NAME OF PRP:

Helion Industries / Belleville Industrial Park

FACILITY ADDRESS: LOCATION:

681 Main Street River Mile: 8.95
Belleville, New Jersey Reference Map Number: 35

PROCESSES UTILIZED:

Manufacturing of photographic equipment, supplies and chemical preparations.

DISCHARGE:

- 4/20/77 - 06/10/77 - An illegal connection to the Main Street storm sewer was located as a result of an investigation of a polluting discharge. A white colored liquid was overflowing from a manhole in front of Helion Industries, flowing down the Industrial Park driveway, into the storm sewer and then to the Passaic River. [PVSC Monthly Reports: March-April 1977; May-June, 1977; PVSC Stream Contamination Reports.]

PROBABLE HAZARDOUS SUBSTANCES:

- Silver
- Solvents

RIVER SAMPLES: No samples have been collected in close proximity to this location.
May 20, 1977

Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey

Re: Bi-Monthly Report
March and April 1977

Gentlemen:

The following is my report which covers the months of March and April 1977, and consists of three parts:

Part I: Special Reports
#1 - User Charges Page 1
#2 - Pretreatment of Industrial Waste Page 7
#3 - The Passaic River March-April 1977 Page 19

Part II: Pollution violations that were eliminated during the month, together with a report on how elimination occurred Page 26

Part III: Pollution violations that were still discharging at the end of the month into the streams under the jurisdiction of the PVSC, together with a report on what is being done to abate such pollution Page 36
Violation - Belleville Industrial Park (Helion Industries), 681 Main Street, Belleville

April 20-30, 1977 (D. DeMarco)

On April 20, 1977, while making routine checks in his district, Inspector DeMarco observed a white colored liquid flowing down a driveway at the Belleville Industrial Park, and into a storm sewer catch basin on Main Street, thence to the Passaic River. Checking further, he found that the liquid was overflowing from a manhole in front of Helion Industries.

Inspector DeMarco then met with Mr. Bernard Slater, Plant Engineer for the Industrial Park, and was informed that the manhole was over a storm sewer which was blocked. Mr. Slater was told that this was an illegal discharge since this material should not have ever been discharged into a storm sewer. Further investigation revealed that the internal building sewer line was connected to the storm sewer. Mr. Slater was directed to repipe the building sewer line to the sanitary sewer and he agreed to do this.

Inspector DeMarco then met with Mr. Vincent Esposito, Plant Manager of Helion Industries, and when he was informed of the situation Mr. Esposito stated he would not use the sewer until it was reconnected to the sanitary sewer. Although subsequent investigations showed that Helion was not polluting, this violation will be carried until the sewer connection is made. In addition, PVSC is surveying the complex to determine if other illegal connections to the storm sewer from other plants exist.

Violation - Town of Belleville, Second River Joint Meeting

July 15, 1976 - April 30, 1977 (D. DeMarco) (M. Cordsaso)

See the PVSC 1976 Annual Report, page 181. PVSC's Mr. D'Ascensio wrote to Mr. Decher, Secretary of the Second River Joint Meeting on January 14, and requested a status report. Mr. Decher replied (Jan. 17, 1977) that the break in the sanitary sewer line crossing the bridge over Second River was in the sewer belonging to Belleville, and therefore was the responsibility of the Town of Belleville. Mr. D'Ascensio then wrote to Mr. Soldo on January 19, and enclosed a copy of Mr. Decher's letter and requested a status report. Mr. Soldo replied on January 25, that although it had not been firmly established that the responsibility was Belleville's, that as soon as the weather permitted, he intended to eliminate the existing Belleville line in the bridge and enter the Second River Joint Meeting trunk line at a point upstream.

