October 15, 2026

**Javier Perez-Maldonado**
Project Manager, Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233

**RE: Groundwater Discharge Authorization Work Plan**
**2250 East 69th Street**
**Brooklyn, Kings County, New York**
**Block 8437, Lot 54**
**NYSDEC No. C224404**

Mr. Javier Perez-Maldonado,

Per the Generic Effluent Criteria for Groundwater Discharges Memorandum dated August 28, 2103, Lockwood, Kessler and Bartlett, Inc. (LKB), a wholly owned subsidiary of The Vertex Companies, LLC, proposes the following for treatment, sampling, and disposal of stormwater and groundwater collected in the stormwater retention excavation at the above referenced property (the site).

LKB understands that this is a general authorization for short term, batch groundwater discharges of water generated at remediation sites. As stated in the memorandum, "the parameter list is extensive, and the Division of Water's intent is for monitoring to be conducted for only those parameters which are known or suspected to be present at the site."

MW-2, which was located in the excavation area, exceeded groundwater standards for metals (aluminum, iron, lead, manganese, and sodium), did not exceed standards for pesticides or PCBs, did exceed for PFOS and PFOA (although all site wells exceeded these parameters), exceeded VOCs for a few parameters (1,2,4,5-tetramethylbenzene, 2-butanone, acetone, and n-propylbenzene), and exceeded SVOCs for a number of parameters (benzo(a)anthracene, benzo(a) pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd) pyrene. LKB will monitor pH as part of the monitoring program. The proposed treatment system is not expected to materially affect the pH of the water being discharged. Total solids are not identified as a monitoring parameter in the memorandum. Total solids

will be removed via settling and bag filters. Any remaining solids will be filtered by the site soils upon infiltration.

LKB proposes to sample and analyze for the following contaminants of concern based on the former use of the site as a petroleum bulk storage facility for discharge:

- Oil & Grease via United States Environmental Protection Agency (USEPA) Method 1664
- Volatile Organic Compounds (VOCs) via USEPA Method 8260
- Semi-Volatile Organic Compounds (SVOCs) via USEPA Method 8270
- Metals (aluminum, iron, lead, and manganese only). Sodium is not identified as a monitoring parameter in the memorandum.
- PFOA & PFOS
- pH

Methods Plan and Equipment List

The proposed water treatment and handling system will be comprised of the following components or unit processes:

- Various pump(s) (electric or gas powered) will be utilized to transfer water from excavation to the frac tank and to pump from the first frac tank through the bag and carbon filters to the second frac tank;
- Duplex Bag Filter skid will remove particulate matter with 5 to 20 micron bag filters;
- Carbon Filter Vessels (2) with 2,000 pounds activated carbon will be utilized to remove organic contaminants; and,
- Two Frac Tanks (18,000 to 21,000 gal) to hold pumped and treated water will be provided. The first frac tank will be segregated with baffles to allow solids to separate. The second frac tank will be utilized to hold treated water.
- An infiltration pit(s) with inlet that will include a riprap apron, or splash pad to dissipate energy.

Water within the excavation will be pumped to the first frack tank. This frac tank will be baffled to allow for separation of LNAPL and sediment. Water from this frac tank will be pumped through the bag filters and carbon vessels and into the second “treated” frac tank. LKB will collect a representative sample at a rate of one sample per 7,000 gallons of treated water. The samples will be collected after particulate filtration and carbon treatment and prior to mixing with other treated water in the final tank. LKB proposes collecting the first sample and having it analyzed on a quick turnaround time to obtain

laboratory results. These results will be shared with the NYSDEC. LKB will continue to collect samples as water is treated at the rate proposed above. LKB requests that upon the receipt of acceptable sample results (representing the initial 7,000 gallons) that discharge commence while continuing to sample, treat, and discharge the treated water and not awaiting additional results. Additional results for additional samples will be provided as received.

A signed and sealed figure presenting the proposed measures and layout is attached.

LKB requests to discharge the treated water without the requirement to have laboratory analytical data based on the use of best demonstrated available technology (BDAT) for treatment of organic impacted water.

LNAPL Management

To prevent petroleum LNAPL being run through the treatment system LKB proposes the following:

In addition to utilizing a vacuum truck the week prior to remove LNAPL from the excavation area, a floating harbor boom has been deployed to contain any additional LNAPL to the southwestern corner of the excavated area. The boom makes two passes across the area containing any floating LNAPL. In addition, LKB has deployed spill booms to absorb the LNAPL in the contained area. An additional absorbent boom has been placed surrounding the extraction sump pit.

As a tertiary measure, if LNAPL were to be pumped from the sump pit, two frac tanks will now be utilized at the site for capacity and treatment. The first frac tank will be compartmentalized with baffles to allow solids to settle and to retain any LNAPL. The clarified water from this first frac tank will be pumped through bag filters to remove particulates and activated carbon to remove organic contaminants a second treated water frac tank. The first tank will be inspected for LNAPL prior to pumping to the second frac tank. If LNAPL is detected in the first frac tank, absorbent booms or pads will be deployed to remediate the LNAPL.

The following considerations are understood:

- The discharge rate may be limited by the infiltration rate. Overland flow will be controlled to limit erosion.
- Only water generated at the site during sampling, pump tests, well development, or dewatering of excavations, are authorized for treatment and

discharge.

- Samples and measurements, to comply with the monitoring requirements specified above, must be collected prior to discharge to groundwater.
- Discharge may not occur unless the ground is capable of accepting the treated effluent.
- The discharge water may not be ponded on top of saturated or frozen ground or permitted to flow across the ground surface.
- A minimum separation distance of 100 feet must be maintained between the discharge location and any surface waters.
- Discharge is not authorized until such time as an engineering submission showing the method of treatment and discharge is approved by the Department.

Sincerely,

Please contact us if you have any questions or comments regarding this request.

