

New Gaming Facility Location Board
Response to Request for Applications to Develop and Operate a
Gaming Facility in New York State

TIOGA DOWNS RACETRACK, LLC

Exhibit VIII.C.17.a.

2005 Engineering Report

Tioga Downs Racetrack Water and Sewer Systems Engineering Report

Tioga Downs Racetrack, LLC
Town of Nichols
Tioga County, New York

Prepared For:

Tioga Downs Racetrack, LLC
c/o Newmark & Company Real Estate Inc.
125 Park Avenue
New York City, New York 10017



229-231 State Street, Fourth Floor • Binghamton, NY 13901 • Phone: 607.722.1100 • Fax: 607.722.2515

• E-mail: info@keystoneassociatesllc.com • www.keystoneassociatesllc.com

**WATER AND SEWER SYSTEMS ENGINEERING REPORT
 TIOGA DOWNS RACETRACK, LLC
 TOWN OF NICHOLS
 TIOGA COUNTY, NEW YORK**

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**Tioga Park
Town of Nichols
Tioga County, NY**

I INTRODUCTION

Tioga Downs Racetrack, LLC (Owner) has purchased the 140 acre Tioga Park property in the Town of Nichols, Tioga County, New York. Originally developed as a horse racing facility, the facility was only used for racing for two seasons in the late 1970's and then as a flea market and equestrian arena in recent years.

Proposed redevelopment of the property includes the construction of a new grandstand and gaming facility in the location of the existing grandstand, and a new paddock barn. The existing water and sewer facilities on the site were evaluated based on the proposed redevelopment to determine what improvements would be required. As it was determined that significant new water infrastructure would be required, the evaluation also considered a potential future hotel in the design of the new water infrastructure.

A location map, USGS vicinity map, and aerial photograph are included as Figures 1, 2 and 3.

2 WATER SYSTEM

2.1 Overview

The existing water system serving the facility consists of a well, pump house, storage tank, and water distribution system. Tioga County Health Department (TCHD) has indicated that the water system will be classified as a Transient Noncommunity (TNC) water system, but that testing will be required for organics in addition to the parameters specified by Subpart 5-1 of the State Sanitary Code for TNC systems, and that a Grade C certified operator will be required for the system (see Appendix A for correspondence).

The existing water system facilities were evaluated based on the proposed redevelopment of the site to determine if improvements would be required. As it was determined that significant new infrastructure would be required, the anticipated water supply requirements of a potential future hotel were also included in the evaluation, to ensure that the new infrastructure would be adequate for the requirements of the future hotel.

2.2 Evaluation of Existing Facilities

2.2.1 Well

No records could be located for the existing well or well pump. Field measurements indicated that the well is approximately 81 feet deep, with a static water level approximately 45 feet below the surface. A well driller is being contracted to test the existing well to determine yield, static water levels, etc. Records from this test will be submitted as an amendment to this report. There are some difficulties with the operation of the well pump in that there are no automatic controls based on tank level, and therefore the well pump must be controlled manually using an on/off switch located in the pump house. An automatic control system will be provided for the well pump to maintain tank level within a limited operating range.

2.2.2 Pump House

The existing pump house has a propane-fueled fire pump, propane gas heater and a sodium hypochlorite metering pump. The piping consists of 2" galvanized steel pipe from the well, and 6" and 10" steel piping. Some of the piping is significantly deteriorated and will be replaced, particularly the 6" and 10" piping which is badly rusted. The propane-fueled fire pump has never been connected so that it could operate, and will be removed.

2.2.3 Water Storage Tank

The storage tank is 20 feet in diameter, 85 feet tall with a capacity of 200,000 gallons. The water storage tank was drained and inspected inside and out and determined to be structurally sound. The coating systems on the interior and exterior of the tank are badly deteriorated, and therefore all surfaces will be recoated. The existing interior coating system, which will be

completely removed down to bare metal prior to repainting, is not believed to contain lead but will be tested prior to removal. Samples of the sediment material found inside the tank were sent to Eastern Laboratories. Test results for this material are included in Appendix B. This sediment material will be removed and disposed of properly.

2.2.4 Distribution System

The water distribution system is constructed of asbestos-cement (A-C) pipe, primarily 10" and 8" size. Water samples at two distribution points were tested for asbestos, and the results were below the detection limit of the testing procedure (<0.2 million fibers per liter (MFL)), and as well below the MCL specified by New York State regulations (7 MFL), indicating there is not currently a contamination problem from the piping. Laboratory analysis certificates are included in Appendix C.

A deficiency with the existing system is that there is a broken water main(s) in the parking lot of the grandstand area. This piping is currently not in service, but when the valves were opened water came up to the surface of the ground through cracks in the pavement. A new water distribution system will be provided from the pump house to the grandstand area to eliminate the broken piping and to address any concerns regarding future asbestos contamination of the water. The existing A-C distribution system to the horse barns and office (back track area) will remain in service as a branch system from the new distribution system, but the back track branch system will be separated from the new system with a backflow preventer.

An additional deficiency noted is that no backflow prevention exists for the hose bibbs located in each of the horse barns. A vacuum breaker will be installed on each hose bibb.

2.3 Water Quality

Water sampling data obtained by Eastern Laboratories is summarized in Table 2-1, with laboratory analysis certificates included in Appendix C. All water quality parameters tested were below their respective MCLs, with the following exceptions:

- Nitrate (as N) – Two samples were taken at the pump house, with results of 14.9 mg/l (Nitrate) and 12.7 mg/l (Nitrate/Nitrite). Both of these values are above the MCL of 10 mg/l. Due to the high nitrate levels, the Tioga County Health Department recommended that the raw water supply (prior to chlorination) be tested for Total Coliforms and E. Coli. The raw water tested positive for Total Coliforms, which is not unusual for raw water, but negative for E. Coli.
- Chloride – One sample was taken at the office bathroom, with a result of 267 mg/l versus the MCL of 250 mg/l. A second sample was then taken at the pump house, with a result of 151 mg/l. The average of these two values is 209 mg/l, which is below the MCL. Therefore, no treatment measures will be necessary.

Additionally, a water sample from the office bathroom was tested for sodium, with a result of 56 mg/l. There is no designated MCL for sodium, however, Table 2 of Subpart 5-1 notes that water containing more than 20 mg/l of sodium should not be used for drinking by people on severely restricted sodium diets. Due to the fact that it is a transient non-community water system, it is believed that this sodium level should not present a problem.

Testing for organic components has not been performed, but will be completed prior to placing the system in operation.

In summary, with the exception of the nitrate levels, the existing water supply appears to be of suitable quality, with disinfection, to use for potable water in accordance with Subpart 5-1 of the State Sanitary Code. Upon completion of the well yield test the raw water will be resampled for nitrates, and sampled for organic chemicals. The results of this testing will be submitted as an amendment to this report.

**Table 2-1
Drinking Water Sampling Results**

Parameter	Sampling Location	Date	Result	MCL	Units
Asbestos	Office-Bathroom	4/19/05	<0.200	7	MFL ¹
Asbestos	Concession Stand	4/19/05	<0.200	7	MFL ¹
Antimony	Office-Bathroom	4/19/05	<0.0050	0.006	mg/l
Arsenic	Office-Bathroom	4/19/05	<0.005	0.05	mg/l
Barium	Office-Bathroom	4/19/05	0.084	2.00	mg/l
Beryllium	Office-Bathroom	4/19/05	<0.0010	0.004	mg/l
Cadmium	Office-Bathroom	4/19/05	<0.0020	0.005	mg/l
Chromium	Office-Bathroom	4/19/05	<0.0050	0.10	mg/l
Cyanide (total)	Office-Bathroom	4/19/05	<0.025	0.2	mg/l
Mercury	Office-Bathroom	4/19/05	<0.0002	0.002	mg/l
Selenium	Office-Bathroom	4/19/05	<0.005	0.05	mg/l
Silver	Office-Bathroom	4/19/05	<0.0010	0.1	mg/l
Thallium	Office-Bathroom	4/19/05	<0.002	0.002	mg/l
Fluoride	Office-Bathroom	4/19/05	<0.2	2.2	mg/l
Chloride	Office-Bathroom	4/19/05	267	250.0	mg/l
Chloride	Pump House	6/16/05	151	250.0	mg/l
Iron	Office-Bathroom	4/19/05	0.11	0.3 ²	mg/l
Manganese	Office-Bathroom	4/19/05	<0.0050	0.3 ²	mg/l
Sodium	Office-Bathroom	4/19/05	56	No Designated Limits ³	mg/l
Sulfate (as SO ₄)	Office-Bathroom	4/19/05	24	250.0	mg/l
Zinc	Office-Bathroom	4/19/05	0.011	5.0	mg/l
Color	Office-Bathroom	4/19/05	5.00	15	Units
Odor	Office-Bathroom	4/19/05	<1	3	Units
Nitrate (as N)	Pump House	6/16/05	14.9	10	mg/l
Nitrite (as N)	Pump House	6/16/05	0.04	1	mg/l
Nitrate/Nitrite (as N)	Pump House	6/27/05	12.7	10	mg/l
Free Residual Chlorine	Office-Bathroom	4/19/05	0.20	4.0 Max, 0.2 Min	mg/l
Distribution Point Turbidity	Office-Bathroom	6/16/05	<0.200	5	NTU
Total Coliforms (Raw Water)	Pump House	7/14/05	Presence	Any positive sample	
Total Coliforms	Office-Bathroom	4/19/05	Absence	Any positive sample	
Total Coliforms	Concession Stand	4/19/05	Absence	Any positive sample	
E. Coli (Raw Water)	Pump House	7/14/05	Absence	Any positive sample	
E. Coli	Office-Bathroom	4/19/05	Absence	Any positive sample	
E. Coli	Concession Stand	4/19/05	Absence	Any positive sample	
Total Hardness (as CaCO ₃)	Office-Bathroom	5/26/05	367	Not Applicable	mg/l
Total Dissolved Solids	Pump House	6/16/05	778	Not Applicable	mg/l

¹MFL = million fibers/liter (longer than 10 microns)

²If iron and manganese are present, the total concentration of both should not exceed 0.5 mg/l.

³Water containing more than 20 mg/l of sodium should not be used for drinking by people on severely restricted sodium diets. Water containing more than 270 mg/l of sodium should not be used for drinking by people on moderately restricted sodium diets.

2.4 Flow Requirements

Design flows for the redeveloped facility are shown in Table 2-2. See Appendix D for derivation of these flows.

**Table 2-2
Water System Design Flows**

Facility	Average Flow (gpd)	Peak Flow (gpm)	Fire Flow
<u>Current Redevelopment</u>			
Grandstand/Gaming Facility	18,560	160 (See Note 5)	1000 gpm for 90 minutes (see Note 1)
Paddock Barn	960	(incl. w/ Grand.)	See Note 2
Office Building & Security Trailer	912	30	See Note 2
Horse Barns	1,560	(incl. w/ Office)	See Note 2
Total for Current Redevelopment	22,000 (15.3 gpm)	190	1000 gpm for 90 min. (See Note 3)
<u>Future Development</u>			
Hotel	9,600	108	See Note 4
Total for Current Redevelopment plus Future Hotel	31,600 (21.9 gpm)	298	1000 gpm for 90 min. (See Note 3)

Notes:

1. Fire protection for the Grandstand/Gaming Facility will be provided by a sprinkler system and associated fire booster pump located in the Grandstand/Gaming Facility. Water supply requirement to the Grandstand of 1000 gpm for 90 minutes, for 90,000 gallons total, is per National Fire Protection Association (NFPA) requirements. This flow must be provided to the fire pump at positive pressure (greater than 0 psi), to maintain a flooded suction on the pump.
2. Proposed Paddock Barn and existing Office Building, Security Trailer, and Horse Barns do not have specific design fire flow requirements. Some fire protection, as capable of being supplied by the water distribution system, will be provided by fire hydrants on the distribution system.
3. Total fire flow requirement was assumed to be equal to the requirement for the Grandstand/Gaming Facility, as this will be the largest facility on-site. It was also assumed that it is unlikely that there would be simultaneous fires at different buildings on site.
4. It was assumed that the fire flow requirement for the Hotel will be less than for the Grandstand/Gaming Facility, as the Hotel will be a smaller facility than the Grandstand/Gaming Facility.
5. Peak flow for Grandstand/Gaming Facility per mechanical engineer for the project.

The new well pump will be sized to refill the tank in approximately a 6 hour period. Sizing the pump to account for the current redevelopment plus the future hotel therefore results in a minimum pumping rate of 88 gpm. A design pumping rate of 90 gpm will be used.

2.5 Storage Requirements

Minimum storage capacity is required to be equal to the average daily consumption plus the fire flow requirement. A summary of capacity requirements is shown in Table 2-3.

Table 2-3
Water Storage Requirements

Capacity Requirement	Volume (gallons)	
	Current Redevelopment	Current Redevelopment plus Future Hotel
Average Daily Flow	22,000	31,600
Fire Flow	90,000	90,000
Total	112,000	121,600

The total capacity of the existing water storage tank is 200,000 gallons, therefore the tank is of adequate volume.

2.6 Hydraulic Analysis

Hydraulic analysis was performed to verify the capability of the existing water storage tank and proposed distribution system to provide the water flow, volume and pressure requirements for the site for the current redevelopment plus the future hotel. It was determined that the system will be adequate for both peak domestic and fire flow conditions. It will be necessary to operate the tank with the top of its operating band near the overflow of the tank (2 feet below the overflow was assumed). The volume of the operating band is recommended to be equal to the average daily flow, which equates to a band of 9.4 feet for the current redevelopment and 13.4 feet for the current redevelopment plus the future hotel. This will ensure that a minimum of 30 psi will be available at all buildings on site under peak domestic flow conditions, with the tank at any level in the operating band. This will also ensure that positive pressure can be maintained at the Grandstand facility fire pump suction for the entire fire flow duration, with the water level in the tank at the beginning of the fire flow period being at the bottom of the normal domestic operating band. Hydraulic calculations for each design condition are included in Appendix E.

2.7 Proposed Improvements

Proposed improvements to place the water system in satisfactory working condition for the redeveloped site are as follows:

1. Perform well yield testing.
2. Resample the raw water for nitrates, and sample for organic chemicals.
3. The existing submersible well pump will be replaced with a submersible well pump rated for 90 gpm.

4. The interior piping in the pump house will be completely removed, including the propane-fueled fire pump. All new piping will be installed inside the pump house.
5. A water meter will be installed on the well discharge piping inside the pump house, so that the amount of water pumped per day can be monitored and recorded for future system operations.
6. A new chemical metering pump for feeding sodium hypochlorite will be installed in the pump house, and will inject into the piping from the well. The metering pump will be interlocked with the well pump to operate when the well pump is operating, with the chemical feed rate manually adjusted. Design information for the chemical metering pump is included in Appendix F.
7. Power to the pump house and well will be provided from the new Grandstand facility. The electrical loads at the pump house and well will be included in the sizing of the emergency generator at the Grandstand facility.
8. Sediment material will be removed from the Water Storage Tank and disposed of properly.
9. All interior and exterior surfaces of the Water Storage Tank will be repainted.
10. An impressed current cathodic protection system will be installed on the Water Storage Tank to minimize corrosion.
11. A control system will be provided to automatically operate the well pump based on Water Storage Tank level, utilizing a pressure transducer mounted on the piping in the pump house and a tank level meter with digital level indication and operator-adjustable setpoints for control of the well pump. The control system should be set up so that the storage tank will operate through an operating band with a volume roughly equal to the average daily flow, which will infuse water into the system to minimize freeze-up, and provide turnover of water in the tank.
12. A new PVC pipe (AWWA C-900) distribution system will be constructed from the pump house to the grandstand area, with a hydrant loop around the grandstand area, to address any concerns regarding future asbestos contamination of water from the existing A-C pipe. The existing A-C pipe distribution system to these areas will be abandoned in place. The existing A-C pipe serving the horse barns and office building (back track area) will remain in service, as a branch line from the new PVC distribution system, and will be separated from the new PVC distribution system with a double check valve backflow preventer.
13. The hose bibbs in each horse barn will be provided with vacuum breakers for backflow prevention.

3 SEWAGE DISPOSAL SYSTEM

3.1 Overview

The existing sewage disposal facilities are permitted under New York State Pollutant Discharge Elimination System (SPDES) Permit No. NY-0244881. This permit has been transferred from the previous property owner, Hawkins Development Company LLC, to the current Owner, Tioga Downs Racetrack, LLC. A copy of the SPDES permit is included in Appendix G. A previous engineering report for the sewage system was completed in 1996 by Fox Engineering and is included in Appendix H.

The facilities consist of two separate on-lot disposal systems identified as System #1 and System #2, both located in the infield area of the racetrack.

System #1, identified as Outfall No. 1 in the SPDES permit, has a permitted design flow of 19,900 gallons per day (gpd). This system, which serves the grandstand and its related areas, consists of two parallel septic tanks followed by a dosing chamber and three leach fields.

System #2, identified as Outfall No. 2 in the SPDES permit, has a permitted design flow of 9,900 gpd. This system, which serves the general office area and security trailer, consists of a septic tank followed by a dosing chamber and two leach fields.

The existing sewage disposal facilities were evaluated based on the proposed redevelopment of the site to determine if improvements would be required. The potential future hotel was not included in this evaluation, as it was determined that the sizing of the existing septic systems is adequate for the current redevelopment. The increased sewage disposal requirements associated with the hotel will be addressed if and when the hotel is designed.

3.2 Evaluation of Existing Facilities

3.2.1 System #1

System #1 has been inactive for a considerable length of time but will be placed into full service with the construction of the new grandstand and paddock barn. Investigatory field work was performed to determine if the various components of the system were still in existence and operable. A field survey located the septic tanks, dosing chambers, distribution boxes, and manholes. It was determined that these components were installed and generally in the locations shown on the existing drawings.

The various system components were exposed so that they could be examined and tests could be performed as necessary. A leakage test was performed on the sewer from the manhole on the south side of the racetrack to the flow division manhole immediately upstream of the septic tanks, by inserting a plug in the downstream end and filling the line with water from the upstream manhole. The test indicated that there is a leak in this section of the line, and a new

parallel sewer will be installed. The existing sewer will be abandoned in place as it is constructed of A-C pipe.

Water flow tests were conducted on the entire septic system, from the flow division manhole, through the septic tanks, the dosing chamber, the distribution boxes, and to the leach fields. All of the piping and equipment components for the entire septic system appeared to be in good working order. However, it was determined that although the siphons in the dosing chamber operate, the manner in which they operate is not acceptable in that the same two fields are always active and the third field is always at rest. There are no existing means to alternate the resting field, and therefore a means for alternation of the third field will be installed.

It was also determined that the leach fields were intact and properly shown on the existing drawings.

3.2.2 System #2

System #2 has been in operation, serving the Park office and the security trailer. No additional facilities will be connected to the system. As the system has been in operation with no problems reported by the Owner, no tests were performed on this system.

It should be noted that System #2 was previously tested in 1996, per the 1996 Engineering Report, and a broken sewer line was identified and repaired at that time. It should also be noted that the 1996 Engineering Report proposed the addition of restrooms and kitchen facilities to the barn immediately to the north of the Office, to be connected to System #2 via an 8" sewer with a grease trap. However, these improvements were never constructed.

3.2.3 Septic System Monitoring Wells

Six (6) monitoring wells were originally installed to periodically check groundwater downstream from the leaching fields. A diagram of the locations of these wells is included with the SPDES Permit in Appendix G of this report. Monitoring wells #2, 3, 4 and 6 were located, and water samples were taken from each with the exception of #3, which was dry. Monitoring wells #1 and 5 could not be located. A summary of the sampling results is shown in Table 3-1, with laboratory analysis certificates included in Appendix I. These results did not indicate any groundwater contamination from the septic systems.

**Table 3-1
Septic System Monitoring Well Sampling Results**

Monitoring Well	Parameter	Date	Result	Detection Limit	Units
MW-2	Nitrate	4/22/05	<0.05	0.05	mg/l
	pH	4/22/05	6.63	-	pH Units
	Fecal Coliforms	4/22/05	<10	10	CFU/100 ml
MW-4	Nitrate	4/22/05	<0.05	0.05	mg/l
	pH	4/22/05	9.47	-	pH Units
	Fecal Coliforms	4/22/05	<10	10	CFU/100 ml
MW-6	Nitrate	4/22/05	0.09	0.05	mg/l
	pH	4/22/05	7.22	-	pH Units
	Fecal Coliforms	4/22/05	<10	10	CFU/100 ml

3.3 Flow Requirements

Design flows to each septic system for the current redevelopment are shown in Table 3-2. A complete analysis of these flows is included in Appendix D. The design flows to each system for the current redevelopment are less than the respective currently permitted capacities, and therefore an analysis of the existing septic system design parameters was not performed.

**Table 3-2
Septic System Design Flows**

Septic System/Facility	Average Daily Flow (gpd)
System #1	
Grandstand/Gaming Facility	18,560
Paddock Barn	960
Total System #1 Design	19,520
Permitted Capacity	19,900
System #2	
Office Building & Security Trailer	912
Total System #2 Design	912
Permitted Capacity	9,900

3.4 Proposed Improvements

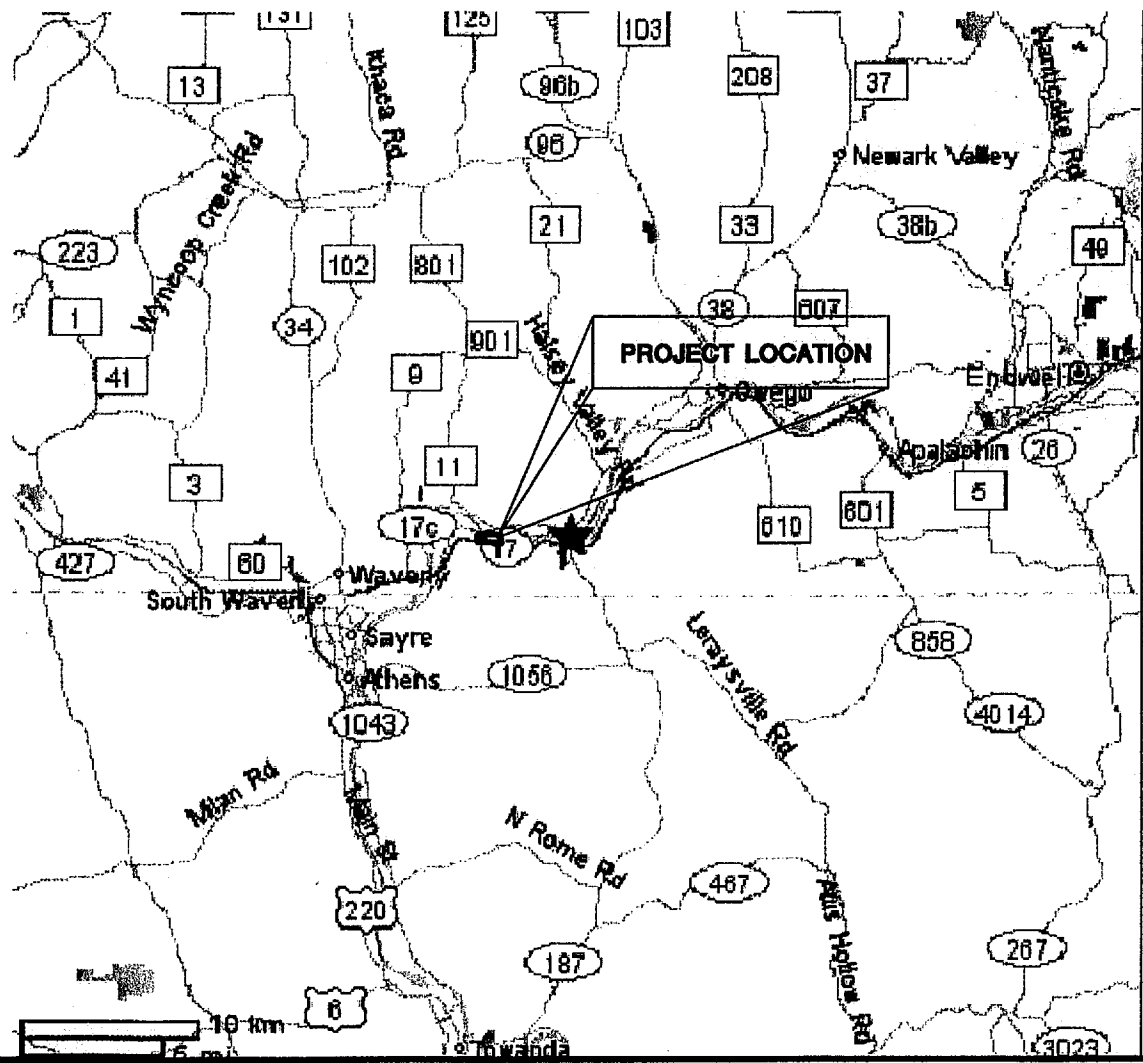
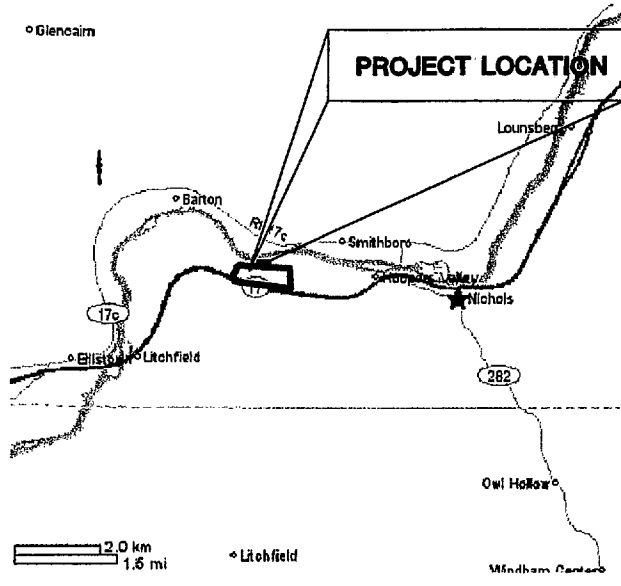
Proposed improvements to place the sewage disposal system in satisfactory working condition for the redeveloped site are as follows:

- I. On System #1, a new 8" PVC sewer collection system will be installed from the new grandstand and paddock barn to the flow division manhole immediately upstream of the

septic tanks. The existing A-C sewer system upstream of this manhole, including the leaking 8" line that crosses the racetrack, will be abandoned in place.