Nothing further was done and on April 29 Inspector DeMarco spoke to Mr. Soldo and requested a status report. Mr. Soldo informed him that Belleville hoped to start work the week of May 9 in order to relocate the 8-inch sewer.
July 27, 1977

Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey 07105

Re: Bi-Monthly Report
May and June 1977

Gentlemen:

The following is my report which covers the months of May and June 1977, and consists of three parts:

Part I: Special Reports

#1 - The Passaic River
May-June 1977 Page 1

#2 - A Potpourri of Problems Page 8

Part II: Pollution violations that were eliminated during the month, together with a report on how elimination occurred Page 14

Part III: Pollution violations that were still discharging at the end of the month into the streams under the jurisdiction of the PVSC, together with a report on what is being done to abate such pollution Page 30
Violation and Elimination - Allied Textile Printers
Corp., 1 Van Houten Street, Paterson, New Jersey
May 24 - May 31, 1977 (T. Costello)

While making a routine inspection of the West Broadway overflow outlet at 11:30 A.M. on May 25, 1977, Inspector Costello observed an oily film in the Passaic River. He traced it upstream to Allied Textile, and met with Mr. Harold Mueller, Plant Engineer. Mr. Mueller explained that the plant sewage pumps failed electrically at 9:00 P.M. on May 24, and the wet well overflowed allowing sewage to run down the bank and into the river. When Mr. Mueller was contacted by plant personnel, he proceeded to the plant where he corrected the failure by 11:00 P.M., stopping the overflow. Although the violation was eliminated the oily film was visible along the bank until May 31, 1977.

Violation and Elimination - Belleville Industrial Park,
(Helion Industries), 681 Main Street, Belleville, New Jersey
April 20 - June 10, 1977 (D. DeMarco)

On April 20, 1977, while making routine checks in his district, Inspector DeMarco observed a white colored liquid flowing down a driveway at the Belleville Industrial Park, and into a storm sewer catch basin on Main Street, thence to the Passaic River. Checking further, he found that the liquid was overflowing from a manhole in front of Helion Industries.

Inspector DeMarco then met with Mr. Bernard Slater, Plant Engineer for the Industrial Park, and was informed that the manhole was over a storm sewer which was blocked. Mr. Slater was told that this was an illegal discharge since this material should not have ever been discharged into a storm sewer. Further investigation revealed that the internal building sewer line was connected to the storm sewer. Mr. Slater was directed to repipe the building sewer line to the sanitary sewer and he agreed to do this.

Inspector DeMarco then met with Mr. Vincent Esposito, Plant Manager of Helion Industries, and when he was informed of the situation Mr. Esposito stated he would not use the sewer until it was reconnected to the sanitary sewer. Although subsequent investigations showed that Helion was not polluting, this violation was carried until the sewer connection was made.

The illegal connection was confirmed on May 3, by putting dye into the floor drain and seeing it appear in the storm drain. Although Mr. Slater had promised to make the connection to the sanitary sewer in April, Mr. Lubetkin was forced to write to Mr. Ellis of the Belleville Industrial Center on May 19 and direct him to make the modifications promised. The material was delivered in May, and a sump with a pump was installed to pump the industrial waste to the sanitary sewer via 20 feet of 1½" pipe. The storm sewer connection was sealed as of June 10, 1977.
STREAM CONTAMINATION REPORT

District No. 6  Date: 4/20/77  Time: 

Weather: Clear

Company Name: BELLEVILLE INDUSTRIAL CENTER

Address: 681 Main St., Belleville, N.J.

Name & Title of Person Contacted: Mr. Abram Ellis, Pres.