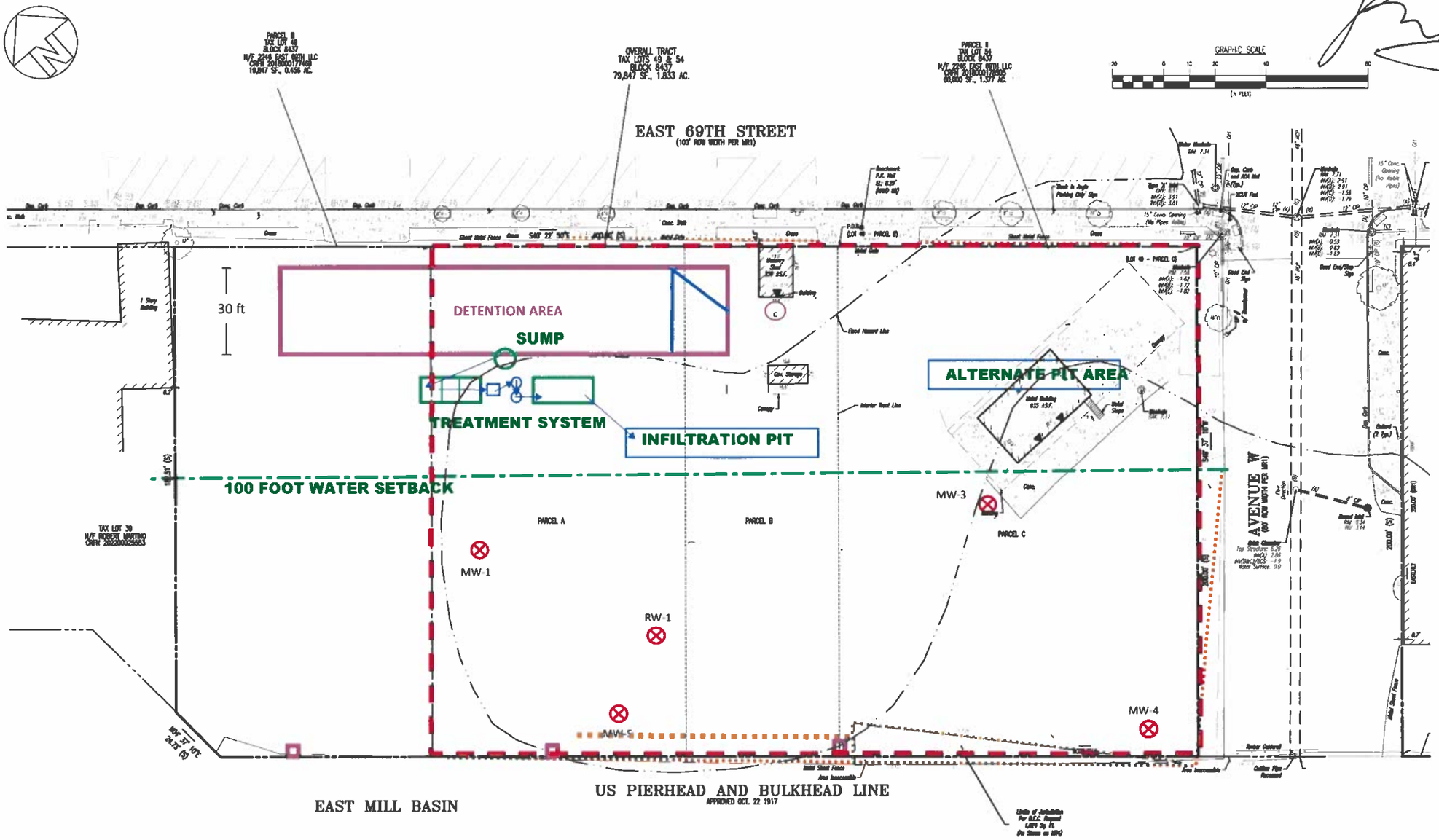
Sincerely,

**The Vertex Companies, LLC**



Richard J. Tobia, P.E.
Technical Expert - Remediation

Attachment: Figure 1




STATE OF NEW YORK
RICHARD J TOSIA
LICENSED PROFESSIONAL ENGINEER
095039-1

Richard J. Tosia
NY PE # 095039-1
10/12/26

NOTES:

Treatment system consists of a gravel lined sump, pumps, baffled frac tank, duplex particulate bag filters, duplex activated carbon filters, and a final treated effluent frac tank.

Treated water will be discharged to an infiltration pit.

Monitoring Well/Recovery Well

Site Boundary

Property Boundary

Harbor Boom

**Proposed Dewatering Measures**

2250 EAST 69th STREET
BROOKLYN, NY

LKB PROJECT NO. 010321

LKB CONSULTING ENGINEERS
A VERTEX COMPANY

ENGINEERING EXCELLENCE SINCE 1889

**FIGURE 1**

**New York State Department of Environmental Conservation**
**Division of Water**
**Bureau of Water Permits, 4th Floor**
625 Broadway, Albany, New York 12233-3505
**Phone:** (518) 402-8111 • FAX**:** (518) 402-9029
**Website:** www.dec.ny.gov

**MEMORANDUM**

TO: Robert Schick, Director, Division of Environmental Remediation

FROM: Mark Klotz, Director, Division of Water /s/

RE: Generic Effluent Criteria for Groundwater Discharges

Date: August 28, 2103

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This memo is to transmit a general authorization for short term, batch groundwater discharges of water generated at remediation sites under the Division of Environmental Remediation's programs. These waters may be generated during sampling, pump tests, well development, and dewatering of excavations. The attached generic groundwater effluent criteria and general conditions were developed by DOW staff to reduce delays in implementing these short term groundwater discharges and to save staff time for both Divisions. Please have your staff pay particular attention to the footnotes listed at the end of the document.

The attached criteria are subject to the following conditions:

1. The attached criteria do not contain discharge limitations for radioactive discharges. Limitations on discharges of radiation or radioactive isotopes are addressed under Part 380 Radiation Control Permits.

2. Alternate frequencies, discharges limitations (where appropriate) or inclusion of parameters not identified in the attachments will be considered; however, a complete review by DOW staff will be required.

3. The attached parameter list is extensive and DOW's intent is for monitoring to be conducted only for those parameters which are known or suspected to be present at the site. Monitoring of parameters not present is not required by these criteria.

Additionally, for excavation dewatering:

1. Prior to beginning work, DER will review and approve the methods plan and equipment list of the proposed water treatment and handling system(s). The approved method plan will include provisions that fully comply with the conditions in this memo. This approval will be limited in duration to the term specified in the construction contract.

2. Approval for each batch discharges from temporary storage tanks (21,000 gallon tanks, approximately) will be granted based upon review and approval of sampling results by the Department and Engineer demonstrating that the treatment achieved compliance with the specified discharge criteria developed for site specific contaminants of concern. Representative samples shall be collected after approved water treatment has been completed and before it enters the temporary storage tank at a frequency of 1 sample per 7000 gallons treated. If any sample fails to meet the discharge criteria, it shall be assumed that the entire storage volume does not meet the discharge criteria. In such cases, the water will require re-treatment and re-sampling as specified above, demonstrating compliance before discharge will be allowed. Discharge rate limitations and infiltration design may be required to protect against erosion and prevent overland flow.

Division of Environmental Remediation (DER) will be responsible for ensuring compliance with the attached effluent criteria and approval of all engineering submissions. **Footnote 9** requires identification of the DER contact person who will receive all effluent results, engineering submissions and modification requests. The Regional Water Engineer should be kept appraised of the status of this discharge and sent copy of the effluent results for informational purposes.

Long term groundwater and both short and long term surface water discharges are not addressed in the attached criteria. A complete review of these proposed discharge scenarios will require full DOW review. All such requests should be directed to the Director of the Bureau of Water Permits in DOW.

If you have any questions, please call Brian Baker at 402-8124 or Shayne Mitchell at 402-8125.

Attachments

c: Regional Water Engineers
Koon Tang, DOW

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning: with the start of each discharge event

and lasting until: 7 days from the start of the discharge.

The discharges from the treatment facility to **Groundwater** shall be limited and monitored by the operator as specified below:

| **Outfall and Parameters**<br>**Outfall 001 – Containerized Well Development Water and/or Pump Test Water** | **CAS No.** | **Limitations Daily Max.** | **Units** | **Minimum Monitoring Requirements** | | **FN** |
|---|---|---|---|---|---|---|
| | | | | **Measurement Frequency** | **Sample Type** | |
| | | | | | | |
| Flow | NA | Monitor | GPD | Continuous | Recorder | |
| pH (range) | NA | 6.5 – 8.5 | SU | | Grab | |
| Oil and Grease | NA | 15 | mg/l | 1 | Grab | |
| Solids, Total Dissolved<br>*applies only in the counties of Nassau and Suffolk | NA | 1000* | mg/l | 1 | Grab | |
| Nitrogen, Total (as N)<br>*applies only in the counties of Nassau and Suffolk | NA | 10* | mg/l | 1 | Grab | |
| Foaming agents (as MBAS) | NA | 1 | mg/l | 1 | Grab | |
| Acenaphthene | 83-32-9 | 20 | µg/l | 1 | Grab | |
| Acetaldehyde | 75-07-0 | 8 | µg/l | 1 | Grab | |
| Acetone | 67-64-1 | 50 | µg/l | 1 | Grab | 2 |
| Acrolein | 107-02-8 | 5 | µg/l | 1 | Grab | |
| Acrylamide | 79-06-1 | 5 | µg/l | 1 | Grab | |
| Acrylic acid | 79-10-7 | 50 | µg/l | 1 | Grab | |
| Acrylonitrile | 107-13-1 | 5 | µg/l | 1 | Grab | |
| Alachlor | 15972-60-8 | 0.5 | µg/l | 1 | Grab | |
| Aldicarb<br>*Refer to entry for “Aldicarb and Methomyl.” | 116-06-3 | 0.35* | µg/l | 1 | Grab | 2 |
| Aldicarb sulfone | 1646-88-4 | 2 | µg/l | 1 | Grab | |
| Aldicarb sulfoxide | 1646-87-3 | 4 | µg/l | 1 | Grab | |
| Aldrin | 309-00-2 | ND | µg/l | 1 | Grab | 3 |
| Alkyl dimethyl benzyl ammonium chloride | 68391-01-5 | 50 | µg/l | 1 | Grab | |
| Alkyl diphenyl oxide sulfonates | NA | 50 | µg/l | 1 | Grab | |
| Allyl chloride | 107-05-1 | 5 | µg/l | 1 | Grab | |
| Aluminum | NA | 2,000 | µg/l | 1 | Grab | |
| Ametryn | 834-12-8 | 50 | µg/l | 1 | Grab | |
| 4-Aminobiphenyl | 92-67-1 | 5 | µg/l | 1 | Grab | |
| Aminocresols<br>*see Phenolic compounds – total phenols | 95-84-1 | * | µg/l | 1 | Grab | |
| Aminomethylene phosphonic acids salts<br>*applies to each aminothylene phosphonic acid sals individually | NA | 50* | µg/l | 1 | Grab | |
| Aminopyridines<br>*Applies to the sum of these substances | 462-08-8 | 1* | µg/l | 1 | Grab | |
| 3-Aminotoluene | 108-44-1 | 5 | µg/l | 1 | Grab | |

