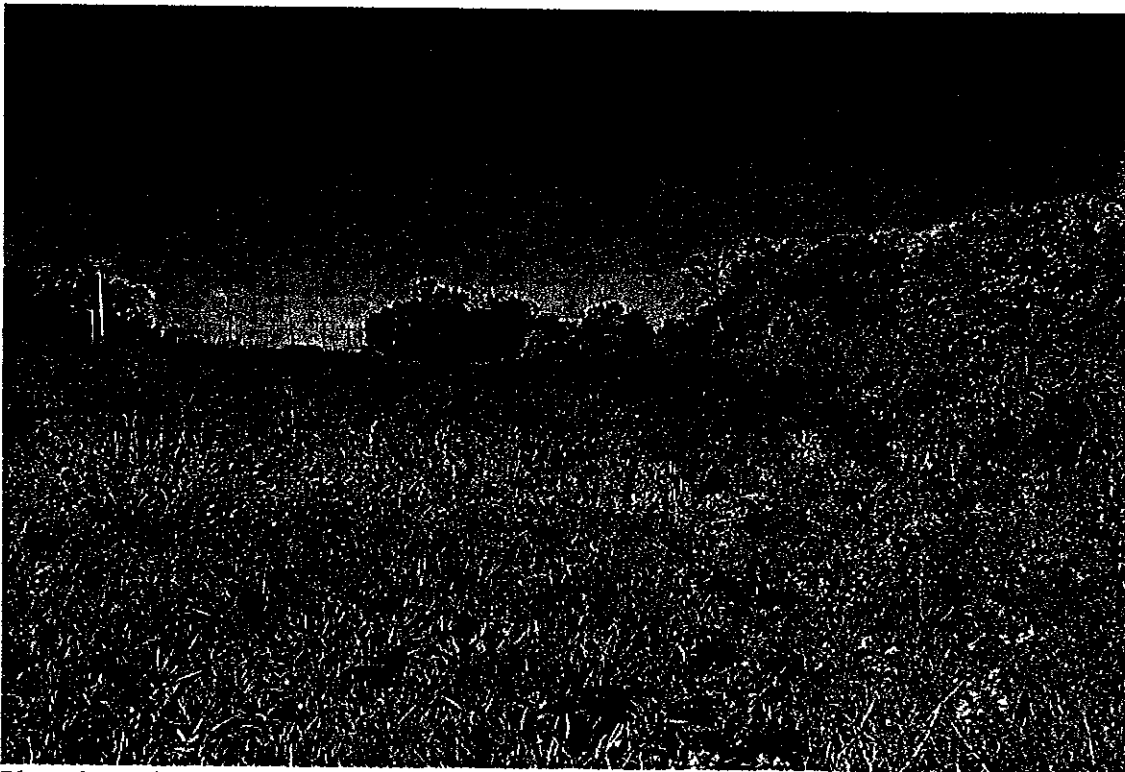


Photo 2: Looking west at area of restored wetland evaluation Plot #2.
Date photo taken: 10/1/2004

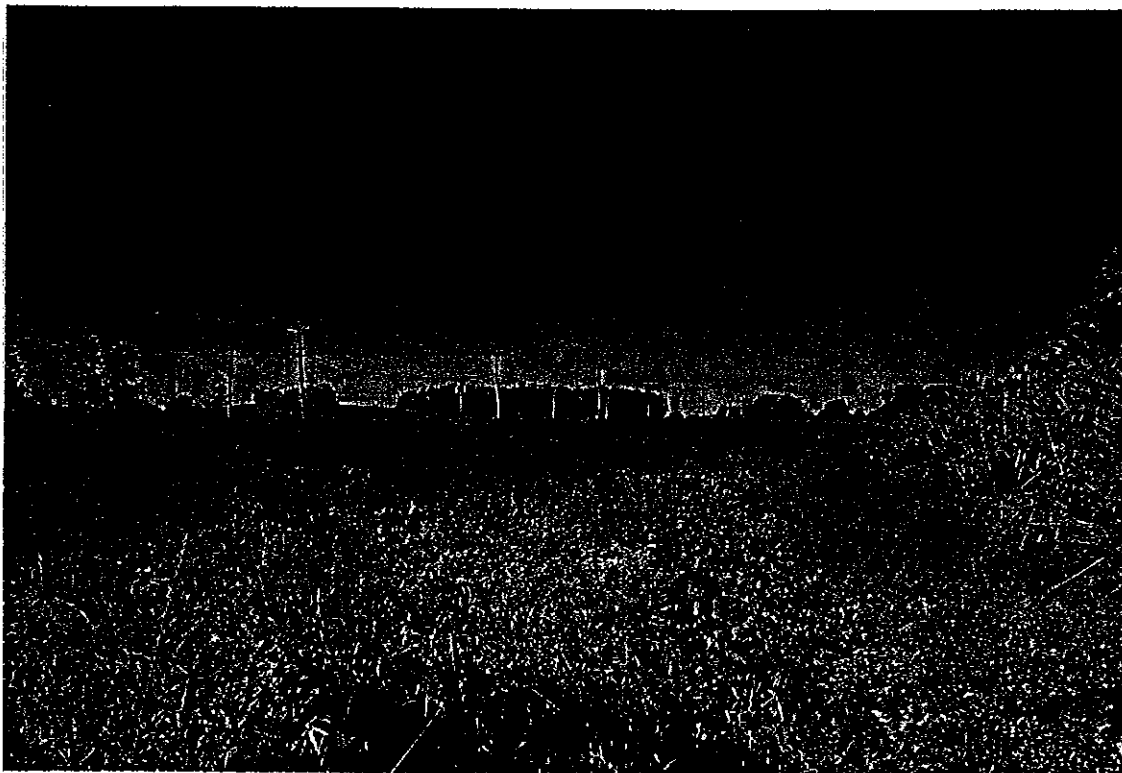


Photo 3: Looking west at area of restored wetland evaluation Plot #3.
Date photo taken: 10/1/2004