Telephone: 710-0300

Nature of Business: Industrial complex

No. of Outlets: (1) One to Passaic River

Method of Waste Disposal: Sanitary Sewer x  Combined Sewer
Storm Sewer, River or Ditch

If NPDES Permit is Required: Draft Permit: Final Permit:

Violation: Waste water into storm sewer to Passaic River

1. Color
2. Odor
3. Turbidity
4. Estimated Flow (G.P.M.)
5. Collection on Banks
6. Surface Scum, Foam or Oil
7. Approximate Distance Extending into Stream or River; Width Upstream of Downstream
8. pH Reaction with Test Paper Sample Taken Yes
9. Why Sample Not Taken

(Co mplete narrative on reverse side)
While making a routine inspection I noticed large puddles of water coming down the driveway from the Industrial Center and going into the catch basin on Main St., Belleville, N.J. My investigation revealed that the storm sewer was blocked up and the water was coming out of a catch basin in front of Blue. It was determined that this water had a white cast to it. I contacted Mr. Bernie Slater, Plant Engineer and he informed me that there must be a blockage into the storm sewer and that he would have this un-blocked as soon as possible. I questioned him about the discoloration in the water, (white) and he informed me that there is a possibility that Blue, 11, occupied by the Helion Industries Inc. was discharging their tank washing into a catch basin in the plant that empties out into the storm sewer that leads out into the Passaic River. He told me that he would have this catch basin in the plant connected to the nearby sanitary sewer. He promised me that this will be done by Tues. 4/26/77. That afternoon the blockage of debris was removed from the catch basin and there was no overflow onto the street.

I will continue to see if this discharge is running only clean water.

Don De Marco  
River Inspector
# Laboratory Report

**Passaic Valley Sewerage Commissioners**  
**Department of Sanitation Control**

## Standard Methods of Analysis

Results expressed in milligrams per liter \((mg/l)\)

<table>
<thead>
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<th>Parameter</th>
<th>Result</th>
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<td>11/21/77</td>
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<tr>
<td>Time</td>
<td>1:45 p.m.</td>
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<tr>
<td>Sample No.</td>
<td>D-268</td>
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<tr>
<td>Sample of Industrial Center</td>
<td>Belleville</td>
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<tr>
<td>Storm Sewer Catch Basin into Storm</td>
<td>Taken by D. DeMarco &amp; L. Cucinello</td>
</tr>
<tr>
<td>Sewer on Main St. Empties into Passaic River</td>
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### Results

<table>
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<th>Result</th>
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</thead>
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<td>Total Volatile</td>
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<td>Total Mineral</td>
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<tr>
<td>Chlorine Residual</td>
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</tr>
</tbody>
</table>

### Remarks:

Cloudy Gray Turbid Liquid  
Gray Suspended Matter  
Gray Sediment  
No Odor  

**Remarks:**

**Alexandar S. Goldberg**  
**Director of Sanitation Control**
STREAM CONTAMINATION REPORT

District No. __________________ Date: 4/28/77 Time: 1:30 P.M.
Weather: Clear

Company Name: JOHNSONVILLE INDUSTRIAL CENTER
Address: 601 Main St., Johnsonville, N.J.
Name & Title of Person Contacted: Mrs. Bernie Slater, Plant Engineer
Telephone: 761-6310

Nature of Business: Industrial waste

Method of Waste Disposal: Sanitary Sewer __________ Combined Sewer __________
Storm Sewer, River or Ditch __________

If NPDES Permit is Required: Draft Permit: __________ Final Permit: __________

Violation: Waste washed into storm sewer to Pascack River

1. Color
2. Odor
3. Turbidity
4. Estimated Flow (G.P.M.)
5. Collection on Banks
6. Surface Scum, Foam or Oil
7. Approximate Distance Extending into Stream or River; Width Upstream of
Downstream
8. pH Reaction with Test Paper Sample Taken
9. Why Sample Not Taken

(Complete narrative on reverse side)
Spoke to Mr. Slater, Plant Engineer, and he informed me that he expects to have a plumber in this week, Friday 4/29/77 to route out the storm sewer line to make sure that it doesn't block up. Also he told me that he would have the catch basin at the Holion Industries Inc., Bldg. 11, which occasionally, once or twice a week, discharges their waste water from their tumbling machine into the catch basin that empties out into the storm sewer disconnected, and place the pipe to the sanitary sewer which is a short distance away. This he expects to have completed by the end of next week. I also told him to check if the complex has a permit for constant discharge from this complex into the storm sewer which empties out into the Passaic River at Main St.