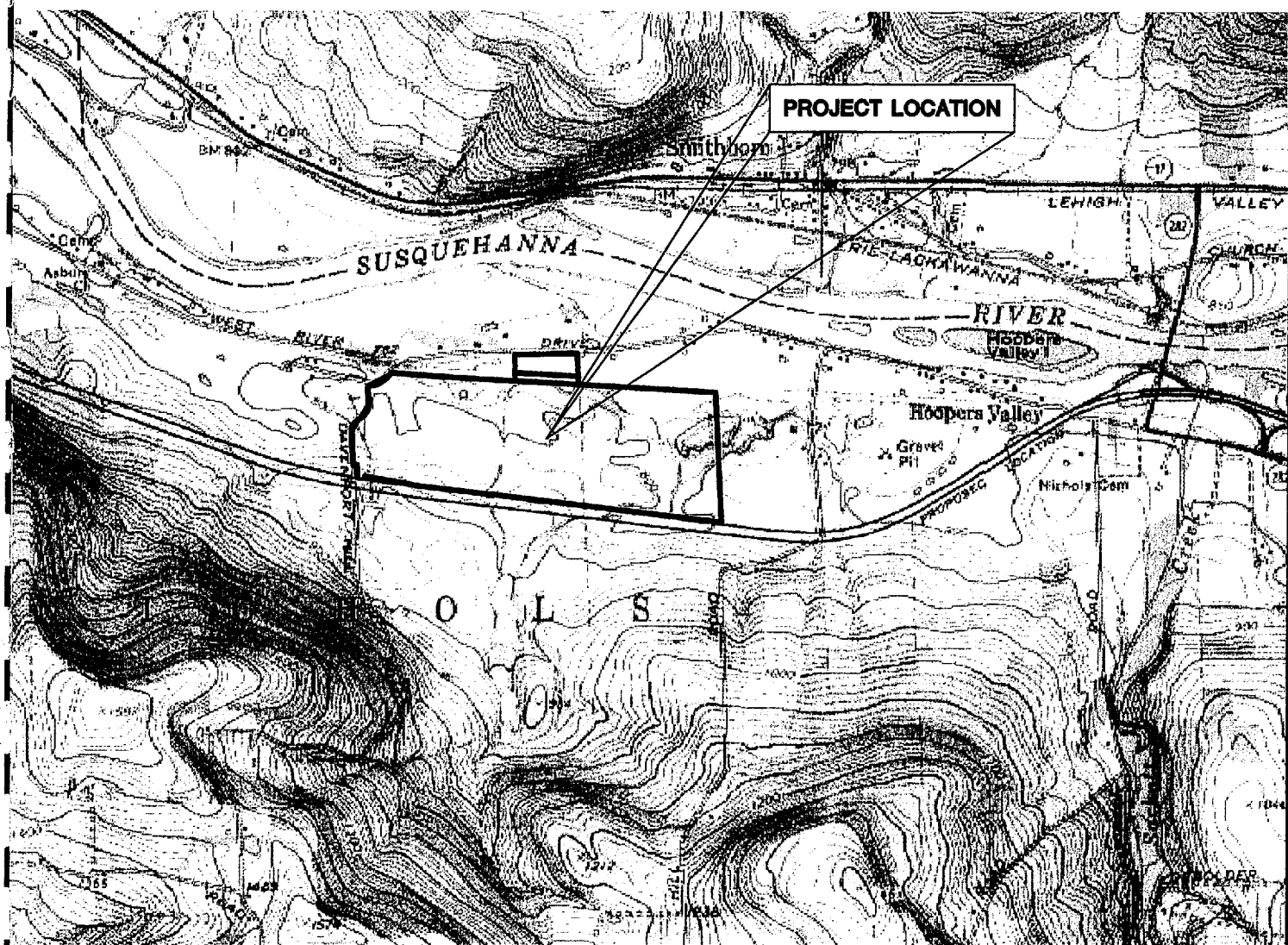
2. On System #1, the new PVC sewer system will include an external grease trap for the grandstand kitchen waste.
3. On System #1, a 2000 gallon septic tank will be installed immediately downstream of the paddock barn. The effluent from this septic tank will flow through the new PVC sewer system to the existing septic system. Waste from the paddock barn will include both horse waste and sediment from washing down the floors in the stable area, and regular domestic waste from the restrooms. The septic tank will be installed to lessen the impact of these loads, particularly the washdown loads, on the existing septic tanks. The tank is sized to be roughly equal to two times the average daily flow of 960 gpd. NYSDEC's *Design Standards for Wastewater Treatment Works 1988 – Intermediate Sized Sewerage Facilities* requires that for facilities with flows under 5000 gallons per day, septic tanks be sized for 1.5 times the average daily flow. It also indicates that for facilities with garbage grinders, due to the additional solids loading, the sizing be increased by 1/3, or to 2.0 times the average daily flow. Although the paddock barn will not have garbage grinders, the potential additional solids loading from the horse waste washdown was assumed to have the same effect and therefore the 2.0 multiplier was used.
4. On System #1, a valve will be installed on each of the three lines from the dosing chamber to the individual leach field distribution boxes. This will allow manual alternation of which field is off-line for recovery, with the existing dosing system automatically alternating flow to the two active leach fields. It is recommended that this manual alternation be performed monthly.
5. The septic tanks for both systems will be totally pumped out prior to the start of the new season.

FIGURES



TIOGA DOWNS RACETRACK
TOWN OF NICHOLS
TIOGA COUNTY NEW YORK STATE

FIGURE 1
LOCATION MAP



PROJECT LOCATION

SUSQUEHANNA RIVER

Hoopers Valley

NICHOLS

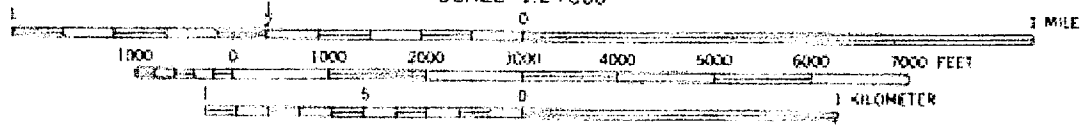


NEW YORK

BARTON, N.Y.

SW 1/4 OWEGO 15' QUADRANGLE
N4200—W7622.5/7.5

SCALE 1:24,000



CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

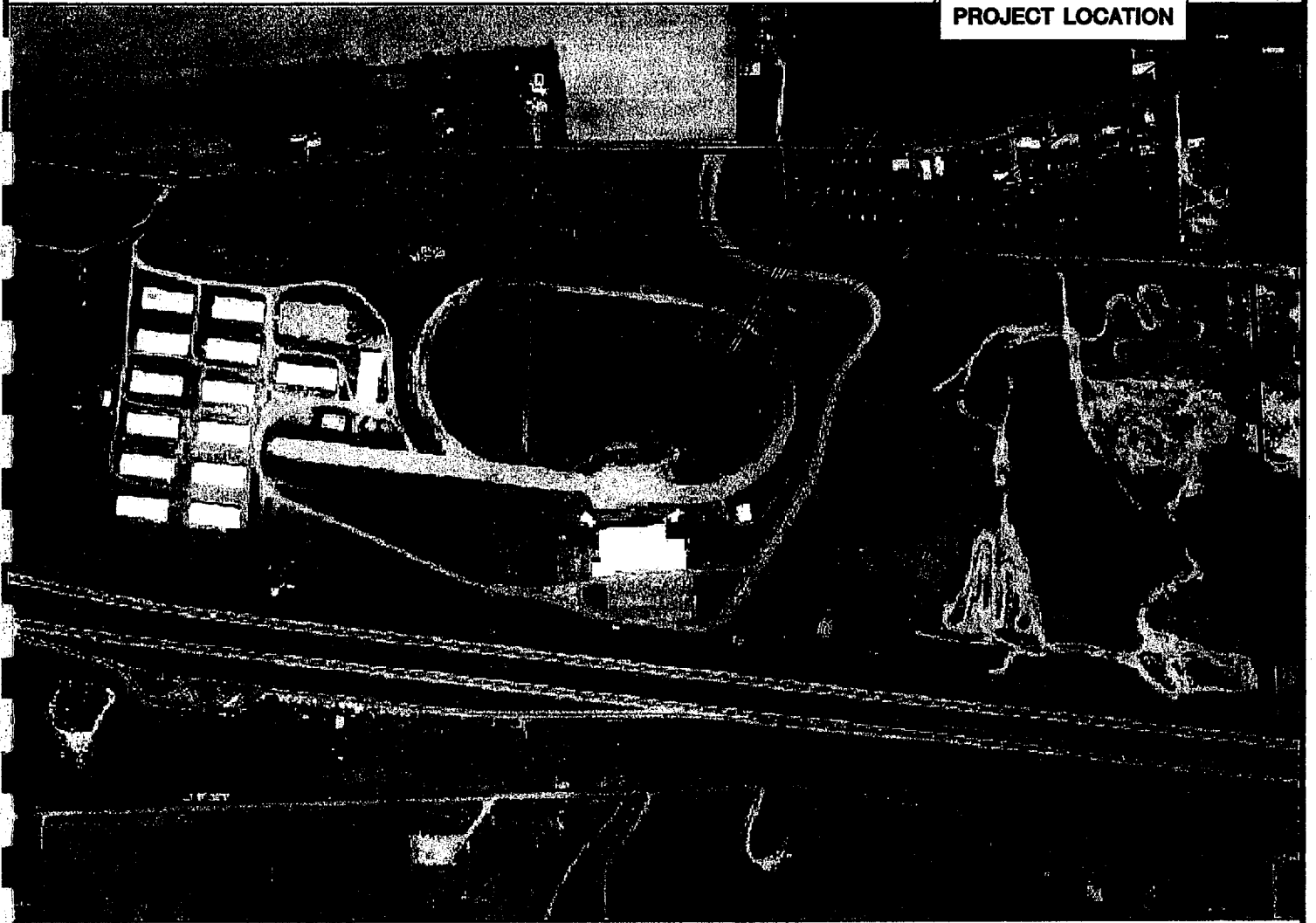


TIOGA DOWNS RACETRACK
TOWN OF NICHOLS
TIOGA COUNTY NEW YORK STATE

FIGURE 2
USGS VICINITY MAP



PROJECT LOCATION



SCALE: 1" = 600 FT



TIOGA DOWNS RACETRACK
TOWN OF NICHOLS
BROOME COUNTY NEW YORK STATE

FIGURE 3
AERIAL PHOTO

APPENDIX A
TIOGA COUNTY HEALTH DEPARTMENT CORRESPONDENCE



Johannes Pecters, MPA
Public Health Director

TIOGA COUNTY HEALTH DEPARTMENT

231 Main Street
Owego, New York 13827-1697

Public Health	(607) 687-8600	fax - 687-8486 / 2916
Environmental Health	(607) 687-8620	fax - 687-6041
Administration	(607) 687-8630	fax - 687-8636
Toll Free	1-800-282-4884 (Owego)	

June 30, 2005

Keystone Associates
229-231 State st. 4th floor
Binghamton, NY 13901

Att: Mr. David Chase

RE: Tioga Downs Race track
Public Water Supply
Year 2005 Sampling Requirements

Dear Mr. Chase:

We are writing to advise you of the sampling requirements for the calendar year of 2005. These requirements are based on Part 5-1 of the New York State Sanitary Code and past sampling results.

Our system data records indicate that your public water system is classified as a Transient Non-community water supply that serves 25 persons or more. Your water system receives its water from one ground water source.

Bacteriology

A water sampling plan indicating where you collect your bacteriological samples from must be submitted to the Environmental Health Department for approval. You are required to collect a Monthly sample for each water supply according to your approved sampling plan. Free chlorine residual at the time of sampling must be reported on the water analysis report laboratory submitted to the Health Department. Samples that do not indicate the free chlorine residual at the time of sampling will NOT be considered as valid samples.

Nitrates

A Sample for Nitrates must be collected from your water system annually. If any monitoring results exceed the MCL of 10 mg/l you are to notify this office and collect a repeat sample within 24 hours.

Inorganic Sampling

Inorganic Samples must be taken before 12/31/2005. If any monitoring results exceed the MCL, you are to notify this office within 48 hours to receive confirmation-monitoring instruction.

VOC's

VOC sampling must be completed before 12/31/2005. If contaminants are detected, continued quarterly sampling will be required. If contaminants exceed the MCL 5 ug/l (2ug/l for vinyl chloride), you must notify this agency within 48 hours for further monitoring instructions.

Be advised that pending a vulnerability analysis for each well, you may qualify for a six-year sampling schedule for each well. Upon completion of the analysis, you may request a waiver to sample for VOC's every six years.

The state has the discretion to allow for testing once every three-years for the public surface water system which has three consecutive annual samples with no detection of a contaminant.

SOC's

SOC sampling must be completed before 12/31/2005. If contaminants above the MCL are detected you must contact this agency within 48 hours for further monitoring instructions.

Operator Certification

You are reminded that you must have a Grade C operator in charge of the treatment of your water supply. If there is any change to the operator of record, our office must have the name, grade, license number and expiration date of your operator for our records. Please submit this information within 10 working days of any change taking place.

Operational Reports

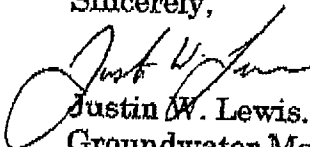
As a reminder operational reports must be submitted to this agency no later than the 10th day of the month following the end of the reporting period.

All other sampling requirements are waived at this time due to the population and number of service connections at your park. If the population exceeds 25 persons or 15 service connections additional sampling may be required.

You are reminded that your Department of Health approved laboratory must, in addition to providing you with a copy of the analysis results send an additional copy to the Tioga County Environmental Health Services. Copies may be faxed to Tioga County EHS at 607-687-6041.

If you have any questions regarding this matter contact this agency at 687-8620.

Sincerely,



Justin W. Lewis.

Groundwater Management Specialist

CC; John Strepelis, NYSDOH, Syracuse

APPENDIX B
WATER STORAGE TANK SEDIMENT TESTING RESULTS



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ENVIRONMENTA

390 N. Pennsylvania Av
 South Waverly, PA 18840-282
 Phone (570) 888-016
 FAX (570) 888-071

Sludge in Tank

Certificate of Analysis

Keystone Associates 229-231 State Street, Fourth Floor Binghamton NY, 13901	Project: Storage Tank Project No: [none] Project Manager: Edwin C. Gent, P.E.	Reported: 05/10/05 16:39
---	---	-----------------------------

**H2O Storage Tank
5E05035-01 (Water)**

Date Sampled: 05/03/05 15:00
 Date Received: 05/04/05 17:25

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Drinking Water Metals by EPA 200 Series Methods								
Calcium	870	0	mg/l	05/09/05 00:00	05/10/05 02:02	EPA 200.7	JAK	
Iron	2000	0.3	mg/l	05/09/05 00:00	"	"	JAK	
Magnesium	31	0	mg/l	05/09/05 00:00	"	"	JAK	

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Barbara Hohman

Reviewed by Barbara Hohman, QA Manager

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APPENDIX C
DRINKING WATER TESTING RESULTS



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 FAX (570) 888-0717

Certificate of Analysis

Tioga Downs Racetrack, LLC P.O. Box 509 Nichols NY, 13812	Project: Inorganic Chemicals & Physical Characteristics Project No: [none] Project Manager: Mark Phifer	Reported: 05/25/05 13:24
---	---	-----------------------------

Office-Men's Bathroom
 5D19032-01 (Water)

Date Sampled: 04/19/05 12:20
 Date Received: 04/19/05 15:10

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Conventional Chemistry Parameters by APHA/EPA Methods								
Chloride	267	250	mg/l	04/28/05 14:00	04/28/05 14:00	EPA 325.3	KAL	
Sulfate as SO4	24	250	mg/l	04/26/05 11:00	04/26/05 11:00	SM18-4500SO4-D	KAL	
Miscellaneous Physical/Conventional Chemistry Parameters								
Asbestos	<0.200	7	MFL	04/21/05 00:00	05/02/05 00:00	EPA 100.2		EMSL*
Chemical and Physical Parameters by APHA/ASTM/EPA Methods								
Color	5.00	15	Color U	04/19/05 15:50	04/19/05 15:50	EPA 110.2	IC	
Odor	<1	3	T.O.N.	04/19/05 15:40	04/19/05 15:40	EPA 140.1	IC	
Cyanide by Semi-Automated Spectrophotometry and FIA								
Cyanide (total)	<0.025	0.2	mg/l	04/28/05 12:00	05/02/05 00:00	EPA 333.4	IC	
Fluoride by Ion Selective Electrode								
Fluoride	-0.2	2	mg/l	04/20/05 13:00	04/20/05 13:00	SM18-4500F-C	KAL	
Mercury by EPA 245.1								
Mercury	<0.0002	0.002	mg/l	04/26/05 10:00	04/27/05 10:24	EPA 245.1	JD	
Metals by EPA 200 Series Methods								
Antimony	<0.0050	0.006	mg/l	05/02/05 00:00	05/02/05 10:01	EPA 200.9	JAK	
Thallium	<0.002	0.002	mg/l	04/29/05 00:00	04/29/05 11:30	"	JAK	
Drinking Water Metals by EPA 200 Series Methods								
Silver	<0.0010	0.1	mg/l	04/20/05 00:00	04/29/05 01:41	EPA 200.7	JD	
Arsenic	<0.005	0.05	mg/l	05/05/05 00:00	05/05/05 16:58	EPA 200.9	JAK	
Barium	0.084	2	mg/l	04/20/05 00:00	04/29/05 01:41	EPA 200.7	JD	
Beryllium	<0.0010	0.004	mg/l	04/20/05 00:00	"	"	JD	
Cadmium	<0.0020	0.005	mg/l	04/20/05 00:00	"	"	JD	
Chromium	<0.0050	0.1	mg/l	04/20/05 00:00	"	"	JD	
Iron	0.11	0.3	mg/l	04/20/05 00:00	"	"	JD	
Manganese	<0.0050	0.05	mg/l	04/20/05 00:00	"	"	JD	
Sodium	56	①	mg/l	04/20/05 00:00	05/02/05 02:04	"	JD	HLFB, LDR
Selenium	<0.005	0.05	mg/l	05/05/05 00:00	05/05/05 10:11	EPA 200.9	JAK	
Zinc	0.011	5	mg/l	04/20/05 00:00	04/29/05 01:41	EPA 200.7	JD	

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Certificate of Analysis

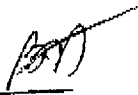
Tioga Downs Racetrack, LLC P.O. Box 509 Nichols NY, 13812	Project: Total Coliform Project No: [none] Project Manager: Mark Phifer	Reported: 07/15/05 15:02
---	---	-----------------------------

Pumphouse Spigot
5G14115-01 (Raw Water)

Date Sampled: 07/14/05 11:40
 Date Received: 07/14/05 17:17

Analyte	Result	MCL	Analyzed	Method	Analyst	Notes
Total Coliform P/A by SM9223B						
Total Coliforms	Presence	Absence	07/14/05 17:20	SM18-9223B	RML	
E. Coli	Absence	Absence	"	"	RML	

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Tioga Downs Racetrack, LLC P.O. Box 509 Nichols NY, 13812	Project: Total Coliform Project No: [none] Project Manager: Mark Phifer	Reported: 04/20/05 14:44
---	---	-----------------------------

**Office-Mens Bathroom CWT
 5D19020-02 (Drinking Water)**

Date Sampled: 04/19/05 12:20
 Date Received: 04/19/05 13:33

Analyte	Result	MCL	Analyzed	Method	Analyst	Notes
Residual Chlorine, Free (Field Analysis)						
Free Residual Chlorine	0.20	<4	mg/l	04/19/05 12:20	Field	
Total Coliform P/A by SM9223B						
Total Coliforms	Absence	Absence		04/19/05 14:00	SM18-9223B	KM
E. Coli	Absence	Absence		"	"	KM

Interpretation of Total Coliform results indicate that the sample was tested and is currently IN COMPLIANCE with the bacteriological drinking water standards, as established under the Safe Drinking Water Act of the Environmental Protection Agency.

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Certificate of Analysis

Tioga Downs Racetrack, LLC P.O. Box 509 Nichols NY, 13812	Project: Total Coliform Project No: [none] Project Manager: Mark Phifer	Reported: 04/20/05 14:44
---	---	-----------------------------

**Concession Stand-KCWT
 5D19020-01 (Drinking Water)**

Date Sampled: 04/19/05 12:10
 Date Received: 04/19/05 13:33

Analyte	Result	MCL	Analyzed	Method	Analyst	Notes
---------	--------	-----	----------	--------	---------	-------

Total Coliform P/A by SM9223B

Total Coliforms	Absence	Absence	04/19/05 14:00	SM18-9223B	KM	
E. Coli	Absence	Absence	"	"	KM	

Interpretation of Total Coliform results indicate that the sample was tested and is currently IN COMPLIANCE with the bacteriological drinking water standards, as established under the Safe Drinking Water Act of the Environmental Protection Agency.

Eastern Laboratory Services, Ltd.

Barbara Hohman

Reviewed by Barbara Hohman, QA Manager

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Certificate of Analysis

Tioga Downs Racetrack, LLC P.O. Box 509 Nichols NY, 13812	Project: Inorganic Chemicals & Physical Characteristics Project No: [none] Project Manager: Mark Phifer	Reported: 05/25/05 13:24
---	---	-----------------------------

EMSL* = Analyzed by NYS DOH#11606

HLFB = LFB percent recovery was high. The result may be bias high.