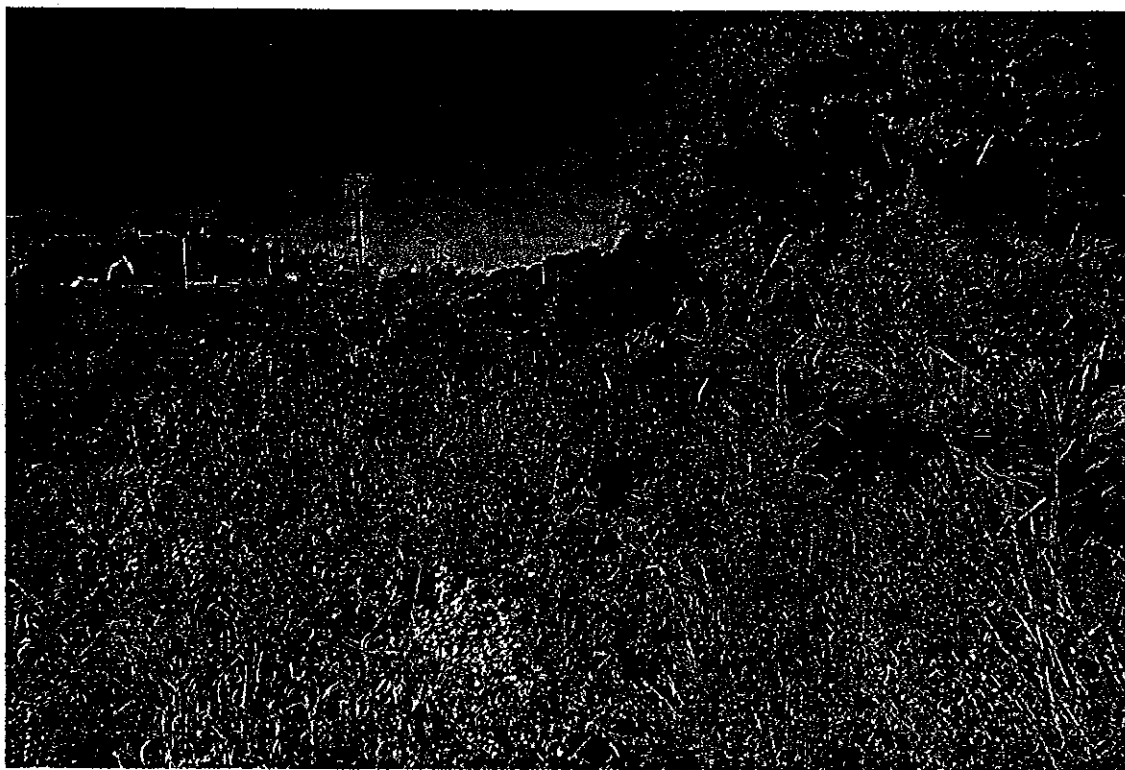


Photo 4: Looking northwest at area of restored wetland evaluation Plot #4.
Date photo taken: 10/1/2004



O'BRIEN & GERE

January 14, 2005

James F. Hartnett
Remediation and Liability Management Company, Inc.
1 General Motors Drive
Suite 2
Syracuse, New York 13206-1127

Re: Ley Creek PCB Dredgings Site
December 2004 OM&M Inspection

File: 4966/34124 #2

Dear Jim:

The purpose of this letter report is to document the Operation, Maintenance, and Monitoring (OM&M) site inspection conducted on December 9, 2004 by O'Brien & Gere at the Ley Creek PCB Dredgings Site (the Site), located in Syracuse, New York. This inspection was performed in accordance with the NYSDEC-approved OM&M Manual, dated September 2001. Attached to this letter report are the OM&M checklist, inspection photographs, and site figures associated with the site inspection.

NYSDEC INSPECTION

Prior to the December 9, 2004 OM&M site inspection, a walk through inspection of the Site was conducted by O'Brien & Gere and Sue Benjamin of the NYSDEC on November 17, 2004. Ms. Benjamin provided the following observations and comments about the Site:

- The lack of growth through the erosion and sediment control fabric in a couple of small areas at the overflow spillways for catch basins CB-2 and CB-3 was observed. Ms. Benjamin recommended waiting until next year to evaluate the growth of vegetation during the 2005 OM&M inspections.
- Erosion at the lower end of the overflow spillway at CB-1 was observed. Ms. Benjamin recommended stone to be placed in the eroded area.
- Heavy vegetative growth through the fence at the west end of the site was observed. Ms. Benjamin requested that the vegetative growth be removed.
- Two 3-foot long ruts were observed in the soil on the top flat section of the site west of CB-3. Ms. Benjamin requested to have the ruts filled in.



- Several burrowing animal holes were observed near poles and guy wires at the Site across from the Niagara Mohawk substation access road. Ms. Benjamin asked to have the holes filled in.
- Ms. Benjamin stated the two areas where the fence has been damaged (as noted in previous inspection reports) should be repaired.
- Ms. Benjamin mentioned the condition of the service road (sediment from flooding and grass growth) is not a concern.

SITE INSPECTION

On December 9, 2004, an OM&M site inspection was performed at the Site. The inspection checklist along with the comments is attached. The inspection photographs are also attached along with a description of the photographs. The approximate locations of where the photographs were taken are shown in the attached site figures.

The designated wetland area, which was inadvertently mowed earlier in the year and observed in the August 2004 inspection, was not impacted during the second mowing of the year and the vegetation is growing back.

The observations made during the November 17, 2004 inspection by O'Brien & Gere and NYSDEC were generally addressed. The erosion at the overflows of CB-2 and CB-3 will be inspected during the next inspection in 2005. The erosion at the overflow spillway of CB-1 was filled in with rip-rap (see photo number 11). The growth on the fence at the western end of the Site was removed. The ruts in the soil were filled in, and the animal holes observed during the August 5 and the November 17 inspections were filled in with soil.

The two areas of the site security fence that were observed to be damaged during the site inspection (Figures 4 and 5) have not been repaired and should be repaired as soon as practicable.