Will sample the storm sewer next week, have to make arrangements to lift up the heavy catch basin in the driveway of this complex.

[Signature]
Don De Marco
River Inspector
STREAM CONTAMINATION REPORT

5/3/77 10:30 A.M.

District No. __________ Date: __________ Time: __________

Weather: __________

BELLEVILLE INDUSTRIAL CENTER (HELIION IND)

Company Name: ____________

691 Main St., Belleville, N.J.

Address: __________

Mr. Bernie Slater, Plant Engineer

Name & Title of Person Contacted: ____________ Telephone: ____________

Industrial complex

Nature of Business: ____________

No. of Outlets: __________

Method of Waste Disposal: Sanitary Sewer Combined Sewer

Storm Sewer, River or Ditch

If NPDES Permit is Required: Draft Permit Final Permit: __________

Violation: __________

1. Color ____________

2. Odor ____________

3. Turbidity ____________

4. Estimated Flow (G.P.M.) ____________

5. Collection on Banks ____________

6. Surface Scum, Foam or Oil ____________

7. Approximate Distance Extending into Stream or River; Width Upstream of Downstream ____________

8. pH Reaction with Test Paper Sample Taken ____________

9. Why Sample Not Taken ____________

(Complete narrative on reverse side)
On Tuesday 5/6/77, at approx. 10:30 A.M., myself and Ass't., Supt. Cuccinello met with Mr. Bernie Slater, Plant Engineer of the above named complex, and we proceeded to dye test the floor drain in Bldg. 11 of the Helion Industries Inc. This drain into which this company empties out its wash water, from a holding tank, goes into a catch basin and empties out into a 6 inch storm sewer line that comes out to the main storm sewer line in the driveway and this empties out into the Passaic River.

Mr. Slater said that he would have to get a plumbing contractor in this coming week, and have this drain rerouted to the sanitary sewer.

[Signature]
Don De Marco
River Inspector
May 11, 1977

Mr. D'Ascensio
Passaic Valley Sewerage Commissioners
600 Wilson Avenue
Newark, New Jersey 07105

Dear Mr. D'Ascensio:

At the request of Inspector DeMarco of your office, I am writing to inform you of the sewerage situation in our plant located in the Belleville Industrial Center complex at 681 Main Street, Belleville, New Jersey.

We leased and occupied the above property with the understanding and assurance from the landlord that the sewer in the building we occupied was a sanitary sewer as this was an important requirement in our search for a building. We had no reason to suspect that the sewer was not a sanitary sewer as one would not indeed expect to find a storm sewer running through the center of a building.

A recent sewerage problem prompted a visit to the complex by Inspector DeMarco and during the course of his investigation, he informed our plant manager, Vincent Esposito, that the sewer running through our building was a storm sewer. Helion manufactures photographic chemicals in this building, and everything we manufacture is packaged and shipped. There are no residues or by-products from our manufacturing and indeed it is a very clean operation as could very readily be verified by Inspector DeMarco. The only waste emanating from our building are the rinse waters from the rinsing down of our mix tanks with deionized water. The rinse water used is usually less than 50 gallons and contains very minute quantities of materials as little or no product is left in the tanks after the packaging operation. I would estimate that the major impurities contained in the rinse water are in quantities of parts per million.

In any case we have discussed the sewerage matter with the agent for the landlord, Bernard Slater. Mr. Slater agreed that we were misrepresented to by the landlord. We have devised a plan where we will collect all rinse waters and divert them to the sanitary
sewerage system. Mr. Slater agrees that the cost of this work should be borne by the landlord and has advised me on May 6th that he would take the matter up with the management of the Belleville Industrial Center. If the Belleville management agrees I estimate the work could be completed within two to three weeks.

In the meantime I have given instructions to our plant manager to use the absolute minimum amount of water necessary in all our rinse downs. I feel confident that within several weeks any discharge into the storm sewer will be completely eliminated.