LDR = The reported value is above the high calibration standard, but within the linear dynamic range of the instrument and is considered an accurate value.

Concession Stand-Kitchen
 5D19032-02 (Water)

Date Sampled: 04/19/05 12:10
 Date Received: 04/19/05 15:10

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Miscellaneous Physical/Conventional Chemistry Parameters								
Asbestos	<0.200	7	MFL	04/21/05 00:00	05/02/05 00:00	EPA 100.2		EMSL*

EMSL* = Analyzed by NYS DOH#11606

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Certificate of Analysis

Tioga Downs Racetrack, LLC P.O. Box 509 Nichols NY, 13812	Project: Inorganic Chemicals & Physical Characteristics Project No: [none] Project Manager: Mark Phifer	Reported: 07/06/05 08:29
---	---	-----------------------------

**Pumphouse
 5F17016-01 (Water)**

Date Sampled: 06/16/05 05:30
 Date Received: 06/17/05 09:16

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Conventional Chemistry Parameters by APHA/EPA Methods								
Chloride	151	250	mg/l	06/23/05 00:00	06/23/05 00:00	EPA 325.3	BH	
Nitrate as N	14.9	10	mg/l	06/17/05 00:00	06/17/05 00:00	EPA 353.2	IC	
Nitrite as N	0.04	1	mg/l	06/17/05 08:00	06/17/05 16:54	"	IC	HCCV
Total Dissolved Solids	778	500 N/A	mg/l	06/20/05 00:00	06/20/05 00:00	EPA 160.1	KAL	HLFB

HCCV = Continuing Calibration Verification was above acceptance limits. Results may be biased high.
 HLFB = LFB percent recovery was high. The result may be bias high.

**Office-Bathroom
 5F17016-02 (Water)**

Date Sampled: 06/16/05 16:55
 Date Received: 06/17/05 09:16

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Chemical and Physical Parameters by APHA/ASTM/EPA Methods								
Turbidity	<0.200	0 5	NTU	06/17/05 09:00	06/17/05 15:30	EPA 180.1	IC	

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Barbara Hohman

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Certificate of Analysis

Tioga Downs Racetrack, LLC P.O. Box 509 Nichols NY, 13812	Project: Nitrate Project No: [none] Project Manager: Mark Phifer	Reported: 06/30/05 11:01
---	--	-----------------------------

Date Sampled: 06/27/05 12:15
 Date Received: 06/27/05 15:17

Well House
5F27030-01 (Water)

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Conventional Chemistry Parameters by APHA/EPA Methods								
Nitrate/Nitrite as N	12.7	10	mg/l	06/29/05 00:00	06/29/05 00:00	EPA 353.2	IC	

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Barbara Hohman [Signature]

Reviewed by Barbara Hohman, QA Manager

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Tioga Downs Racetrack, LLC P.O. Box 509 Nichols NY, 13812	Project: Inorganic Chemicals & Physical Characteristics Project No: [none] Project Manager: Mark Phifer	Reported: 06/01/05 10:14
---	---	-----------------------------

**Office-Bathroom
SE26091-01 (Water)**

Date Sampled: 05/26/05 11:45
Date Received: 05/26/05 16:23

Analyte	Result	MCL	Units	Prepared	Analyzed	Method	Analyst	Notes
Conventional Chemistry Parameters by APHA/EPA Methods								
Total Hardness as CaCO3	367	0	mg/l	05/31/05 10:45	05/31/05 10:45	EPA 130.2	KAL	

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**APPENDIX D
WATER AND SEWER DESIGN FLOWS**



Tioga Downs Racetrack Design Flows

Description	Units	Standard	Design	Design Flows		
		Flow Rate/ Unit ¹ (gpd)	Flow Rate/ Unit ² (gpd)	Water System (gpd)	Septic System #1 (gpd)	Septic System #2 (gpd)
<u>CURRENT REDEVELOPMENT</u>						
<u>Grandstand and Gaming Facility</u>						
Stadium Seats	1,238	5	4	4,952		
Bleacher Seats	400	5	4	1,600		
Simulcast Seats	74	5	4	296		
VLT Stations	750	5	4	3,000		
Restaurant Seats	218	35	28	6,104		
Bar / Lounge Seats	46	20	16	736		
VIP Lounge Seats	90	20	16	1,440		
Office Employees	36	15	12	432		
Subtotal				18,560	18,560	
<u>Paddock Barn</u>						
Building size (SF)	12,000	0.1	0.08	960	960	
<u>Office Building & Security Trailer</u>						
Office workers	5	15	12	60		
Groomers (1 per 5 horses)	52	15	12	624		
Kitchens	57	5	4	228		
Subtotal				912		912
<u>Horse Barns</u>						
Horse stalls (water only)	260	6	6	1,560		
Total Design Flows for Current Redevelopment (gpd)				21,992	19,520	912

FUTURE DEVELOPMENT

Hotel

Guest Rooms 100 120 96 9,600

(Note: Hotel septic system needs will be addressed if and when the hotel is designed.)

Total Design Flows for Current Redevelopment plus Future Hotel (gpd) 31,592

NOTES

¹ Standard flow rate values from *Design Standards for Wastewater Treatment Works - Intermediate Sized Sewerage Facilities*, New York State Department of Environmental Conservation, 1988, Table 3, with exception of flows for Horse Barns, which were obtained from the Owner for water consumption by horses.

² Flow rate values may be decreased by 20% with the installation of certified water saving plumbing fixtures, in accordance with *Design Standards for Wastewater Treatment Works - Intermediate Sized Sewerage Facilities*, 1988, p. 10. Value for Horse Barns not decreased as it is based on water consumption by horses.

Legend

gallons per day gpd
gallons per minute gpm
peaking factor pf



Tioga Downs Racetrack
Design Peak Flows to Office and Horse Barn Area

Fixture Type	Quantity
Office	
Women's Restroom	
Water closet (flush tank)	2
Lavatory	2
Shower	2
Men's Restroom	
Water closet (flush tank)	4
Urinal	4
Lavatory	3
Shower	2
Kitchen	
Sink, residential	1
Dishwasher, residential	1
Subtotal for Office	21
Security Trailer	
Restroom	
Water closet (flush tank)	1
Lavatory	1
Shower	1
Kitchen	
Sink, residential	1
Dishwasher, residential	1
Subtotal for Security Trailer	5
Horse Barns	
Each Barn	
Hose Bibb	2
Total per Each Barn	2
Number of Barns	14
Subtotal for All Horse Barns	28
Total Fixtures for Office, Security Trailer and Horse Barns	
	54

Based on Table E102 in New York State Plumbing Code, for 54 fixture units, with predominantly flush tanks, peak demand would be approximately 30 gpm (by interpolation).



Tioga Downs Racetrack

Design Peak Flows to Future Hotel

Fixture Type	Quantity
Future Hotel	
Each Guest Room	
Water closet (flush valve type)	1
Lavatory	1
Shower	1
Total Fixtures per Guest Room	3
Anticipated Number of Guest Rooms	100
Total Fixtures for Future Hotel	300

Based on Table E102 in New York State Plumbing Code, for 300 fixture units, with predominantly flush valves, peak demand would be 108 gpm.

TABLE E102
TABLE FOR ESTIMATING DEMAND

SUPPLY SYSTEMS PREDOMINANTLY FOR FLUSH TANKS			SUPPLY SYSTEMS PREDOMINANTLY FOR FLUSH VALVES		
Load	Demand		Load	Demand	
(Water supply fixture units)	(Gallons per minute)	(Cubic feet per minute)	(Water supply fixture units)	(Gallons per minute)	(Cubic feet per minute)
1	3.0	0.4104	—	—	—
2	5.0	0.6840	—	—	—
3	6.5	0.86892	—	—	—
4	8.0	1.06944	—	—	—
5	9.4	1.256592	5	15.0	2.0052
6	10.7	1.430376	6	17.4	2.326032
7	11.8	1.577424	7	19.8	2.646364
8	12.8	1.711104	8	22.2	2.967696
9	13.7	1.831416	9	24.6	3.288528
10	14.6	1.951728	10	27.0	3.60936
11	15.4	2.058672	11	27.8	3.716304
12	16.0	2.13888	12	28.6	3.823248
13	16.5	2.20572	13	29.4	3.930192
14	17.0	2.27256	14	30.2	4.037136
15	17.5	2.3394	15	31.0	4.14408
16	18.0	2.90624	16	31.8	4.241024
17	18.4	2.459712	17	32.6	4.357968
18	18.8	2.513184	18	33.4	4.464912
19	19.2	2.566656	19	34.2	4.571856
20	19.6	2.620128	20	35.0	4.6788
25	21.5	2.87412	25	38.0	5.07984
30	23.3	3.114744	30	42.0	5.61356
35	24.9	3.328632	35	44.0	5.88192
40	26.3	3.515784	40	46.0	6.14928
45	27.7	3.702936	45	48.0	6.41664
50	29.1	3.890088	50	50.0	6.684
60	32.0	4.27776	60	54.0	7.21872
70	35.0	4.6788	70	58.0	7.75344
80	38.0	5.07984	80	61.2	8.181216
90	41.0	5.48088	90	64.3	8.595624
100	43.5	5.81508	100	67.5	9.0234
120	48.0	6.41664	120	73.0	9.75864
140	52.5	7.0182	140	77.0	10.29336
160	57.0	7.61976	160	81.0	10.82808
180	61.0	8.15448	180	85.5	11.42964
200	65.0	8.6892	200	90.0	12.0312
225	70.0	9.3576	225	95.5	12.76644
250	75.0	10.0260	250	101.0	13.50168
275	80.0	10.6944	275	104.5	13.96956
300	85.0	11.3628	300	108.0	14.43744
400	105.0	14.0364	400	127.0	16.97736
500	124.0	16.57632	500	143.0	19.11624
750	170.0	22.7256	750	177.0	23.66136
1,000	208.0	27.80544	1,000	208.0	27.80544
1,250	239.0	31.94952	1,250	239.0	31.94952
1,500	269.0	35.95992	1,500	269.0	35.95992
1,750	297.0	39.70296	1,750	297.0	39.70296

(continued)

APPENDIX E
WATER DISTRIBUTION SYSTEM HYDRAULIC CALCULATIONS



Tioga Downs Racetrack

Water System Hydraulics from Tank to Grandstand - Peak Domestic Flow Conditions

Current Redevelopment plus Future Hotel

Tank Base Elevation	832.0		
Tank Overflow Height	85.58 feet		
Tank Overflow Elevation	917.6		
Less Freeboard	2.0 feet		
Less Operating Band Storage Depth	13.4 feet	31,600 gal	20 ft dia
Minimum Tank Level Under Domestic Flow Conditions	902.1		
Grandstand Floor Elevation	825.0		
Peak Flow to Grandstand (A)	160 gpm		
Peak Flow to Future Hotel (B)	108 gpm		
Peak Flow to Office and Horse Barn Area (C)	30 gpm		

Assumptions: To be conservative, assume C=100, simultaneous peak flows, and all flow to Grandstand and Future Hotel through only 1 side of loop.

Calculated Headloss

Description	Length (ft)	Dia. (in.)	Hazen-Williams C	Minor Loss K	Flow Q (gpm)	Velocity V (ft/s)	Headloss (ft)	
6" Pipe from Tank through Pump House	30	6	100		298	3.38	0.39	
Entrance Loss - Projecting				0.8	(A+B+C)	3.38	0.14	
90-deg Bend				0.3		3.38	0.05	
90-deg Bend				0.3		3.38	0.05	
90-deg Bend				0.3		3.38	0.05	
Gate Valve				0.12		3.38	0.02	
Gate Valve				0.12		3.38	0.02	
90-deg Bend (6x10 increasing)				0.3		3.38	0.05	0.78
10" Pipe from Pump House to Split to Grandstand & Stables	400	10	100		298	1.22	0.43	
90-deg Bend				0.3	(A+B+C)	1.22	0.01	
45-deg Bend				0.1		1.22	0.00	
45-deg Bend				0.1		1.22	0.00	
Gate Valve				0.11		1.22	0.00	
Tee Branch				0.84		1.22	0.02	0.46
10" Pipe from Split for Grandstand/Stables to Grandstand Loop	843	10	100		268	1.09	0.74	
Gate Valve				0.11	(A+B)	1.09	0.00	
Gate Valve				0.11		1.09	0.00	
Tee Branch				0.84		1.09	0.02	0.76
Pipe from Grandstand Loop start to Domestic Service Line	192	8	100		268	1.71	0.50	
Gate Valve				0.11	(A+B)	1.71	0.00	
Tee Branch				0.84		1.71	0.04	0.54
Domestic Service Line from Grandstand Loop to Building Wall	121	4	100		160	4.08	3.55	
Gate Valve				0.11	(A)	4.08	0.03	3.57
Total Headloss from Tank to Grandstand Wall							6.13	ft
Hydraulic Grade Line at Grandstand Wall							896.0	ft
Grandstand Floor Elevation (from above)							825.0	ft
Minimum Pressure Available at Grandstand Wall							71.0	ft
							30.8	psi

APPENDIX F
CHLORINATION SYSTEM DESIGN



Tioga Downs Racetrack Water System - Chlorination System Design

Design Criteria:

Free chlorine residual at point of use:	Minimum	0.2 mg/L	(Minimum per Subpart 5-1 of State Sanitary Code)
	Maximum	4.0 mg/L	(MCL per Subpart 5-1 of State Sanitary Code)
Design chlorine dosages:	Minimum	0.4 mg/L	
	Average	1.0 mg/L	
	Maximum	4.0 mg/L	

Well Pumping Rate: 90 gpm
 Average Daily Water Use: 22,000 gpd (Current redevelopment)

Chlorine Feed Pump

Sodium Hypochlorite Solution:	Option 1:	12.5 percent	=	125,000 parts per million (ppm)
	Option 2:	5.25 percent	=	52,500 parts per million (ppm)

Metering Pump Rate [gph] =
$$\frac{(\text{well pumping rate [gpm]} \times \text{dosage [ppm]}) \times 60 \text{ min/hr}}{\text{chlorine solution strength [ppm]}}$$

Minimum required pumping rate calculated with minimum dosage and 12.5% solution.

Minimum =
$$\frac{90 \times 0.4 \times 60}{125,000} = 0.017 \text{ gph}$$

Maximum required pumping rate calculated with maximum dosage and 5.25% solution.

Maximum =
$$\frac{90 \times 4.0 \times 60}{52,500} = 0.411 \text{ gph}$$

Required Pumping Range = 0.017 to 0.411 gph

Therefore, use a LMI Milton Roy Model P14 metering pump rated at 0.001 to 0.58 gph.

Sodium Hypochlorite Usage

Average Sodium Hypochlorite Usage [gpd] =
$$\frac{(\text{average daily water use [gpd]} \times \text{dosage [ppm]})}{\text{chlorine solution strength [ppm]}}$$

Using 12.5% Solution =
$$\frac{22,000 \times 1.0}{125,000} = 0.176 \text{ gpd}$$

 1.23 gallons per week

Using 5.25% Solution =
$$\frac{22,000 \times 1.0}{52,500} = 0.419 \text{ gpd}$$

 2.93 gallons per week

Chlorine Contact Time

Chlorine Contact Time in Water Storage Tank

Full Volume of Water Storage Tank: 200,000 gallons
 Operating Band(=Avg. Daily Water Use): 22,000 gallons (Current redevelopment)
 Average Operating Volume of Water Storage Tank: 189,000 gallons

Contact Time in Water Storage Tank	8.6 days
---	-----------------

Minimum Chlorine Contact Time

Conditions: All flow to distribution system directly from well (usage less than well pumping rate).
 Minimum desired chlorine contact time to first usage point (Office) = 30 minutes.

<u>Piping Description</u>	<u>Length (ft)</u>	<u>Dia. (in.)</u>	<u>Water Volume in Piping (gal)</u>
10" Pipe from Pump House to Split to Grandstand & Stables	400	10	1,632
Pipe from Split for Grandstand/Stables to Office	270	6	397
Total Volume in Piping from Pump House to Office			2,029

	<u>Entire</u>		
	<u>Facility</u>	<u>Office</u>	<u>Total</u>
Average Daily Flow (gpd)	22,000	912	
Hours of Operation per Day	20	20	
Average Flow during Hours of Operation (gpm)	18.3	0.8	
Peak 30-minute flow PF (assumed)	4	8	
Peak 30-minute flow (gpm)	73.3	6.1	
Volume in Water Line (gallons)	1,632	397	2,029
Contact Time in Piping (minutes)	22.3	65.2	87

Data Sheet

Series P

Configuration Data

352 S1

Electronic Metering Pumps

Model **P14** **1** - ~~05131~~

Manual Control

Speed (stroking frequency) fixed and stroke length manually adjustable.

P02 --- 0.20 GPH (0.79 l/h) --- 150 psi (10.3 Bar)

P03 --- 0.40 GPH (1.6 l/h) --- 110 psi (7.6 Bar)

P04 --- 0.58 GPH (2.2 l/h) --- 250 psi (17.3 Bar)

P05 --- 1.00 GPH (3.8 l/h) --- 110 psi (7.6 Bar)

P06 --- 2.00 GPH (7.6 l/h) --- 50 psi (3.5 Bar)

Dual Manual Control

Speed (stroking frequency) and stroke length manually adjustable.

P12 --- 0.20 GPH (0.79 l/h) --- 150 psi (10.3 Bar)

P13 --- 0.42 GPH (1.6 l/h) --- 110 psi (7.6 Bar)

P14 --- 0.58 GPH (2.2 l/h) --- 250 psi (17.3 Bar)

P15 --- 1.00 GPH (3.8 l/h) --- 110 psi (7.6 Bar)

P16 --- 2.00 GPH (7.6 l/h) --- 50 psi (3.5 Bar)

Voltage Code

1 ----- 120 VAC US Plug

2 ----- 240 VAC US Plug

3 ----- 220-240 VAC DIN Plug

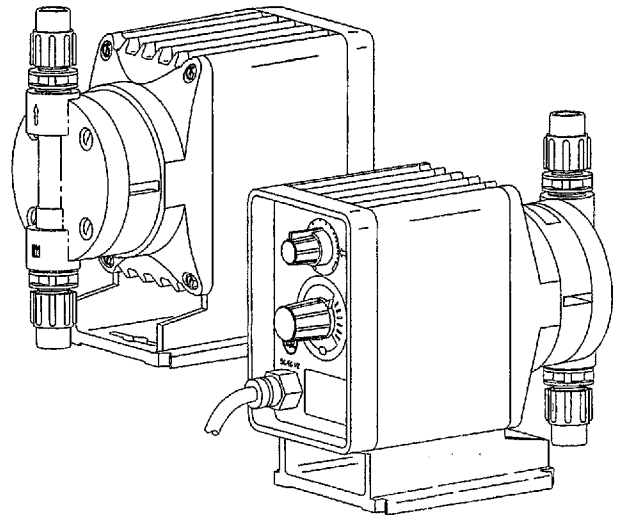
5 ----- 240-250 VAC, UK Plug

6 ----- 240-250 VAC, Aust./NZ Plug

7 ----- 220 VAC, Swiss Plug

Liquid End

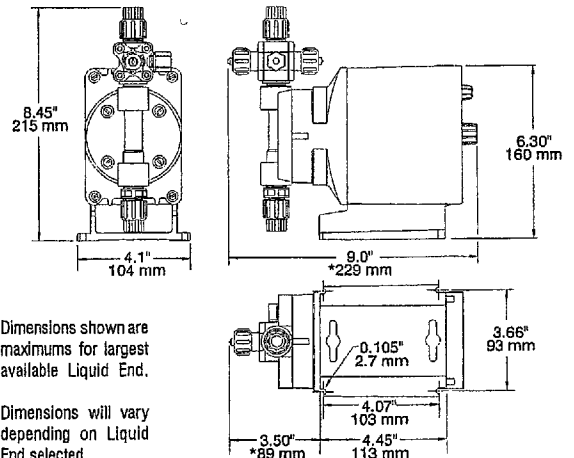
See next page for complete liquid end specifications and selection.



Specifications

Series	Strokes Per Minute (Adjustable)		Stroke Length (Adjustable) Recommended Minimum	Average Input Power @ Max Speed	Shipping Weight
	Min	Max			
P02, P03	fixed - 60		30%	22 watts	7.6 lbs (3.5 kg)
P04	fixed - 100		20%		
P05	fixed - 100		20%		
P06	fixed - 100		20%		
P12, P13	.6	60	30%		
P14	1	100	20%		
P15	1	100	20%		
P16	1	100	20%		

Dimensions



8 Post Office Square
Acton, MA 01720 USA
TEL: (978) 263-9800
FAX: (978) 264-9172
<http://www.lmipumps.com>



Replaces same of Rev. B 8/96
1713.C 10/97

Configuration Data & Materials of Construction

Drive Assembly	Liquid End No.	Size Code	Materials of Construction				Accessory	Tubing & Connections	
			Head & Fittings	Balls	Liquifram™	Check Valve		Discharge	Suction
P02	350S†	0.5	Acrylic / PGC™	Ceramic	Fluorofilm™	PGC™ / Polyprel®	4FV	PE .250" O.D.	
	351S†	0.5	PGC™ / PGC™	Ceramic	Fluorofilm™	PGC™ / Polyprel®	4FV	PE .250" O.D.	
P04	352S†	0.5	PVDF / PVDF	Ceramic	Fluorofilm™	PVDF / Polyprel®	4FV	PE .250" O.D.	
P12	353S†	0.5	PVDF / PVDF	Ceramic	Fluorofilm™	PVDF / PTFE	4FV	PE .250" O.D.	
P14	156	0.5	Acrylic / PP	316 S.S.	Fluorofilm™	Hypalon®		PE .5" O.D. Vinyl .938" O.D.	
	257	0.5	316 S.S.	316 S.S.	Fluorofilm™	316 S.S.		Pipe 1/4" NPT M	
P03	390S†	0.9	Acrylic / PGC™	Ceramic	Fluorofilm™	PGC™ / Polyprel®	4FV	PE .375" O.D.	
	391S†	0.9	PGC™ / PGC™	Ceramic	Fluorofilm™	PGC™ / Polyprel®	4FV	PE .375" O.D.	
P05	392S†	0.9	PVDF / PVDF	Ceramic	Fluorofilm™	PVDF / Polyprel®	4FV	PE .375" O.D.	
P13	393S†	0.9	PVDF / PVDF	Ceramic	Fluorofilm™	PVDF / PTFE	4FV	PE .375" O.D.	
P15	297	0.9	316 S.S.	316 S.S.	Fluorofilm™	316 S.S.		Pipe 1/4" NPT M	
	86	0.9	Acrylic / PP	316 S.S.	Fluorofilm™	Hypalon®		PE .5" O.D. Vinyl .938" O.D.	
P06	360S†	1.8	Acrylic / PGC™	Ceramic	Fluorofilm™	PGC™ / Polyprel®	4FV	PE .375" O.D.	
	361S†	1.8	PGC™ / PGC™	Ceramic	Fluorofilm™	PGC™ / Polyprel®	4FV	PE .375" O.D.	
P16	362S†	1.8	PVDF / PVDF	Ceramic	Fluorofilm™	PVDF / Polyprel®	4FV	PE .375" O.D.	
	363S†	1.8	PVDF / PVDF	Ceramic	Fluorofilm™	PVDF / PTFE	4FV	PE .375" O.D.	
	277	1.8	316 S.S.	316 S.S.	Fluorofilm™	316 S.S.		Pipe 1/4" NPT M	
	76	1.8	Acrylic / PP	316 S.S.	Fluorofilm™	Hypalon®		PE .5" O.D. Vinyl .938" O.D.	

See front page for voltage code specifications.

† To specify 1/4" NPT male, change '†' to 'P'. To specify black, UV resistant tubing, change '†' to 'U'. To specify Bleed 4FV, change 'S' to 'B'. To specify 3FV, change 'S' to 'T'.