Other observations of items that require action are as follows:

- Stone access road drainage: (Photograph 10. Figure 2.) One area of the stone access road, observed to have rutting and poor drainage characterized by ponded water being visible within the stone access road.
- Debris accumulation: (Photograph 12. Figure 1.) Debris was accumulated over the catch basin CB-1 grate, thus restricting flow.
- Vegetation within stone access road: A significant amount of vegetation was observed within the stone access road throughout the Site and the stone access road turnaround at the eastern end of the Site.
- Tree establishment: (Figure 2.) An approximate 2-inch diameter tree was observed along the fence line.

RECOMMENDATIONS

Below is a list of recommended measures to address the observations during the OM&M inspection:


- Repair the damaged site security fence
- Repair the area of rutting of the stone access road by placement of additional crushed stone, and improve drainage of the stone access road by constructing small drainage channels to convey ponded water from the stone access road to Ley Creek. This could be performed by removal of less than 1 foot of vegetative cover material with subsequent replacement of crushed stone.
- Remove the debris around catch basin CB-1
- Remove vegetation from the stone access road and the stone access road turnaround
- Remove trees from fence line
- Delineate wetland area with signage to discourage mowing of this area
- Monitor areas where fill was placed for vegetative establishment.

The next semi-annual OM&M inspection is scheduled to occur in the Spring of 2005.

If you should have any questions pertaining to the information presented in this letter, please feel free to contact me at (315) 437-6100.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.



Bradley A. Kubiak, P.E.
Project Engineer

G:\Syracuse\DIV71\Projects\4966\34124\2_corres\Client\December O&M Inspection\jh OMM ltr 011405.doc

cc: Sue Benjamin, P.E. (NYSDEC)
Douglas Crawford, P.E.
Maureen Markert, P.E.

Inspection checklist

Date Performed: December 9, 2004	Weather: Overcast 40 F
Site Name: Ley Creek PCB Dredgings Site	Inspector Name: Edwin B. Rahn
Site Location: Syracuse, New York	Inspector Signature: <i>Edwin B. Rahn</i>

Item	Task	Response		Comments
		Yes	No	
Vegetative Cover	Visually inspect surface conditions.			
	1. Areas of settlement?		X	
	2. Areas of erosion?	X		Refer to Figure 3 and Photographs 7, 8, and 9
	3. Areas where geotextile visible due to erosion?		X	
	4. Areas of slope instability?		X	
	5. Lack or thinning vegetation?		X	
	6. Presence of burrowing animals?		X	
	7. Areas of damage?		X	
	8. Drainage problems?		X	
	9. Mowing required?		X	
Access Road	Visually inspect conditions.			
	1. Areas of settlement?		X	

Inspection checklist

Date Performed: December 9, 2004			Weather: Overcast 40 F	
Site Name: Ley Creek PCB Dredgings Site			Inspector Name: Edwin B. Rahn	
Site Location: Syracuse, New York			Inspector Signature: <i>Edwin B. Rahn</i>	
Item	Task	Response		Comments
		Yes	No	
Access Road	2. Areas of erosion?		X	
	3. Areas rutted or potholes present?	X		Refer to Figure 2 and Photograph 10
	4. Areas of damage?		X	
Surface Water Drainage	Visually inspect ditches, catch basins, etc.			
	1. Accumulation of debris?	X		Refer to Figure 1 and Photograph 12
	2. Excessive scouring?		X	
	3. Areas of damage?		X	
Ground Water Wells	Visually inspect conditions:			
	1. Casings secure and locked?	X		
	2. Areas of damage?		X	
Sanitary sewer access paths	Visually inspect conditions:			
	1. Cracks in asphalt?		X	
	2. Manhole covers in place?	X		

Inspection checklist

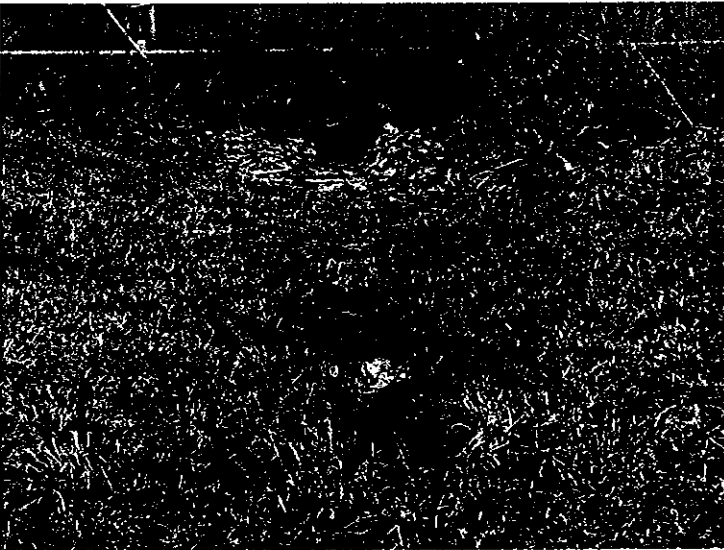
Date Performed: December 9, 2004			Weather: Overcast 40 F	
Site Name: Ley Creek PCB Dredgings Site			Inspector Name: Edwin B. Rahn	
Site Location: Syracuse, New York			Inspector Signature: <i>Edwin B. Rahn</i>	
Item	Task	Response		Comments
		Yes	No	
Sanitary sewer access paths	3. Debris accumulating in access paths?		X	
Physical Site Security	Visually inspect fences and gates			
	1. Signs intact?	X		
	2. Fence breached?		X	
	3. Access gates locked?	X		
	4. Areas of damage?	X		Refer to Figures 4 and 5 and Photograph 3
Note any additional comments:				
Vegetation is established in the stone access road.				
Erosion previously noted at CB-3 and CB-5 were addressed by adding rip-rap in the eroded areas.				
Observations (erosion at CB-1 overflow spillway, vegetative growth in western fence, ruts west of CB-3, and animal holes) made by O'Brien & Gere and				
NYSDEC on November 17, 2004 were addressed prior to the December OM&M site inspection.				
Repairs to the site fence remain to be done.				