I am leaving on a trip from May 12th through the 19th and will be available thereafter to answer any additional questions that may come up.

Sincerely yours,

HELION INDUSTRIES INC.

Richard Huber
President

RH/dd
May 19, 1977

Mr. Abe Ellis
Belleville Industrial Center
681 Main Street
Belleville, New Jersey 07109

Dear Mr. Ellis:

This will confirm Passaic Valley Sewerage Commissioners' inspector's report to you, that the discharge from the Belleville Industrial Center, taken on April 20, 1977, which entered into the storm sewer catch basin and, then, into the Passaic River was polluting. The investigation revealed that the polluting material emanated from Helion Industries, Inc., within your complex. This is to inform you that this material must be diverted from the storm sewer to halt the pollution. I am also enclosing herewith, a copy of a letter sent to Helion Industries, together with a copy of a letter of theirs, dated May 11, 1977, which is self-explanatory. The PVSC does not want to get involved with an internal problem concerning the cost of relocating such sewer. However, it is absolutely essential that the pollution be halted at once, and, as the owner of the property, you are hereby directed to make any modifications required to halt this pollution.

Very truly yours,

S. A. Lubetkin,
Chief Engineer

CERTIFIED MAIL

cc: C. C. Carella, Esq.
    Helion Industries, Inc.
    Mr. F. D'Ascensio
District No. 6

Weather: Clear

Company Name: BELLEVILLE INDUSTRIAL CENTER (HELION IND.)

Address: 681 Main St., Belleville, N.J.

Name & Title of Person Contacted: Mr. Bernie Slater, Plant Engineer

Telephone: 751-0360

Nature of Business: Industrial Complex

No. of Outlets:

Method of Waste Disposal: Sanitary Sewer X Combined Sewer

Storm Sewer, River or Ditch

If NPDES Permit is Required: Draft Permit: Final Permit:

Violation: Waste water into storm sewer to Passaic River

1. Color

2. Odor

3. Turbidity

4. Estimated Flow (G.P.M.)

5. Collection on Banks

6. Surface Scum, Foam or Oil

7. Approximate Distance Extending into Stream or River Width Upstream of Downstream

8. pH Reaction with Test Paper Sample Taken

9. Why Sample Not Taken

(Complete narrative on reverse side)
On 5/20/77 spoke to Mr. Bernie Slater, Plant Engineer of this Complex, and he informed me that he ordered a sump pump and pipe to be installed at the Helion Indus, Inc. Building #11. He expected to start work to eliminate the pollution this coming week.

Dom De Marco
River Inspector
District No. 6
Date: 6/10/77
Time: 2:00 P.M.

Weather: Rain

Company Name: BELLEVILLE INDUSTRIAL CENTER (HELTON INDUSTRIES)
Address: 691 Main St., Belleville, N.J.

Name & Title of Person Contacted: Bernie Slater, Plant Engineer
Telephone: 759-7100

Nature of Business: Industrial Complex

No. of Outlets: 

Method of Waste Disposal: Sanitary Sewer Combined Sewer
Storm Sewer, River or Ditch

If NPDES Permit is Required: Draft Permit: Final Permit:

Violation: Waste water into storm sewer to Passaic River

1. Color
2. Odor
3. Turbidity
4. Estimated Flow (G.P.M.)
5. Collection on Banks
6. Surface Scum, Foam or Oil
7. Approximate Distance Extending into Stream or River; Width Upstream of Downstream
8. pH Reaction with Test Paper Sample Taken
9. Why Sample Not Taken

(Complete narrative on reverse side)
On Friday 6/10/77 at 2:00 P.M. I visited the Complex and with Bernie Slater, Plant Engineer, we inspected the storm sewer which was blocked off and cemented, and a 3/4 horse pump into this pit which will pump this wash water from Helion Co., approx. 20 feet to the sanitary sewer line from a 1½ line. There is no sign of any discharge into the storm sewer other than roof drains.

