RAMBOLL

ENVIRONMENT
& HEALTH

**Sent via Electronic Mail**

Mr. Matthew J. Ohl
USEPA Region 5
77 West Jackson Boulevard, Mail Code: SR-6J
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**RE: MONTHLY PROGRESS REPORT - APRIL 2019**
**THIRD SITE, ZIONSVILLE, INDIANA**

May 10, 2019

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Dear Mr. Ohl:

This Monthly Progress Report has been prepared by Ramboll US Corporation (Ramboll) on behalf of the Third Site Trust (the Trust) pursuant to the Administrative Order by Consent (the Order) for Third Site, located in Zionsville, Indiana (the Site). The Order became effective on December 2, 2002. This Monthly Progress Report includes activities conducted during the month of April 2019.

## I. Activities Completed During Reporting Month

- Water pumping and treatment from the Third Site extraction wells was conducted during April. With the exception of EW-3, the extraction wells operated for approximately 29 days during the month. (As noted in the May 2018 monthly progress report, extraction well EW-3 is non-operational and is expected to remain so throughout the ERH remediation.) The wells were manually turned off on April 1 to allow Tank T-2 to fill up. The extraction wells were restarted later that day and remained operational through the remainder of the month. Tank T-11 and its float switches were cleaned twice during the month.
- Water treatment system performance samples were collected on April 8. None of the effluent samples contained any contaminants of concern (COCs) above their respective effluent discharge limits. A discharge monitoring report will be submitted to IDEM in May.
- A *Hydraulic Capture Analysis at Third Site Using a Groundwater Flow Model* report was submitted to USEPA on April 9.
- The ERH activities continued in April as discussed in the attached progress report prepared by McMillan-McGee Corp. (Attachment A). On April 26, 2019, McMillan-McGee Corp. submitted a *Continuation of In-Situ Thermal Treatment at Third Site ERH Project* memorandum to USEPA that documented the preliminary results from the March 29, 2019 confirmation sampling conducted by Ramboll and the resumption of ERH system operation based on the results. USEPA responded by e-mail on April 30 requesting that an interim report, including specific monitoring and temperature distribution data obtained from the system during initial operation period be provided.

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## II. Data Generated During the Reporting Month

- Pumped-water volume data for the extraction wells were collected during April. Collected data are provided in Attachment B.
- Analytical results from the March 2019 remedial progress monitoring were validated and have been incorporated into the groundwater monitoring and surface water results summary tables (Tables 2, 2A, and 3) provided in Attachment C. A sample location map is also provided for reference. Also included in Attachment C are the results from the individual pump-and-treat extraction wells along with post-treatment effluent sample results (Table 4).
- Analytical results from the March 29, 2019 ERH confirmation groundwater sampling event were validated and are included as Table 5 in Attachment D. Preliminary results pending data validation were previously provided to USEPA in the April 26 memorandum from McMillan-McGee Corp.

## III. Developments/Difficulties Encountered During the Reporting Month

- McMillan-McGee Corp. resumed ERH system operation on April 23 following receipt of the March 2019 confirmation sampling results.

## IV. Activities Anticipated for Next Reporting Month

- Operation and maintenance of the pump & treat system will continue.
- The ERH system will continue to operate as discussed in the attached McMillan-McGee Corp. April progress report.

Please do not hesitate to contact me if you have any questions concerning this Monthly Progress Report.

Sincerely,

Ramboll US Corporation

**Andrew A. Gremos, LPG, CHMM**
Principal

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Attachments

A. McMillan-McGee Corp. Progress Report
B. Extraction Well Pumped-Water Volume Data
C. Remedial Progress Monitoring Data
D. Confirmation Groundwater Analytical Results – DNAPL Containment Area

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ATTACHMENT A

McMillan-McGee Corp. Progress Report

# Progress Report

**April 2019**

Installation, Operation, and Maintenance of ERH at Third Site

985 South US Highway 421
Zionsville, Indiana

## Summary

This progress report has been prepared by McMillan-McGee Corporation (Mc²) on behalf of the Third Site Trust Fund (TSTF), pursuant to the Administrative Order by Consent (the order) for Third Site, located in Zionsville, Indiana (the Site). The revised Order approving Electrical Resistive Heating (ERH) groundwater remediation became effective on December 16, 2016. The Electro-Thermal Dynamic Stripping Process (ET-DSP™) is Mc²'s patented thermal remediation technology employed for this project. This monthly progress report includes activities conducted during the month of April 2019.

## 1. Activities Completed During Reporting Month

Minimal site activities occurred in in the first three weeks of April. ET-DSP™ operations were shut down on January 24, pending confirmation sampling of groundwater. Multi-phase extraction from the wellfield was shut off on February 11, and the above ground treatment system was placed in winter standby on February 15. IWM Consulting (IWM) operators continued providing on-site support once per week. Mc² was onsite during the weeks of April 22 and April 29.

The average subsurface temperature of the treatment volume achieved the operations target of 88°C in December 2018, ahead of the expected ET-DSP™ performance milestone for the site. The average temperature continued increasing and was maintained above 95°C in January. This temperature trend is plotted in the following figure, based on measured temperatures at the OptiTAM© sensor wells and temperatures estimated at the electrodes from electrical energy inputs. Power and water injection to all electrodes was shut off on January 24, and the average temperature cooled to 82°C over the following three months.

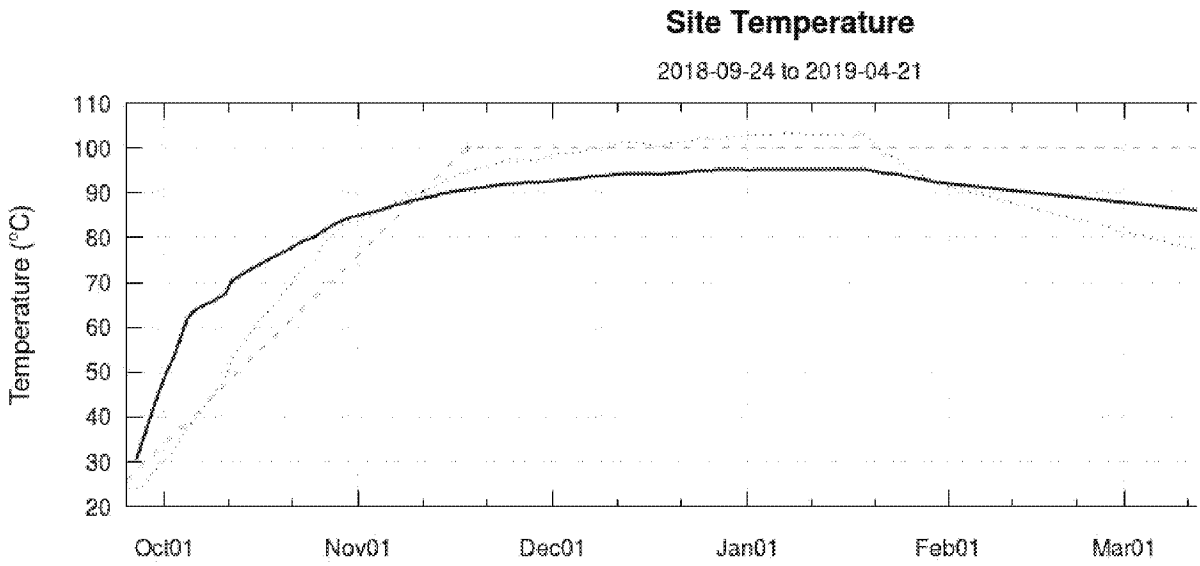


*Figure 1: Average Temperatures of ERH Treatment Volume*

It was believed that temperatures in the treatment volume at the end of January were sufficient to achieve the contaminant concentration reduction goals in groundwater for the project. This determination was based on contaminant mass recovery trends, heated volume temperatures, and Mc²'s assessment of treatment area groundwater conditions. Confirmation groundwater sampling at the five monitoring well locations was performed by Ramboll on March 29.

The groundwater sample analysis was provided by Ramboll on April 15. The following exceedances for specific compounds were noted in the laboratory results for three of the monitoring wells:

P-1: Trichloroethene (21,000 ug/L), 1,2 Dichlorobenzene (16,600 ug/L), and total Xylene (5,290 ug/L) contributed to a total VOC concentration exceeding the treatment target of 4,265 ug/L.

P-2: 1,2 Dichlorobenzene (2,380 ug/L) and cis-1,2 Dichloroethene (2,150 ug/L) contributed to a total VOC concentration exceeding the treatment target of 4,265 ug/L.