| Outfall and Parameters<br>**Outfall 001 – Containerized Well Development Water and/or Pump Test Water** | CAS No. | Limitations Daily Max. | Units | Minimum Monitoring Requirements | | FN |
|---|---|---|---|---|---|---|
| | | | | Measurement Frequency | Sample Type | |
| | | | | | | |
| 4-Aminotoluene | 106-49-0 | 5 | µg/l | 1 | Grab | |
| Aniline | 62-53-3 | 5 | µg/l | 1 | Grab | 2 |
| Anthracene | 120-12-7 | 50 | µg/l | 1 | Grab | |
| Antimony | NA | 6 | µg/l | 1 | Grab | |
| Arsenic | NA | 50 | µg/l | 1 | Grab | |
| Aryltiazoles<br>*applies to each aryltiazole individually | NA | 50* | µg/l | 1 | Grab | |
| Asbestos | NA | 14,000,000 | fibers/L | 1 | Grab | |
| Atrazine | 1912-24-9 | 7.5 | µg/l | 1 | Grab | |
| Azinphosmethyl | 86-50-0 | 4.4 | µg/l | 1 | Grab | |
| Azobenzene | 103-33-3 | 5 | µg/l | 1 | Grab | |
| Barium | NA | 2,000 | µg/l | 1 | Grab | |
| Benefin | 1861-40-1 | 35 | µg/l | 1 | Grab | |
| Benz(a)anthracene | 56-55-3 | 0.002 | µg/l | 1 | Grab | 2 |
| Benzene | 71-43-2 | 1 | µg/l | 1 | Grab | |
| Benzidine | 92-87-5 | 5 | µg/l | 1 | Grab | |
| Benzisothiazole | 271-61-4 | 50 | µg/l | 1 | Grab | |
| Benzo(b)flouranthene | 205-99-2 | 0.002 | µg/l | 1 | Grab | 2 |
| Benzo(k)fluoranthene | 207-08-9 | 0.002 | µg/l | 1 | Grab | 2 |
| Benzo(a)pyrene | 50-32-8 | ND | µg/l | 1 | Grab | 3 |
| Beryllium | NA | 3 | µg/l | 1 | Grab | |
| 1-1'-Biphenyl | 92-52-4 | 5 | µg/l | 1 | Grab | |
| Bis(2-chloroethoxy)methane | 111-91-1 | 5 | µg/l | 1 | Grab | |
| Bis(2-chloroethyl)ether | 111-44-4 | 1.0 | µg/l | 1 | Grab | |
| Bis(chloromethyl)ether | 542-88-1 | 5 | µg/l | 1 | Grab | |
| Bis(2-chloro-1-methylethyl)ether | 108-60-1 | 5 | µg/l | 1 | Grab | |
| Bis(2-ethylhexl)phthalate | 117-81-7 | 5 | µg/l | 1 | Grab | |
| Boric acid, Borates & Metaborates<br>*applies as boron equivalents to the sum of these substances. | NA | 125* | µg/l | 1 | Grab | |
| Boron | NA | 2,000 | µg/l | 1 | Grab | |
| Bromacil | 314-40-9 | 4.4 | µg/l | 1 | Grab | 2 |
| Bromide | NA | 2,000 | µg/l | 1 | Grab | |
| Bromobenzene | 108-86-1 | 5 | µg/l | 1 | Grab | |
| Bromochloromethane | 74-97-5 | 5 | µg/l | 1 | Grab | |
| Bromodichloromethane | 75-27-4 | 50 | µg/l | 1 | Grab | |
| Bromoform | 75-25-2 | 50 | µg/l | 1 | Grab | |
| Bromomethane | 74-83-9 | 5 | µg/l | 1 | Grab | |
| Butachlor | 23184-66-9 | 3.5 | µg/l | 1 | Grab | |
| n-Butanol | 71-36-3 | 50 | µg/l | 1 | Grab | |
| cis-2-Butenal | 15798-64-8 | 5 | µg/l | 1 | Grab | |
| trans-2-Butenal | 123-73-9 | 5 | µg/l | 1 | Grab | |
| cis-2-Butenenitrile | 1190-76-7 | 5 | µg/l | 1 | Grab | |
| trans-2-Butenenitrile | 627-26-9 | 5 | µg/l | 1 | Grab | |

| Outfall and Parameters<br>**Outfall 001 – Containerized Well Development Water and/or Pump Test Water** | CAS No. | Limitations Daily Max. | Units | Minimum Monitoring Requirements | | FN |
|---|---|---|---|---|---|---|
| | | | | Measurement Frequency | Sample Type | |
| | | | | | | |
| Butoxyethoxyethanol | 112-34-5 | 50 | µg/l | 1 | Grab | |
| Butoxypropanol | 5131-66-8 | 50 | µg/l | 1 | Grab | |
| Butylate | 2008-41-5 | 50 | µg/l | 1 | Grab | |
| n-Butylbenzene | 104-51-8 | 5 | µg/l | 1 | Grab | |
| sec-Butylbenzene | 135-98-8 | 5 | µg/l | 1 | Grab | |
| Tert-Butylbenzene | 98-06-6 | 5 | µg/l | 1 | Grab | |
| Butyl benzyl phthalate | 85-68-7 | 50 | µg/l | 1 | Grab | |
| Butyl isopropyl phthalate | NA | 50 | µg/l | 1 | Grab | |
| Carbon disulfide | 75-15-0 | 60 | µg/l | 1 | Grab | |
| Cadmium | NA | 10 | µg/l | 1 | Grab | |
| Captan | 133-06-2 | 18 | µg/l | 1 | Grab | |
| Carbaryl | 63-25-2 | 29 | µg/l | 1 | Grab | |
| Carbofuran | 1563-66-2 | 15 | µg/l | 1 | Grab | |
| Carbon tetrachloride | 56-23-5 | 5 | µg/l | 1 | Grab | |
| Carboxin | 5234-68-4 | 50 | µg/l | 1 | Grab | |
| Chloramben<br>*includes realted forms that convert to the organic acid upon acidification to a pH of 2 or less; and esters of the organic acid. | NA | 50* | µg/l | 1 | Grab | |
| Chloranil | 118-75-2 | 5 | µg/l | 1 | Grab | |
| Chlordane | 57-74-9 | 0.05 | µg/l | 1 | Grab | |
| Chloride | NA | 500,000 | µg/l | 1 | Grab | |
| Chlorinated dibenzo-p-dioxins and Chlorinated dibenzofurans | NA | $7x10^{-7}$ | µg/l | 1 | Grab | |
| 2-Chloroaniline | 95-51-2 | 5 | µg/l | 1 | Grab | |
| 3- Chloroaniline | 108-42-9 | 5 | µg/l | 1 | Grab | |
| 4- Chloroaniline | 106-7-8 | 5 | µg/l | 1 | Grab | |
| Chlorobenzene | 108-90-7 | 5 | µg/l | 1 | Grab | |
| 4-Chlorobenzotrifluoride | 98-56-6 | 5 | µg/l | 1 | Grab | |
| 1-Chlorobutane | 109-69-3 | 5 | µg/l | 1 | Grab | |
| Chloroethane | 75-00-3 | 5 | µg/l | 1 | Grab | |
| Chloroform | 67-66-3 | 7 | µg/l | 1 | Grab | |
| Chloromethyl methyl ether | 107-30-2 | 5 | µg/l | 1 | Grab | |
| 2-Chloronaphthalene | 91-58-7 | 10 | µg/l | 1 | Grab | |
| 2-Chloronitrobenzene | 88-73-3 | 5 | µg/l | 1 | Grab | |
| 3-Chloronitrobenzene | 121-73-3 | 5 | µg/l | 1 | Grab | |
| 4-Chloronitrobenzene | 100-00-5 | 5 | µg/l | 1 | Grab | |
| Chloroprene | 126-99-8 | 5 | µg/l | 1 | Grab | |
| Chlorothalonil | 1897-45-6 | 5 | µg/l | 1 | Grab | |
| 2-Chlorotoluene | 95-49-8 | 5 | µg/l | 1 | Grab | |
| 3-Chlorotoluene | 108-41-8 | 5 | µg/l | 1 | Grab | |
| 4-Chlorotoluene | 106-43-4 | 5 | µg/l | 1 | Grab | |
| 4-Chloro-o-toluidine | 95-69-2 | 5 | µg/l | 1 | Grab | |
| 5-Chloro-o-toluidine | 95-79-4 | 5 | µg/l | 1 | Grab | |
| 3-Chloro-1,1,1-trifuoropropane | 460-35-5 | 5 | µg/l | 1 | Grab | |
| Chromium | NA | 100 | µg/l | 1 | Grab | |
| Chromium (hexavalent) | NA | 100 | µg/l | 1 | Grab | |