This pollution can be eliminated. (sketch attached)

De Marco
River Inspector
NAME OF PRP:
International Combustion Tar and Chemical Company

FACILITY ADDRESS: LOCATION:
300 Doremus Avenue River Mile: -0.05
Newark, New Jersey Reference Map Number: 36

PROCESSES UTILIZED:
Manufacturing of "gasworks" tar.

DISCHARGE:
• 12/01/30 - 06/28/32 - International Combustion Tar and Chemical was discharging waste water from tar settling pits into a private storm drain to the Passaic River. The waste water discharge into the Passaic River contained globules of a dark brown tar-like oil which had an odor of creosote. [12/10/30, 06/29/32 and 07/05/32 Letter to PVSC.]

PROBABLE HAZARDOUS SUBSTANCES:
• Tar • Creosote
• PAHs

RIVER SAMPLES: Samples 62 and 100, located 1,250 feet upstream of this property, contained significant concentrations of TEPH as well as concentrations of total PAHs in exceedence of NOAA criteria.
Mr. J. Ralph Van Duyne,
Chief Engineer,
Passaic Valley Sewage Commission,
Newark, N.J.

December 10, 1930.

Dear Mr. Van Duyne:

Re: Polluting discharge into Passaic River
by way of private sewer and coming
from the premises of the International
Combustion Tar and Chemical Company,
300 Doremus Avenue, Newark, N.J.

The working up of gasworks tar is carried out here. In
the process, a certain amount of water comes in contact with tar.
The water is ascended, first passing to two concrete pits. This
is for the purpose of separating residual tar from the water, much
of the tar, being heavy, settling out.

Oily portions of the tar float on the surface of the water and the water from mixing with the tar dissolves out certain
compounds giving to the water a golden yellow color, some brown
sediment and a strong odor resembling that of illuminating oil.

This liquid, even if well freed from the tar has strong
Oxygen consuming powers and is discharged down a storm sewer to
the Passaic River. (See sample #1.)

City officials claim that the storm drain is a private
line and it appears to start on the above property, carrying the
waste across Doremus Avenue to the Passaic River.

If tar escapes with this liquid, tar is discharged to
the river by way of the sewer outlet which appears to have been
purposely casued by a pile of old bricks. The vicinity of the
outlet shows considerable tar adhering thereto.

That tar escapes to the river is verified by samples
#2 and #7.

Sample #3 was taken at the manhole of the private sewer
on the further end of a syphon which enables this drain to pass
under the city sanitary sewer in Doremus Avenue. Large quantities
of tar appear to be trapped in this syphon and at low tide in the
river the waste forcibly passes up the syphon carrying much tar
with it end thence to the river.

When tide is high the waste appears to back up in the
manhole, tar being smeared all over the sides, the rim of the
manhole ladder and on the inside of the manhole casing.

Sample #8 was taken in the manhole when tide was low, the
water and tar bubbling out of the syphon and then flowing to the
river.

Sample #5 was taken at the storm sewer outlet as it
discharged to the river and shows that the tar reaches the river.
Even if the escape of tar were to cease, the sewer and syphon are
so fouled with the sticky tar that the discharge would be clearly
visible.

Yours truly,

[Signature]

[Address]
or a long time until all tar had been washed away.

The samples are as follows:

Sample #1. December 1, 1920. 10:40 A.M. At sewer outlet entering river.

A clear golden yellow liquid, with marked brown flocculent sediment. Strong odor resembling illuminating gas. The Oxygen Consumed value amounts to 370 parts per million. The color, odor, sediment and high Oxygen demand make this a polluting liquid.

Sample #2. December 1, 1920. 2:15 P.M. Manhole on Doremus Avenue.

Turbid golden yellow liquid with heavy brown flocculent sediment. Strong odor of gasworks tar. Considerable tar present, amounting in volume to 20% of total sample when settled. The Oxygen Consumed value amounts to 600 parts per million. The color, odor, sediment, high Oxygen demand and the tar present, make this a noxious and polluting liquid.