3FV indicates that the pump is equipped with an LMI Three Function Valve (pressure relief, priming aid, line drain).

4FV indicates that the pump is equipped with an LMI Four Function Valve. This diaphragm type, anti-syphon/pressure relief valve is installed on the pump head. It provides anti-syphon protection and aids in priming, even under pressure.

Fluorofilm™ is a copolymer of PTFE and PFA. Polyprel® is an elastomeric PTFE copolymer.

Polyprel is a registered trademark of Liquid Metronics, Inc. Fluorofilm, Liquifram, PGC are trademarks of Liquid Metronics, Inc. Hypalon is a registered trademark of E. I. du Pont de Nemours & Co., Inc.

Output Information

Series	Gallons per Hour		Liters per Hour		mL/cc per Minute		mL/cc per Stroke		Maximum Injection Pressure	
	Min	Max	Min	Max	Min	Max	Min	Max		
P02	0.063	0.21	0.237	0.79	3.94	13	0.07	0.22	150 psi	(10.3 Bar)
P03	0.125	0.42	0.473	1.6	7.89	26	0.13	0.44	110 psi	(7.6 Bar)
P04	0.117	0.58	0.442	2.2	7.36	37	0.07	0.37	250 psi	(17.3 Bar)
P05	0.200	1.0	0.757	3.8	12.62	63	0.13	0.63	110 psi	(7.6 Bar)
P06	0.400	2.0	1.510	7.6	25.23	126	0.25	1.26	50 psi	(3.5 Bar)
P12	0.001	0.21	0.002	0.79	0.04	13	0.07	0.22	150 psi	(10.3 Bar)
P13	0.001	0.42	0.005	1.6	0.08	27	0.13	0.44	110 psi	(7.6 Bar)
P14	0.001	0.58	0.004	2.2	0.07	37	0.07	0.37	250 psi	(17.3 Bar)
P15	0.002	1.0	0.008	3.8	0.13	63	0.13	0.63	110 psi	(7.6 Bar)
P16	0.004	2.0	0.015	7.6	0.25	126	0.25	1.26	50 psi	(3.5 Bar)

Specification Sheet

Series P

GENERAL

Chemical metering pumps shall be positive displacement, Liquifram™ type pumps that are UL and CUL approved. Output volume shall be adjustable while pumps are in operation from zero to maximum capacity of:

P02, P12	-	0.21	GPH	(0.79 liters per hour)
P03, P13	-	0.42	GPH	(1.6 liters per hour)
P04, P14	-	0.58	GPH	(2.2 liters per hour)
P05, P15	-	1.0	GPH	(3.8 liters per hour)
P06, P16	-	2.0	GPH	(7.6 liters per hour)

Chemical metering pumps shall be capable, without a hydraulically backed diaphragm, of injecting solutions against pressures up to:

P02, P12	-	150	psig	(10.3 Bar)
P03, P13	-	110	psig	(7.6 Bar)
P04, P14	-	250	psig	(17.3 Bar)
P05, P15	-	110	psig	(7.6 Bar)
P06, P16	-	50	psig	(3.5 Bar)

~~SERIES P0~~

~~The stroke frequency will be fixed at the following rates.~~

P02, P03	-	60	strokes per minute
P04, P05, P06	-	100	strokes per minute

~~Stroke length shall be adjustable by readily accessible dial knob located opposite the liquid handling end.~~

SERIES P1

Adjustment shall be by means of readily accessible dial knobs, one for changing stroke length and the other for changing stroke frequency. Both knobs are to be located opposite the liquid handling end.

DRIVE

The pump drive shall be totally enclosed with no exposed moving parts. Solid state electronic pulser shall be fully encapsulated and supplied with quick connect terminals at least 3/16" (4.75 mm) wide. Electronics shall be housed in chemical resistant enclosure at the rear of the pump for maximum protection against chemical spillage. Electrical power consumption shall not exceed 22 watts per hour under full speed and maximum pressure conditions. Pump weight shall not exceed 14 lbs (6.5 kg).

AUTOMATIC PRESSURE RELIEF

To eliminate need for pressure relief valve, Liquifram™ shall automatically stop pulsating when discharge pressure exceeds pump pressure rating by not more than 35%.

MATERIAL

Chemical metering pump housing shall be of chemically resistant glass fiber reinforced thermoplastic. All exposed fasteners shall be stainless steel. Chemical metering pump valves shall be ball type, with ceramic balls¹. Valve seat and seal ring shall be renewable by replacing the combination seat-seal ring² or cartridge valve assembly. Pump head shall be of transparent acrylic³ material capable of resisting the pumped chemical. Fittings and connections at pump head shall be PVC⁴.

CHECK VALVES AND TUBING

A total of 16 ft (4.8 m) of polyethylene tubing⁵ shall be provided per pump complete with compression connections. A foot valve with integral one piece strainer shall be provided for the suction line, and an injection check/back pressure valve with 1/2" NPT male connection for the injection point. The injection check valve shall incorporate a dilating orifice which prohibits scale formation and accumulation of crystalline deposits.

Notes:

1. Type 316 stainless steel or PTFE may be specified.
2. Hypalon®, PTFE or Polyprel® may be specified.
3. PVDF, PVC, Polypropylene, or Type 316 stainless steel may be specified.
4. PVDF, Polypropylene, or Type 316 stainless steel may be specified.
5. 6 ft. (1.8 m) of vinyl suction tubing may be specified in place of polyethylene for the suction side only. 1/4" pipe thread may be specified.



8 Post Office Square
Acton, MA 01720 USA
TEL: (978) 263-9800
FAX: (978) 264-9172
<http://www.lmipumps.com>



APPENDIX G
SPDES PERMIT FOR WASTEWATER DISPOSAL SYSTEM

New York State Department of Environmental Conservation
Division of Environmental Permits, Region 7
1285 Fisher Avenue, Cortland, New York 13045-1090
Phone: (607) 753-3095 • **FAX:** (607) 753-8532
Website: www.dec.state.ny.us



April 6, 2005

Andrew Sapienza
Newmark & Company Real Estate, Inc.
125 Park Ave.
New York, NY 10017

RE: TIOGA DOWNS RACETRACK, LLC
DEC# 7-4928-00021/00001 - SPDES# NY 024 4881
NICHOLS (T) - TIOGA COUNTY
TRANSFER OF PERMIT

Dear Mr. Sapienza:

This letter is written in response to the transfer application received October 8, 2004. My apologies for the delay.

To complete the transfer of this application, the following items are required:

1. The original transfer application submitted to this office is being returned. Please have Mr. Gural and Mr. Hawkins sign and date the application.
2. Along with issuing the transfer of the permit we would like to re-issue the permit in its entirety to you. Enclosed, for your information, is a copy of the existing permit. Also enclosed is a partially completed *Application Form D* and the transfer application referenced above. Please review this form and correct any incorrect items and complete those items that we left blank.
3. Engineering Report - It is our understanding that Keystone Trozze representatives are working on an engineering report for our review. Please have this report forwarded to us at your earliest convenience.
4. Monitoring Wells - Please be aware that the installation of three monitoring wells may be required as a condition of permit transfer.

If you have any questions, please feel free to call me.

Sincerely,

A handwritten signature in black ink that reads "Michael K. Barylski".

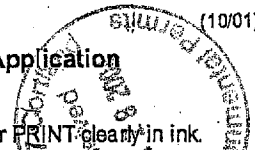
Michael K. Barylski
Deputy Regional Permit Administrator

cc: Adam Starowicz, w/enclosures
Mark Parker, w/enclosures
Mark Phifer w/enclosures

REGION 7



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Application For Permit Transfer and Application for Transfer of Pending Application
(In Accordance with Uniform Procedures, 6NYCRR Part 621)



NOTE: Please read ALL instructions before completing this application. Please TYPE or PRINT clearly in ink.

PART 1 - TRANSFEREE (New Owner/Operator/Leasee/Applicant) COMPLETES

1. LIST PERMIT NUMBER(S) AND THEIR EFFECTIVE AND EXPIRATION DATES
INV # 292S11920000 SPDES ID # 0244881 1/2004-12/31/04

LIST PENDING APPLICATION NUMBER(S):

2. NAME OF TRANSFEREE TIOGA DOWNS RACETRACK LLC
If other than an individual, provide Taxpayer ID Number 20-1280492

STREET ADDRESS, CITY, STATE, ZIP CODE
C/O NEWMARK & C. R. E. INC
125 PARK AVE - 11 FL, NEW YORK, NY 10017

TELEPHONE NUMBER (Day/line)
(212) 372-2143

TRANSFEREE IS A/AN: Owner Operator Lessee Applicant Municipality/Governmental Agency (check all that apply)

3. NAME OF FACILITY/PROJECT TIOGA DOWNS RACETRACK LLC
STREET ADDRESS, CITY, STATE, ZIP CODE
P.O. BOX 509 NICHOLS, NY 13812
COUNTY SOUTHERN TIER TOWN NICHOLS

4. FACILITY CONTACT NAME MARK PHIFER
STREET ADDRESS, CITY, STATE, ZIP CODE
P.O. BOX 509 NICHOLS, NY 13812
TELEPHONE NUMBER (Daytime) (607) 699-3900

5. HAS WORK BEGUN ON THE PROJECT?
Yes No If "No," proposed starting date: _____ Approximate completion date: _____
If there will be any modifications to the current or proposed operation or construction, the transferee must attach a statement specifying the details.

6. CERTIFICATION: This certifies that the transferee seeks to be the legally responsible party for operations or project development either authorized by the permits identified above or proposed in applications identified above. The transferee has a copy of the permit(s) and/or application(s) and understands and will comply with all conditions in the referenced permit(s) and supports the content of referenced application(s). Facility operations/project scope/discharges/emissions will remain the same as authorized or as proposed in pending applications. Further, I hereby affirm that under penalty of perjury that information provided on this form and all attachments submitted herewith is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Printed Name and Title of Transferee JEFFREY GURAL MANAGING MEMBER
Signature of Transferee *[Signature]* Date 10/26/04

PART 2 - TRANSFEROR (Former Owner/Operator/Leasee/Applicant) COMPLETES

1. NAME OF TRANSFEROR HAWKINS DEVELOPMENT Co LLC
STREET ADDRESS, CITY, STATE, ZIP CODE
RD. BOX 800 HARPUSVILLE, NY 13787

If other than an individual, provide Taxpayer ID Number

TELEPHONE NUMBER (Daytime)

2. NAME OF FACILITY/PROJECT, if different from Facility Name in Part 1:

3. CERTIFICATION: This certifies that the facility and/or application referenced in Part 1 of this form will be was transferred to the party identified as the new transferee (owner/operator/lessee/applicant) on June 1, 2007 (date).

Printed Name and Title of Transferor JAMES HAWKINS
Signature of Transferor _____ Date _____

PART 3 - PERMIT TRANSFER VALIDATION SECTION - DEPARTMENT OF ENVIRONMENTAL CONSERVATION COMPLETES

Transfer of permit approved, effective as of _____ . Transferee subject to conditions of original permit, without exception.

Transfer of permit approved, with the following modifications or contingencies related to this Permit Transfer:

See attached revised permit page(s): _____

Transfer of application approved. See attached for additional information required.

Transfer denied, new application required. Please complete the enclosed permit application and return it to the undersigned Regional Permit Administrator at the address listed on the reverse side of this form.

PERMIT ADMINISTRATOR
Name _____ Signature _____ Date _____



APPLICATION FORM "D"

for a State Pollutant Discharge Elimination System (SPDES) Permit

(A SPDES Application When Signed by a Permit Issuing Official Becomes a SPDES Permit)

PLEASE PRINT OR TYPE

APPLICATION TYPE <input checked="" type="checkbox"/> New <input type="checkbox"/> Renewal <input type="checkbox"/> Modification				IF RENEWAL OR MODIFICATION, GIVE PREVIOUS NUMBER NY-- N/A												
OWNER'S NAME (Corporate, Partnership, Individual) Hawkins Development Co., LLC				TYPE OF OWNERSHIP <input checked="" type="checkbox"/> Corporate <input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input type="checkbox"/> Public												
OWNER'S MAILING ADDRESS (Street, City, State, Zip Code) PO Box 800, Harpursville, NY 13787						TELEPHONE NUMBER (607) 693-4295										
REFER ALL CORRESPONDENCE TO: (Name, Title and Address) James Hawkins, Owner, PO Box 800 Harpursville, NY 13787				CITY, TOWN OR VILLAGE Town of Nichols												
FACILITY NAME Tioga Park			FACILITY LOCATION (Street or Road) West River Drive			CITY, TOWN OR VILLAGE Town of Nichols										
COUNTY Tioga County		GIVE EXPLICIT DIRECTIONS TO LOCATION South side of West River Rd. 0.7 mile west of Cole Hill Rd														
NATURE OF BUSINESS OR FACILITY Flea Market and Equestrian Arena				POPULATION SERVED (See Instructions) Workers												
FREQUENCY OF DISCHARGE All Year? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If No, Specify Number of Months <u>6</u> **				All Week? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If No, Specify Number of Days <u>2</u> **												
DOES YOUR DISCHARGE CONTAIN OR IS IT POSSIBLE FOR YOUR DISCHARGE TO CONTAIN ONE OR MORE OF THE FOLLOWING SUBSTANCES ADDED AS A RESULT OF YOUR OPERATIONS, ACTIVITIES OR PROCESSES? Please check: <input type="checkbox"/> Aluminum <input type="checkbox"/> Ammonia <input type="checkbox"/> Beryllium <input type="checkbox"/> Cadmium <input type="checkbox"/> Chlorine <input type="checkbox"/> Chromium <input type="checkbox"/> Copper <input type="checkbox"/> Cyanide <input type="checkbox"/> Grease <input type="checkbox"/> Lead <input type="checkbox"/> Mercury <input type="checkbox"/> Nickel <input type="checkbox"/> Oil <input type="checkbox"/> Phenols <input type="checkbox"/> Selenium <input type="checkbox"/> Zinc <input checked="" type="checkbox"/> None of These																
DISCHARGE DATA (Use additional forms, if necessary) (See Instructions)																
OUTFALL NO. 1	<input type="checkbox"/> Proposed <input checked="" type="checkbox"/> Existing	<input type="checkbox"/> Replacement <input type="checkbox"/> Expansion	TYPE OF WASTE Sanitary	TYPE OF TREATMENT Primary Settling/	Tile Field	DESIGN FLOW 19,900 19,500 Gal/Day										
SURFACE DISCHARGE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If YES, Name of Receiving Waters				Classification	Waters Index Number									
SUBSURFACE DISCHARGE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If YES, Name of Nearest Surface Water Susquehanna River		Distance 1900 Ft.	SOIL TYPE Unn	Depth of Water Table 5+ ft.										
OUTFALL NO. 2	<input type="checkbox"/> Proposed <input checked="" type="checkbox"/> Existing	<input type="checkbox"/> Replacement <input type="checkbox"/> Expansion	TYPE OF WASTE Sanitary	TYPE OF TREATMENT Primary Settling/	Tile Field	DESIGN FLOW 9,900 9,825 Gal/Day										
SURFACE DISCHARGE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If YES, Name of Receiving Waters				Classification	Waters Index Number									
SUBSURFACE DISCHARGE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If YES, Name of Nearest Surface Water Susquehanna River		Distance 1900 Ft.	SOIL TYPE Hgn	Depth of Water Table 5+ ft.										
OUTFALL NO.	<input type="checkbox"/> Proposed <input type="checkbox"/> Existing	<input type="checkbox"/> Replacement <input type="checkbox"/> Expansion	TYPE OF WASTE	TYPE OF TREATMENT		DESIGN FLOW Gal/Day										
SURFACE DISCHARGE <input type="checkbox"/> Yes <input type="checkbox"/> No		If YES, Name of Receiving Waters				Classification	Waters Index Number									
SUBSURFACE DISCHARGE <input type="checkbox"/> Yes <input type="checkbox"/> No		If YES, Name of Nearest Surface Water		Distance Ft.	SOIL TYPE	Depth of Water Table										
I hereby affirm under penalty of perjury that information provided on this form and any attached supplemental forms is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.																
APPLICANT'S SIGNATURE (see Instructions) <i>James W. Hawkins</i>			DATE 6-5-96			PRINTED NAME James W. Hawkins										
						TITLE Owner										
PERMIT VALIDATION SECTION (Department of Environmental Conservation Use Only) This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the provisions of the Federal Water Pollution Control Act, as amended by the Federal Water Pollution Control Act Amendments of 1972, P.L. 92-500, October 18, 1972 (33 U.S.C. §1251 et. seq.) (hereinafter referred to as "the Act"), and subject to the attached conditions.						APPLICATION NUMBER NY- 0244881										
						EFFECTIVE DATE Aug 6, 1996		EXPIRATION DATE August 1, 2001								
						ATTACHMENTS: Pages 2, 3, 4 Special Conditions 1-9 General Conditions										
Signature of Permit Issuing Official <i>Barry L. Barron</i>						Date 8/5/96										
CARD 1	Type Est 66	Type Own 68	SIC CODE 70 73	# Out Falls 74	Dis Class 76	CARD 3	Region 71	County 72	Major Basin 74	Sub Basin 76	Compact Area 78	CARD 6	Latitude 53	Longitude 58 59	CARD 7	Lim Ind 57

M. Well EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning EDP and lasting until EDP + 5 YEARS
 the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

LIMITATIONS APPLY: All Year Seasonal from _____ to _____

Outfall Number: _____

EFFLUENT LIMITATIONS

<input checked="" type="checkbox"/> Flow	30 day arithmetic mean	<u>29800</u>	<input type="checkbox"/> MGD	<input checked="" type="checkbox"/> GPD	
<input type="checkbox"/> BOD, 5 - Day	30 day arithmetic mean	_____	mg/l and	_____	lbs/day ⁽¹⁾
<input type="checkbox"/> BOD, 5 - Day	7 day arithmetic mean	_____	mg/l and	_____	lbs/day
<input type="checkbox"/> UOD ⁽²⁾		_____	mg/l and	_____	lbs/day
<input type="checkbox"/> Solids, Suspended (TSS)	30 day arithmetic mean	_____	mg/l and	_____	lbs/day ⁽¹⁾
<input type="checkbox"/> Solids, Suspended (TSS)	7 day arithmetic mean	_____	mg/l and	_____	lbs/day
<input type="checkbox"/> Effluent disinfection required:	<input type="checkbox"/> All Year <input type="checkbox"/> Seasonal from _____ to _____				
<input type="checkbox"/> Coliform, Fecal	30 day geometric mean shall not exceed	200/100 ml			
<input type="checkbox"/> Coliform, Fecal	7 day geometric mean shall not exceed	400/100 ml			
<input type="checkbox"/> Chlorine, Total Residual	Daily Maximum				mg/l
<input checked="" type="checkbox"/> pH	Range	<u>6.0</u>	to	<u>9.0</u>	SU
<input type="checkbox"/> Solids, Settleable	Daily Maximum				ml/l
<input checked="" type="checkbox"/> Nitrates	Maximum	<u>20</u>	mg/l as N		
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					
<input type="checkbox"/>					

MONITORING REQUIREMENTS

Parameter	Frequency	Sample Type	Sample Location	
			Influent	Effluent
<input checked="" type="checkbox"/> Flow <input type="checkbox"/> MGD <input checked="" type="checkbox"/> GPD	Continuous	Water Meter (5)		
<input type="checkbox"/> BOD, 5 - Day, mg/l				
<input type="checkbox"/> Solids, Suspended, mg/l				
<input checked="" type="checkbox"/> Coliform, Fecal, No./100 ml ⁽³⁾	2/Year	Grab (4)		X
<input type="checkbox"/> Nitrogen, TKN (as N), mg/l				
<input type="checkbox"/> Ammonia (as NH ₃), mg/l				
<input checked="" type="checkbox"/> pH, SU (standard units)	2/Year	Grab (4)		X
<input type="checkbox"/> Solids, Settleable, ml/l				
<input type="checkbox"/> Chlorine, Total Residual, mg/l ⁽³⁾				
<input type="checkbox"/> Phosphorus, Total (as P), mg/l				
<input type="checkbox"/> Temperature, Deg _____				
<input checked="" type="checkbox"/> Nitrate, mg/l as N	2/Year	Grab (4)		X
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				

- NOTES: (1) and effluent values shall not exceed _____ % and _____ % of Influent values for BOD₅ & TSS respectively.
 (2) Ultimate Oxygen Demand shall be computed as follows:
 $UOD = 1\ 1/2 \times CBOD_5 + 4\ 1/2 \times TKN$ (Total Kjeldahl Nitrogen)
 (3) Monitoring of these parameters is only required during the period when disinfection is required.
 (4) Each of the 6 Monitoring Wells will be sampled Apr.1 & Sept.30.
 (5) Daily water use readings from the Water Supply Meter in GPD.

DEFINITIONS OF DAILY AVERAGE AND DAILY MAXIMUM

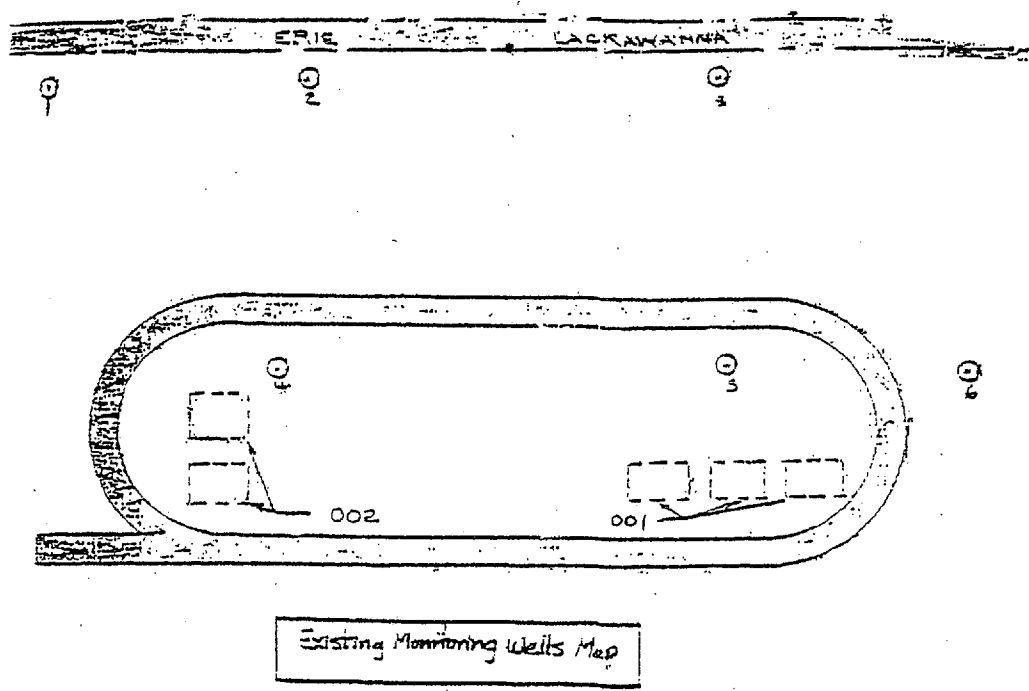
The daily average discharge is the total discharge by weight or in other appropriate units as specified herein, during a calender month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges in appropriate units as specified herein divided by the number of days during the calender month when measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate units as specified herein, during any calender day.

MONITORING LOCATIONS

The permittee shall take samples and measurements, to comply with monitoring requirements specified in this permit, at the location(s) indicated below: (Show sampling locations and outfalls with sketch or flow diagram as appropriate)

Samples will be taken at the 6 Monitoring Wells shown on the following site map.



RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS

- a) The permittee shall also refer to the General Conditions (Part II) of this permit for additional information concerning monitoring and reporting requirements and conditions.
- b) The monitoring information required by this permit shall be summarized, signed and retained for a period of three years from the date of the sampling for subsequent inspection by the Department or its designated agent. **Also;**
- [] (if box is checked) monitoring information required by this permit shall be summarized and reported by submitting completed and signed Discharge Monitoring Report (DMR) forms for each _____ month reporting period to the locations specified below. Blank forms are available at the Department's Albany office listed below. The first reporting period begins on the effective date of this permit and the reports will be due no later than the 28th day of the month following the end of each reporting period.