MW-27R: Acetone concentration (1,070 ug/L) resulted in a total VOC concentration exceeding the treatment target of 742 ug/L.

The confirmation groundwater sample results are preliminary and subject to data validation. Results are summarized in Table 1.

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**Confirmation Groundwater Analytical Results (ug/L)**
**DNAPL Containment Area**
**Third Site Superfund Site, Zionsville, Indiana**

| LOCATION | Sump | P-1 | P-2 | P-3 | MW- |
|---|---|---|---|---|---|
| COLLECTION DATE | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/ |
| | | | | | |
| 1,1-Dichloroethane | <10 | 208 | <10 | <10 | <1 |
| 1,1-Dichloroethene | <10 | <1 | <10 | <10 | <1 |
| cis-1,2-Dichloroethene | 634 | <1 | 2,150 | 131 | 15 |
| trans-1,2-Dichlorothene | 35.8 | <1 | 44.2 | <10 | <1 |
| Tetrachloroethene | 113 | 2,240 | 84.6 | <10 | <1 |
| 1,1,1-Trichloroethane | <10 | <1 | <10 | <10 | <1 |
| 1,1,2-Trichloroethane | <10 | <1 | <10 | <10 | <1 |
| Trichloroethene | 653 | 21,000 | 446 | 39.0 | 41 |
| Vinyl Chloride | <10 | 64.5 | 14.3 | <10 | <1 |
| Other VOCs | 1675 | 24,166 | 2,840 | 313 | 1,0 |
| Total VOCs | 3,111 | 47,679 | 5,579 | 483 | 1,2 |
| Performance Standards for ERH Treatment (Total VOCs)[2] | 4,285 | 4,285 | 4,285 | 4,285 | 74 |

NOTES:
1. Compounds listed above are Third Site Contaminants of Concern (COC) identified in Table 1 of the May 2001 Enforcement Action Memorandum.

*Table 1: Third Site ERH Confirmation Groundwater Analytical Results, March 2019*

For MW-27R, acetone is often produced on thermal projects but the exact mechanism is unknown. One hypothesis is that it is formed by the breakdown of humic substances in the soil. Further heating in the ATT may make more acetone, while cooling the area (to approximately 40°C) will allow bacteria to flourish that will quickly consume the acetone. Thus, the response for MW-27R is to allow that area to continue cooling. The adjacent extraction well, X-B2, will be used to aid removal of the acetone since it is miscible.

It is also possible (although considered unlikely) that the acetone is generated outside of the containment cell such the groundwater flow velocity results in migration of acetone that is at too high a rate for biodegradation. Additional monitoring may be needed to confirm the degradation is taking place.

For the P-1 and P-2 wells, Mc² determined to resume ET-DSP™ heating and multi-phase extraction operations in the immediate vicinity of the two wells. Thermal treatment will be effective to reduce the remaining CVOC concentrations at these locations. Higher in-situ temperatures may be required to mobilize 1,2-Dichlorobenzene from the treatment volume. The following modifications were determined to focus contaminant recovery on the needed areas:

- Resume electrical heating input and water injection to six triple electrode wells E-B4, E-C4, E-C5, E-D2, E-D3, and E-E2 (18 total electrodes).
- Reconfigure voltage settings and electrical phasing of adjacent electrodes to increase heat input around P-1 and P-2.
- Bring extraction wells X-D2 and X-B4 "on-phase", to provide electrical power for these two wells to act as additional heat inputs next to the remaining areas of contamination.
- Place downhole temperature sensors in P-1 and P-2 to ensure target temperatures are achieved and maintained at the locations.
- Focus vapor and liquid extraction in the vicinity to maximize recovery of remaining contaminants. Multi-phase extraction will resume from five extraction wells: X-B4, X-C4, X-D2, X-E1, and X-D3.

The affected well locations are shown in Figure 2.

Mc² returned to site on April 22 to perform the wellfield modifications listed above and resume ET-DSP™ heating around monitoring wells P-1 and P-2. Mc² was onsite to operate the thermal treatment systems on weekdays through April 30.

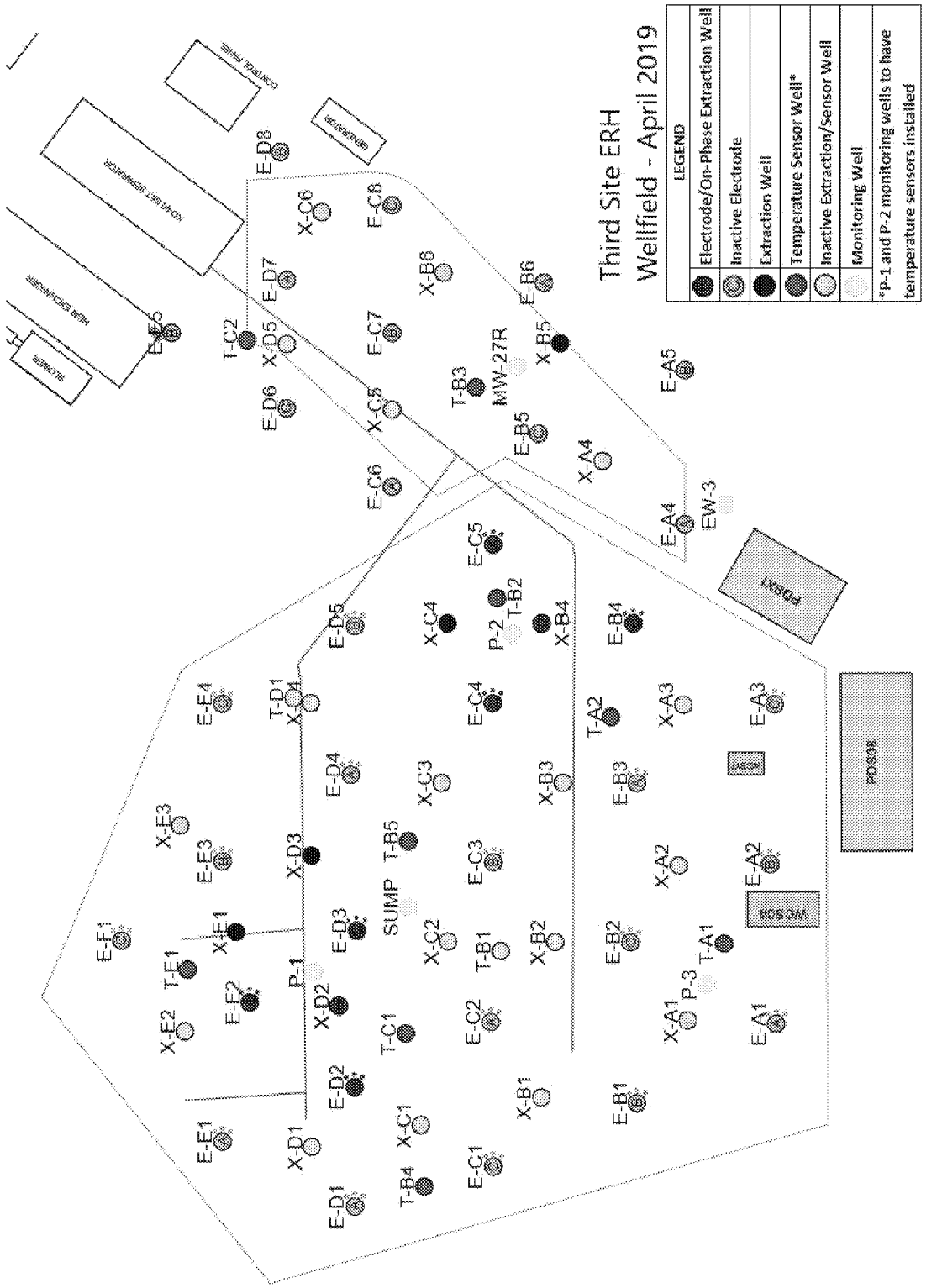


*Figure 2: Third Site ERH Wellfield Layout*

## 2. Data Generated During Reporting Month

- Mc² stopped generating project operations data after the wellfield extraction system was shut down on February 11. Subsurface temperatures were still recorded by the OptiTAM© system. Mc² resumed generating data per the project requirements defined in the Sampling and Analysis Plan after treatment operations restarted on April 23. The data requirements for thermal remediation operations are summarized in Table 2.
- Ramboll obtained confirmation groundwater samples from the five identified monitoring wells on March 29. Laboratory analysis of the samples was provided by Ramboll on April 15.