| Outfall and Parameters<br>**Outfall 001 – Containerized Well Development Water and/or Pump Test Water** | CAS No. | Limitations Daily Max. | Units | Minimum Monitoring Requirements | | FN |
|---|---|---|---|---|---|---|
| | | | | Measurement Frequency | Sample Type | |
| | | | | | | |
| Chrysene | 218-01-9 | 0.002 | µg/l | 1 | Grab | 2 |
| Copper | NA | 1000 | µg/l | 1 | Grab | |
| Cyanide | NA | 400 | µg/l | 1 | Grab | |
| Cyanogen bromide | 506-68-3 | 5 | µg/l | 1 | Grab | |
| Cyanogen chloride | 506-77-4 | 5 | µg/l | 1 | Grab | |
| Dalapon<br>*Includes related forms that convert to the organic acid upon acidification to a pH of 2 or less; and esters of the organic acid. | NA | 50* | µg/l | 1 | Grab | |
| p,p'-DDD | 72-54-8 | 0.3 | µg/l | 1 | Grab | |
| p,p'-DDE | 72-55-9 | 0.2 | µg/l | 1 | Grab | |
| p,p'-DDT | 50-29-3 | 0.2 | µg/l | 1 | Grab | |
| Dechlorane Plus | 13560-89-9 | 5 | µg/l | 1 | Grab | |
| Diazinon | 333-41-5 | 0.7 | µg/l | 1 | Grab | |
| 1,2-Dibromobenzene | 583-53-9 | 5 | µg/l | 1 | Grab | |
| 1,3-Dibromobenzene | 108-36-1 | 5 | µg/l | 1 | Grab | |
| 1,4-Dibromobenzene | 106-37-6 | 5 | µg/l | 1 | Grab | |
| Dibromochloromethane | 124-48-1 | 50 | µg/l | 1 | Grab | |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | 0.04 | µg/l | 1 | Grab | |
| Dibromodichloromethane | 594-18-3 | 5 | µg/l | 1 | Grab | |
| Dibromomethane | 74-95-3 | 5 | µg/l | 1 | Grab | |
| 2,2-Dibromo-3-nitrilopropionamide | 10222-01-2 | 50 | µg/l | 1 | Grab | |
| Di-n-butyl phthalate | 84-74-2 | 50 | µg/l | 1 | Grab | |
| Dicamba | 1918-00-9 | 0.44 | µg/l | 1 | Grab | |
| Dichlorobenzenes<br>*applies to each dichlorobenzene individually | 95-50-1; 541-73-1; 106-47-6 | 3* | µg/l | 1 | Grab | |
| 3,3'-Dichlorobenzidine | 91-94-1 | 5 | µg/l | 1 | Grab | |
| 3,4-Dichlorobenzotriflouride | 328-84-7 | 5 | µg/l | 1 | Grab | |
| cis-1,4-Dichloro-2-butene | 1476-11-5 | 5 | µg/l | 1 | Grab | |
| trans-1,4-Dichloro-2-butene | 110-57-6 | 5 | µg/l | 1 | Grab | |
| Dichlorodifluoromethane | 75-71-8 | 5 | µg/l | 1 | Grab | |
| 1,1-Dichloroethane | 75-34-3 | 5 | µg/l | 1 | Grab | |
| 1,2-Dichloroethane | 107-06-2 | 0.6 | µg/l | 1 | Grab | |
| 1,1-Dichloroethene | 75-35-4 | 5 | µg/l | 1 | Grab | |
| cis-1,2-Dichloroethene | 156-59-2 | 5 | µg/l | 1 | Grab | |
| Trans-1,2-Dichloroethene | 156-60-5 | 5 | µg/l | 1 | Grab | |
| Dichloroflouromethane | 75-43-4 | 5 | µg/l | 1 | Grab | |
| 2,4-Dichlorophenol<br>*see limit for Phenolic compounds (total phenols) | 120-83-2 | * | µg/l | 1 | Grab | |
| 2,4-Dichlorophenoxyacetic acid | 94-75-7 | 50 | µg/l | 1 | Grab | |
| 1,1-Dichloropropane | 78-99-9 | 5 | µg/l | 1 | Grab | |
| 1,2-Dichloropropane | 78-87-5 | 1 | µg/l | 1 | Grab | |
| 1,3-Dichloropropane | 142-28-9 | 5 | µg/l | 1 | Grab | |
| 2,2-Dichloropropane | 594-20-7 | 5 | µg/l | 1 | Grab | |