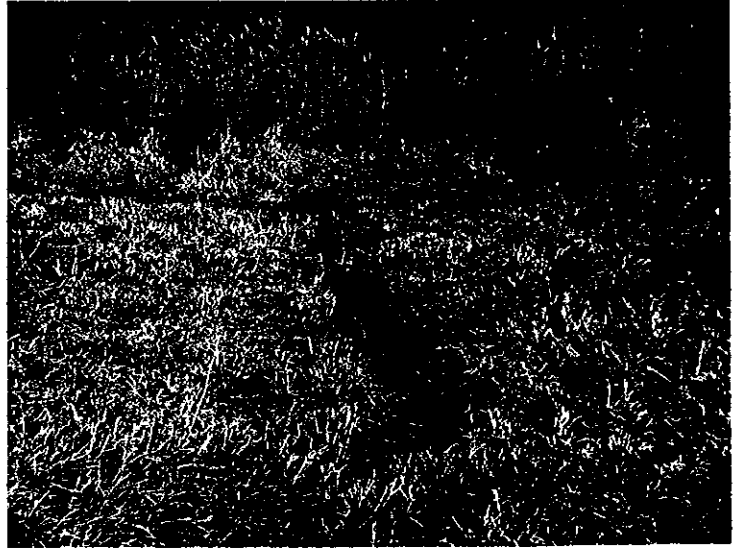
Photograph 5-View looking west from area near MW#8



Photograph 6-View of area near CB-3



Photograph 7-View of overflow spillway at CB-3 looking south



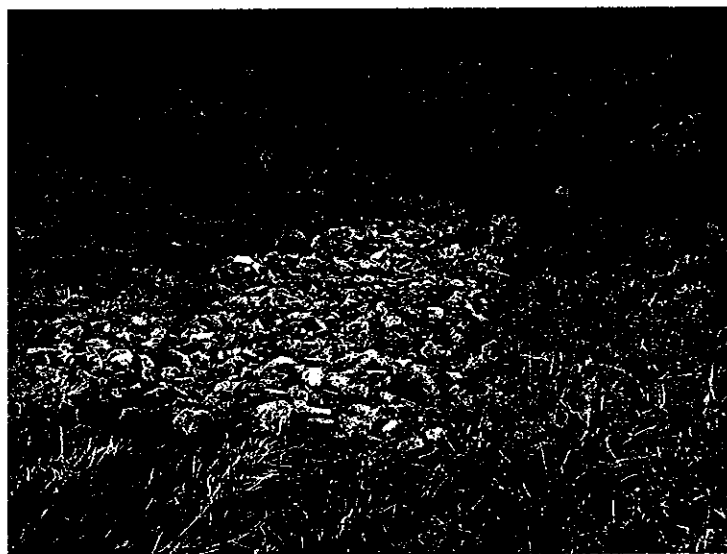
Photograph 8-View of overflow spillway at CB-3 looking north