Submit sampling results to :
 Tioga County Health Department
 231 Main Street
 Owego, New York 13827
 Attn: Gary Rice

Send the first copy

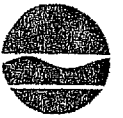
Department of Environmental Conservation
 Regional Water Engineer
 615 Erie Blvd., West
 Syracuse, New York 13024

- c) A monthly "Wastewater Facility Operation Report..." (form 92-15-7) shall be submitted (if box is checked) to the [X] Regional Water Engineer and/or [X] County Health Department or Environmental Control Agency listed above.
- d) **Noncompliance** with the provisions of this permit shall be reported to the Department as prescribed in the attached General Conditions (Part II).
- e) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.
- f) If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculations and recording on the Discharge Monitoring Reports.
- g) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit
- h) Unless otherwise specified, all information recorded on the Discharge Monitoring Report shall be based upon measurements and sampling carried out during the most recently completed reporting period.
- i) Any laboratory test or sample analysis required by this permit for which the State Commissioner of Health issues certificates of approval pursuant to section five hundred two of the Public Health Law shall be conducted by a laboratory which has been issued a certificate of approval. Inquiries regarding laboratory certification should be sent to the Environmental Laboratory Accreditation Program, New York Health Department Center for Laboratories and Research, Division of Environmental Sciences, The Nelson A. Rockefeller State Plaza, Albany, New York 12201

The following special conditions are to be attached to the SPDES Permit for the Tioga Park Race Track:

1. Henceforth when referring to wells No. 1 thru 6 in the following paragraph, it shall mean those monitoring wells as shown on page 3 of this permit, monitoring locations for the Tioga Park Race Track, Town of Nichols, Tioga County, and so labeled No. 1 thru 6.
2. The permittee will sample wells No. 1 thru 6 as a safeguard measure to protect those water supply wells of the surrounding residences and prevent degradation of the ground water.
3. All wells No. 1 thru 6, shall be sampled prior to the commencement of the septic systems operation. This initial sample will serve as a base for water quality standards against which all future samples will be compared.
4. Sampling and analytical testing will be done by a New York State Department of Health ELAP certified environmental laboratory for the parameter listed on this permit.
5. Wells No. 1 thru 6 shall be a minimum $1\frac{1}{4}$ inch in diameter, and referenced to a common datum.
6. Wells No. 1 thru 3 are to be permanent with the bottom 10 ft. consisting of semi-continuous screen, the top of which is to be 5 ft. below the springtime water table. Wells No. 4 thru 6 shall be temporary with a single well point 3 ft. long, the top of which is to be 10 ft. below the springtime water table. These Wells shall be sampled semi-annually on April 1 and September 30, unless otherwise required by this Department.
7. Sampling will consist of pH, nitrate and fecal coliform samples from each well, No. 1 thru 6. Daily Flow readings from the water supply metering device shall be recorded and submitted monthly. The results shall be sent to the Syracuse office of this Department and to the Tioga County Health Department. Standards for total coliform shall comply with N.Y.S. Department of Health requirements for potable water.
8. If it is deemed necessary, additional wells will be constructed as required by this Department.
9. If wells No. 1 thru 3 are found to have high concentrations of contaminants which contravene potable water standards, the owner shall install remedial measures, such as a package wastewater treatment plant, which shall discontinue the discharge of the tile field wastes. Wells No. 1 thru 6 shall then be monitored as prescribed by this Department. If necessary, the race track owner will install chlorination equipment on those surrounding residences wells or necessary equipment as to allow those residences to continue the use of their wells.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
State Pollutant Discharge Elimination System (SPDES)
NOTICE / RENEWAL APPLICATION / PERMIT



Please read ALL instructions on the back before completing this application form. Please TYPE or PRINT clearly in ink.

PART 1 - NOTICE Date: 04/16/2001

Permittee Contact Name, Title, Address

Facility and SPDES Permit Information

HAWKINS DEVELOPMENT CO, LLC
JAMES HAWKINS
PO BOX 800
HARPURSVILLE NY 13787

Name: TIOGA PARK
Ind. Code: 8999 County TIOGA
DEC No.: 7-428 -00021/00001
SPDES No.: 024 4881
Expiration Date: 08/01/2001
Application Due By: 02/02/2001

Are these name(s) & address(es) correct? if not, please write corrections above.

The State Pollutant Discharge Elimination System Permit for the facility referenced above expires on the date indicated.

Submit this application by the "Application Due By" date
listed above in order to keep continuous coverage under your permit.

CAUTION: This short application form and attached questionnaire are the only forms acceptable for permit renewal. Sign Part 2 below and mail this form and the completed questionnaire using the enclosed envelope. *Effective April 1, 1994 the Department no longer assesses SPDES application fees.*

If there are changes to your discharge, or to operations affecting the discharge, then in addition to this renewal application, you must also submit a separate permit modification application to the Regional Permit Administrator for the DEC region in which the facility is located, as required by your current permit. See the reverse side of this page for instructions on filing a modification request.

PART 2 - RENEWAL APPLICATION

CERTIFICATION: I hereby affirm that under penalty of perjury that the information provided on this form and all attachments submitted herewith is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to section 210.45 of the Penal Law.

Name of person signing application (see instructions on back) James W. Hawkins Title President
Signature [Handwritten Signature] Date 5-18-01

RECEIVED
ENVIRONMENTAL PERMITS
MAY 25 AM 12:52
NYSDEC

PART 3 - PERMIT (Below this line - Official Use Only)

Effective Date: 8.1.01 Expiration Date: 8.1.11

Permit Administrator Barbara B. Rinaldi

Address: NYSDEC - Division of Environmental Permits
Bureau of Environmental Analysis
50 Wolf Road, Albany, NY 12233-1750

Signature [Handwritten Signature] Date 7/20/01

This permit together with the previous valid permit for this facility issued 08/05/96 and subsequent modifications constitute authorization to discharge wastewater in accordance with all terms, conditions and limitations specified in the previously issued valid permit, modifications thereof or issued as part of this permit, including any special or general conditions attached hereto. Nothing in this permit shall be deemed to waive the Department's authority to initiate a modification of this permit on the grounds specified in 6NYCRR §621.14, 6NYCRR §754.4 or 6NYCRR §757.1 existing at the time this permit is issued or which arise thereafter.

Attachments: General Conditions dated 11/90



Please enter the numbers from your current permit	DEC ID <u>17-4924-00621/00001</u>
	SPDES Number NY <u>024 4881</u>

QUESTIONNAIRE

for SPDES Private, Commercial & Institutional (PCI) Renewal Applications

Please answer the following questions about your discharge and return this form with your SPDES Application form. Use additional sheets as necessary.

When was your current permit issued (ie: signed by a Department representative)? Date ___/___/___

Yes	No	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Has the SPDES permit for your facility been modified in the past 5 years?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Have any changes been made to your disposal system? If yes, please describe: _____ _____ _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Has there been an increase in wastewater discharge quantities to or from your disposal system above what was listed (see design flow) on your permit? If yes, explain: _____ _____ _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Have there been a physical expansion or other modifications to your facility? If yes, please describe: _____ _____ _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Has there been a change in the type, size or nature of the activity or business being conducted at your facility? If yes, please describe: _____ _____ _____

New York State Department of Environmental Conservation
Division of Environmental Permits, 4th Floor
625 Broadway, Albany, New York 12233-1750
Phone: (518) 402-9167 • FAX: (518) 402-9168
Website: www.dec.state.ny.us



June 25, 2004

HAWKINS DEVELOPMENT CO, LLC
JAMES HAWKINS
PO BOX 800
HARPURSVILLE, NY 13787

Re: Department Initiated Permit Modification
DEC ID: 749280002100001
SPDES Number: NY 0244881

Dear Permittee:

The purpose of this correspondence is to notify you of a Department initiated modification to the above-referenced State Pollutant Discharge Elimination System (SPDES) permit due to an overall regulatory change in NYS law governing SPDES permits. As a procedural matter, all SPDES permittees are being sent a copy of this correspondence and the attached cover sheet specific to their permit. This modification is undertaken in accordance with the provisions of the Uniform Procedures Act [6 NYCRR 621.14(a)(4)] and is due to the amendment of the existing regulation governing the administration of SPDES permits (6 NYCRR 750). The amendments incorporate provisions of the 'Part II General Conditions' supplement that serves as an additional set of conditional requirements to your SPDES permit. Please be advised that the amendments to 6 NYCRR 750 do not substantively affect ALL SPDES permittees, however all are being notified of the changes so that they may review them for individual applicability. These amendments may be found in 6 NYCRR 750 in Section 750-2, entitled 'Operating in Accordance with a SPDES Permit.' You may access this regulation from the internet on the Department's website at <http://www.dec.state.ny.us/website/reggs/750.htm> for html format or <http://www.dec.state.ny.us/website/dow/part750.pdf> for a two sided format suitable for binding and copying.

The amendment of 6 NYCRR 750 duplicates many of the provisions of the 'Part II General Conditions' supplement, and includes some revisions and additions to those conditions. The following is a general list of locations within section of 6 NYCRR 750-2 that contain new and significant information pertaining to your permit.

- 750-2.1 General Provisions of a SPDES Permit
(b), (f), and (k)
- 750-2.3 Inspection and Entry
(f)
- 750-2.4 Operator and Permittee Liability
750-2.5 Routine Monitoring, Recording, and Reporting
(a)-(2)-(iii) and (v); (4); (5)

- (b)- (1); (2); (3)
- (c)- (1); (2)-(vii)
- (d)- (1)-(i) and (ii); (2); (3)-(iv)
- 750-2.6 Special Reporting Requirements for Dischargers that are not POTWs
- 750-2.7 Incident Reporting
- 750-2.8 Disposal System Operation and Quality Control
 - (a)- (1); (2)-(i); (5); (6)
 - (c)- (2)
 - (d)
 - (e)
 - (f)
- 750-2.9 Additional Conditions Applicable to Publicly Owned Treatment Works
 - (a)- (2); (4)
 - (b)- (1); (2); (3); (4); (5); (6); (7)
 - (c)
- 750-2.10 Special Provisions- New or Modified Disposal Systems or Service Areas
 - (a); (b); (d); (e); (f); (g); (h); (i)
- 750-2.11 Closure Requirements for Disposal Systems

Also, please note that the telephone number designated by the Regional Water Engineer to receive after business hours reports (as set forth in 6 NYCRR 750-1.2(a)(73) is now (518)-457-7362.

The Department initiated modification to your permit deletes the 'Part II General Conditions' and all references to them from your permit, and further amends the permit requiring you to comply with 6 NYCRR 750-2. The specific language of the modification is contained in the attached modification page that is to be appended to your existing permit.

The Department's Uniform Procedures Act affords permittees the right to comment on Department initiated permit changes [6 NYCRR 621.14(d)]. After reviewing the content of 6 NYCRR 750-2 and its effect on your SPDES permit, should you have any objections to the permit modification, you may submit a written statement to the Department giving reasons why the permit should not be modified, request a hearing, or both. Any statement or request for hearing must be made within 15 calendar days of the mailing of this letter. Failure to submit a timely request or statement will result in the modification of your permit, becoming effective July 12, 2004.

If you have any questions on this action, please contact Andrea Sheeran at the above address, or by telephone at (518) 402-9179.

Sincerely,

William R. Adriance

William R. Adriance
Chief Permit Administrator

cc: RPA
RWE
BWP
file

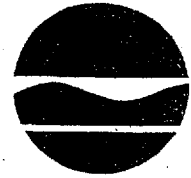
New York State Department of Environmental Conservation

Division of Environmental Permits, 4th Floor

625 Broadway, Albany, New York 12233-1750

Phone: (518) 402-9167 • FAX: (518) 402-9168

Website: www.dec.state.ny.us



Erin M. Crotty
Commissioner

**STATEMENT OF STATE POLLUTANT DISCHARGE ELIMINATION
SYSTEM (SPDES) PERMIT MODIFICATION**

TO BE KEPT WITH SPDES PERMIT NUMBER NY 0244881.

TIOGA PARK

DEC ID 749280002100001

EFFECTIVE DATE JULY 12, 2004

Per Department of Environmental Conservation amendment to the regulations governing the administration of the State Pollutant Discharge Elimination System Permit, this permit is hereby modified to mandate compliance with New York State Environmental Conservation Law, 6 NYCRR Part 750 entitled State Pollutant Discharge Elimination System (SPDES) Permits.

This Department initiated modification to your permit deletes the former 'Part II General Conditions' requirements and all references to them from your permit, and further amends the permit requiring you to comply with 6 NYCRR 750-2, entitled Operating in Accordance with a SPDES Permit.

APPLICATION FORM "D"

for a State Pollutant Discharge Elimination System (SPDES) Permit

(A SPDES Application When Signed by a Permit Issuing Official Becomes a SPDES Permit)



PLEASE PRINT OR TYPE

APPLICATION TYPE <input checked="" type="checkbox"/> New <input type="checkbox"/> Re-issuance <input type="checkbox"/> Modification				IF RE-ISSUANCE OR MODIFICATION, GIVE PREVIOUS NUMBER NY --- <u>024 4881</u>												
OWNER'S NAME (Corporate, Partnership, Individual) Tioga Downs Racetrack, LLC				TYPE OF OWNERSHIP <input checked="" type="checkbox"/> Corporate <input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input type="checkbox"/> Public												
OWNER'S MAILING ADDRESS (Street, City, State, Zip Code) c/o Newmark & Co. Real Estate, Inc, 125 Park Avenue, 11th Floor, New York, NY 10017																
REFER ALL CORRESPONDENCE TO: (Name, Title and Address) Jeffrey Gural, Managing Member c/o Newmark & Co. Real Estate, Inc., 125 Park Avenue, 11th Flr, NY, NY 10017				TELEPHONE NUMBER (212) 372-2143												
FACILITY NAME Tioga Downs Racetrack, LLC		FACILITY LOCATION (Street or Road) West River Drive		CITY, TOWN OR VILLAGE Nichols (T)												
COUNTY Tioga		GIVE EXPLICIT DIRECTIONS TO LOCATION South side of West River Road, 0.7 mile west of Cole Hill Road														
NATURE OF BUSINESS OR FACILITY				POPULATION SERVED (See Instructions)												
FREQUENCY OF DISCHARGE All Year? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If No, Specify Number of Months All Week? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If No, Specify Number of Days																
DOES YOUR DISCHARGE CONTAIN OR IS IT POSSIBLE FOR YOUR DISCHARGE TO CONTAIN ONE OR MORE OF THE FOLLOWING SUBSTANCES ADDED AS A RESULT OF YOUR OPERATIONS, ACTIVITIES OR PROCESSES? Please Check <input type="checkbox"/> Aluminum <input type="checkbox"/> Ammonia <input type="checkbox"/> Beryllium <input type="checkbox"/> Cadmium <input type="checkbox"/> Chlorine <input type="checkbox"/> Chromium <input type="checkbox"/> Copper <input type="checkbox"/> Cyanide <input type="checkbox"/> Grease <input type="checkbox"/> Lead <input type="checkbox"/> Mercury <input type="checkbox"/> Nickel <input type="checkbox"/> Oil <input type="checkbox"/> Phenols <input type="checkbox"/> Selenium <input type="checkbox"/> Zinc <input type="checkbox"/> None of These																
DISCHARGE DATA (Use additional forms, if necessary) (See Instructions)																
OUTFALL NO. 1		<input type="checkbox"/> Proposed <input type="checkbox"/> Replacement <input checked="" type="checkbox"/> Existing <input type="checkbox"/> Expansion		TYPE OF WASTE Sanitary												
TYPE OF TREATMENT Primary Settling/Tile Field		DESIGN FLOW 19,900 Gal/Day														
SURFACE DISCHARGE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If YES, Name of Receiving Waters		Classification Waters Index Number												
SUBSURFACE DISCHARGE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If YES, Name of nearest surface waters Susquehanna River		Distance 1900 Ft. SOIL TYPE UNN Depth to Water Table 5+ ft.												
OUTFALL NO. 2		<input type="checkbox"/> Proposed <input type="checkbox"/> Replacement <input checked="" type="checkbox"/> Existing <input type="checkbox"/> Expansion		TYPE OF WASTE Sanitary												
TYPE OF TREATMENT Primary Settling/Tile Field		DESIGN FLOW 9,900 Gal/Day														
SURFACE DISCHARGE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If YES, Name of Receiving Waters		Classification Waters Index Number												
SUBSURFACE DISCHARGE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If YES, Name of nearest surface waters Susquehanna River		Distance 1900 Ft. SOIL TYPE Hgn Depth to Water Table 5+ ft.												
OUTFALL NO.		<input type="checkbox"/> Proposed <input type="checkbox"/> Replacement <input type="checkbox"/> Existing <input type="checkbox"/> Expansion		TYPE OF WASTE												
TYPE OF TREATMENT		DESIGN FLOW Gal/Day														
SURFACE DISCHARGE <input type="checkbox"/> Yes <input type="checkbox"/> No		If YES, Name of Receiving Waters		Classification Waters Index Number												
SUBSURFACE DISCHARGE <input type="checkbox"/> Yes <input type="checkbox"/> No		If YES, Name of nearest surface waters		Distance Ft. SOIL TYPE Depth to Water Table												
I hereby affirm under penalty of perjury that the information provided on this form and any attached supplemental forms is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to section 210.45 of the Penal Law.																
APPLICANTS SIGNATURE (see Instructions)		DATE		PRINTED NAME												
				TITLE												
<p align="center">PERMIT VALIDATION SECTION (Department of Environmental Conservation Use Only)</p> <p>This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the provisions of the Federal Water Pollution Control Act, as amended by the Federal Water Pollution Control Act Amendments of 1972, P.L. 92-500, October 18, 1972 (33 U.S.C. §1251 et. seq.) (hereinafter referred to as "the Act"), and subject to the attached conditions.</p>				APPLICATION NUMBER NY --												
				EFFECTIVE DATE		EXPIRATION DATE										
				ATTACHMENTS:												
Signature of Permit Issuing Agent				Date												
CARD	Type Est.	Type Own	SIC CODE	# Out Falls	Dis. Class	CARD	Region	County	Major Basin	Sub Basin	Compact Area	CARD	Latitude	Longitude	CARD	Lim Ind
1	66	68	70	74	76	3	71	72	74	76	78	6	53	59	7	57

**APPENDIX H
PREVIOUS WASTEWATER SYSTEM ENGINEERING REPORT**

REC'D KA 2/17/93



Fox
Engineering

TODD B. SCHMIDT, P.E.
Licensed Professional Engineer in PA and NY

RR 2 BOX 41-G
HALLSTEAD, PA 18822

PHONE/FAX
(717) 879-2676

ENGINEERING
REPORT

for the

TIOGA PARK SEWAGE SYSTEM

Town of Nichols, Tioga County, New York

Hawkins Development Co., LLC
Mr. James W. Hawkins
PO Box 800
Harpursville, NY 13787
(607) 693-4295

Fox Project No. 516R16



Fox
Engineering

RR 2 Box 41-G
Hallstead, PA 18822
Phone/Fax (717) 879-2676



Todd Barry Schmidt, P.E.

June, 1996

TABLE OF CONTENTS

Application Form "D" for SPDES Permit

Introduction

Site and Vicinity Characteristics

Description of the Site

Past Uses of the Property

Current Uses of Adjoining Properties

Proposed Usage and Sewage Flows

Original Design Information

Existing Sewage Facilities

Physical Evaluation of Existing Sewage Systems

Proposed Changes to Sewer System

Conclusions

Appendix:

General Location Map

Soils Map

Aerial Photograph

Drawing R-1

Original Application for SPDES

Original Correspondence

Stamped Drawing Sheets

Overall Site Plan

Engineering Licenses

Attached: Original Project Plan



APPLICATION FORM "D"

for a State Pollutant Discharge Elimination System (SPDES) Permit

(A SPDES Application When Signed by a Permit Issuing Official Becomes a SPDES Permit)

PLEASE PRINT OR TYPE

APPLICATION TYPE <input checked="" type="checkbox"/> New <input type="checkbox"/> Renewal <input type="checkbox"/> Modification				IF RENEWAL OR MODIFICATION, GIVE PREVIOUS NUMBER NY— N/A												
OWNER'S NAME (Corporate, Partnership, Individual) Hawkins Development Co., LLC				TYPE OF OWNERSHIP <input checked="" type="checkbox"/> Corporate <input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input type="checkbox"/> Public												
OWNER'S MAILING ADDRESS (Street, City, State, Zip Code) PO Box 800, Harpursville, NY 13787						TELEPHONE NUMBER (607) 693-4295										
REFER ALL CORRESPONDENCE TO: (Name, Title and Address) James Hawkins, Owner, PO Box 800 Harpursville, NY 13787																
FACILITY NAME Tioga Park			FACILITY LOCATION (Street or Road) West River Drive		CITY, TOWN OR VILLAGE Town of Nichols											
COUNTY Tioga County		GIVE EXPLICIT DIRECTIONS TO LOCATION South side of West River Rd. 0.7 mile west of Cole Hill														
NATURE OF BUSINESS OR FACILITY Flea Market and Equestrian Arena				POPULATION SERVED (See Instructions) Workers												
FREQUENCY OF DISCHARGE All Year? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If No, Specify Number of Months <u>6</u> ** All Week? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If No, Specify Number of Days <u>2</u> **																
DOES YOUR DISCHARGE CONTAIN OR IS IT POSSIBLE FOR YOUR DISCHARGE TO CONTAIN ONE OR MORE OF THE FOLLOWING SUBSTANCES ADDED AS A RESULT OF YOUR OPERATIONS, ACTIVITIES OR PROCESSES? Please check: <input type="checkbox"/> Aluminum <input type="checkbox"/> Ammonia <input type="checkbox"/> Beryllium <input type="checkbox"/> Cadmium <input type="checkbox"/> Chlorine <input type="checkbox"/> Chromium <input type="checkbox"/> Copper <input type="checkbox"/> Cyanide <input type="checkbox"/> Grease <input type="checkbox"/> Lead <input type="checkbox"/> Mercury <input type="checkbox"/> Nickel <input type="checkbox"/> Oil <input type="checkbox"/> Phenols <input type="checkbox"/> Selenium <input type="checkbox"/> Zinc <input checked="" type="checkbox"/> None of These																
DISCHARGE DATA (Use additional forms, if necessary) (See Instructions)																
OUTFALL NO: 1	<input type="checkbox"/> Proposed <input checked="" type="checkbox"/> Existing	<input type="checkbox"/> Replacement <input type="checkbox"/> Expansion	TYPE OF WASTE Sanitary	TYPE OF TREATMENT Primary Settling/Field	DESIGN FLOW 19,500 Gal/Day											
SURFACE DISCHARGE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If YES, Name of Receiving Waters		Classification	Waters Index Number											
SUBSURFACE DISCHARGE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If YES, Name of Nearest Surface Water Susquehanna River		Distance 1900 Ft.	SOIL TYPE Unn Depth of Water Table 5+ ft.											
OUTFALL NO. 2	<input type="checkbox"/> Proposed <input checked="" type="checkbox"/> Existing	<input type="checkbox"/> Replacement <input type="checkbox"/> Expansion	TYPE OF WASTE Sanitary	TYPE OF TREATMENT Primary Settling/Field	DESIGN FLOW 9,825 Gal/Day											
SURFACE DISCHARGE <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If YES, Name of Receiving Waters		Classification	Waters Index Number											
SUBSURFACE DISCHARGE <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If YES, Name of Nearest Surface Water Susquehanna River		Distance 1900 Ft.	SOIL TYPE Hgn Depth of Water Table 5+ ft.											
OUTFALL NO.	<input type="checkbox"/> Proposed <input type="checkbox"/> Existing	<input type="checkbox"/> Replacement <input type="checkbox"/> Expansion	TYPE OF WASTE	TYPE OF TREATMENT	DESIGN FLOW Gal/Day											
SURFACE DISCHARGE <input type="checkbox"/> Yes <input type="checkbox"/> No		If YES, Name of Receiving Waters		Classification	Waters Index Number											
SUBSURFACE DISCHARGE <input type="checkbox"/> Yes <input type="checkbox"/> No		If YES, Name of Nearest Surface Water		Distance Ft.	SOIL TYPE Depth of Water Table											
I hereby affirm under penalty of perjury that information provided on this form and any attached supplemental forms is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.																
APPLICANT'S SIGNATURE (See Instructions) <i>James W. Hawkins</i>			DATE 6-5-96	PRINTED NAME James W. Hawkins	TITLE Owner											
PERMIT VALIDATION SECTION (Department of Environmental Conservation Use Only) This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the provisions of the Federal Water Pollution Control Act, as amended by the Federal Water Pollution Control Act Amendments of 1972, P.L. 92-500, October 18, 1972 (33 U.S.C. §1251 et. seq.) (hereinafter referred to as "the Act"), and subject to the attached conditions.				APPLICATION NUMBER NY-0244881												
				EFFCTIVE DATE	EXPIRATION DATE											
				ATTACHMENTS:												
Signature of Permit Issuing Official			Date													
CARD 1	Type Est 66	Type Own 68	SIC CODE 70 73	# Out Falls 74	Dis Class 76	CARD 3	Region 71	County 72	Major Basin 74	Sub Basin 76	Compact Area 78	CARD 6	Latitude 53	Longitude 58 59	CARD 7	Lim Ind 57

K22

Introduction

Mr. James W. Hawkins has purchased the 140 acre parcel of property in the Town of Nichols, Tioga County, commonly known as Tioga Park. Approximately 20 years ago, a horse racing facility was constructed on the site, used for two racing seasons and closed for the last 19 years. Mr. Hawkins is planning to reopen the facility as a combination flea market and stadium for equestrian events. The purpose of this report is to show that the existing sewage facilities are capable of safely handling the projected sewage flows during operation.