Sample #3. December 1, 1920. 2:40 P.M. At sewer outlet entering river.

Turbid golden yellow liquid with brown flocculent sediment. 20% of tar and resembling illuminating gas. Particles of tar visible throughout the liquid. The Oxygen Consumed value amounts to 400 parts per million. The color, odor, sediment, high Oxygen demand and the presence of tar render this a noxious and polluting liquid.

RCS/RCS
No copies.

Respectfully submitted,

[Signature]

848660024
June 29, 1932.

Mr. J. Polah Van Duyne,
Chief Engineer,
Passaic Valley Sewerage Commission,
Newark, N.J.

Dear Mr. Van Duyne:

Re: Escape of Tarry Matters from
premises of International Combustion
Tear and Chemical Company, 500 Doremus
Avenue, Newark, N.J.

Tar is again evident in the Passaic River emerging from
the storm sewer which comes from the above plant. The globules
of tarry oil escape from the tar separator and accumulate
in the siphon which carries the storm sewer under the
sanitary sewer in Doremus Avenue. The accumulated tar
escapes from the siphon at intervals, usually on ebb tides,
and results in a foul smell of the river.

As reported to you by telephone yesterday, samples
were obtained of the discharge to the river and from various
points along the sewer. The attention of the Federal Inspector
was attracted to this sewer then he encountered the oil
scum while sailing up the river.

The condition is similar to those described in
reports of December 10, 1931 and June 30, 1931.

In accordance with your instructions received over
the telephone yesterday, the two inspectors and the samples
were sent to the office of the Counsel at 9:00 a.m. today.

Respectfully submitted,

RCS/RCS

[Signature]

Richard C. Smith
Mr. J. Ralph Van Duyne,
Chief Engineer,
Passaic Valley Sewerage Commission,
Newark, N.J.

July 5, 1932.

Dear Mr. Van Duyne:— Re:— Pollution by tarry oils escaping in liquid from tar separator at plant of International Combustion Tar and Chemical Company, Doremus Avenue, Newark, N.J.

Samples of a watery liquid taken on June 28, 1932, at end of sewer discharging to Passaic River indicate pollution by reason of presence of globules of a dark brown tarry oil having an odor resembling creosote. The globules upon standing in a bottle quickly rise and form a visible layer at the surface.

Samples were taken at 11.30 a.m. and 11.45 a.m. on June 28, 1932, at the end of the sewer which discharges to the river, and both samples show marked amounts of the brown tarry oil. In addition, the watery portion is pale yellow in color and besides the oil, the samples contain suspended solid material largely organic in nature and which settles to form a heavy sediment. The organic matter is not putrescible in nature but the mixed samples use up considerable Oxygen in the Oxygen Consumed Test from Permanganate.

The discharge of this liquid imparts a strong tarry odor to the waters of the Passaic River and results in a very obvious and widespread coating of oil upon the surface of said river, the extent of the appearance varying according to the state of the tide.

Another sample taken at 12.30 p.m. on June 28, 1932, at end of siphon which carries this drain under the sanitary sewer in Doremus Avenue, Newark, contains large amounts of the tarry oil and organic sediment. This is an extremely polluting liquid and from the condition of the interior of the manhole it is judged that considerable accumulation of the tarry oil has occurred in the siphon, resulting from the escape of tarry oil from the tar separator in the yard of the International Combustion Tar and Chemical Company. Part of this accumulation is more or less constantly escaping to the Passaic River by way of the storm drain.

A further samples taken at outlet of separator pit in yard of aforesaid premises on June 28, 1932, at 10.45 p.m. shows that the liquid is escaping from the tar separator in the yard. The sample is similar in quality to the two described above and all the samples indicate that a polluting liquid containing suspendable oil and organic sediment escapes from the separator, the oil accumulates in the siphon and thence escaping to the Passaic River.

Respectfully submitted,

[Signature]

RCS/ROS