Photograph 9-View of overflow spillway at CB-2



Photograph 10- View looking east down stone access road



Photograph 11- View of repaired overflow spillway of CB-1



Photograph 12-View of debris accumulated at CB-1

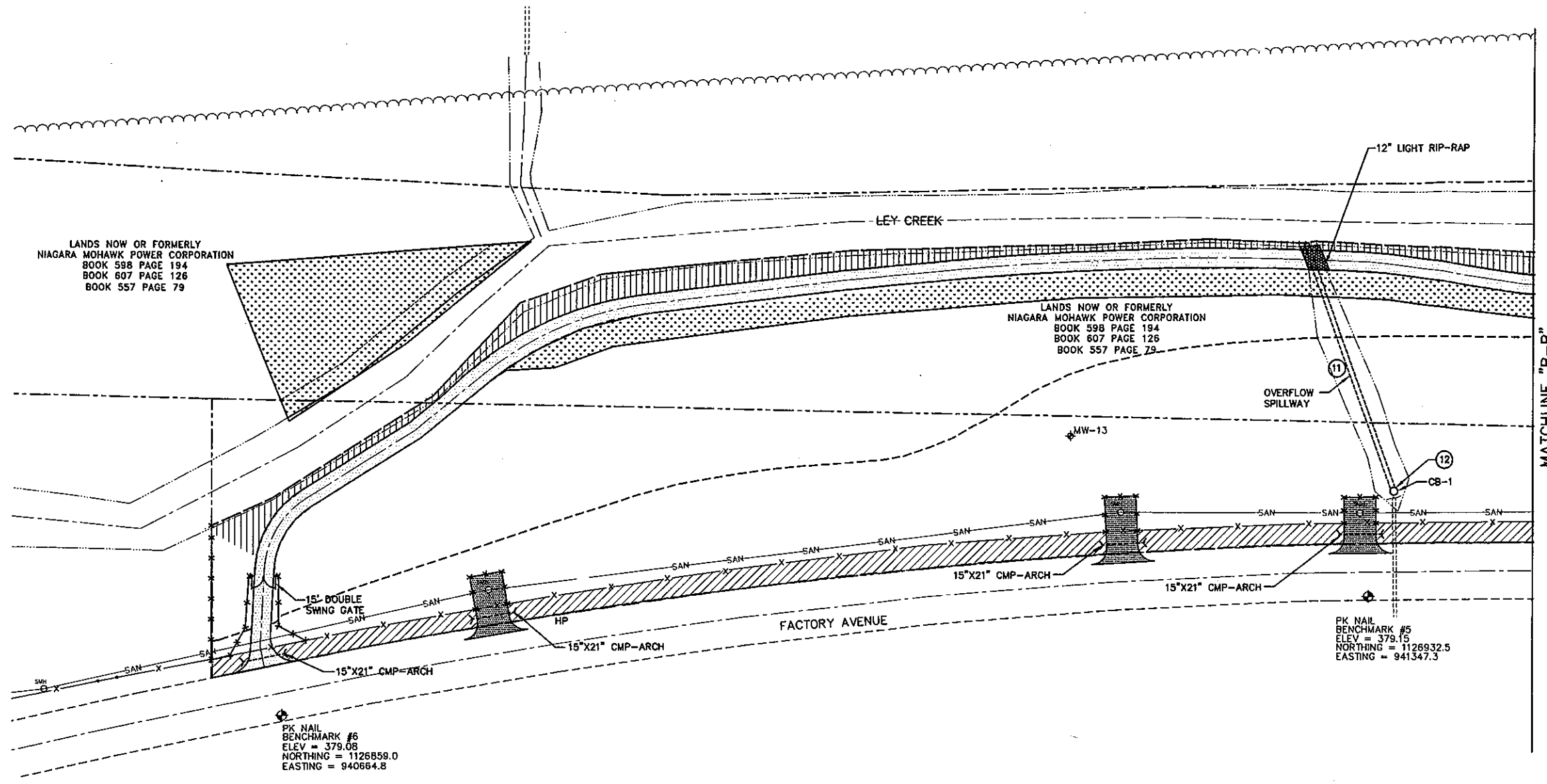


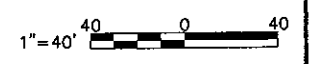
FIGURE 1

LEGEND

- SEEDED WITH CANARY GRASS
- OVERHEAD WIRES
- PROPERTY BOUNDARY
- EDGE OF WOODS
- UTILITY POLE
- GUY WIRE
- SANITARY SEWER
- SANITARY MANHOLE
- CATCH BASIN
- SECURITY FENCE (SEE GENERAL NOTE 4)
- PAVEMENT
- GRAVEL ACCESS ROAD
- LIMITS OF SOIL LOCATED ALONG FACTORY AVENUE RELOCATED BENEATH COVER SYSTEM
- CATCH BASIN
- MODIFIED MONITORING WELL
- MONITORING WELL PRESUMED DESTROYED
- ABANDONED MONITORING WELL
- NEW MONITORING WELL
- LIMITS OF EROSION CONTROL MAT
- LIMITS OF COVER SYSTEM
- LIMITS OF NON-WOVEN GEOTEXTILE
- PHOTOGRAPH LOCATION

LEY CREEK PCB DREDGINGS SITE
SYRACUSE, NEW YORK
SITE REMEDIATION PROJECT

DECEMBER 2004
OM&M INSPECTION
PARTIAL SITE PLAN



FILE NO. 4966.34124.027
DECEMBER 2004



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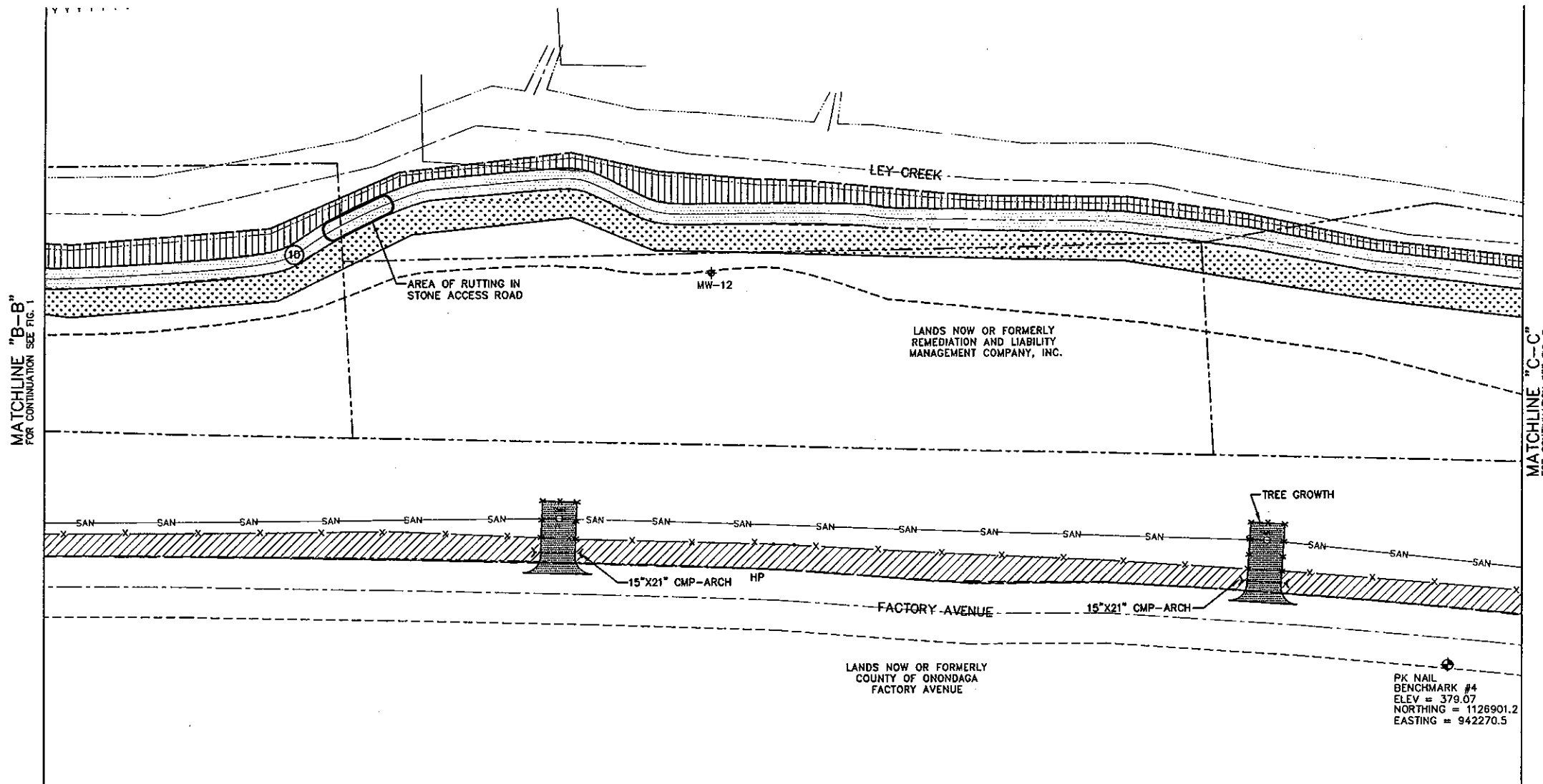