| Item | Media | Location | Method | Frequency |
|---|---|---|---|---|
| Power, current, voltage | Subsurface | Electrodes | PDS (automatic) | Minutely (averaged daily) |
| Temperature | Subsurface | Sensor wells | OptiTAM© (automatic) | Hourly (averaged daily) |
| Temperature | Extracted fluids | Extraction wells, treatment system | Temperature gauge or gun (manual) | Daily |
| Vacuum | Vapor extracted | Vacuum Monitoring/ Extraction wells | Vacuum gauge (manual) | Daily |
| Level | Groundwater | Extraction and monitoring wells | Water Level Interface Probe | Weekly |
| Flow Rate | Vapor extracted | Treatment influent | Averaging pitot tube (manual) | Daily |
| Flow Rate | Vapor discharged | Treatment effluent | Averaging pitot tube (manual) | Daily |
| Flow Rate | Vapor extracted | Extraction wells | Averaging pitot tube (manual) | Biweekly |
| Volume | Water extracted | Treatment influent | Flow totalizer (manual) | Daily |
| Volume | Water discharged | Treatment effluent | Flow totalizer (manual) | Daily |
| Volume | Water injected | Treatment reinjection | Flow totalizer (manual) | Daily |
| Volume | Water injected | Electrodes | WCS (automatic) | Hourly (averaged daily) |
| Vapor VOCs | Vapor extracted | Extraction wells | PID (manual) | Biweekly |
| Vapor VOCs | Vapors treated | Treatment system | PID (manual) | Daily |
| Vapor VOCs | Vapor discharged | Treatment effluent | PID (manual) | Daily |
| Vapor VOCs[1] (Analytical) | Vapors treated | Selected treatment system sample ports | USEPA TO-15 modified (Tedlar bag) (manual) | Biweekly |
| Liquid VOCs[1] (Analytical) | Liquids treated | Selected treatment system sample ports | USEPA 8260B Pump or valve (manual) | Biweekly |

*Table 2: Monitoring Parameters for Third Site ERH*

## 3. Developments/Difficulties Encountered During the Reporting Month

On April 15, contaminant exceedances were reported in the laboratory analysis for groundwater confirmation samples at three of five monitoring wells. Mc² resumed ET-DSP™ heating and multi-phase extraction operations as described in §1.

## 4. Activities Anticipated for Next Reporting Month

ET-DSP™ heating and multi-phase extraction operations will continue in the vicinity of monitoring wells P-1 and P-2, with Mc² performing onsite operations. Mc² will operate the electrodes at high power levels to rapidly increase subsurface temperatures and mobilize contaminants for recovery. The above ground treatment system will continue treating the recovered contaminants.

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ATTACHMENT B

Extraction Well Pumped-Water Volume Data

**Table 1**
**Extraction Well Pumped Water Volumes (gallons)**
**Third Site Superfund Site**
**Zionsville, Indiana**

| Date | Mode | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Period Total | Total Pumped |
|---|---|---|---|---|---|---|---|---|
| 12/6/2013 | Batch 1 | 1,859 | 1,733 | 131 | 3,968 | 1,589 | 9,280 | 9,280 |
| 12/9/2013 | | 2,733 | 2,860 | 195 | 7,011 | 2,344 | 5,863 | 15,143 |
| 12/10/2013 | | 2,994 | 3,672 | 221 | 9,211 | 2,554 | 12,789 | 18,652 |
| 12/11/2013 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12/16/2013 | Batch 2 | 772 | 10,449 | 0 | 16,058 | 55,221 | 82,500 | 82,500 |
| 1/13/2014 | | 4,520 | 11,519 | 0 | 18,926 | 59,981 | 12,446 | 94,946 |
| 1/14/2013 | | 26,371 | 15,321 | 0 | 30,133 | 77,242 | 54,121 | 149,067 |
| 1/15/2014 | | 41,936 | 17,978 | 0 | 38,879 | 89,976 | 39,702 | 188,769 |
| 4/2/2014 | Continuous Pumping | 41,936 | 17,978 | 0 | 38,879 | 89,976 | 0 | 188,769 |
| 4/3/2014 | | 51,444 | 17,978 | 0 | 41,710 | 108,055 | 30,418 | 219,187 |
| 4/4/2014 | | 77,384 | 19,264 | 0 | 53,925 | 127,215 | 58,601 | 277,788 |
| 4/5/2014 | | 77,384 | 19,264 | 0 | 65,546 | 143,233 | 27,639 | 305,427 |
| 4/7/2014 | | 77,384 | 19,264 | 0 | 87,083 | 172,914 | 51,218 | 356,645 |
| 4/8/2014 | | 83,474 | 19,264 | 0 | 99,545 | 189,383 | 35,021 | 391,666 |