| Outfall and Parameters<br>**Outfall 001 – Containerized Well Development Water and/or Pump Test Water** | CAS No. | Limitations Daily Max. | Units | Minimum Monitoring Requirements | | FN |
|---|---|---|---|---|---|---|
| | | | | Measurement Frequency | Sample Type | |
| | | | | | | |
| 1,1-Dichloropropene | 563-58-6 | 5 | µg/l | 1 | Grab | |
| cis 1,3-Dichoropropene<br>*applies to sum of cis- and trans- 1,3-Dichoropropene | 10061-01-5 | 0.4* | µg/l | 1 | Grab | 2 |
| trans 1,3-Dichoropropene<br>*applies to sum of cis- and trans- 1,3-Dichoropropene | 10061-02-6 | 0.4* | µg/l | 1 | Grab | 2 |
| 2,3-Dichlorotoluene | 32768-54-0 | 5 | µg/l | 1 | Grab | |
| 2,4-Dichlorotoluene | 95-73-8 | 5 | µg/l | 1 | Grab | |
| 2,5-Dichlorotoluene | 19398-61-9 | 5 | µg/l | 1 | Grab | |
| 2,6-Dichlorotoluene | 118-69-4 | 5 | µg/l | 1 | Grab | |
| 3,4-Dichlorotoluene | 95-75-0 | 5 | µg/l | 1 | Grab | |
| 3,5-Dichlorotoluene | 25186-47-4 | 5 | µg/l | 1 | Grab | |
| Dieldrin | 60-57-1 | 0.004 | µg/l | 1 | Grab | 2 |
| Di(2-ethylhexyl)adipate | 103-23-1 | 20 | µg/l | 1 | Grab | |
| Diethyl phthalate | 84-66-2 | 50 | µg/l | 1 | Grab | |
| 1,2-Diflouro-1,1,2,2-tetrachloroethane | 76-12-0 | 5 | µg/l | 1 | Grab | |
| 1,2-Diisopropylbenzene | 577-55-9 | 5 | µg/l | 1 | Grab | |
| 1,3-Diisopropylbenzene | 99-62-7 | 5 | µg/l | 1 | Grab | |
| 1,4-Diisopropylbenzene | 100-18-5 | 5 | µg/l | 1 | Grab | |
| N,N-Dimethylaniline | 121-69-7 | 1 | µg/l | 1 | Grab | |
| 2,3-Dimethylaniline | 87-59-2 | 5 | µg/l | 1 | Grab | |
| 2,4-Dimethylaniline | 95-68-1 | 5 | µg/l | 1 | Grab | |
| 2,5-Dimethylaniline | 95-78-3 | 5 | µg/l | 1 | Grab | |
| 2,6-Dimethylaniline | 87-62-7 | 5 | µg/l | 1 | Grab | |
| 3,4-Dimethylaniline | 95-64-7 | 5 | µg/l | 1 | Grab | |
| 3,5-Dimethylaniline | 108-69-0 | 5 | µg/l | 1 | Grab | |
| 3,3'-Dimethylbenzidine | 119-93-7 | 5 | µg/l | 1 | Grab | |
| 4,4'-Dimethylbibemzyl | 538-39-6 | 5 | µg/l | 1 | Grab | |
| 4,4'-Dimethyldiphenylmethane | 4957-14-6 | 5 | µg/l | 1 | Grab | |
| Dimethylformamide | 68-12-2 | 50 | µg/l | 1 | Grab | |
| alpha, alpha-Dimethyl phenethylanime | 122-09-8 | 5 | µg/l | 1 | Grab | |
| 2,4-Dimethylphenol<br>*see limit for Phenolic compounds (total phenols) | 105-67-9 | * | µg/l | 1 | Grab | |
| Dimethyl phthalate | 131-11-3 | 50 | µg/l | 1 | Grab | |
| 2,4-Dinitrophenol<br>*see limit for Phenolic compounds (total phenols) | 51-28-5 | * | µg/l | 1 | Grab | |
| Dimethyl tetrachloroterephthalate | 1861-32-1 | 50 | µg/l | 1 | Grab | |
| 1,3-Dinitrobenzene | 99-65-0 | 5 | µg/l | 1 | Grab | |
| 2,3-Dinitrotoluene | 602-01-7 | 5 | µg/l | 1 | Grab | |
| 2,4-Dinitrololuene | 121-14-2 | 5 | µg/l | 1 | Grab | |
| 2,5-Dinitrololuene | 619-15-8 | 5 | µg/l | 1 | Grab | |
| 2,6-Dinitrololuene | 606-20-2 | 5 | µg/l | 1 | Grab | |
| 3,4-Dinitrololuene | 610-39-9 | 5 | µg/l | 1 | Grab | |
| 3,5-Dinitrololuene | 618-85-9 | 5 | µg/l | 1 | Grab | |
| Di-n-octyl phthalate | 117-84-0 | 50 | µg/l | 1 | Grab | |
| Dinoseb<br>*see limit for Phenolic compounds (total phenols) | 88-85-7 | * | µg/l | 1 | Grab | |
| Diphenamid | 957-51-7 | 50 | µg/l | 1 | Grab | |

| Outfall and Parameters<br>**Outfall 001 – Containerized Well Development Water and/or Pump Test Water** | CAS No. | Limitations Daily Max. | Units | Minimum Monitoring Requirements<br>Measurement Frequency | Sample Type | FN |
|---|---|---|---|---|---|---|
| | | | | | | |
| Diphenylamine | 122-39-4 | 5 | µg/l | 1 | Grab | |
| 1,1-Diphenylhydrazine | 530-50-7 | ND | µg/l | 1 | Grab | 3 |
| 1,2-Diphenylhydrazine | 122-66-7 | ND | µg/l | 1 | Grab | 3 |
| Diquat | 2764-72-9 | 20 | µg/l | 1 | Grab | |
| Disulfoton *Refer to entry for "Phorate and Disulfoton" | 298-04-4 | ND | µg/l | 1 | Grab | 3 |
| Dodecylguanidine acetate and Dodecylguanidine hydrochloride<br>*applies to the sum of these substances | 2439-10-3; 13590-97-1 | 50* | µg/l | 1 | Grab | |
| Dyphylline | 479-18-5 | 50 | µg/l | 1 | Grab | |
| Endothall | 145-73-3 | 50 | µg/l | 1 | Grab | |
| Endrin | 72-20-8 | ND | µg/l | 1 | Grab | 3 |
| Endrin aldehyde | 7421-93-4 | 5 | µg/l | 1 | Grab | |
| Endrin ketone | 53494-70-5 | 5 | µg/l | 1 | Grab | |
| Ethylbenzene | 100-41-4 | 5 | µg/l | 1 | Grab | |
| Ethylene chlorohydrin | 107-07-3 | 50 | µg/l | 1 | Grab | |
| Ethylene dibromide | 106-93-4 | $6 \times 10^{-4}$ | µg/l | 1 | Grab | |
| Ethylene glycol | 107-21-1 | 50 | µg/l | 1 | Grab | |
| Ethylene oxide | 75-21-8 | 0.05 | µg/l | 1 | Grab | |
| Ethylenethiourea | 96-45-7 | ND | µg/l | 1 | Grab | 3 |
| Ferbam | 14484-64-1 | 4.2 | µg/l | 1 | Grab | |
| Fluometuron | 2164-17-2 | 50 | µg/l | 1 | Grab | |
| Fluoranthene | 206-44-0 | 50 | µg/l | 1 | Grab | |
| Fluorene | 86-73-7 | 50 | µg/l | 1 | Grab | |
| Fluoride | NA | 3000 | µg/l | 1 | Grab | |
| Formaldehyde | 50-00-0 | 8 | µg/l | 1 | Grab | |
| Folpet | 133-07-3 | 50 | µg/l | 1 | Grab | |
| Glyphosate | 1071-83-6 | 50 | µg/l | 1 | Grab | |
| Guaifenesin | 93-14-1 | 50 | µg/l | 1 | Grab | |
| Heptachlor | 76-44-8 | 0.04 | µg/l | 1 | Grab | |
| Heptachlor epoxide | 1024-57-3 | 0.03 | µg/l | 1 | Grab | |
| Hexachlorobenzene | 118-74-1 | 0.04 | µg/l | 1 | Grab | |
| Hexachlorobutadiene | 87-68-3 | 0.5 | µg/l | 1 | Grab | |
| alpha-Hexachlorocyclohexane | 319-84-6 | 0.01 | µg/l | 1 | Grab | |
| beta-Hexachlorocyclohexane | 319-85-7 | 0.04 | µg/l | 1 | Grab | |
| delta-Hexachlorocyclohexane | 319-86-8 | 0.04 | µg/l | 1 | Grab | |
| epsilon-Hexachlorohexane | 6108-10-7 | 0.04 | µg/l | 1 | Grab | |
| gamma-Hexachlorohexane | 58-89-9 | 0.05 | µg/l | 1 | Grab | |
| Hexachloropentadiene | 77-47-4 | 5 | µg/l | 1 | Grab | |
| Hexachloroethane | 67-72-1 | 5 | µg/l | 1 | Grab | |
| Hexachlorophene<br>*see limit for Phenolic compounds (total phenols) | 70-30-4 | * | µg/l | 1 | Grab | |
| Hexachloropropene | 1888-71-7 | 5 | µg/l | 1 | Grab | |
| 2-Hexanone | 591-78-6 | 50 | µg/l | 1 | Grab | |
| Hexazinone | 51235-04-2 | 50 | µg/l | 1 | Grab | |