Site And Vicinity Characteristics

The surrounding land is relatively flat with low rolling hills. All the sand and gravel materials necessary for building the parking areas, track and roads were excavated from a quarry on the east end of the site. The soils are very well drained and composed mostly of sand and gravel materials. Please refer to the attached Soil Survey Map for the location of each soil type. The soil types found on the site are listed below.

Howard gravelly loam (Hgn, Hgh, Hgr, Hgt)

Unadilla silt loam (Unn)

Tioga silt loam (Ts)

Middlebury silt loam (Mi)

These soils are all moderately well drained to well drained. The soils do *not* form a corrosive environment. These two factors lead us to conclude that the buried components of the sewage system are still in good shape.

Description of the Site

The property is located in the Susquehanna River basin less than a mile to the south of the Susquehanna River. The property is fairly flat with a gentle slope toward the north. Most of the land is open field with low brush at the east and west ends. Less than 10% of the property has mature tree cover. All of the property is stabilized with either brushy vegetation, grasses, gravel roads or pavement.

There are approximately 14 horse barns, a large grandstand building, jockeys' quarters, pump house and a small office building. See the attached aerial photograph and original Site Plan for more details on size and location of the buildings.

Past Uses of the Property

According to historical records and interviews with knowledgeable people, the properties which make up Tioga Park have consistently been used for farming. There is *no* evidence that any commercial or industrial activities have taken place on the project site prior to the construction of the horse race track. Members of the Ostrander family owned the property from 1927 to 1975, at which time it was sold to James Nuckel and developed into what it is today. Members of the Wilson family owned the property prior to 1927. All evidence points to the property being used as farmland prior to 1975.

It is highly unlikely that past uses of the property have made a negative impact on its ability to handle sewage as designed.

Current and Past Use of Adjoining Properties

East

The properties to the east are owned by Lynn Bailey, Danny Rogers and Alfred Christiansen. Mr. Bailey's property is currently used as a hay field. Mr. Rogers property is largely unused. Mr. Christiansen's property is currently the site of his tire business. It is highly unlikely that any activities at the Park will have a negative impact on the adjoining properties from an environmental point of view.

North

The park is bounded on the north by an abandoned segment of railroad bed formerly owned by the Lackawanna Railroad. Currently, the railroad bed is owned by the Town of Nichols and is not in use.

The park is also bordered on the north by properties of Arthur & Candace Frank and properties of Wilford Frutiger. The Frank property is primarily a swamp between the railroad bed and West River Road.

The property owned by Wilford Frutiger is currently operated as a small mobile home park with less than five homes. The Tioga Park sewage system is not likely to have a negative effect on the on-site water well since the sewage system is sited at least 900 feet away from the well.

West

The property to the west of Tioga Park is owned by Howard and Carol Visscher. The property is currently used as farmland. It is highly unlikely that the Tioga Park Sewage facilities will have a negative impact on the adjacent fields which are cultivated with forage crops.

South

The park is bordered on the south by the Southern Tier Expressway, State Route 17. The closest well to the South is at least 900 ft from the nearest absorption field. The land to the south is at a higher elevation than the absorption fields at Tioga Park.

Proposed Usage and Sewage Flows

The new owner of Tioga Park is planning to reopen the facility with a slightly different focus than what it was used for in the past. Mr. Hawkins is planning to convert 5 of the existing barns into areas for flea market vendors to sell their goods. One of the barns will be used primarily for food vending for various outdoor events. The grandstand building will be refurbished to host equestrian events in a new arena to be constructed in front of the grandstand and a portion of the building will be a restaurant. The projected peak sewage flows for each system are calculated below:

The large sewage system near the Grandstand (System #1) will serve approx. 3,200 patrons during peak usage. The grandstand currently has approx. 1,850 seats. Mr. Hawkins is planning to add an additional 1,350 seats. The proposed restaurant will

have approx. 100 table seats. The sewage flows are calculated below using Expected Hydraulic Loading Rates from Table #3 in *Design Standards for Wastewater Treatment Works, 1988* published by N.Y. D.E.C.

3,200 Stadium Seats @ 5 gal./day/seat =	16,000 GPD
100 Restaurant Seats @ 35 gal./day/seat =	<u>3,500 GPD</u>
Total:	19,500 GPD

The smaller sewage system near the Barn Area (System #2) will serve the daily sewage from the small office, kitchen waste from finger food vendors with disposable dishes & utensils, and sanitary waste from the flea market patrons. The office will have less than 10 employees. The kitchen waste will be calculated based upon the expected number of patrons @ 3 gal/person/day (this figure was taken from PA Code, Title 25, Chapter 73.17, Sewage Flows). The sanitary waste from flea market patrons are calculated based upon square footage of the shopping areas.

Office Employees: 10 @ 15 gal./day=	150 GPD
Food Vendor Kitchen Waste (disposable utensils):	
1000 patrons @ 3 gal./person/day=	3,000 GPD
Shopping Area:	
5 Barns x 13,500 ft ² /barn x 0.1 gal./day=	<u>6,750 GPD</u>
Total:	9,900 GPD

Original Design Information

The sewage system design is shown on the Original Site Plan (very large drawing). As far as we can see, the sewage system was constructed according to the plans. The original design criteria is provided in a 12/18/75 letter to Patrick E. Mullins, PE (NY D.E.C.) from Peter E. Mayer, PE (Job & Job Consulting Engineers). The letter is provided in the Appendix to this report.

The letter states that the percolation rate for three tests was 1.2 minutes per inch. This indicated that the soils are well drained. System #1, which serves the Grandstand area, was originally designed to handle 20,500 gallons per day. System #2, which serves the barn area, was designed to handle 11,400 gallons per day. Since the original projected flows exceeded 30,000 GPD, 6 monitoring wells were installed to monitor the groundwater for contamination. The groundwater in the wells was sampled and analyzed for contamination. The available records on the project *do not* indicate any groundwater contamination. The sewage flows which we project are less than the original flows and should not cause any problems.

Existing Sewage Facilities

The sewage facilities at Tioga Park consist of two independent systems which serve two distinct areas of the site.

1. The Grandstand Area (System #1) provides sanitary facilities for the patrons and a proposed small restaurant in the grandstand building.
2. The Barn Area (System #2) provides sanitary facilities for the flea market patrons, food concession area and office personnel.

System #1 - Grandstand Area

System #1 consists of 8" asbestos concrete (AC) pipe coming from the grandstand building into a grease trap. From there, it joins up with another 8" AC pipe from the jockey's room and goes under the track to a manhole in the infield. At the manhole, the sewage flow splits and goes into two, side-by-side 11,300 gallon septic tanks. Both septic tanks drain into a concrete dosing chamber with three siphons. Each siphon alternately doses three separate 95 x 100 absorption fields through 6" AC pipe and 15 way distribution boxes. Each drain field consists of 15 laterals. Each lateral is 95 ft. long in a 2' wide trench surrounded by gravel. See the attached drawings for a layout of System #1.

According to *Design Standards for Wastewater Treatment Works, 1988* the septic tanks for daily flows greater than 15,000 GPD are required to be equivalent in size (or larger) than the daily flow. The existing tanks have a capacity of 22,600 gallons, which is large enough to handle the projected 19,500 GPD for System #1. The drain field has an effective absorption area of 8,550 ft². With 19,500 GPD of discharge, the Application Rate is calculated to be 2.28 gal/day/ft². Using the 1.2 min/in. percolation rate (from the 12/18/75 letter to Patrick E. Mullins, PE) the recommended application rate is 1.20 gal/day/ft². Our proposed application rate is higher than the rate specified in the DEC *Design Standards for Wastewater Treatment Works, 1988*, however, we feel strongly that the isolation distances at the site and soil conditions will allow the higher application rate to function properly.

System #2 - Barn Area

System #2 consists of an 8" AC building sewer pipe from the building into a manhole. From the manhole, the pipe runs directly into a grease trap. From the grease trap the 8" AC pipe runs approx. 365 feet to a manhole on the inside of the track. The manhole is connected to a 11,300 gallon septic tank. The septic tank discharges to the dosing tank via 6" AC pipe (this is the pipe that was broken, but has been repaired). The dosing tank contains two siphons which alternately activate to dose the two separate absorption areas. The two 86'x95' absorption fields are dosed in an alternating fashion through 6" AC pipe and 13 way distribution boxes. Each drain field consists of 13 laterals. Each lateral is 95 ft. long in a 2' wide trench surrounded by gravel. See the attached drawings for a layout of System #2.

According to *Design Standards for Wastewater Treatment Works, 1988* the septic tanks for daily flows between 5,000 and 15,000 GPD are required to be $3,750 + 0.75Q$, where Q =daily flow in gallons. The existing tank has a capacity of 11,300 gallons, which is large enough to handle the projected 9,900 GPD for System #2. The drain field has an effective absorption area of 4,940 ft². With 9,900 GPD of discharge, the Application Rate is calculated to be 2.00 gal/day/ft². Using the 1.2 min/in. percolation rate (from the 12/18/75 letter to Patrick E. Mullins, PE) the recommended application rate is 1.20 gal/day/ft². Our proposed application rate is higher than the rate specified in the DEC *Design Standards for Wastewater Treatment Works, 1988*, however, we feel strongly that the isolation distances at the site and soil conditions will allow the higher application rate to function properly.

Physical Evaluation of Existing Sewage Systems

The existing sewage systems were evaluated on April 8, 1996, and June 5, 1996. The first inspection resulted in the discovery of a broken pipe between the septic tank and the dosing tank on System #2 near the barn area.

Broken Pipe, System #2

The 6" asbestos concrete pipe which carries wastewater from the septic tank to the dosing tank was cracked due to insufficient supporting material beneath the center of the pipe. As the ground settled, the weight of the ground above the pipe caused it to fracture on the bottom.

The pipe was repaired on June 5, 1996, by encasing the broken section of pipe in 3500 psi concrete as shown on attached Drawing #R-1. Some of the material below the pipe was removed and replaced with compacted material. The repair of the pipe with concrete was chosen to patch the leak in the pipe, provide additional strength to the pipe and avoid a major disturbance to the existing system if new lengths of pipe were installed. Also, since the existing pipe contains asbestos, replacement pieces are very difficult to find.

Thousands of gallons of water were run through the system(s) and into the absorption fields with no apparent discharge to the surface. Each manhole, septic tank access and dosing tank access was checked to verify that the system was flowing properly. There were no apparent blockages in the system.

Proposed Changes to Sewer System

The food vendors for the flea market will setup shop in the existing barn labeled "Receiving" on the site plan by *Fox Engineering*. Interior plumbing will be installed in the building to supply restrooms and kitchen facilities with potable water. The waste will be piped out of the building via 8" solid PVC pipe to a new grease trap. From the new grease trap, the new 8" line will go directly into an existing sewer manhole adjacent to

the Office building. A 6" cleanout will be extended to grade at the midpoint between the new grease trap and existing manhole. The proposed new line is highlighted in pink on a marked-up print in the Appendix.

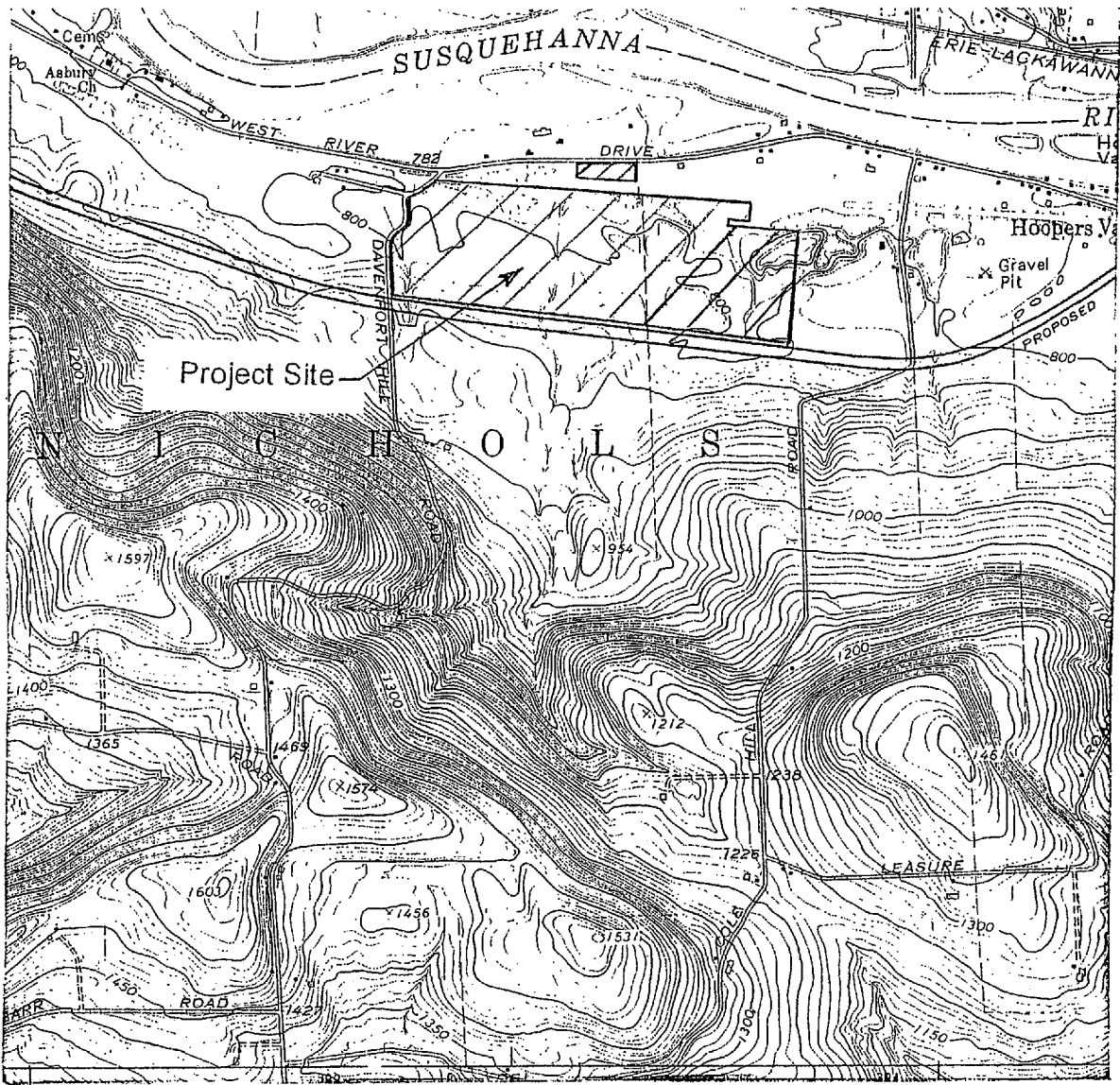
Conclusions

The existing sewer system at Tioga Park is capable of handling the projected sewage flows which will be generated at the site. The system is in good working order and has been designed to safely handle large quantities of wastewater. The key factor in the success of the system(s) is the excellent soil available at the site. I feel strongly that the sewer system is in good working order and will adequately serve the facility for its intended purpose.

APPENDIX

30 30

46545



U.S.G.S. Topographic
Map Name:

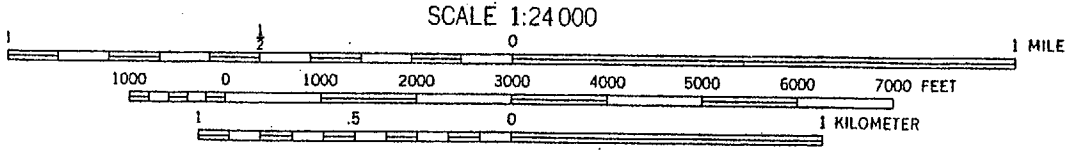
Barton, NY
7.5 Min. Series

LOCATION MAP
Tioga Park Property

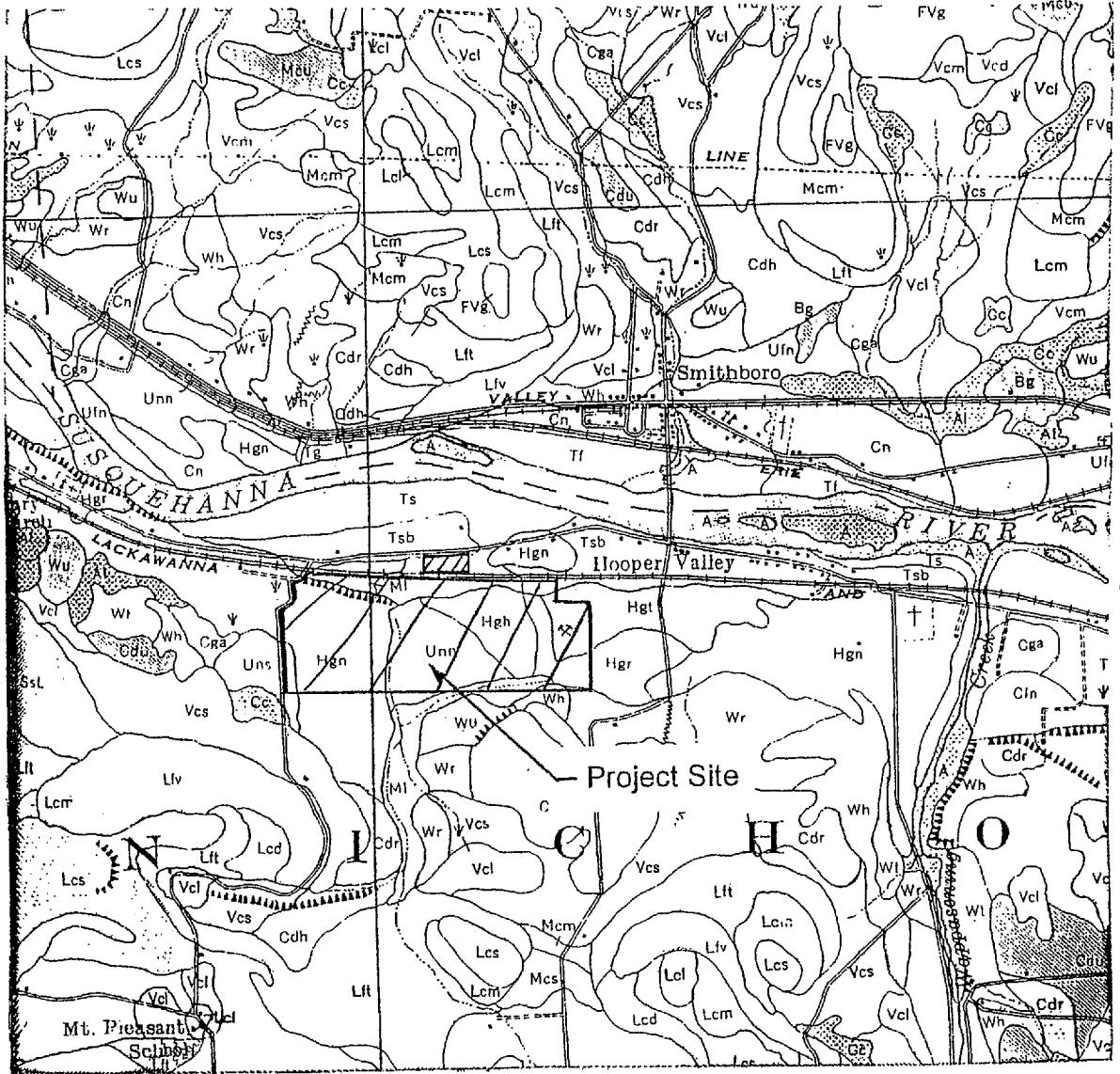
Town of Nichols
Tioga County, NY



Fox Engineering



SCALE 1:24 000
CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



Sheet No. 4

SOIL SURVEY MAP

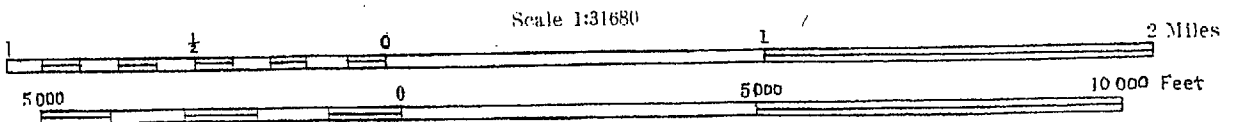
Tioga Park Property

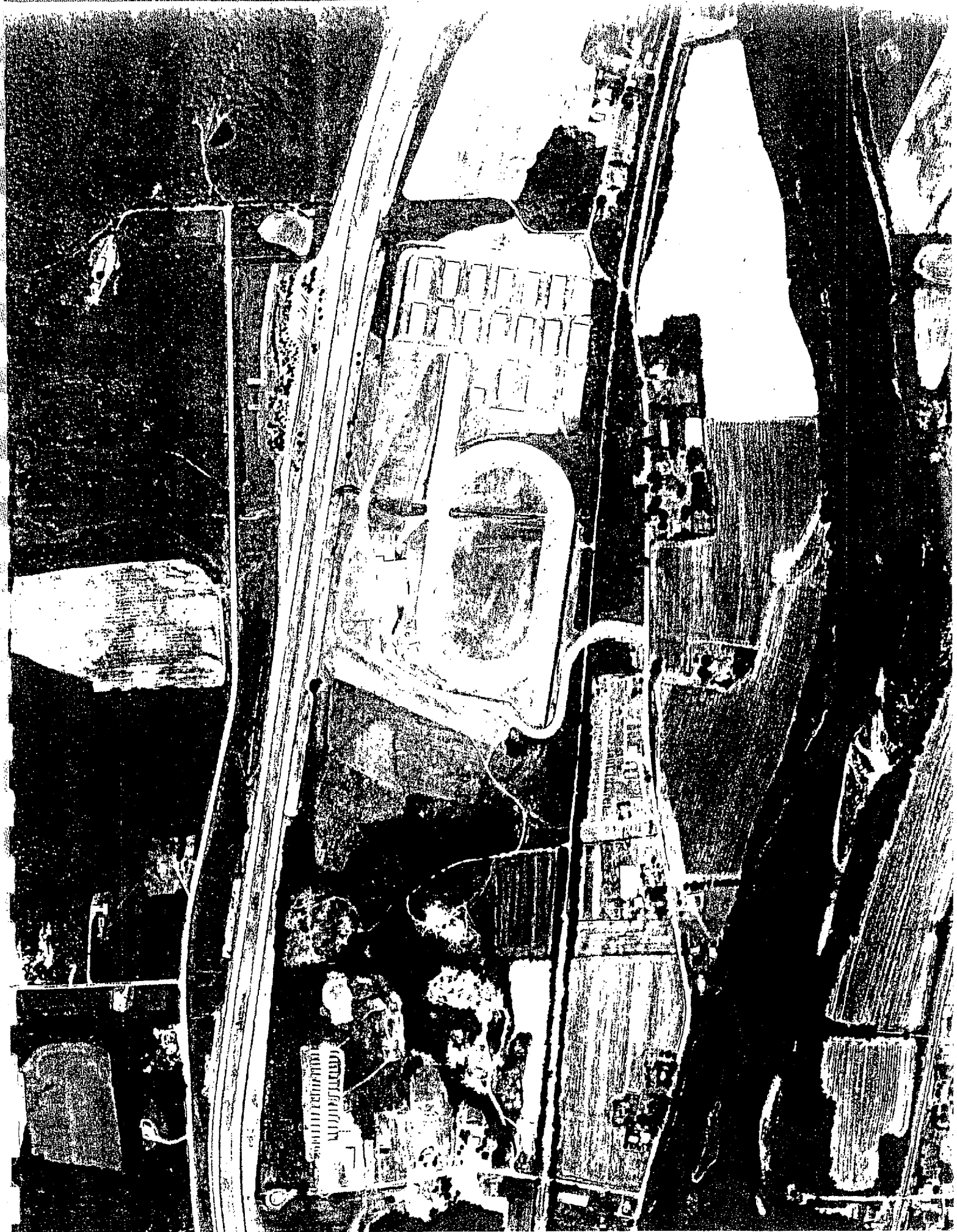
Soil Map
Tioga County, NY

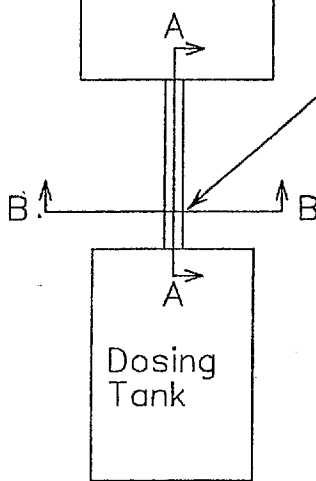
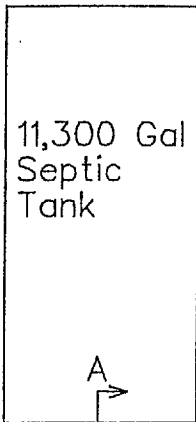
Town of Nichols
Tioga County, NY