FIGURE 2

- LEGEND**
- SEEDED WITH CANARY GRASS
 - OVERHEAD WIRES
 - PROPERTY BOUNDARY
 - EDGE OF WOODS
 - UTILITY POLE
 - GUY WIRE
 - SANITARY SEWER
 - SANITARY MANHOLE
 - CATCH BASIN
 - SECURITY FENCE (SEE GENERAL NOTE 4)
 - PAVEMENT
 - GRAVEL ACCESS ROAD
 - LIMITS OF SOIL LOCATED ALONG FACTORY AVENUE RELOCATED BENEATH COVER SYSTEM
 - CATCH BASIN
 - MODIFIED MONITORING WELL
 - MONITORING WELL PRESUMED DESTROYED
 - ABANDONED MONITORING WELL
 - NEW MONITORING WELL
 - LIMITS OF EROSION CONTROL MAT
 - LIMITS OF COVER SYSTEM
 - LIMITS OF NON-WOVEN GEOTEXTILE
 - PHOTOGRAPH LOCATION

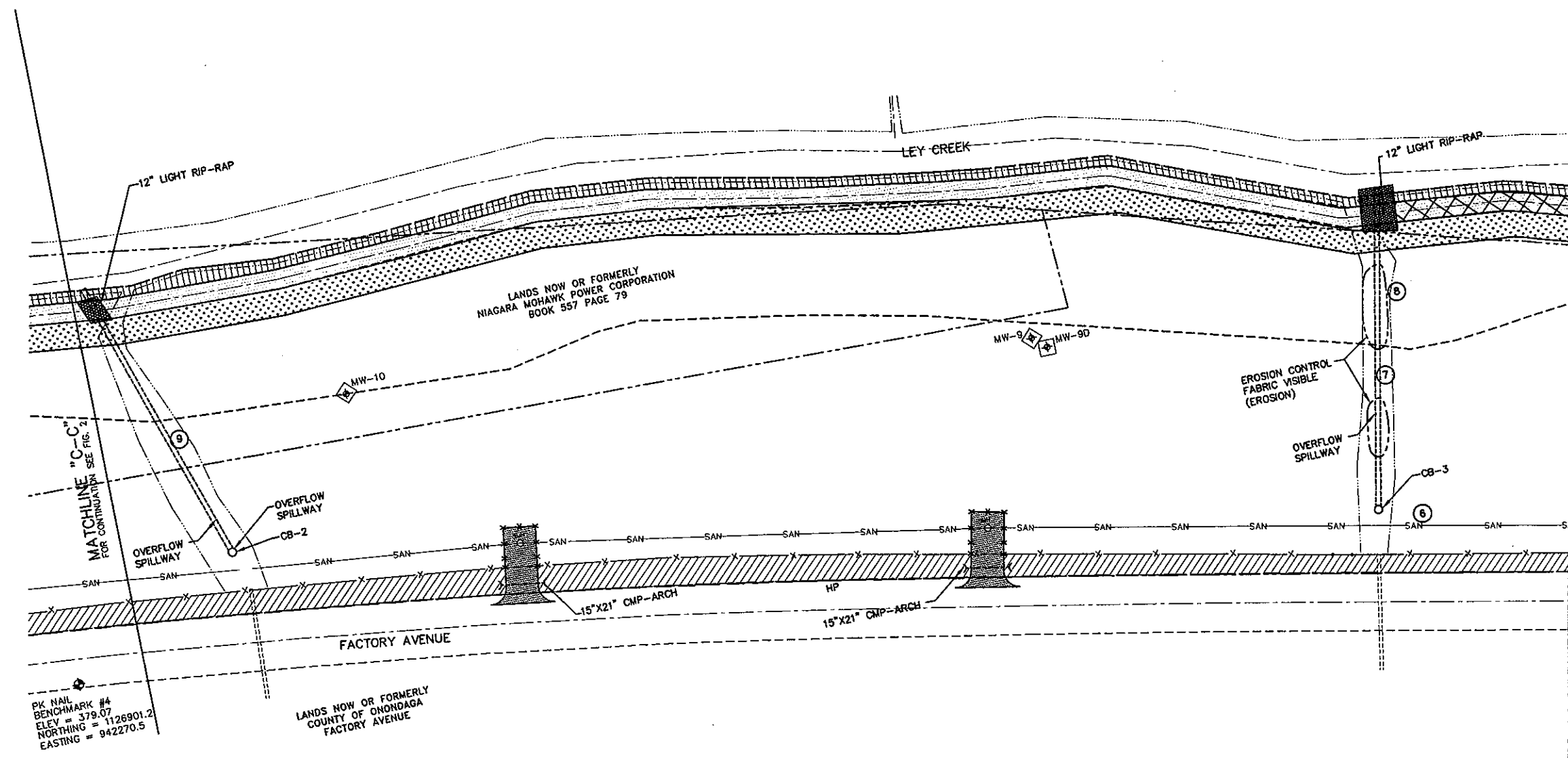
LEY CREEK PCB DREDGINGS SITE
SYRACUSE, NEW YORK
SITE REMEDIATION PROJECT

DECEMBER 2004
OM&M INSPECTION
PARTIAL SITE PLAN



FILE NO. 4966.34124.028
DECEMBER 2004





PK NAIL
BENCHMARK #4
ELEV = 379.07
NORTHING = 1126901.2
EASTING = 942270.5

LANDS NOW OR FORMERLY
COUNTY OF ONONDAGA
FACTORY AVENUE

LANDS NOW OR FORMERLY
NIAGARA MOHAWK POWER CORPORATION
BOOK 557 PAGE 79

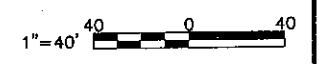
FIGURE 3

LEGEND

- SEEDED WITH CANARY GRASS
- OVERHEAD WIRES
- PROPERTY BOUNDARY
- EDGE OF WOODS
- UTILITY POLE
- GUY WIRE
- SANITARY SEWER
- SANITARY MANHOLE
- CATCH BASIN
- SECURITY FENCE (SEE GENERAL NOTE 4)
- PAVEMENT
- GRAVEL ACCESS ROAD
- LIMITS OF SOIL LOCATED ALONG FACTORY AVENUE RELOCATED BENEATH COVER SYSTEM
- CATCH BASIN
- MODIFIED MONITORING WELL
- MONITORING WELL PRESUMED DESTROYED
- ABANDONED MONITORING WELL
- NEW MONITORING WELL
- LIMITS OF EROSION CONTROL MAT
- LIMITS OF COVER SYSTEM
- LIMITS OF NON-WOVEN GEOTEXTILE
- PHOTOGRAPH LOCATION