| Outfall and Parameters<br>**Outfall 001 – Containerized Well Development Water and/or Pump Test Water** | CAS No. | Limitations Daily Max. | Units | Minimum Monitoring Requirements | | FN |
|---|---|---|---|---|---|---|
| | | | | Measurement Frequency | Sample Type | |
| | | | | | | |
| Hydrogen sulfide<br>*see limit for Sulfides, total | 7783-04-2 | * | µg/l | 1 | Grab | |
| Hydroquimone<br>*see limit for Phenolic compounds (total phenols) | 123-31-9 | * | µg/l | 1 | Grab | |
| 1-Hydroxyethylidene-1,1-diphosphonic acid | 2809-21-4 | 50 | µg/l | 1 | Grab | |
| 2-(2-Hydroxy-3,5-di-tert-pentylphenyl)-benzotriazole<br>*see limit for Phenolic compounds (total phenols) | 25 | * | µg/l | 1 | Grab | |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | 0.002 | µg/l | 1 | Grab | 2 |
| Iron<br>*Also see Iron and Manganese | NA | 600* | µg/l | 1 | Grab | |
| Iron and Manganese<br>*Applies to the sum of these substances | NA | 1000* | µg/l | 1 | Grab | |
| Isodrin | 465-73-6 | 5 | µg/l | 1 | Grab | |
| Isophorone | 78-59-1 | 50 | µg/l | 1 | Grab | |
| Isopropalin | 33820-53-0 | 5 | µg/l | 1 | Grab | |
| Isopropylbenzene | 98-82-8 | 5 | µg/l | 1 | Grab | |
| 2-Isopropyltoluene | 527-84-4 | 5 | µg/l | 1 | Grab | |
| 3-Isopropyltoluene | 535-77-3 | 5 | µg/l | 1 | Grab | |
| 4-Isopropyltoluene | 99-87-6 | 5 | µg/l | 1 | Grab | |
| Kepone | 143-50-0 | ND | µg/l | 1 | Grab | 3 |
| Lead | NA | 50 | µg/l | 1 | Grab | |
| Magnesium | NA | 35,000 | µg/l | 1 | Grab | |
| Malathion | 121-75-5 | 7 | µg/l | 1 | Grab | |
| Mancozeb | 8018-01-7 | 1.8 | µg/l | 1 | Grab | 2 |
| Maneb | 12427-38-2 | 1.8 | µg/l | 1 | Grab | 2 |
| Manganese<br>*Also see 'Iron and Manganese' | NA | 600* | µg/l | 1 | Grab | |
| Mercaptobenzothiazole | 149-30-4 | 50 | µg/l | 1 | Grab | |
| Mercury | NA | 1.4 | µg/l | 1 | Grab | |
| Methacrylic acid | 79-41-4 | 50 | µg/l | 1 | Grab | |
| Methacrylonitrile | 126-98-7 | 5 | µg/l | 1 | Grab | |
| Methomyl<br>*see limit for "Aldicarb and Methomyl' | 16752-77-5 | * | µg/l | 1 | Grab | |
| Methoxychlor | 72-43-5 | 35 | µg/l | 1 | Grab | |
| (1-Methoxyethyl) benzene | 4013-34-7 | 50 | µg/l | 1 | Grab | |
| (2-Methoxyethyl) benzene | 3558-60-6 | 50 | µg/l | 1 | Grab | |
| N-Methylaniline | 100-61-8 | 5 | µg/l | 1 | Grab | |
| Methylbenz(a)anthracenes<br>*applies to the sum of these substances | NA | 0.002* | µg/l | 1 | Grab | |
| Methyl chloride | 74-87-3 | 5 | µg/l | 1 | Grab | |
| 2-Methyl-4-chlorophenoxyacetic acid (MCPA) | 94-74-6 | 0.44 | µg/l | 1 | Grab | 2 |
| 4,4'-Methylene-bis-(2-chloroaniline) | 101-14-4 | 5 | µg/l | 1 | Grab | |
| 4,4'-Methylene-bis-(N-methyl)aniline | 1807-55-2 | 5 | µg/l | 1 | Grab | |
| 4,4'-Methylene-bis-(N,N'-dimethyl) aniline | 101-61-1 | 5 | µg/l | 1 | Grab | |
| Methylene bisthiocyanate | 6317-18-6 | 50 | µg/l | 1 | Grab | |
| Methylene chloride | 75-09-2 | 5 | µg/l | 1 | Grab | |
| 4-(1-Methylethoxy)-1-butanol | 31600-69-8 | 50 | µg/l | 1 | Grab | |

| Outfall and Parameters<br>**Outfall 001 – Containerized Well Development Water and/or Pump Test Water** | CAS No. | Limitations Daily Max. | Units | Minimum Monitoring Requirements | | FN |
|---|---|---|---|---|---|---|
| | | | | Measurement Frequency | Sample Type | |
| | | | | | | |
| 2-Methylethyl-1,3-dioxolane | 126-39-6 | 50 | µg/l | 1 | Grab | |
| Methyl ethyl ketone | 78-93-3 | 50 | µg/l | 1 | Grab | |
| Methyl iodide | 74-88-4 | 5 | µg/l | 1 | Grab | |
| Methyl methacrylate | 80-62-6 | 50 | µg/l | 1 | Grab | |
| Methyl parathion<br>*see limit for 'Parathion and Methyl parathion' | 298-00-0 | * | µg/l | 1 | Grab | |
| alpha-Methylstyrene | 98-83-9 | 5 | µg/l | 1 | Grab | |
| 2-Methylstyrene | 611-15-4 | 5 | µg/l | 1 | Grab | |
| 3-Methylstyrene | 100-80-1 | 5 | µg/l | 1 | Grab | |
| 4-Methylstyrene | 622-97-9 | 5 | µg/l | 1 | Grab | |
| Methyl tert-butyl ether (MTBE) | 1634-04-4 | 10 | µg/l | 1 | Grab | |
| Metolachlor ESA | 171118-09-5 | 50 | µg/l | 1 | Grab | |
| Metolachlor OA | 152019-73-3 | 50 | µg/l | 1 | Grab | |
| Metribuzin | 21087-64-9 | 50 | µg/l | 1 | Grab | |
| Mirex | 2385-85-5 | 0.03 | µg/l | 1 | Grab | 2 |
| Nabam | 142-59-6 | 1.8 | µg/l | 1 | Grab | 2 |
| Naphthalene | 91-20-3 | 10 | µg/l | 1 | Grab | |
| Niacinamide | 98-92-0 | 500 | µg/l | 1 | Grab | |
| Nickel | NA | 200 | µg/l | 1 | Grab | |
| Nitralin | 4726-14-1 | 35 | µg/l | 1 | Grab | |
| Nitrate | NA | 20,000 | µg/l | 1 | Grab | |
| Nitrate and Nitrite (as N) | NA | 20,000 | µg/l | 1 | Grab | |
| Nitrilotriacetic acid<br>*includes related forms that convert to nitrilotriacetic acid upon acidification to a pH of 2.3 or less | NA | 3* | µg/l | 1 | Grab | |
| Nitrite (as N) | NA | 2,000 | µg/l | 1 | Grab | |
| 2-Nitroaniline | 88-74-4 | 5 | µg/l | 1 | Grab | |
| 3-Nitroaniline | 99-09-2 | 5 | µg/l | 1 | Grab | |
| 4-Nitroaniline | 100-01-6 | 5 | µg/l | 1 | Grab | |
| Nitrobenzene | 98-95-3 | 0.4 | µg/l | 1 | Grab | |
| N-Nitrosodiphenylamine | 86-30-6 | 50 | µg/l | 1 | Grab | |
| 2-Nitrotoluene | 88-72-2 | 5 | µg/l | 1 | Grab | |
| 3-Nitrotoluene | 99-08-1 | 5 | µg/l | 1 | Grab | |
| 4-Nitrotoluene | 99-99-0 | 5 | µg/l | 1 | Grab | |
| 5-Nitro-o-toluidine | 99-55-8 | 5 | µg/l | 1 | Grab | |
| Octachlorostyrene | 29082-74-4 | 0.2 | µg/l | 1 | Grab | |
| Organic substances, total | NA | 100 | µg/l | 1 | Grab | |
| Oxamyl | 23135-22-0 | 50 | µg/l | 1 | Grab | |
| Paraquat | 4685-14-7 | 3.0 | µg/l | 1 | Grab | |
| Parathion<br>*see limit for 'Parathion and Methyl parathion' | 56-38-2 | * | µg/l | 1 | Grab | |
| Parathion and Methyl parathion<br>*Applies to the sum of these substances | 5638-2; 298-00-0 | 1.5* | µg/l | 1 | Grab | |
| Pendimethalin | 40487-42-1 | 5 | µg/l | 1 | Grab | |