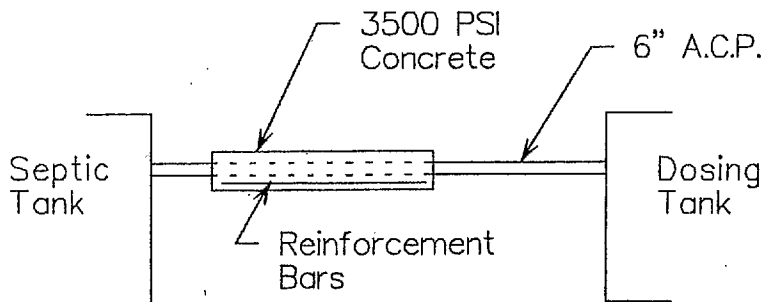
Fox Engineering



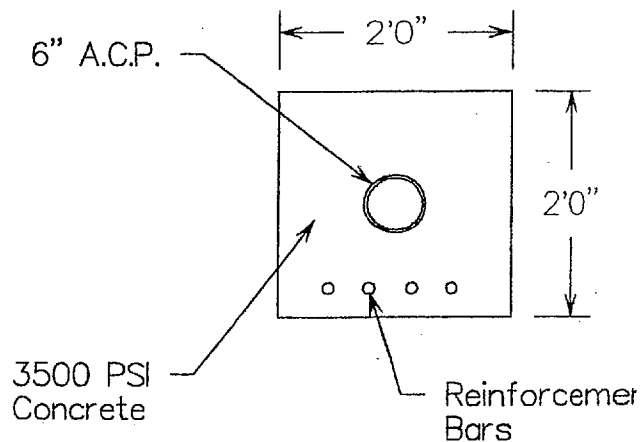




Broken 6" Asbestos
Concrete Pipe



Section A-A



Section B-B

DATE 6/5/96	SCALE: 1" = 1" FILE: 516R16R1
DRAWN T.B.S.	SHEET TITLE Tioga Park Pipe Repair
CHECKED T.B.S.	

TIOGA PARK SEWAGE SYSTEM
Town of Nichols, Tioga Co., NY
 Hawkins Development Co., LLC
 P.O. Box 800
 Harpursville, NY 13787
 (607) 503-4205

Fox
Engineering
 R.R. #2 Box 41-G
 Hallstead, PA 18822
 (717) 879-2676

PROJECT NUMBER 516R16
DRAWING NUMBER R-1



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

APPLICATION FORM D

FOR STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

(Please Print or Type) Complete Both Sides

1. Name, Location, Mailing Address, and Telephone No. of Facility Producing Discharge:

A. Facility Name Tioga Park
B. Street Address South of West River Drive, North of Route 17
C. R.D. or Box No. D. Post Office Nichols E. State New York
F. Zip 13812 G. Location Abutting East Of Davenport Hill Road
H. Community Name Nichols I. Municipality Nichols
J. County Tioga K. Telephone No.

2. Applicant Name (Give Corporate, Partnership, or Owner's Name)

CIB INTERNATIONAL INC.

3. Applicant's Mailing Address (if Different Than Facility Address):

A. Street Address 281 Liberty Street B. R.D. or Box No.
C. Post Office Little Ferry D. State New Jersey E. Zip 07643
F. Telephone No. 201 / 440-4700

4. Nature of Business Race Track

5. No. of Employees 100

6. Frequency of Discharge

A. Period: (x) All Year or Specify Months:
B. (x) All Week or Specify No. of Days Per Week:

7. Does your discharge contain or is it possible for your discharge to contain one or more of the following substances added as a result of your operations, activities, or processes:

- (x) None
() ammonia () cyanide () aluminum () beryllium () cadmium () chromium
() copper () lead () mercury () nickel () selenium () zinc () phenols
() chlorine (residual) (Check applicable item(s))

Outfall No.	Type of Waste (See Code)	Maximum Flow (gal/day)	Point of Discharge (See Code)	Treatment Units (See Code)	Outfall Status (See Code)	F.		
						Receiving Waters (See Code)	Stream Class	Waters Index Number
1	1, 3	20,500	12	21, 25	30	see below		
2	1, 3	11,400	12	21, 25	30			
3								
4								
5								

CODES:

1 - Type of Waste (Use Combination of Numbers where Applicable) - 1 - Sanitary (i.e. toilet, lavatory, shower, etc.)
 2 - Cooling 3 - Kitchen Wastes 4 - Laundry Wastes 5 - Filter Backwash 6 - Other (Specify)
 2 - Point of Discharge - 10 - Surface Water Discharge (i.e. ocean, lake, stream, etc.) 11 - Municipal Sewer System
 5 - Subsurface (i.e. tile field, seepage pit, etc.) 13 - Underground Well 14 - Evaporation Lagoon
 1 - Private Sewer System 16 - Other (Specify)

(FOR ADDITIONAL OUTFALLS, ADD SHEETS)

1 - Treatment Units Existing or Proposed (Use Combination of Nos. where Applicable) - 20 - None
 1 - Primary Settling (i.e. septic tank, settling tank, etc.) 22 - Activated Sludge of any type 23 - Trickling Filter(s)
 4 - Secondary Settling 25 - Tile Field(s) 26 - Leaching Pit(s) 27 - Sand Filtration 28 - Chlorination 29 - Other
 5 - Outfall Status - 30 - Proposed 31 - Existing 32 - Replacement of Existing 33 - Expansion of Existing
 Receiving Waters - If surface water discharge, give name of stream - If it is intended to discharge waste to public or private sewer system, give name of system's owner - If subsurface discharge, complete table below:

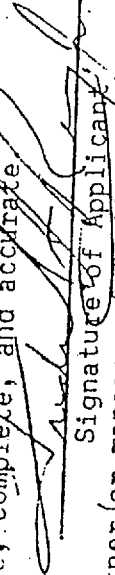
Outfall No.	Depth to Groundwater	Depth to Discharge	Soil Characteristics (i.e. clay, sand, etc.)	Name of Nearest Surface Water
1	none @ elev 786	elev 791	sand-gravel	Susquehanna River
2	none @ elev 786	elev 791	sand-gravel	Susquehanna River
3				
4				
5				

I certify that I am familiar with the information contained in the application and that to the best of my knowledge and belief such information is true, complete, and accurate.

Mr. F. J. Renz Jr. - President

Printed Name and Title of Person signing

(Must be corporate official, owner, or partner (or manager of facility only if owned by a corporation.))

Signature of Applicant: 

Date: Dec 16 1975

December 18, 1975

Patrick E. Mullins, P.E., Senior Sanitary Engineer
N.Y. State Dep't. of Environmental Conservation
Room 310
44 Hawley Street
Binghamton, New York 13901

Re: Tioga Park Race Track
Nichols, New York
Our Map No. 47-19

Dear Mr. Mullins:

Based upon the data furnished you in our letter dated September 12, 1975 and the requirements of the New York "Standards for Waste Treatment Works, Institutional and Commercial Sewage Facilities," we have prepared a design for the sewage disposal system for the Tioga Park Race Track.

Test pits and percolation tests were performed by Carl J. Winterberger, Civil Engineer, of Vestal, New York. Three (3) copies of Mr. Winterberger's report are attached for your information and the locations of these tests are shown on the plans accompanying this report. The maximum percolation rate for the three (3) tests taken was 1.2 minutes per inch.

The area subject to the least disturbance in the project is the track infield and it was therefore selected as the location for the disposal system. This area also provides ample expansion capabilities. The system itself was divided into two (2) independent systems to spread the fields over a larger area and to avoid crossing the existing intermittent drainage channel that must be maintained through the infield.

The project has two (2) distinctive operating areas:

- 1) the Barn area containing living and eating facilities for the resident and day staff, but excluding any laundry facilities
- 2) the Grandstand area, providing sanitary facilities for the racing patrons, related service personnel and limited snack bar concessions

The separation of the disposal facilities provides individual facilities for these two (2) areas of activity.

P. E. Mallins, P.E.
NY State Dept. of Env't'l. Conservation
Binghamton, N. Y.

- 2 -

12/18/75

The following daily requirements were anticipated:

1) Barn area:

Resident Staff	100 @ 50 GPPD =	5000 GPD
Day Workers	100 @ 15 GPPD =	1500 GPD
Employees' Cafeteria	400 @ 7 GPPD =	2800 GPD
Dishwashing	5 HR @ 7 GPM =	2100 GPD
Total Daily Volume =		11400 Gal.

2) Grandstand area:

Racing Patrons (Max.)	4000 @ 5 GPPD =	20000 GPD
Service Personnel	100 @ 5 GPPD =	500 GPD
Total Daily Volume =		20500 Gal.

Although the flow from each of these facilities is greater than 4,000 gallons per day and it is permitted to size the septic tanks at one half the daily flow, we felt the sporadic character of the discharges warranted the use of tanks capable of holding approximately the entire daily flow to insure an adequate detention period. For this reason a uniform tank size of 11,300 gallons was selected, utilizing a single tank for the Barn area and two parallel tanks for the Grandstand area.

The disposal fields were designed on the basis of the above-computed daily flow; namely, 11,400 gallons for the Barn area and 20,500 gallons for the Grandstand area.

The trench lengths were based upon 2' wide trenches with an application rate of 2.4 gallons per square foot per day, as determined from the percolation rate of 0-5 minutes per inch.

The lengths of the tile system for both disposal areas are in excess of 1,000 lineal feet, requiring dosing equipment.

Dosing is to be provided by means of two (2) 3" alternating siphons for the Barn area and three (3) 4" plural alternating siphons for the Grandstand area.

Peak hour discharge for the Barn area was estimated to be 34 GPM. The average discharge of the 3" siphon is 72 GPM, or 212% of this peak.

Peak hour discharge for the Grandstand area was estimated to be 85 GPM. The average discharge of the 4" siphon is 165 GPM, or 194% of peak.

Dosing tank volumes were based upon 75% of the total interior volume of the 4" tile lines being dosed. These tank volumes were set between operating levels of the siphons.

P. E. Killins, P.E.
NY State Dept. of Env't'l. Conservation
Binghamton, N. Y.

- 3 -

12/18/75

Six (6) copies of plans incorporating the above data are attached for your approval, together with three (3) completed copies of Application Form D.

The owners are most anxious to proceed with construction of this facility and we will be happy to provide any additional data or information whatsoever concerning the project that may help expedite your review.

Very truly yours,

JOB AND JOB CONSULTING ENGINEERS

By:

Peter E. Mayer, P.E.

PEM:KMBJ:js
Encls.

Jim Job's Job has no copies of the
approval and
the copies from Job's files
the plans (w/o the ~~and~~ stamp) are
attached

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
REGION SEVEN

DATE 2/27/76

This is a Waste Disposal System For
Tioga Park Race Track, Nichols, Tioga County
as defined in paragraph 1 of Art. 17 of ECL &
6 NYCRR 652, and in accordance with the
Letter of Approval

STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NOTE

W₁ - indicates location of proposed
sampling well.

GENERAL SITE PLAN
TIOGA PARK RACE TRACK
SHOWING SUB-SURFACE SEWAGE
DISPOSAL FIELDS IN RELATION TO
EXISTING WELLS IN VICINITY
SITUATED IN THE
TOWN OF NICHOLS

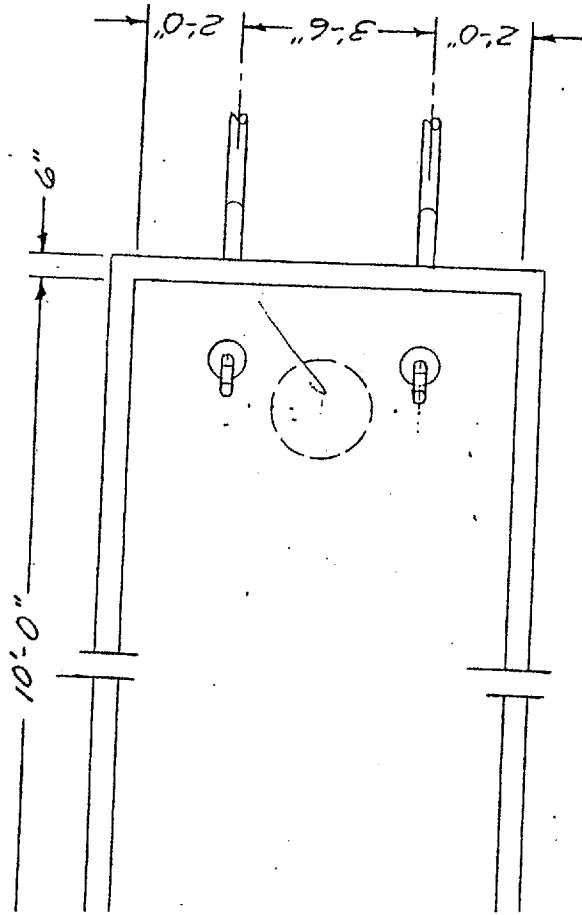
TIOGA COUNTY
SCALE 1"=200'

NEW YORK

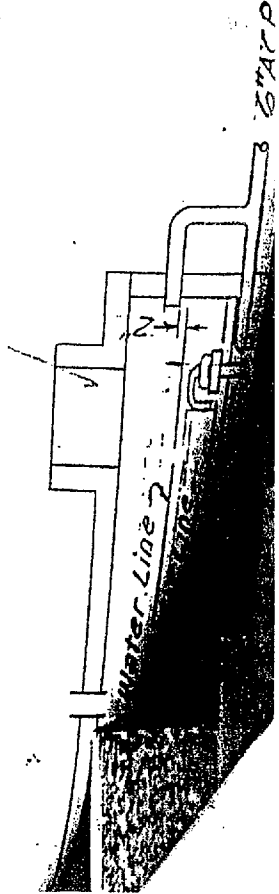
DECEMBER 11, 1975

Revised Feb. 16, 1976, Sampling Wells

JOB & JOB



PLAN



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
REGIONAL OFFICE

DATE 2/27/76

These plans for Waste Disposal System For

Tloga Park Race Track + Nichols (T) Tugger Co.

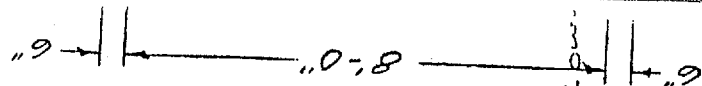
are hereby approved, pursuant to Article 17 of ECL § 65.2

65.2 subject to the provisions of the

letter of Approval issued to the

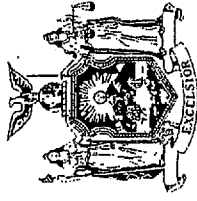
STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

by David Welch



67A

THE UNIVERSITY OF THE STATE OF NEW YORK
Commemorating 100 Years of Professional Regulation 1891-1991
EDUCATION DEPARTMENT



BE IT KNOWN THAT

TODD BARRY SCHMIDT

HAVING GIVEN SATISFACTORY EVIDENCE OF THE COMPLETION OF PROFESSIONAL AND OTHER REQUIREMENTS PRESCRIBED BY LAW IS QUALIFIED TO PRACTICE AS A

PROFESSIONAL ENGINEER

IN THE STATE OF NEW YORK

IN WITNESS WHEREOF THE EDUCATION DEPARTMENT GRANTS THIS LICENSE UNDER ITS SEAL AT ALBANY, NEW YORK THIS ELEVENTH DAY OF AUGUST, 1992.

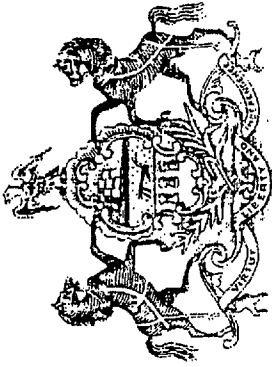
LICENSE NUMBER
069577



Thomas S. M.
PRESIDENT OF THE UNIVERSITY
AND COMMISSIONER OF EDUCATION

Douglas C. Haselwacker
EXECUTIVE SECRETARY
STATE BOARD FOR
ENGINEERING AND LAND SURVEYING

Commonwealth of Pennsylvania



Department of State Bureau of Professional and Occupational Affairs

TO ALL TO WHOM THESE PRESENTS SHALL COME GREETING,

STATE REGISTRATION BOARD FOR PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS

TODD BARRY SCHMIDT

HAVING SUBMITTED SATISFACTORY EVIDENCE OF FITNESS AS TO AGE, CHARACTER, ABILITY, TECHNICAL TRAINING AND PRACTICAL EXPERIENCE AND ALL OTHER MATTERS REQUIRED BY LAW AND IN ACCORDANCE WITH THE PROVISIONS OF THE ACT OF THE GENERAL ASSEMBLY APPROVED MAY 23, 1945, IS GRANTED THIS CERTIFICATE OF REGISTRATION AND IS HEREBY AUTHORIZED TO PRACTICE AS A

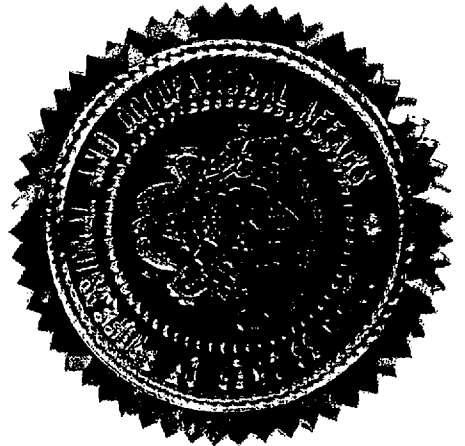
PROFESSIONAL ENGINEER

IN THE COMMONWEALTH OF PENNSYLVANIA

In Witness Whereof, we have hereunto set our hand and caused the Seal of the Bureau of Professional and Occupational Affairs to be affixed at Harrisburg.

OCTOBER 21, 1992

LICENSE NUMBER: PE-043509-R



Edward Bucher

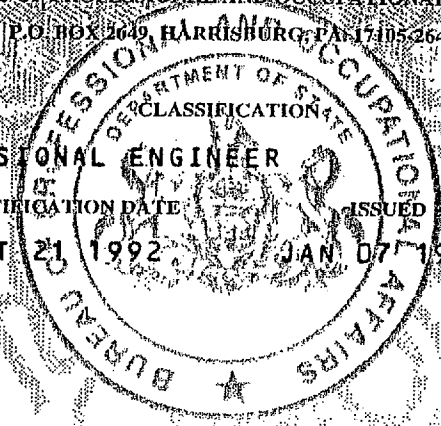
Chairperson

George L. Bledsoe

Commissioner

DISPLAY THIS CERTIFICATE PROMINENTLY AND NOTIFY AGENCY WITHIN 10 DAYS OF ANY CHANGE

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF STATE
BUREAU OF PROFESSIONAL AND OCCUPATIONAL AFFAIRS
P.O. BOX 2649, HARRISBURG, PA 17105-2649



CERTIFICATE NUMBER: PE-043509-R
CERTIFICATION DATE: OCT 21 1992
ISSUED: JAN 07 1995
EXPIRES: SEP 30 1997

ISSUED TO

Todd B. Schmidt
SIGNATURE

TODD BARRY SCHMIDT
RR 2 BOX 41G
HALLSTEAD PA 18822

[Signature]
COMMISSIONER OF PROFESSIONAL AND OCCUPATIONAL AFFAIRS

THE TWO-COLOR AREA OF THIS DOCUMENT CHANGES TONE GRADUALLY AND EVENLY FROM DARK TO LIGHT

The University of the State of New York

THIS IS TO CERTIFY THAT QUALIFICATIONS FOR PROFESSIONAL PRACTICE IN NEW YORK STATE HAVING BEEN APPROVED

THE STATE EDUCATION DEPARTMENT

HAS REGISTERED 2523609

SCHMIDT TODD BARRY
RR2 BOX 41G
HALLSTEAD

PA 18822-0000

FOR PRACTICE IN NEW YORK STATE AS A (N)

PROFESSIONAL ENGINEER

02/28/98

REGISTRATION PERIOD ENDS

069577-1

LICENSE/CERTIFICATE NO.

Todd B. Schmidt
SIGNATURE OF REGISTRANT

COMMISSIONER OF EDUCATION

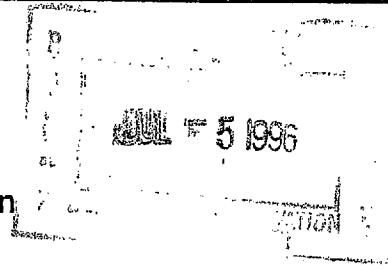
REGISTRATION CERTIFICATE --- NOT A LICENSE



RR 2 Box 41-G
Hallstead, PA 18822
Ph/Fax (717) 879-2676

July 2, 1996

Mr. Scott D. Cook
New York State Department of Environmental Conservation
Region 7 Water Quality Unit, Suite 203
615 Erie Blvd. West
Syracuse, NY 13204-2400



RE: Tioga Park SPDES Permit Additional Information
Town of Nichols, Tioga County, NY

Dear Mr. Cook:

In response to your letter dated June 28, 1996, we are happy to provide the following information and additional drawings.