LEY CREEK PCB DREDGINGS SITE
SYRACUSE, NEW YORK
SITE REMEDIATION PROJECT

DECEMBER 2004
OM&M INSPECTION
PARTIAL SITE PLAN



FILE NO. 4966.34124.029
DECEMBER 2004



MATCHLINE "D-D"
FOR CONTINUATION SEE FIG. 3

MATCHLINE "E-E"
FOR CONTINUATION SEE FIG. 5

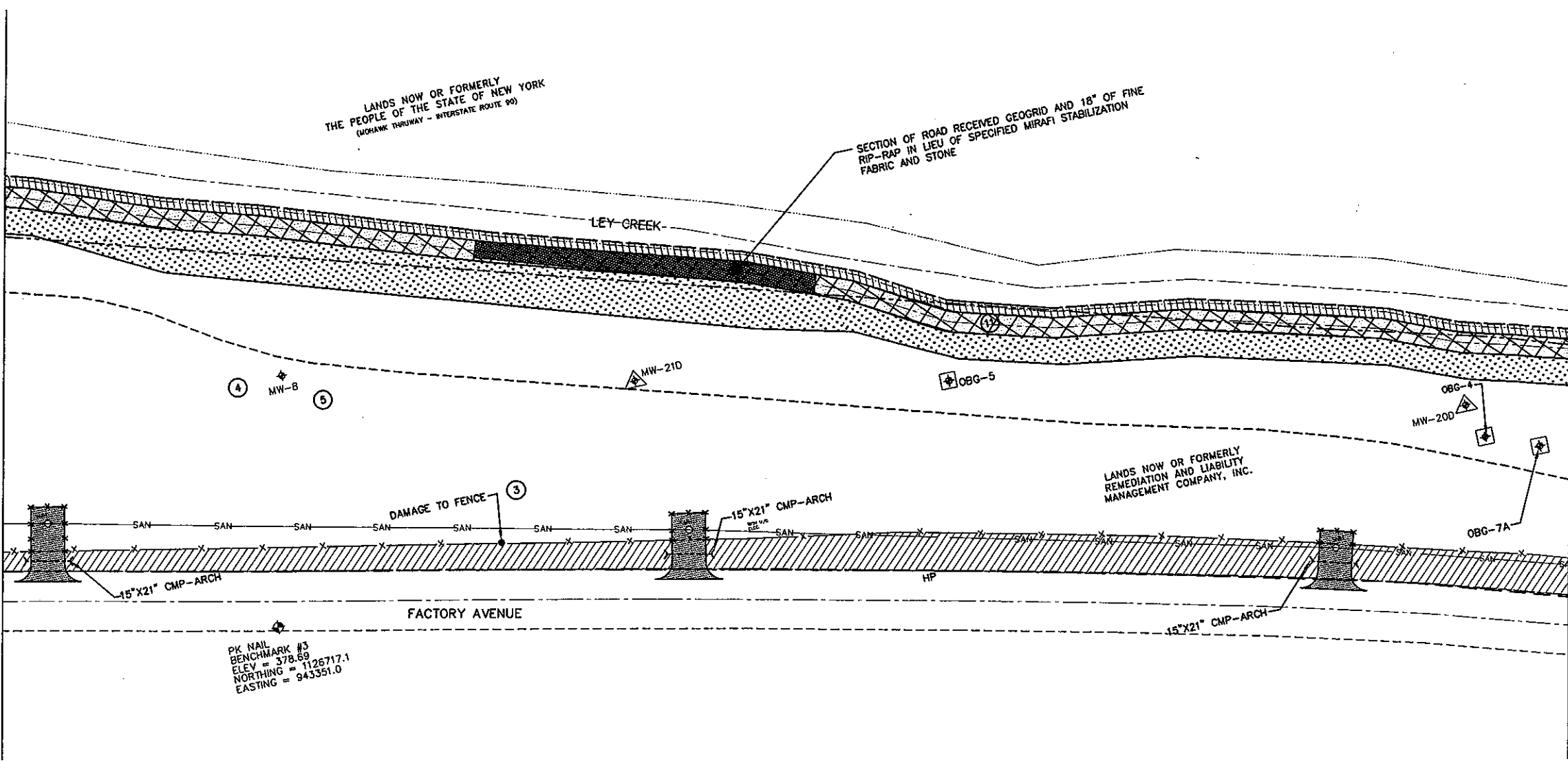


FIGURE 4

- LEGEND**
- SEEDED WITH CANARY GRASS
 - OVERHEAD WIRES
 - PROPERTY BOUNDARY
 - EDGE OF WOODS
 - UTILITY POLE
 - GUY WIRE
 - SANITARY SEWER
 - SANITARY MANHOLE
 - CATCH BASIN
 - SECURITY FENCE (SEE GENERAL NOTE 4)
 - PAVEMENT
 - GRAVEL ACCESS ROAD
 - LIMITS OF SOIL LOCATED ALONG FACTORY AVENUE RELOCATED BENEATH COVER SYSTEM
 - CATCH BASIN
 - MODIFIED MONITORING WELL
 - MONITORING WELL PRESUMED DESTROYED
 - ABANDONED MONITORING WELL
 - NEW MONITORING WELL
 - LIMITS OF EROSION CONTROL MAT
 - LIMITS OF COVER SYSTEM
 - LIMITS OF NON-WOVEN GEOTEXTILE
 - PHOTOGRAPH LOCATION