| Outfall and Parameters<br>**Outfall 001 – Containerized Well Development Water and/or Pump Test Water** | CAS No. | Limitations Daily Max. | Units | Minimum Monitoring Requirements | | FN |
|---|---|---|---|---|---|---|
| | | | | Measurement Frequency | Sample Type | |
| | | | | | | |
| Pentachlorobenzene | 608-93-5 | 5 | µg/l | 1 | Grab | |
| Pentachloroethane | 76-01-7 | 5 | µg/l | 1 | Grab | |
| Pentachloronitrobenzene | 82-68-8 | ND | µg/l | 1 | Grab | 3 |
| Pentachlorophenol<br>*see limit for 'Phenolic compounds (total phenols)' | 87-86-5 | * | µg/l | 1 | Grab | |
| Phenanthrene | 85-01-8 | 50 | µg/l | 1 | Grab | |
| Phenol<br>*see limit for 'Phenolic compounds (total phenols)' | 108-95-2 | * | µg/l | 1 | Grab | |
| Phenolic compounds (total phenols)<br>*Applies to the sum of these substances | NA | 2* | µg/l | 1 | Grab | 2,10 |
| Phenols, total chlorinated<br>*see limit for 'Phenolic compounds (total phenols)' | NA | * | µg/l | 1 | Grab | |
| Phenols, total unchlorinated<br>*see limit for 'Phenolic compounds (total phenols)' | NA | * | µg/l | 1 | Grab | |
| 1,2-Phenylenediamine | 95-54-5 | 5 | µg/l | 1 | Grab | |
| 1,3-Phenylenediamine | 108-45-2 | 5 | µg/l | 1 | Grab | |
| 1,4-Phenylenediamine | 108-45-2 | 5 | µg/l | 1 | Grab | |
| Phenyl ether | 101-84-8 | 10 | µg/l | 1 | Grab | |
| Phenylhydrazine | 100-63-0 | 5 | µg/l | 1 | Grab | |
| Phenylpropanolamine | 14838-15-4 | 50 | µg/l | 1 | Grab | |
| 3-Phenyl-1-propene | 637-50-3 | 5 | µg/l | 1 | Grab | |
| cis-1-Phenyl-1-propene | 766-90-5 | 5 | µg/l | 1 | Grab | |
| trans-1-Phenyl-1-propene | 873-66-5 | 5 | µg/l | 1 | Grab | |
| Phorate | 298-02-2 | ND | µg/l | 1 | Grab | 3 |
| Picloram<br>*includes related forms that convert to the organic acid upon acidification to a pH of 2 or less; and esters of the organic acid. | NA | 50* | µg/l | 1 | Grab | |
| PCB-1016 | 12674-11-2 | 0.20 | µg/l | 1 | Grab | 2,5 |
| PCB-1221 | 11104-28-2 | 0.20 | µg/l | 1 | Grab | 2,5 |
| PCB-1232 | 11141-16-5 | 0.20 | µg/l | 1 | Grab | 2,5 |
| PCB-1242 | 53469-21-9 | 0.20 | µg/l | 1 | Grab | 2,5 |
| PCB-1248 | 12672-29-6 | 0.20 | µg/l | 1 | Grab | 2,5 |
| PCB-1254 | 11097-69-1 | 0.20 | µg/l | 1 | Grab | 2,5 |
| PCB-1260 | 11096-82-5 | 0.20 | µg/l | 1 | Grab | 2,5 |
| Principal organic contaminant | NA | 5 | µg/l | 1 | Grab | 4 |
| Prometon | 1610-18-0 | 50 | µg/l | 1 | Grab | |
| Propachlor | 1918-16-7 | 35 | µg/l | 1 | Grab | |
| Propanil | 709-98-8 | 7.0 | µg/l | 1 | Grab | |
| Propazine | 139-40-2 | 16 | µg/l | 1 | Grab | |
| Propham | 122-42-9 | 50 | µg/l | 1 | Grab | |
| n-Propylbenzene | 103-65-1 | 5 | µg/l | 1 | Grab | |
| Propylene glycol | 57-55-6 | 1000 | µg/l | 1 | Grab | |
| Pyrene | 129-00-0 | 50 | µg/l | 1 | Grab | |
| Pyridine | 110-86-1 | 50 | µg/l | 1 | Grab | |
| Selenium | NA | 20 | µg/l | 1 | Grab | |
| Silver | NA | 100 | µg/l | 1 | Grab | |

| Outfall and Parameters<br>**Outfall 001 – Containerized Well Development Water and/or Pump Test Water** | CAS No. | Limitations Daily Max. | Units | Minimum Monitoring Requirements | | FN |
|---|---|---|---|---|---|---|
| | | | | Measurement Frequency | Sample Type | |
| | | | | | | |
| Simazine | 122-34-9 | 0.5 | µg/l | 1 | Grab | |
| Styrene | 100-42-5 | 930 | µg/l | 1 | Grab | |
| Sulfate | NA | 500,000 | µg/l | 1 | Grab | |
| Sulfide | NA | 1,000 | µg/l | 1 | Grab | |
| Tebuthiuron | 34014-18-1 | 50 | µg/l | 1 | Grab | |
| Terbacil | 5902-51-2 | 50 | µg/l | 1 | Grab | |
| Terbufos | 13071-79-9 | 0.09 | µg/l | 1 | Grab | |
| Tetrachlorobenzenes<br>*value of 5 µg/l applies to each tetrachlorobenzene individually. Value of 10 µg/l applies to the sum of the substances. | 636-66-2; 634-90-2; 95-94-3; 12408-10-5 | * | µg/l | 1 | Grab | |
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 5 | µg/l | 1 | Grab | |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 5 | µg/l | 1 | Grab | |
| Tetrachloroethene | 127-18-4 | 5 | µg/l | 1 | Grab | |
| Tetrachloroterephthalic acid | 2136-79-0 | 50 | µg/l | 1 | Grab | |
| alpha, alpha, alpha, 4-Tetrachlorotoluene | 5216-25-1 | 5 | µg/l | 1 | Grab | |
| Tetrahydrofuran | 109-99-9 | 50 | µg/l | 1 | Grab | |
| 1,2,3,4-Tetramethylbenzene | 488-23-3 | 5 | µg/l | 1 | Grab | |
| 1,2,3,5-Tetramethylbenzene | 527-53-7 | 5 | µg/l | 1 | Grab | |
| 1,2,4,5-Tetramethylbenzene | 95-93-2 | 5 | µg/l | 1 | Grab | |
| Thallium | NA | 0.5 | µg/l | 1 | Grab | |
| Theophylline | 58-55-9 | 40 | µg/l | 1 | Grab | |
| Thiram | 137-26-8 | 1.8 | µg/l | 1 | Grab | |
| Toluene | 108-88-3 | 5 | µg/l | 1 | Grab | |
| Toluene-2,4-diamine | 95-80-7 | 5 | µg/l | 1 | Grab | |
| Toluene-2,5-diamine | 95-70-5 | 5 | µg/l | 1 | Grab | |
| Toluene-2,6-diamine | 823-40-5 | 5 | µg/l | 1 | Grab | |
| o-Toluidine | 95-53-4 | 5 | µg/l | 1 | Grab | |
| Tolytriazole | 29385-43-1 | 50 | µg/l | 1 | Grab | |
| Toxaphene | 8001-35-2 | 0.06 | µg/l | 1 | Grab | 2 |
| 1,2,4-Tribromobenzene | 615-54-3 | 5 | µg/l | 1 | Grab | |
| Tributyltin oxide | 56-35-9 | 50 | µg/l | 1 | Grab | |
| 2,4,6-Trichloroaniline | 634-93-5 | 5 | µg/l | 1 | Grab | |
| Trichlorobenzenes<br>* value of 5 µg/l applies to each tetrachlorobenzene individually. Value of 10 µg/l applies to the sum of the substances. | 87-61-6; 120-82-1; 108-70-3; 12002-48-1 | * | µg/l | 1 | Grab | |
| 1,1,1-Trichloroethane | 71-55-6 | 5 | µg/l | 1 | Grab | |
| 1,1,2-Trichloroethane | 79-00-5 | 1 | µg/l | 1 | Grab | |
| Trichloroethene | 79-01-6 | 5 | µg/l | 1 | Grab | |
| Trichlorofluoromethane | 75-69-4 | 5 | µg/l | 1 | Grab | |
| 2,4,5-Trichlorophenoxyacetic acid | 93-76-5 | 35 | µg/l | 1 | Grab | |
| 2,4,5-Trichlorophenoxypropionic acid | 93-72-1 | 0.26 | µg/l | 1 | Grab | |
| 1,1,2-Trichloropropane | 598-77-6 | 5 | µg/l | 1 | Grab | |