- Item #1: The design flow for outfall #002 should be changed to 9,900 GPD on the permit application to reflect the calculations in the Engineering Report.
- Item #2: At this time there are no definite plans for the Jockey's Room. We anticipate that the building will be converted into a dressing room for performers or be converted into a three bedroom apartment for temporary usage. This will generate 400 GPD of sanitary wastewater at the very most. Therefore, the total daily flow for outfall #001 will be 19,500 GPD + 400 GPD = 19,900 GPD.
- Item #3: The proposed new Grease Trap and 8 inch line connecting the new food service area to outfall #002 will be done according to attached Drawings #D-1 and D-2 dated 6/28/96. The Grease Trap will be 750 gallons in size constructed of precast concrete. This design conforms to DEC *Design Standards for Wastewater Treatment Works, 1988*.
- Item #4: There are no flow measurement devices on the water supply system or either septic system on the project site. We propose to install a water flow meter on the discharge to the water storage tank as shown on the attached water supply schematic diagram. This flow meter will give us a running total of all water flow from the pump house into the water distribution system.
- Item #5: A copy of the original monitoring wells location map is attached to this correspondence. The Applicant is willing to perform groundwater

monitoring for Bacteria and Nitrates at the six indicated locations. We respectfully request that there be a one year time limitation on groundwater monitoring. If all water samples show a permissible level of these substances during the one year timeframe, we request that further monitoring be omitted from the SPDES permit requirements.

Attached, you will find a copy of an Engineer's Certification for the septic systems (Outfalls #1 & #2) at Tioga Park. After a physical review of the systems, it is my *opinion* that the systems will function properly as designed and installed.

If you have any questions about the information contained in this letter or the attached drawings, please do not hesitate to contact me at (717) 879-2676. Thank You.

Sincerely,



Todd B. Schmidt, PE
Principal Engineer

Enclosures

cc: Mr. James W. Hawkins - Hawkins Development Co.
Mr. Lawrence C. Anderson - Hinman, Howard & Kattell
Mr. Gary Rice - Tioga County Health Department



RR 2 Box 41-G
Hallstead, PA 18822
Ph/Fax (717) 879-2676

June 28, 1996

Mr. Scott D. Cook
New York State Department of Environmental Conservation
Region 7 Water Quality Unit, Suite 203
615 Erie Blvd. West
Syracuse, NY 13204-2400

RE: Engineer's Certification for the
Tioga Park Septic Systems
Town of Nichols, Tioga County, NY

Dear Mr. Cook:

The existing sewage systems at the Tioga Park horse race track in the Town of Nichols, Tioga County, NY were inspected on April 8, 1996, and June 5, 1996 by Todd B. Schmidt, PE of *Fox Engineering*. The first inspection resulted in the discovery of a broken pipe between the septic tank and the dosing tank on System #2 near the barn area.

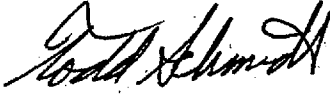
The pipe was repaired on June 5, 1996, by encasing the broken section of pipe in 3500 psi concrete as shown on attached Drawing #R-1. Some of the materials below the pipe were removed and replaced with compacted material. The repair of the pipe with concrete was chosen to patch the leak in the pipe, provide additional strength to the pipe and avoid a major disturbance to the existing system if new lengths of pipe were installed. Also, since the existing pipe contains asbestos, replacement pipes are very difficult to find.

Thousands of gallons of water were run through each system and into the absorption fields with no apparent discharge to the surface. Each manhole, septic tank access and dosing tank access was checked to verify that the system was flowing properly. There were no apparent blockages in either system.

It is my opinion that the existing sewer systems at Tioga Park are capable of handling the projected sewage flows which will be generated at the site. The systems are in good working order and have been designed to safely handle large quantities of wastewater. The key factor in the success of the systems is the excellent soil available at the site. I feel strongly that the sewer systems are in good working order and will adequately serve the facility for its intended purpose.

If you have any questions about the information contained in this letter or the attached drawings, please do not hesitate to contact me at (717) 879-2676. Thank You.

Sincerely,

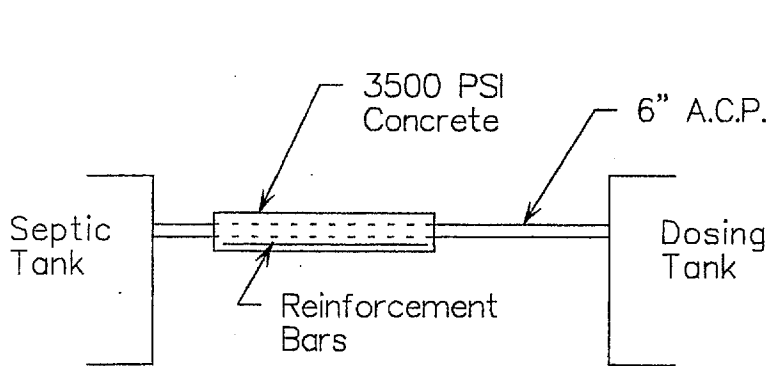
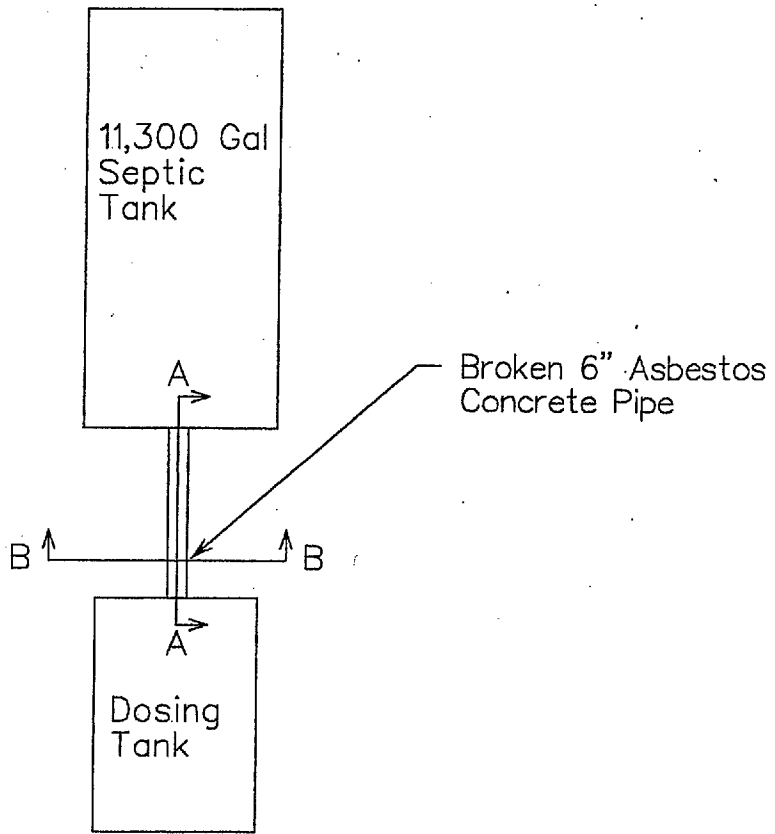


Todd B. Schmidt, PE
Principal Engineer

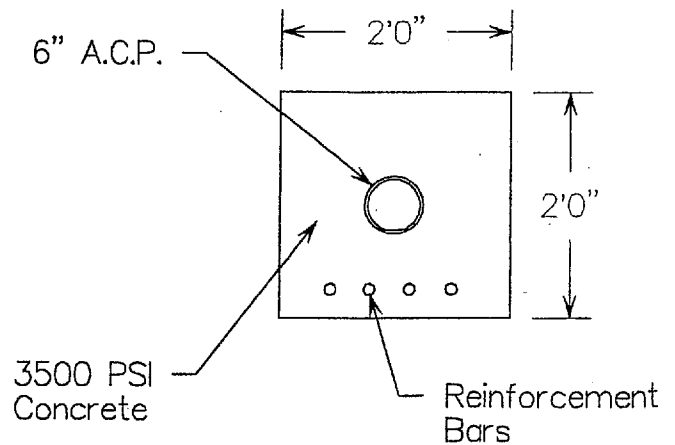
cc: Mr. James W. Hawkins - Hawkins Development Co.
Mr. Lawrence C. Anderson - Hinman, Howard & Kattell
Mr. Gary Rice - Tioga County Health Department



6/28/96



Section A-A



Section B-B

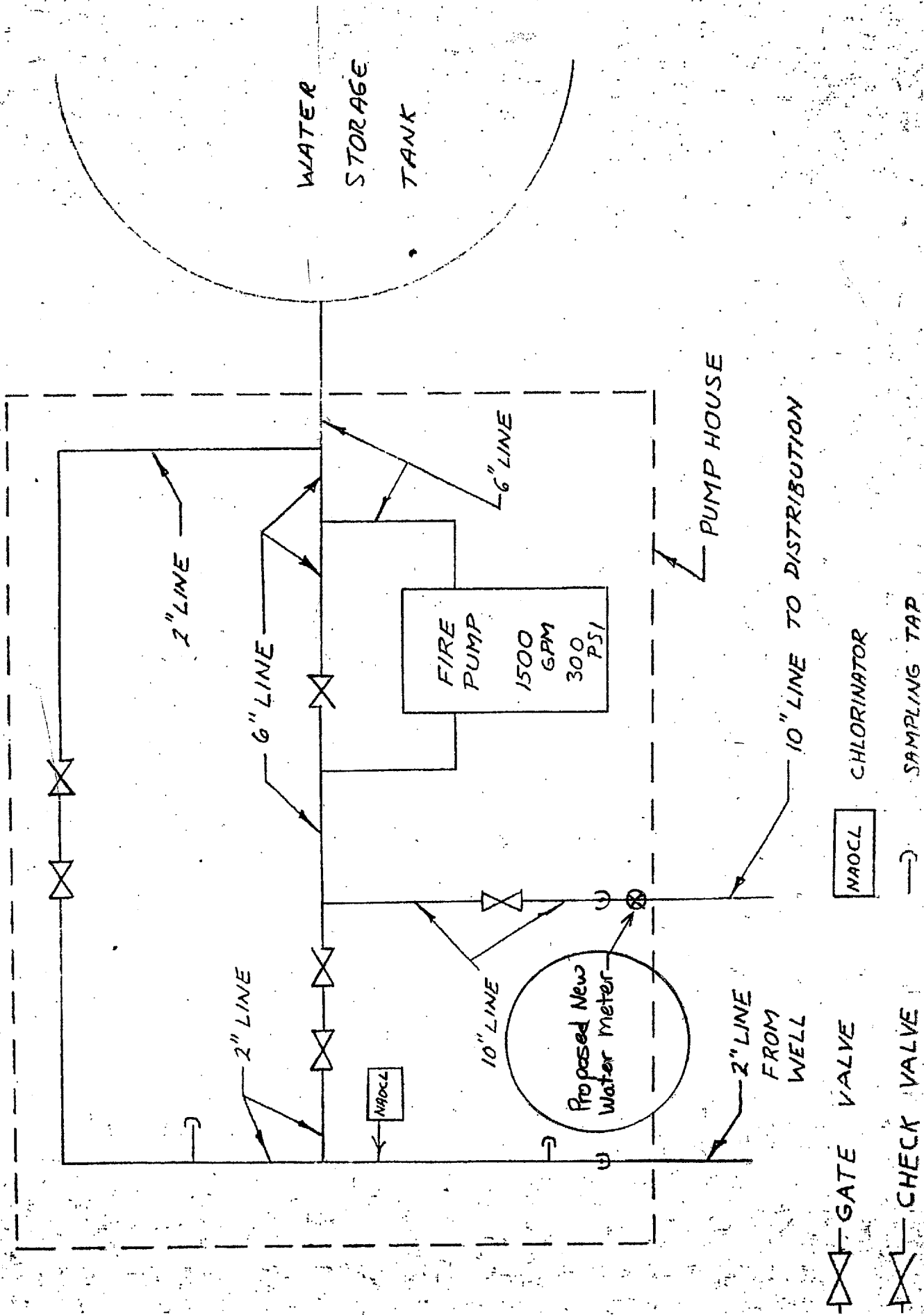
DATE 3/5/96	SCALE: 1" = 1" FILE: 516R16R1
DRAWN T.B.S.	SHEET TITLE Tioga Park Pipe Repair Detail
CHECKED T.B.S.	

TIOGA PARK SEWAGE SYSTEM
Town of Nichols, Tioga Co., NY
 Hawkins Development Co., LLC
 P.O. Box 800
 Harpursville, NY 13787
 (607) 693-4295

FOX
Engineering
 R.R. #2 Box 41-G
 Halstead, PA 18822
 (717) 879-2676

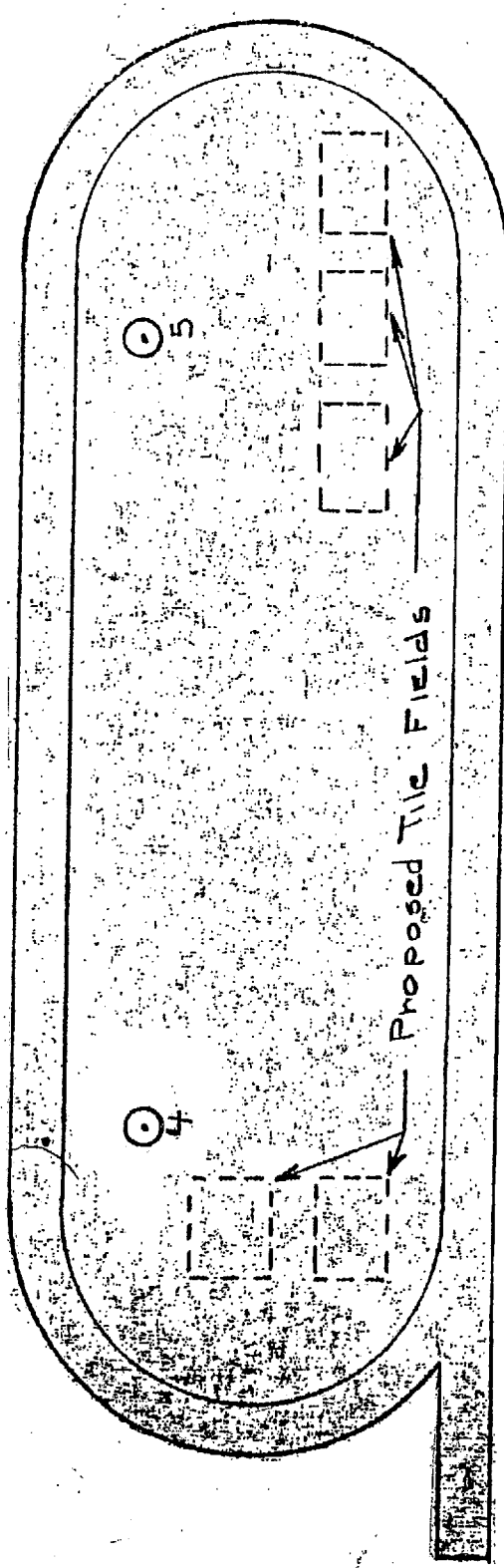
PROJECT NUMBER 516R16
R-1
DRAWING NUMBER

TIOGA PARK
WATER SUPPLY VALVING



ERIE LACKAWANNA

4 2
3
Proposed Sampling Well (Type)



Existing Monitoring Wells Map
7/2/96

Proposed

New York State Department of Environmental Conservation
Region 7 Water Quality Unit, Suite 203
615 Erie Blvd. W., Syracuse, NY 13204-2400
(315) 426-7500



Michael Zagata
Commissioner

June 28, 1996

Todd B. Schmidt, P.E.
Fox Engineering
RR 2 Box 41-G
Hallstead, PA 18822

RE: Tioga Park
(T) Nichols
Tioga County, NY

Dear Mr. Schmidt:


This Department and the Tioga County Health Department have jointly reviewed the SPDES permit application and engineering report for the above referenced facility. As we discussed in our June 25th phone conversation, the following comments are to be addressed prior to final Departmental engineering plan review & approval and subsequent issuance of the SPDES permit:

1. The design flow for outfall # 002 (barn area) from the engineering report is 9,900 GPD and the design flow listed on the permit application for this outfall is 9,825 GPD. The design flows should be same in both cases.
2. What is the planned use of the Jockey's Room and what type of facilities are located in this building? This is a potential flow increase to the wastewater treatment system that has not been addressed in the report.
3. The engineering plan show the addition of a 500 Gal. Grease Trap and an 8 inch line connecting the new food service area to Outfall # 002. The minimum required size for Grease Traps are 750 Gals as stated in our design standards. The plans must reflect the minimum required size of the Grease Trap.
4. A flow measurement devise will be required to be incorporated into the wastewater treatment system to determine the actual flows entering the system. Actual water use records or water supply well pump readings will be acceptable, but actual flow readings into each system would be much preferable to ensure the systems do not fail due to hydraulic overloading.

5. The original SPDES permit for this facility had a set of special conditions attached to it concerning 6 groundwater monitoring wells and the required sampling of the wells. Please provide the locations and working conditions of the monitoring wells on a site map or plans. This facility will be required by its SPDES permit to do groundwater sampling and monitoring. The reasoning behind this monitoring is to protect the groundwater and local drinking water supplies from Bacteria and Nitrate contamination. Both of these parameters are major health concerns for drinking water supplies originating from groundwater sources.

Please submit revised Engineering Plans or Specifications to this office addressing the above comments. If you have any further questions feel free to contact this office at (315) 426-7500.

Sincerely,



Scott D. Cook
Environmental Engineering Technician 3

cc: Gary Rice Tioga County Health Dept.

APPENDIX I
SEPTIC SYSTEM MONITORING WELL TESTING RESULTS



quality ■ accuracy ■ reliability

ENVIRONMENTAL

390 N. Pennsylvania Ave.
South Waverly, PA 18840-2826
Phone (570) 888-0169
FAX (570) 888-0717

Certificate of Analysis

Tioga Downs Racetrack, LLC P.O. Box 509 Nichols NY, 13812	Project: Monitoring Wells Project No: [none] Project Manager: Mark Phifer	Reported: 05/25/05 13:24
---	---	-----------------------------

Turn 3
5D25045-02 (Waste Water) (MW-2)

Date Sampled: 04/22/05 13:55
Date Received: 04/22/05 16:50

Analyze	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
Conventional Chemistry Parameters by APHA/EPA Methods								
Nitrate as N	<0.05	0.05	mg/l	04/27/05 00:00	04/27/05 00:00	EPA 353.2	IC	
pH	6.63		pH Units	04/22/05 16:50	04/22/05 17:00	EPA 150.1	IC	pHD

Qualifiers:

pHD = The maximum holding time is 1 hour according to NY ELAP or 15 minutes according to PA Critical Elements.

Eastern Laboratory Services, Ltd.

Barbara Hohman

Reviewed by Barbara Hohman, QA Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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NY 11216

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 South Waverly, PA 18840-2826
 Phone (570) 888-0169
 FAX (570) 888-0717

Certificate of Analysis

Tioga Downs Racetrack, LLC P.O. Box 509 Nichols NY, 13812	Project: Fecal Coliform Project No: [none] Project Manager: Mark Phifer	Reported: 05/25/05 13:26
---	---	------------------------------------

Well--Turn 3 (MW-2) Date Sampled: 04/22/05 15:05
 5D22109-03 (Drinking Water) Date Received: 04/22/05 16:46

Analyte	Result	MCL	Analyzed	Method	Analyst	Notes
Fecal Coliform in Water by Membrane Filtration						
Fecal Coliforms	<10	<0	CFU/100 ml	04/22/05 17:00	SM18-9222D	SK

Note: Detection Limit is 10 CFU/100 ml per Tracy Cole.

Eastern Laboratory Services, Ltd.

Barbara Hohman

Reviewed by Barbara Hohman, QA Manager

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 Phone (570) 888-0169
 FAX (570) 888-0717

Certificate of Analysis

Tioga Downs Racetrack, LLC P.O. Box 509 Nichols NY, 13812	Project: Monitoring Wells Project No: [none] Project Manager: Mark Phifer	Reported: 05/25/05 13:24
---	---	-----------------------------

Infield (MW-4)
 SD25045-03 (Waste Water)

Date Sampled: 04/22/05 15:05
 Date Received: 04/22/05 16:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
Conventional Chemistry Parameters by APHA/EPA Methods								
Nitrate as N	<0.05	0.05	mg/l	04/27/05 00:00	04/27/05 00:00	EPA 353.2	IC	
pH	9.47		pH Units	04/22/05 16:50	04/22/05 17:05	EPA 150.1	IC	pHD

Qualifiers:
 pHD = The maximum holding time is 1 hour according to NY ELAP or 15 minutes according to PA Critical Elements.

Eastern Laboratory Services, Ltd.

Barbara Hohman

Reviewed by Barbara Hohman, QA Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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390 N. Pennsylv.

South Waverly, PA 1888A

Phone (570) 888-

FAX (570) 888-0,

Certificate of Analysis

Tioga Downs Racetrack, LLC P.O. Box 509 Nichols NY, 13812	Project: Fecal Coliform Project No: [none] Project Manager: Mark Phifer	Reported: 05/25/05 13:26
---	---	-----------------------------

Well-Infield (MW-4)
5D22109-01 (Drinking Water)

Date Sampled: 04/22/05 15:05
Date Received: 04/22/05 16:46

Analyte	Result	MCL	Method	Analyst	Notes
Fecal Coliform in Water by Membrane Filtration					
Fecal Coliforms	<10	<0	CFU/100 ml	SM18-9222D	SK

Notes: Detection limit is 10 CFU/100 ml per Tracy Cole.

Eastern Laboratory Services, Ltd.

Barbara Hohman

Reviewed by Barbara Hohman, QA Manager

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South Waverly, PA 18840-2826
Phone (570) 888-0169
FAX (570) 888-0717

Certificate of Analysis

Tioga Downs Racetrack, LLC P.O. Box 509 Nichols NY, 13812	Project: Monitoring Wells Project No: [none] Project Manager: Mark Phifer	Reported: 05/25/05 13:24
---	---	-----------------------------

Turn 2
5D25045-01 (Waste Water) (MW-6)

Date Sampled: 04/22/05 14:15
Date Received: 04/22/05 16:50

Analyte	Result	Detection Limit	Units	Prepared	Analyzed	Method	Analyst	Notes
Conventional Chemistry Parameters by APHA/EPA Methods								
Nitrate as N	0.09	0.05	mg/l	04/27/05 00:00	04/27/05 00:00	EPA 353.2	IC	
pH	7.22		pH Units	04/22/05 16:50	04/22/05 17:08	EPA 150.1	IC	pHD

Qualifiers.
pHD = The maximum holding time is 1 hour according to NY ELAP or 15 minutes according to PA Critical Elements.

Eastern Laboratory Services, Ltd.

Barbara Hohman

Reviewed by Barbara Hohman, QA Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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ENVIRONMENTAL
390 N. Pennsylvania Ave.
South Waverly, PA 18840-2826
Phone (570) 888-0169
FAX (570) 888-0717

Certificate of Analysis

Tioga Downs Racetrack, LLC P.O. Box 509 Nichols NY, 13812	Project: Fecal Coliform Project No: [none] Project Manager: Mark Phifer	Reported: 05/25/05 13:26
---	---	-----------------------------

Well-Turn 2 (MW-6) Date Sampled: 04/22/05 15:05
 5D22109-02 (Drinking Water) Date Received: 04/22/05 16:46

Analyte	Result	MCL	Analyzed	Method	Analyst	Notes
Fecal Coliform in Water by Membrane Filtration						
Fecal Coliforms	<10	<0	CFU/100 ml	04/22/05 17:00	SM18-9222D	SK

Note: Detection limit is 10 CFU/100 ml per Tracy Cole.

Eastern Laboratory Services, Ltd.

Barbara Hohman

Reviewed by Barbara Hohman, QA Manager

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