| 4/9/2014 | | 89,799 | 19,264 | 0 | 111,584 | 204,480 | 33,461 | 425,127 |
| 4/10/2014 | | 109,501 | 19,264 | 0 | 120,069 | 218,641 | 42,348 | 467,475 |
| 4/15/2014 | | 114,796 | 19,264 | 0 | 120,069 | 222,395 | 9,049 | 476,524 |
| 4/16/2014 | | 133,884 | 19,264 | 0 | 121,354 | 236,834 | 34,812 | 511,336 |
| 4/17/2014 | | 152,518 | 19,264 | 0 | 126,084 | 251,432 | 37,962 | 549,298 |
| 4/18/2014 | | 167,568 | 19,815 | 20 | 129,847 | 263,372 | 31,324 | 580,622 |
| 4/19/2014 | | 180,213 | 22,500 | 171 | 133,608 | 274,179 | 30,049 | 610,671 |
| 4/21/2014 | | 200,706 | 26,887 | 293 | 139,495 | 291,460 | 48,170 | 658,841 |
| 4/22/2014 | | 205,561 | 30,408 | 524 | 140,914 | 292,246 | 10,812 | 669,653 |
| 4/23/2014 | | 207,779 | 33,825 | 732 | 141,568 | 297,434 | 11,685 | 681,338 |
| 4/24/2014 | | 207,779 | 37,343 | 956 | 141,568 | 297,434 | 3,742 | 685,080 |
| 4/25/2014 | | 207,918 | 40,738 | 1,169 | 141,611 | 297,500 | 3,856 | 688,936 |
| 4/28/2014 | | 254,388 | 49,599 | 1,688 | 152,435 | 338,923 | 108,097 | 797,033 |
| 4/29/2014 | | 255,097 | 54,025 | 1,948 | 160,135 | 356,941 | 31,113 | 828,146 |
| 4/30/2014 | | 273,934 | 57,823 | 2,166 | 166,457 | 372,251 | 44,485 | 872,631 |
| 5/1/2014 | | 288,279 | 60,801 | 2,334 | 170,850 | 384,410 | 34,043 | 906,674 |
| 5/5/2014 | | 291,622 | 61,391 | 2,371 | 171,439 | 387,045 | 7,194 | 913,868 |
| 5/6/2014 | | 309,542 | 64,789 | 2,551 | 175,887 | 401,883 | 40,784 | 954,652 |
| 5/7/2014 | | 325,874 | 68,028 | 2,736 | 179,587 | 415,797 | 37,370 | 992,022 |
| 5/8/2014 | | 340,468 | 70,977 | 2,904 | 182,785 | 428,374 | 33,486 | 1,025,508 |
| 5/9/2014 | | 358,769 | 74,725 | 3,114 | 186,698 | 444,260 | 42,058 | 1,067,566 |
| 5/12/2014 | | 402,898 | 83,989 | 3,646 | 197,945 | 482,254 | 103,166 | 1,170,732 |
| 5/15/2014 | | 402,898 | 84,524 | 3,691 | 199,270 | 484,489 | 4,140 | 1,174,872 |
| 5/16/2014 | | 407,052 | 89,063 | 4,002 | 211,358 | 502,634 | 39,237 | 1,214,109 |
| 5/19/2014 | | 446,956 | 98,305 | 4,641 | 236,109 | 538,597 | 110,499 | 1,324,608 |
| 5/20/2014 | | 446,956 | 102,261 | 4,877 | 248,196 | 555,596 | 33,278 | 1,357,886 |
| 5/21/2014 | | 446,956 | 106,044 | 5,107 | 260,053 | 572,213 | 32,487 | 1,390,373 |
| 5/22/2014 | | 446,956 | 110,813 | 5,459 | 271,440 | 589,318 | 33,613 | 1,423,986 |
| 5/28/2014 | | 446,956 | 111,116 | 5,479 | 272,311 | 590,670 | 2,546 | 1,426,532 |
| 5/29/2014 | | 449,630 | 115,031 | 5,689 | 281,870 | 608,034 | 33,722 | 1,460,254 |
| 5/30/2014 | | 464,597 | 118,056 | 5,841 | 286,932 | 621,127 | 36,299 | 1,496,553 |
| 6/2/2014 | | 468,348 | 129,367 | 5,959 | 308,657 | 670,474 | 86,252 | 1,582,805 |
| 6/3/2014 | | 468,481 | 131,416 | 6,257 | 320,008 | 688,802 | 32,159 | 1,614,964 |
| 6/4/2014 | | 468,481 | 135,549 | 6,511 | 332,029 | 706,874 | 34,480 | 1,649,444 |
| 6/5/2014 | | 468,481 | 139,036 | 6,760 | 341,672 | 706,874 | 13,379 | 1,662,823 |
| 6/6/2014 | | 468,481 | 142,784 | 6,804 | 352,984 | 706,874 | 15,104 | 1,677,927 |
| 6/7/2014 | | 468,481 | 143,178 | 6,828 | 354,206 | 706,874 | 1,640 | 1,679,567 |
| 6/9/2014 | | 468,481 | 151,885 | 7,326 | 381,034 | 706,874 | 36,033 | 1,715,600 |
| 6/10/2014 | | 468,481 | 155,499 | 7,514 | 392,476 | 706,874 | 15,244 | 1,730,844 |
| 6/11/2014 | | 468,481 | 159,270 | 7,708 | 404,143 | 706,874 | 15,632 | 1,746,476 |
| 6/12/2014 | | 468,481 | 162,964 | 7,900 | 415,397 | 706,874 | 15,140 | 1,761,616 |
| 6/13/2014 | | 468,481 | 166,011 | 8,049 | 424,857 | 712,627 | 18,409 | 1,780,025 |
| 6/14/2014 | | 468,481 | 166,011 | 8,049 | 424,857 | 727,935 | 15,308 | 1,795,333 |
| 6/16/2014 | | 468,481 | 166,011 | 8,049 | 424,857 | 765,631 | 37,696 | 1,833,029 |
| 6/17/2014 | | 468,481 | 166,011 | 8,049 | 424,857 | 781,834 | 16,203 | 1,849,232 |
| 6/18/2014 | | 469,023 | 166,124 | 8,055 | 425,218 | 799,268 | 18,456 | 1,867,688 |
| 6/19/2014 | | 486,851 | 170,480 | 8,147 | 436,756 | 817,112 | 51,658 | 1,919,346 |
| 6/30/2014 | | 486,851 | 170,480 | 8,147 | 436,756 | 817,112 | 0 | 1,919,346 |