| Outfall and Parameters<br>**Outfall 001 – Containerized Well Development Water and/or Pump Test Water** | CAS No. | Limitations Daily Max. | Units | Minimum Monitoring Requirements | | FN |
|---|---|---|---|---|---|---|
| | | | | Measurement Frequency | Sample Type | |
| | | | | | | |
| 1,2,3-Trichloropropane | 96-18-4 | 0.04 | µg/l | 1 | Grab | |
| cis-1,2,3-Trichloropropene | 13116-57-9 | 5 | µg/l | 1 | Grab | |
| trans-1,2,3-trichloropropene | 13116-58-0 | 5 | µg/l | 1 | Grab | |
| alpha,2,4-Trichlorotoluene | 94-99-5 | 5 | µg/l | 1 | Grab | |
| alpha,2,6-Trichlorotoluene | 2014-83-7 | 5 | µg/l | 1 | Grab | |
| alpha,3,4-Trichlorotoluene | 102-47-6 | 5 | µg/l | 1 | Grab | |
| alpha, alpha,2-Trichlorotoluene | 88-66-4 | 5 | µg/l | 1 | Grab | |
| alpha, alpha,4-Trichlorotoluene | 13940-94-8 | 5 | µg/l | 1 | Grab | |
| 2,3,4-Trichlorotoluene | 7359-72-0 | 5 | µg/l | 1 | Grab | |
| 2,3,5-Trichlorotoluene | 56961-86-5 | 5 | µg/l | 1 | Grab | |
| 2,3,6-Trichlorotoluene | 2077-46-5 | 5 | µg/l | 1 | Grab | |
| 2,4,5-Trichlorotoluene | 6639-30-1 | 5 | µg/l | 1 | Grab | |
| 2,4,6-Trichlorotoluene | 23749-65-7 | 5 | µg/l | 1 | Grab | |
| 1,1,1-Trichloro-2,2,2-trifluoethane | 354-58-5 | 5 | µg/l | 1 | Grab | |
| 1,1,2-Trichloro-1,2,2-trifluoethane | 76-13-1 | 5 | µg/l | 1 | Grab | |
| Trifluralin | 1582-09-8 | 35 | µg/l | 1 | Grab | |
| 1,2,3-Trimethylbenzene | 526-73-8 | 5 | µg/l | 1 | Grab | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 5 | µg/l | 1 | Grab | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 5 | µg/l | 1 | Grab | |
| 2,3,6-Trimethylpyridine | 1462-84-6 | 50 | µg/l | 1 | Grab | |
| 2,4,6-Trimethylpyridine | 108-75-8 | 50 | µg/l | 1 | Grab | |
| sym-Trinitrobenzene | 99-35-4 | 5 | µg/l | 1 | Grab | |
| 2,3,4-Trinitrotoluene | 602-29-9 | 5 | µg/l | 1 | Grab | |
| 2,3,6-Trinitrotoluene | 18292-97-2 | 5 | µg/l | 1 | Grab | |
| 2,4,5-Trinitrotoluene | 610-25-3 | 5 | µg/l | 1 | Grab | |
| 2,4,6-Trinitrotoluene | 118-96-7 | 5 | µg/l | 1 | Grab | |
| 3,4,5-Trinitrotoluene | 603-15-6 | 5 | µg/l | 1 | Grab | |
| Triphenyl phosphate | 115-86-6 | 50 | µg/l | 1 | Grab | |
| Uranyl ion | NA | 10,000 | µg/l | 1 | Grab | |
| Vinyl chloride | 75-01-4 | 2 | µg/l | 1 | Grab | |
| 1,2-Xylene | 95-47-6 | 5 | µg/l | 1 | Grab | |
| 1,3-Xylene | 108-38-3 | 5 | µg/l | 1 | Grab | |
| 1,4-Xylene | 106-42-3 | 5 | µg/l | 1 | Grab | |
| Zinc | NA | 5,000 | µg/l | 1 | Grab | |
| Zineb | 12122-67-7 | 1.8 | µg/l | 1 | Grab | |
| Ziram | 137-30-4 | 4.2 | µg/l | 1 | Grab | |

Footnotes:

1. Samples must be collected prior to each discharge event. Discharge may not commence until the sample results show compliance with the above discharge limitations.

2. Discharge limit is set at the Practical Quantitation Limit (PQL). Actual groundwater effluent standard/limitation is below this limit. The most stringent USEPA approved method must be used in the analysis of this parameter.

3. ND means non-detect. The most stringent USEPA approved method must be used in the analysis of this parameter.

4. Applies to any and every individual substance to which the ambient principal organic contaminant standard applies, except any substances that has an effluent standard or limitation value listed above. See Division of Water TOGS 1.1.1 for information on determining the applicability of the ambient POC standard to individual substances.
5. For PCBs:
   a. The treatment plant operator must monitor this discharge for PCBs using USEPA laboratory method 608. The laboratory must make all reasonable attempts to achieve a Minimum Detection Level (MDL) of 0.065 µg/l.
   b. 0.10 µg/l is the discharge goal. The treatment plant operator shall report all values above the MDL (0.065 µg/l per Aroclor). If the level of any Aroclor is above 0.10 µg/l, the treatment plant operator must evaluate the treatment system and identify the cause of the detectable level of PCBs in the discharge.
   c. If the Department determines that effluent monitoring results above 0.10 µg/l can be prevented by implementation of additional measures as proposed by the treatment plant operator in footnote 5.b above, and approved by the Department, the treatment plant operator shall implement such additional measures.

6. Only waters generated at remediation sites during sampling, pump tests, well development, or dewatering of excavations, are authorized for treatment and discharge.

7. Samples and measurements, to comply with the monitoring requirements specified above, must be taken from the holding tank prior to discharge to groundwater.

8. Discharge may not occur unless the ground is capable of accepting the treated effluent. The discharge water may not be ponded on top of saturated or frozen ground or permitted to flow across the ground surface. Also, a minimum separation distance of 100 feet must be maintained between the discharge location and any surface waters (including wetlands).

9. Discharge is not authorized until such time as an engineering submission showing the method of treatment and discharge is approved by the Department. The discharge rate may not exceed the effective treatment system or ground adsorptive capacity. All monitoring data, engineering submissions and modification requests must be submitted to the following DER contact person: _____.

10. Total phenolics must be analyzed using EPA Methods 420.1 or 420.2.