LEY CREEK PCB DREDGINGS SITE
SYRACUSE, NEW YORK
SITE REMEDIATION PROJECT

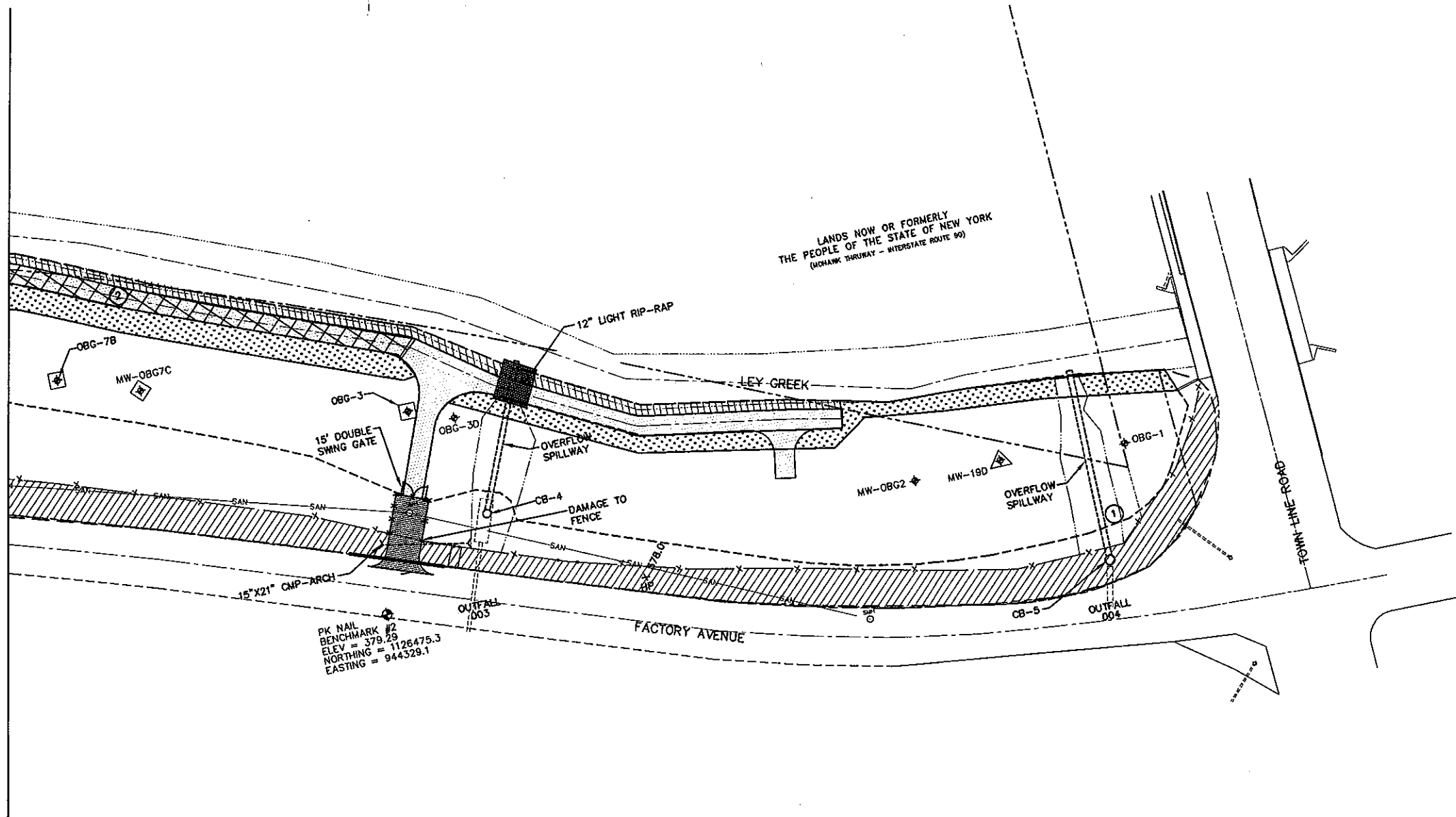
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OM&M INSPECTION
PARTIAL SITE PLAN



FILE NO. 4966.34124.030
DECEMBER 2004



MATCHLINE "E-E"
FOR CONTINUATION SEE FIG. 4



LANDS NOW OR FORMERLY
THE PEOPLE OF THE STATE OF NEW YORK
(MICHAMK THRUWAY - INTERSTATE ROUTE 90)

PK NAIL
BENCHMARK #2
ELEV = 379.29
NORTHING = 1126475.3
EASTING = 944329.1

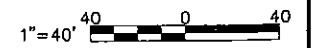
FIGURE 5

LEGEND

- SEEDED WITH CANARY GRASS
- OVERHEAD WIRES
- PROPERTY BOUNDARY
- EDGE OF WOODS
- UTILITY POLE
- GUY WIRE
- SANITARY SEWER
- SANITARY MANHOLE
- CATCH BASIN
- SECURITY FENCE (SEE GENERAL NOTE 4)
- PAVEMENT
- GRAVEL ACCESS ROAD
- LIMITS OF SOIL LOCATED ALONG FACTORY AVENUE RELOCATED BENEATH COVER SYSTEM
- CATCH BASIN
- MW-OBG7C MODIFIED MONITORING WELL
- MONITORING WELL PRESUMED DESTROYED
- ABANDONED MONITORING WELL
- NEW MONITORING WELL
- LIMITS OF EROSION CONTROL MAT
- LIMITS OF COVER SYSTEM
- LIMITS OF NON-WOVEN GEOTEXTILE
- PHOTOGRAPH LOCATION

LEY CREEK PCB DREDGINGS SITE
SYRACUSE, NEW YORK
SITE REMEDIATION PROJECT

DECEMBER 2004
OM&M INSPECTION
PARTIAL SITE PLAN



FILE NO. 4966.34124.031
DECEMBER 2004