**Table 1**
**Extraction Well Pumped Water Volumes (gallons)**
**Third Site Superfund Site**
**Zionsville, Indiana**

| Date | Mode | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Period Total | Total Pumped |
|---|---|---|---|---|---|---|---|---|
| 7/21/2014 | Continuous Pumping (after repairs) | 487,566 | 170,975 | 8,157 | 438,088 | 820,186 | 5,626 | 1,924,972 |
| 7/22/2014 | | 489,596 | 174,143 | 8,162 | 444,588 | 839,231 | 30,748 | 1,955,720 |
| 7/23/2014 | | 504,172 | 177,270 | 8,164 | 448,373 | 858,011 | 40,270 | 1,995,990 |
| 7/24/2014 | | 520,453 | 181,466 | 8,167 | 452,675 | 880,134 | 46,905 | 2,042,895 |
| 7/28/2014 | | 522,419 | 182,374 | 8,170 | 454,595 | 885,401 | 10,064 | 2,052,959 |
| 7/29/2014 | | 536,955 | 185,828 | 8,173 | 457,850 | 905,446 | 41,293 | 2,094,252 |
| 7/30/2014 | | 551,425 | 189,107 | 8,177 | 460,224 | 925,483 | 40,164 | 2,134,416 |
| 7/31/2014 | | 565,311 | 192,178 | 8,179 | 462,333 | 944,628 | 38,213 | 2,172,629 |
| 8/1/2014 | | 578,311 | 194,986 | 8,182 | 463,998 | 962,406 | 35,254 | 2,207,883 |
| 8/4/2014 | | 620,588 | 203,703 | 8,186 | 468,611 | 1,019,901 | 113,106 | 2,320,989 |
| 8/5/2014 | | 633,372 | 206,266 | 8,188 | 469,641 | 1,037,239 | 33,717 | 2,354,706 |
| 8/6/2014 | | 646,730 | 208,932 | 8,191 | 470,865 | 1,055,334 | 35,346 | 2,390,052 |
| 8/7/2014 | | 659,903 | 211,529 | 8,193 | 472,038 | 1,073,416 | 35,027 | 2,425,079 |
| 8/11/2014 | | 711,032 | 221,427 | 8,197 | 475,815 | 1,142,939 | 134,331 | 2,559,410 |
| 8/12/2014 | | 723,966 | 224,162 | 8,201 | 477,966 | 1,160,500 | 35,385 | 2,594,795 |
| 8/13/2014 | | 736,619 | 227,214 | 8,203 | 479,649 | 1,177,706 | 34,596 | 2,629,391 |
| 8/14/2014 | | 749,429 | 230,736 | 8,206 | 481,102 | 1,195,083 | 35,165 | 2,664,556 |
| 8/15/2014 | | 761,993 | 233,036 | 8,209 | 481,878 | 1,212,843 | 33,403 | 2,697,959 |
| 8/18/2014 | | 799,865 | 242,618 | 8,213 | 485,972 | 1,265,928 | 104,637 | 2,802,596 |
| 8/19/2014 | | 812,610 | 245,553 | 8,216 | 487,310 | 1,284,070 | 35,163 | 2,837,759 |
| 8/20/2014 | | 825,318 | 248,420 | 8,220 | 488,935 | 1,302,104 | 35,238 | 2,872,997 |
| 8/21/2014 | | 837,706 | 251,188 | 8,223 | 490,833 | 1,319,171 | 34,124 | 2,907,121 |
| 8/22/2014 | | 850,512 | 254,346 | 8,226 | 494,398 | 1,337,288 | 37,649 | 2,944,770 |
| 8/25/2014 | | 888,764 | 262,590 | 8,235 | 503,202 | 1,395,825 | 113,846 | 3,058,616 |
| 8/26/2014 | | 898,879 | 264,859 | 8,238 | 505,102 | 1,403,554 | 22,016 | 3,080,632 |
| 8/27/2014 | | 914,327 | 268,120 | 8,241 | 508,020 | 1,429,087 | 47,163 | 3,127,795 |
| 8/28/2014 | | 927,140 | 270,723 | 8,243 | 509,792 | 1,448,894 | 36,997 | 3,164,792 |
| 9/2/2014 | | 986,690 | 281,865 | 8,249 | 518,382 | 1,542,506 | 172,900 | 3,337,692 |
| 9/3/2014 | | 989,099 | 284,473 | 8,250 | 524,266 | 1,564,037 | 32,433 | 3,370,125 |
| 9/5/2014 | | 1,016,119 | 289,284 | 8,251 | 526,996 | 1,606,858 | 77,383 | 3,447,508 |
| 9/8/2014 | | 1,052,927 | 296,135 | 8,251 | 531,284 | 1,664,705 | 105,800 | 3,553,308 |
| 9/9/2014 | | 1,065,480 | 297,955 | 8,253 | 532,110 | 1,680,748 | 31,238 | 3,584,546 |
| 9/10/2014 | | 1,079,591 | 300,367 | 8,253 | 538,976 | 1,702,328 | 44,969 | 3,629,515 |
| 9/11/2014 | | 1,094,399 | 303,758 | 8,255 | 550,495 | 1,722,286 | 49,678 | 3,679,193 |
| 9/12/2014 | | 1,108,430 | 307,915 | 8,255 | 562,011 | 1,741,337 | 48,755 | 3,727,948 |
| 9/15/2014 | | 1,149,511 | 309,208 | 8,255 | 592,739 | 1,798,608 | 130,373 | 3,858,321 |
| 9/16/2014 | | 1,163,135 | 312,812 | 8,257 | 602,618 | 1,817,784 | 46,285 | 3,904,606 |
| 9/17/2014 | | 1,173,643 | 315,225 | 8,257 | 609,749 | 1,832,824 | 35,092 | 3,939,698 |
| 9/19/2014 | | 1,173,908 | 315,292 | 8,258 | 609,929 | 1,833,079 | 768 | 3,940,466 |
| 9/22/2014 | | 1,188,779 | 318,799 | 8,259 | 620,028 | 1,852,370 | 47,769 | 3,988,235 |
| 9/24/2014 | | 1,192,577 | 320,591 | 8,263 | 625,383 | 1,861,878 | 20,457 | 4,008,692 |
| 9/25/2014 | | 1,208,195 | 323,894 | 8,263 | 635,029 | 1,883,484 | 50,173 | 4,058,865 |
| 9/26/2014 | | 1,222,222 | 326,443 | 8,263 | 643,721 | 1,904,818 | 46,602 | 4,105,467 |
| 9/29/2014 | | 1,262,953 | 334,881 | 8,263 | 669,356 | 1,962,677 | 132,663 | 4,238,130 |
| 9/30/2014 | | 1,275,320 | 337,256 | 8,263 | 676,555 | 1,990,058 | 49,322 | 4,287,452 |
| 10/2/2014 | | 1,301,283 | 338,478 | 8,263 | 691,425 | 2,016,277 | 68,274 | 4,355,726 |
| 10/6/2014 | | 1,301,283 | 339,478 | 8,263 | 694,162 | 2,021,300 | 8,760 | 4,364,486 |
| 10/7/2014 | | 1,304,901 | 342,859 | 8,263 | 705,343 | 2,042,117 | 38,997 | 4,403,483 |
| 10/9/2014 | | 1,334,050 | 349,887 | 8,264 | 725,084 | 2,084,827 | 98,629 | 4,502,112 |
| 10/10/2014 | | 1,348,496 | 353,572 | 8,265 | 735,333 | 2,105,786 | 49,340 | 4,551,452 |
| 10/13/2014 | | 1,394,036 | 361,337 | 8,270 | 768,672 | 2,170,423 | 151,286 | 4,702,738 |
| 10/14/2014 | | 1,410,240 | 365,837 | 8,272 | 780,037 | 2,191,291 | 52,939 | 4,755,677 |
| 10/15/2014 | | 1,425,561 | 370,067 | 8,273 | 790,287 | 2,209,922 | 48,433 | 4,804,110 |
| 10/16/2014 | | 1,425,683 | 371,168 | 8,275 | 793,060 | 2,214,920 | 8,996 | 4,813,106 |
| 10/17/2014 | | 1,427,275 | 375,249 | 8,277 | 803,880 | 2,234,595 | 36,170 | 4,849,276 |
| 10/20/2014 | | 1,466,116 | 376,939 | 8,282 | 830,824 | 2,284,421 | 117,306 | 4,966,582 |
| 10/21/2014 | | 1,466,311 | 376,960 | 8,288 | 830,849 | 2,284,783 | 609 | 4,967,191 |
| 10/22/2014 | | 1,468,828 | 377,621 | 8,292 | 832,650 | 2,287,771 | 7,971 | 4,975,162 |
| 10/23/2014 | | 1,485,156 | 380,821 | 8,293 | 843,916 | 2,308,461 | 51,485 | 5,026,647 |
| 10/26/2014 | | 1,529,344 | 385,102 | 8,294 | 876,769 | 2,368,674 | 141,536 | 5,168,183 |
| 10/28/2014 | | 1,563,007 | 390,109 | 8,296 | 902,287 | 2,416,820 | 112,336 | 5,280,519 |
| 10/29/2014 | | 1,577,768 | 393,430 | 8,297 | 913,117 | 2,437,840 | 49,933 | 5,330,452 |

**Table 1**
**Extraction Well Pumped Water Volumes (gallons)**
**Third Site Superfund Site**
**Zionsville, Indiana**

| Date | Mode | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Period Total | Total Pumped |
|---|---|---|---|---|---|---|---|---|
| 11/3/2014 | Continuous Pumping (after repairs) | 1,653,355 | 398,967 | 8,302 | 970,772 | 2,525,731 | 226,675 | 5,575,779 |
| 11/4/2014 | | 1,668,599 | 403,083 | 8,305 | 981,426 | 2,543,202 | 47,488 | 5,623,267 |
| 11/5/2014 | | 1,683,530 | 407,106 | 8,307 | 991,853 | 2,560,334 | 46,515 | 5,669,782 |
| 11/6/2014 | | 1,698,502 | 411,163 | 8,312 | 1,002,508 | 2,577,446 | 46,801 | 5,716,853 |
| 11/7/2014 | | 1,710,972 | 411,653 | 8,315 | 1,012,313 | 2,591,089 | 36,411 | 5,752,994 |
| 11/10/2014 | | 1,755,586 | 424,510 | 8,320 | 1,048,554 | 2,591,089 | 93,717 | 5,846,711 |
| 11/11/2014 | | 1,773,646 | 428,561 | 8,329 | 1,058,543 | 2,591,089 | 32,109 | 5,878,820 |
| 11/12/2014 | | 1,788,705 | 432,550 | 8,337 | 1,068,624 | 2,591,089 | 29,137 | 5,907,957 |
| 11/14/2014 | | 1,799,126 | 435,243 | 8,344 | 1,075,181 | 2,594,100 | 22,689 | 5,930,646 |
| 11/15/2014 | | 1,812,811 | 436,181 | 8,355 | 1,083,444 | 2,611,700 | 40,497 | 5,971,143 |
| 11/17/2014 | | 1,846,390 | 444,580 | 8,393 | 1,102,406 | 2,658,818 | 108,096 | 6,079,239 |
| 11/18/2014 | | 1,860,639 | 448,070 | 8,411 | 1,109,985 | 2,679,174 | 45,692 | 6,124,931 |
| 11/19/2014 | | 1,876,696 | 452,008 | 8,435 | 1,118,100 | 2,702,129 | 51,089 | 6,176,020 |
| 11/20/2014 | | 1,891,459 | 455,585 | 8,460 | 1,125,323 | 2,723,223 | 46,682 | 6,222,702 |
| 11/21/2014 | | 1,906,792 | 459,249 | 8,489 | 1,132,735 | 2,741,155 | 44,370 | 6,267,072 |
| 11/24/2014 | | 1,956,522 | 472,431 | 8,532 | 1,160,927 | 2,747,848 | 97,840 | 6,364,912 |
| 11/25/2014 | | 1,960,492 | 477,256 | 8,596 | 1,171,951 | 2,749,516 | 21,551 | 6,386,463 |
| 11/29/2014 | | 2,029,758 | 493,667 | 8,660 | 1,213,443 | 2,749,695 | 127,412 | 6,513,875 |
| 12/1/2014 | | 2,061,954 | 501,720 | 8,683 | 1,235,192 | 2,753,416 | 65,742 | 6,579,617 |
| 12/2/2014 | | 2,078,343 | 505,819 | 8,699 | 1,246,140 | 2,753,416 | 31,452 | 6,611,069 |
| 12/3/2014 | | 2,094,393 | 509,865 | 8,708 | 1,257,054 | 2,754,560 | 32,163 | 6,643,232 |
| 12/6/2014 | | 2,137,140 | 521,158 | 8,835 | 1,285,333 | 2,813,536 | 141,422 | 6,784,654 |
| 12/8/2014 | | 2,137,140 | 531,073 | 8,902 | 1,308,328 | 2,813,536 | 32,977 | 6,817,631 |
| 12/9/2014 | | 2,137,140 | 535,794 | 8,959 | 1,319,109 | 2,813,536 | 15,559 | 6,833,190 |
| 12/10/2014 | | 2,137,140 | 539,845 | 9,010 | 1,329,883 | 2,813,536 | 14,876 | 6,848,066 |
| 12/11/2014 | | 2,140,867 | 543,998 | 9,030 | 1,340,280 | 2,817,624 | 22,385 | 6,870,451 |
| 12/12/2014 | | 2,146,885 | 545,483 | 9,037 | 1,344,041 | 2,825,143 | 18,790 | 6,889,241 |
| 12/15/2014 | | 2,148,124 | 545,808 | 9,045 | 1,344,797 | 2,835,143 | 12,328 | 6,901,569 |
| 12/17/2014 | | 2,164,794 | 547,939 | 9,107 | 1,355,691 | 2,835,173 | 29,787 | 6,931,356 |
| 12/20/2014 | | 2,207,904 | 558,627 | 9,176 | 1,385,463 | 2,887,379 | 135,845 | 7,067,201 |
| 12/23/2014 | | 2,253,781 | 569,926 | 9,265 | 1,413,963 | 2,915,029 | 113,415 | 7,180,616 |
| 12/27/2014 | | 2,320,263 | 587,024 | 9,518 | 1,477,097 | 3,002,619 | 234,557 | 7,415,173 |
| 12/29/2014 | | 2,324,212 | 595,814 | 9,639 | 1,480,166 | 3,002,619 | 15,929 | 7,431,102 |
| 12/31/2014 | | 2,326,471 | 602,960 | 9,657 | 1,499,271 | 3,002,619 | 28,528 | 7,459,630 |
| 1/2/2015 | | 2,330,692 | 611,184 | 9,738 | 1,521,689 | 3,047,503 | 79,828 | 7,539,458 |
| 1/5/2015 | | 2,370,659 | 624,832 | 9,783 | 1,554,727 | 3,114,112 | 153,307 | 7,692,765 |
| 1/6/2015 | | 2,383,891 | 629,271 | 9,818 | 1,565,754 | 3,136,164 | 50,785 | 7,743,550 |
| 1/7/2015 | | 2,396,686 | 633,359 | 9,873 | 1,576,401 | 3,157,491 | 48,912 | 7,792,462 |
| 1/8/2015 | | 2,409,438 | 637,462 | 9,889 | 1,587,027 | 3,178,744 | 48,750 | 7,841,212 |
| 1/9/2015 | | 2,421,035 | 638,942 | 9,915 | 1,596,646 | 3,198,076 | 42,054 | 7,883,266 |
| 1/12/2015 | | 2,447,915 | 651,165 | 9,944 | 1,627,552 | 3,261,348 | 133,310 | 8,016,576 |
| 1/13/2015 | | 2,447,915 | 651,165 | 9,944 | 1,627,552 | 3,261,348 | 0 | 8,016,576 |
| 1/14/2015 | | 2,447,915 | 655,468 | 9,998 | 1,637,487 | 3,261,348 | 14,292 | 8,030,868 |
| 1/15/2015 | | 2,447,915 | 659,923 | 10,054 | 1,648,386 | 3,261,348 | 15,410 | 8,046,278 |
| 1/16/2015 | | 2,447,915 | 664,193 | 10,247 | 1,659,085 | 3,261,348 | 15,162 | 8,061,440 |
| 1/19/2015 | | 2,449,055 | 677,918 | 11,055 | 1,691,271 | 3,263,557 | 50,068 | 8,111,508 |
| 1/20/2015 | | 2,457,606 | 682,690 | 11,307 | 1,701,964 | 3,280,667 | 41,378 | 8,152,886 |
| 1/21/2015 | | 2,466,314 | 687,584 | 11,560 | 1,712,844 | 3,298,075 | 42,143 | 8,195,029 |
| 1/22/2015 | | 2,474,949 | 692,308 | 11,870 | 1,723,639 | 3,315,346 | 41,735 | 8,236,764 |
| 1/23/2015 | | 2,483,469 | 696,739 | 12,045 | 1,734,288 | 3,332,387 | 40,816 | 8,277,580 |
| 1/26/2015 | | 2,508,015 | 708,930 | 12,704 | 1,765,050 | 3,381,473 | 117,244 | 8,394,824 |
| 1/27/2015 | | 2,516,499 | 713,230 | 12,928 | 1,775,655 | 3,398,441 | 40,581 | 8,435,405 |
| 1/28/2015 | | 2,523,802 | 715,662 | 13,124 | 1,784,800 | 3,413,047 | 33,682 | 8,469,087 |
| 1/30/2015 | | 2,541,192 | 724,599 | 13,570 | 1,806,043 | 3,447,821 | 82,790 | 8,551,877 |
| 2/2/2015 | | 2,566,228 | 737,373 | 14,203 | 1,836,102 | 3,497,891 | 118,572 | 8,670,449 |
| 2/3/2015 | | 2,575,418 | 742,050 | 14,432 | 1,846,489 | 3,516,272 | 42,864 | 8,713,313 |
| 2/4/2015 | | 2,584,178 | 746,649 | 14,650 | 1,856,139 | 3,533,796 | 40,751 | 8,754,064 |
| 2/5/2015 | | 2,592,478 | 750,991 | 14,856 | 1,865,385 | 3,550,393 | 38,691 | 8,792,755 |
| 2/6/2015 | | 2,599,969 | 754,699 | 15,045 | 1,873,561 | 3,565,380 | 34,551 | 8,827,306 |
| 2/10/2015 | | 2,620,549 | 774,282 | 15,989 | 1,915,932 | 3,636,501 | 154,599 | 8,981,905 |
| 2/11/2015 | | 2,624,924 | 779,472 | 16,209 | 1,926,866 | 3,653,999 | 38,217 | 9,020,122 |
| 2/13/2015 | | 2,633,622 | 784,027 | 16,598 | 1,948,555 | 3,685,516 | 66,848 | 9,086,970 |
| 2/14/2015 | | 2,637,270 | 784,027 | 16,765 | 1,957,425 | 3,696,162 | 23,331 | 9,110,301 |
| 2/16/2015 | | 2,646,407 | 784,027 | 17,199 | 1,980,077 | 3,723,875 | 59,936 | 9,170,237 |
| 2/17/2015 | | 2,650,309 | 784,027 | 17,364 | 1,989,348 | 3,735,578 | 25,041 | 9,195,278 |
| 2/18/2015 | | 2,655,076 | 784,027 | 17,589 | 2,000,259 | 3,749,879 | 30,204 | 9,225,482 |
| 2/19/2015 | | 2,659,271 | 784,027 | 17,772 | 2,009,403 | 3,762,462 | 26,105 | 9,251,587 |
| 2/23/2015 | | 2,663,008 | 784,027 | 18,564 | 2,045,192 | 3,814,026 | 91,882 | 9,343,469 |
| 2/24/2015 | | 2,663,008 | 784,027 | 18,709 | 2,051,198 | 3,823,036 | 15,161 | 9,358,630 |
| 2/25/2015 | | 173 | 0 | 4 | 522 | 601 | 1,300 | 9,359,930 |

**Table 1**
**Extraction Well Pumped Water Volumes (gallons)**
**Third Site Superfund Site**
**Zionsville, Indiana**

| Date | Mode | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Period Total | Total Pumped |
|---|---|---|---|---|---|---|---|---|
| 4/2/2015 | Continuous Pumping (after repairs and electrical shutdown) | 5,774 | 1,843 | 69 | 3,961 | 5,090 | 15,437 | 9,375,367 |
| 4/3/2015 | | 13,304 | 7,621 | 307 | 14,550 | 5,090 | 24,135 | 9,399,502 |
| 4/6/2015 | | 63,319 | 25,009 | 961 | 45,840 | 8,243 | 102,500 | 9,502,002 |
| 4/7/2015 | | 75,247 | 29,457 | 1,128 | 53,677 | 20,790 | 36,927 | 9,538,929 |
| 4/8/2015 | | 92,049 | 35,469 | 1,372 | 64,429 | 38,177 | 51,197 | 9,590,126 |
| 4/9/2015 | | 114,017 | 41,611 | 1,776 | 75,656 | 55,544 | 57,108 | 9,647,234 |
| 4/10/2015 | | 135,835 | 47,571 | 2,170 | 86,657 | 72,383 | 56,012 | 9,703,246 |
| 4/13/2015 | | 186,784 | 64,404 | 2,948 | 117,955 | 72,383 | 99,858 | 9,803,104 |
| 4/15/2015 | | 218,132 | 75,670 | 3,387 | 138,700 | 72,383 | 63,798 | 9,866,902 |
| 4/16/2015 | | 234,233 | 81,423 | 3,621 | 149,330 | 72,383 | 32,718 | 9,899,620 |
| 4/17/2015 | | 249,166 | 86,531 | 3,844 | 158,810 | 72,383 | 29,744 | 9,929,364 |
| 4/20/2015 | | 300,838 | 103,693 | 4,690 | 190,922 | 72,383 | 101,792 | 10,031,156 |
| 4/21/2015 | | 317,728 | 109,576 | 5,017 | 202,112 | 72,383 | 34,290 | 10,065,446 |
| 4/22/2015 | | 335,700 | 114,983 | 5,274 | 212,398 | 72,383 | 33,922 | 10,099,368 |
| 4/23/2015 | | 352,627 | 120,453 | 5,521 | 222,815 | 72,383 | 33,061 | 10,132,429 |
| 4/24/2015 | | 369,471 | 125,967 | 5,763 | 233,548 | 72,383 | 33,333 | 10,165,762 |
| 4/27/2015 | | 420,049 | 125,967 | 6,550 | 233,548 | 76,078 | 55,060 | 10,220,822 |
| 4/28/2015 | | 436,826 | 126,426 | 6,806 | 234,409 | 93,613 | 35,888 | 10,256,710 |
| 4/29/2015 | | 452,525 | 131,914 | 7,037 | 242,937 | 110,359 | 46,692 | 10,303,402 |
| 4/30/2015 | | 467,708 | 137,129 | 7,267 | 242,937 | 126,438 | 36,707 | 10,340,109 |
| 5/1/2015 | | 480,773 | 141,652 | 7,464 | 242,937 | 140,111 | 31,458 | 10,371,567 |
| 5/4/2015 | | 530,619 | 158,811 | 8,194 | 242,937 | 190,687 | 118,311 | 10,489,878 |
| 5/5/2015 | | 545,469 | 163,746 | 8,455 | 242,937 | 205,100 | 34,459 | 10,524,337 |
| 5/6/2015 | | 561,777 | 169,121 | 8,733 | 242,937 | 221,273 | 38,134 | 10,562,471 |
| 5/7/2015 | | 575,221 | 173,682 | 8,951 | 242,937 | 234,958 | 31,908 | 10,594,379 |
| 5/8/2015 | | 591,677 | 179,428 | 9,217 | 243,534 | 252,091 | 40,198 | 10,634,577 |
| 5/11/2015 | | 632,420 | 194,736 | 9,860 | 274,092 | 296,485 | 131,646 | 10,766,223 |
| 5/12/2015 | | 645,389 | 199,763 | 10,075 | 284,360 | 311,077 | 43,071 | 10,809,294 |
| 5/13/2015 | | 657,955 | 204,570 | 10,292 | 294,506 | 325,494 | 42,153 | 10,851,447 |
| 5/14/2015 | | 670,674 | 209,773 | 10,520 | 305,490 | 340,703 | 44,343 | 10,895,790 |
| 5/18/2015 | | 708,339 | 225,368 | 11,248 | 338,410 | 385,166 | 131,371 | 11,027,161 |
| 5/31/2015 | | 708,339 | 225,368 | 11,248 | 338,410 | 385,166 | 0 | 11,027,161 |
| 6/3/2015 | | 708,339 | 225,368 | 11,248 | 338,410 | 385,166 | 0 | 11,027,161 |
| 6/5/2015 | | 708,339 | 225,368 | 11,248 | 338,410 | 385,166 | 0 | 11,027,161 |
| 6/8/2015 | | 708,339 | 225,368 | 11,248 | 338,410 | 385,166 | 0 | 11,027,161 |
| 6/9/2015 | | 724,086 | 230,721 | 11,621 | 349,368 | 388,949 | 36,214 | 11,063,375 |
| 6/10/2015 | | 738,682 | 235,667 | 11,831 | 359,809 | 404,884 | 46,128 | 11,109,503 |
| 6/11/2015 | | 752,491 | 240,446 | 11,831 | 369,900 | 420,285 | 44,080 | 11,153,583 |
| 6/12/2015 | | 766,256 | 245,211 | 11,831 | 379,958 | 435,420 | 43,723 | 11,197,306 |
| 6/15/2015 | | 806,249 | 259,237 | 11,831 | 410,401 | 480,320 | 129,362 | 11,326,668 |
| 6/16/2015 | | 819,188 | 263,918 | 11,831 | 420,644 | 495,413 | 42,956 | 11,369,624 |
| 6/18/2015 | | 844,748 | 273,472 | 11,831 | 440,879 | 524,534 | 84,470 | 11,454,094 |
| 6/19/2015 | | 857,133 | 278,048 | 11,850 | 450,796 | 538,980 | 41,343 | 11,495,437 |
| 6/22/2015 | | 869,689 | 282,805 | 11,871 | 460,978 | 553,106 | 41,642 | 11,537,079 |
| 6/23/2015 | | 883,318 | 287,868 | 12,167 | 471,667 | 553,418 | 29,989 | 11,567,068 |
| 6/24/2015 | | 892,699 | 291,387 | 12,347 | 479,095 | 553,536 | 20,626 | 11,587,694 |
| 6/25/2015 | | 907,736 | 297,021 | 12,623 | 490,998 | 553,537 | 32,851 | 11,620,545 |
| 6/26/2015 | | 919,912 | 301,602 | 12,875 | 500,670 | 553,537 | 26,681 | 11,647,226 |
| 6/29/2015 | | 958,944 | 316,384 | 14,043 | 532,852 | 553,537 | 87,164 | 11,734,390 |
| 6/30/2015 | | 970,263 | 320,245 | 14,268 | 542,113 | 553,537 | 24,666 | 11,759,056 |
| 7/1/2015 | | 981,513 | 320,509 | 14,493 | 552,054 | 553,537 | 21,680 | 11,780,736 |
| 7/2/2015 | | 991,960 | 324,215 | 14,696 | 561,471 | 553,537 | 23,773 | 11,804,509 |
| 7/6/2015 | | 1,033,125 | 324,899 | 15,452 | 600,439 | 553,537 | 81,573 | 11,886,082 |
| 7/7/2015 | | 1,042,281 | 329,014 | 15,619 | 609,384 | 553,537 | 22,383 | 11,908,465 |
| 7/8/2015 | | 1,045,557 | 329,249 | 15,842 | 611,023 | 562,837 | 14,673 | 11,923,138 |
| 7/9/2015 | | 1,061,384 | 329,459 | 16,135 | 619,952 | 570,533 | 32,955 | 11,956,093 |
| 7/10/2015 | | 1,075,640 | 332,514 | 16,384 | 628,140 | 589,978 | 45,193 | 12,001,286 |
| 7/11/2015 | | 1,086,276 | 334,531 | 16,552 | 634,640 | 605,123 | 34,466 | 12,035,752 |
| 7/13/2015 | | 1,098,886 | 340,655 | 17,155 | 644,250 | 647,505 | 71,329 | 12,107,081 |
| 7/14/2015 | | 1,118,499 | 343,489 | 17,629 | 653,475 | 657,313 | 41,954 | 12,149,035 |
| 7/15/2015 | | 1,134,712 | 346,218 | 17,865 | 658,509 | 670,409 | 37,308 | 12,186,343 |
| 7/16/2015 | | 1,142,627 | 347,613 | 17,969 | 661,139 | 677,273 | 18,908 | 12,205,251 |
| 7/17/2015 | | 1,146,547 | 348,297 | 18,014 | 662,466 | 680,722 | 9,425 | 12,214,676 |
| 7/20/2015 | | 1,182,894 | 354,637 | 18,460 | 676,326 | 716,764 | 93,035 | 12,307,711 |
| 7/21/2015 | | 1,195,877 | 356,914 | 18,606 | 681,604 | 730,492 | 34,412 | 12,342,123 |
| 7/22/2015 | | 1,209,108 | 359,133 | 18,739 | 687,115 | 744,834 | 35,436 | 12,377,559 |
| 7/23/2015 | | 1,221,870 | 361,243 | 18,863 | 692,549 | 758,975 | 34,571 | 12,412,130 |
| 7/24/2015 | | 1,235,034 | 363,406 | 18,987 | 698,271 | 773,869 | 36,067 | 12,448,197 |
| 7/27/2015 | | 1,273,083 | 369,966 | 19,441 | 714,029 | 814,894 | 101,846 | 12,550,043 |
| 7/28/2015 | | 1,286,404 | 372,323 | 19,600 | 719,179 | 828,479 | 34,572 | 12,584,615 |
| 7/29/2015 | | 1,299,525 | 374,555 | 19,740 | 724,578 | 843,608 | 36,021 | 12,620,636 |
| 7/30/2015 | | 1,311,154 | 376,491 | 19,858 | 729,527 | 857,473 | 32,497 | 12,653,133 |
| 7/31/2015 | | 1,324,764 | 378,663 | 19,987 | 735,388 | 873,461 | 37,760 | 12,690,893 |

**Table 1**
**Extraction Well Pumped Water Volumes (gallons)**
**Third Site Superfund Site**
**Zionsville, Indiana**

| Date | Mode | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Period Total | Total Pumped |
|---|---|---|---|---|---|---|---|---|
| 8/3/2015 | Continous pumping | 1,362,033 | 384,066 | 20,357 | 751,571 | 915,604 | 101,368 | 12,792,261 |
| 8/4/2015 | | 1,374,176 | 385,728 | 20,479 | 756,888 | 929,441 | 33,081 | 12,825,342 |
| 8/5/2015 | | 1,386,356 | 387,409 | 20,603 | 762,287 | 943,499 | 33,442 | 12,858,784 |
| 8/6/2015 | | 1,398,287 | 389,118 | 20,721 | 767,652 | 957,461 | 33,085 | 12,891,869 |
| 8/7/2015 | | 1,410,376 | 390,960 | 20,853 | 773,075 | 971,577 | 33,602 | 12,925,471 |
| 8/10/2015 | | 1,446,825 | 396,281 | 21,230 | 788,964 | 1,012,935 | 99,394 | 13,024,865 |
| 8/11/2015 | | 1,458,912 | 398,206 | 21,365 | 794,532 | 1,027,463 | 34,243 | 13,059,108 |
| 8/12/2015 | | 1,460,275 | 399,924 | 21,499 | 799,759 | 1,041,926 | 22,905 | 13,082,013 |
| 8/14/2015 | | 1,485,461 | 402,940 | 21,714 | 809,511 | 1,069,913 | 66,156 | 13,148,169 |
| 8/18/2015 | | 1,538,668 | 408,957 | 22,198 | 831,929 | 1,131,958 | 144,171 | 13,292,340 |
| 8/19/2015 | | 1,551,434 | 410,396 | 22,318 | 837,277 | 1,146,942 | 34,657 | 13,326,997 |
| 8/20/2015 | | 1,561,362 | 411,533 | 22,417 | 841,416 | 1,158,619 | 26,980 | 13,353,977 |
| 8/21/2015 | | 1,562,606 | 411,617 | 22,428 | 841,779 | 1,172,468 | 15,551 | 13,369,528 |
| 8/24/2015 | | 1,603,571 | 413,339 | 22,775 | 857,880 | 1,217,576 | 104,243 | 13,473,771 |
| 8/25/2015 | | 1,614,118 | 413,962 | 22,878 | 863,322 | 1,232,824 | 31,963 | 13,505,734 |
| 8/26/2015 | | 1,630,717 | 413,968 | 22,980 | 868,737 | 1,247,997 | 37,295 | 13,543,029 |
| 8/27/2015 | | 1,643,488 | 413,978 | 23,083 | 873,842 | 1,262,307 | 32,299 | 13,575,328 |
| 8/28/2015 | | 1,656,784 | 414,279 | 23,208 | 879,352 | 1,277,710 | 34,635 | 13,609,963 |
| 8/31/2015 | | 1,698,873 | 418,507 | 23,413 | 895,510 | 1,318,579 | 103,549 | 13,713,512 |
| 9/1/2015 | | 1,712,295 | 419,586 | 23,481 | 900,769 | 1,331,206 | 32,455 | 13,745,967 |
| 9/2/2015 | | 1,726,002 | 420,620 | 23,553 | 906,202 | 1,346,429 | 35,469 | 13,781,436 |
| 9/3/2015 | | 1,739,731 | 421,569 | 23,686 | 911,717 | 1,361,870 | 35,767 | 13,817,203 |
| 9/8/2015 | | 1,805,167 | 424,637 | 24,203 | 938,474 | 1,429,583 | 163,491 | 13,980,694 |
| 9/9/2015 | | 1,818,302 | 425,031 | 24,230 | 943,794 | 1,444,477 | 33,770 | 14,014,464 |
| 9/11/2015 | | 1,845,790 | 426,201 | 24,491 | 954,432 | 1,474,268 | 69,348 | 14,083,812 |
| 9/14/2015 | | 1,890,951 | 427,592 | 24,887 | 970,619 | 1,519,591 | 108,458 | 14,192,270 |
| 9/15/2015 | | 1,901,395 | 427,963 | 25,017 | 976,096 | 1,534,926 | 31,757 | 14,224,027 |
| 9/16/2015 | | 1,903,646 | 429,197 | 25,077 | 980,382 | 1,546,919 | 19,824 | 14,243,851 |
| 9/17/2015 | | 1,906,834 | 429,555 | 25,077 | 981,518 | 1,550,085 | 7,848 | 14,251,699 |
| 9/18/2015 | | 1,909,069 | 429,958 | 25,077 | 982,750 | 1,553,532 | 7,317 | 14,259,016 |
| 9/21/2015 | | 1,950,671 | 436,553 | 25,077 | 997,589 | 1,594,820 | 104,324 | 14,363,340 |
| 9/22/2015 | | 1,953,924 | 437,135 | 25,099 | 998,839 | 1,598,100 | 8,387 | 14,371,727 |
| 9/23/2015 | | 1,957,783 | 437,656 | 25,130 | 1,000,027 | 1,601,103 | 8,602 | 14,380,329 |
| 9/24/2015 | | 1,963,132 | 438,476 | 25,147 | 1,001,949 | 1,606,419 | 13,424 | 14,393,753 |
| 9/25/2015 | | 1,966,364 | 438,969 | 25,163 | 1,003,100 | 1,609,619 | 8,092 | 14,401,845 |
| 9/28/2015 | | 1,973,377 | 439,569 | 25,186 | 1,003,397 | 1,616,572 | 14,886 | 14,416,731 |
| 9/29/2015 | | 1,986,727 | 439,774 | 25,225 | 1,010,568 | 1,628,055 | 32,248 | 14,448,979 |
| 9/30/2015 | | 1,991,100 | 440,300 | 25,243 | 1,011,326 | 1,632,295 | 9,915 | 14,458,894 |
| 10/1/2015 | | 2,007,209 | 442,103 | 25,249 | 1,011,326 | 1,646,437 | 32,060 | 14,490,954 |
| 10/2/2015 | | 2,024,298 | 444,061 | 25,285 | 1,011,494 | 1,661,389 | 34,203 | 14,525,157 |
| 10/5/2015 | | 2,026,419 | 444,367 | 25,295 | 1,012,149 | 1,663,218 | 4,921 | 14,530,078 |
| 10/6/2015 | | 2,027,968 | 444,631 | 25,305 | 1,012,613 | 1,664,505 | 3,574 | 14,533,652 |
| 10/7/2015 | | 2,029,708 | 444,915 | 25,316 | 1,013,107 | 1,665,978 | 4,002 | 14,537,654 |
| 10/8/2015 | | 2,033,891 | 445,576 | 25,340 | 1,014,425 | 1,669,508 | 9,716 | 14,547,370 |
| 10/9/2015 | | 2,035,635 | 445,881 | 25,350 | 1,015,012 | 1,670,891 | 4,029 | 14,551,399 |
| 10/12/2015 | | 2,038,458 | 446,086 | 25,354 | 1,015,857 | 1,673,083 | 6,069 | 14,557,468 |
| 10/14/2015 | | 2,061,496 | 448,966 | 25,451 | 1,021,616 | 1,697,197 | 55,888 | 14,613,356 |
| 10/16/2015 | | 2,089,821 | 452,507 | 25,548 | 1,028,699 | 1,725,532 | 67,381 | 14,680,737 |
| 10/19/2015 | | 2,128,309 | 457,317 | 25,577 | 1,038,319 | 1,764,011 | 91,426 | 14,772,163 |
| 10/20/2015 | | 2,141,025 | 458,907 | 25,591 | 1,041,499 | 1,776,728 | 30,217 | 14,802,380 |
| 10/21/2015 | | 2,153,485 | 460,442 | 25,628 | 1,044,870 | 1,788,646 | 29,321 | 14,831,701 |
| 10/22/2015 | | 2,154,574 | 460,614 | 25,633 | 1,045,303 | 1,789,642 | 2,695 | 14,834,396 |
| 10/23/2015 | | 2,165,360 | 462,411 | 25,666 | 1,048,003 | 1,800,428 | 26,102 | 14,860,498 |
| 10/26/2015 | | 2,201,279 | 468,356 | 25,760 | 1,059,777 | 1,836,327 | 89,631 | 14,950,129 |
| 10/27/2015 | | 2,212,645 | 470,254 | 25,794 | 1,063,593 | 1,847,689 | 28,476 | 14,978,605 |
| 10/28/2015 | | 2,215,767 | 470,772 | 25,807 | 1,064,630 | 1,850,801 | 7,802 | 14,986,407 |
| 10/29/2015 | | 2,229,343 | 473,035 | 25,846 | 1,069,155 | 1,864,379 | 33,981 | 15,020,388 |
| 10/30/2015 | | 2,242,599 | 475,244 | 25,846 | 1,073,574 | 1,877,636 | 33,141 | 15,053,529 |
| 11/3/2015 | | 2,294,828 | 483,949 | 25,911 | 1,090,984 | 1,929,863 | 130,636 | 15,184,165 |
| 11/4/2015 | | 2,300,765 | 484,936 | 25,945 | 1,092,957 | 1,935,782 | 14,850 | 15,199,015 |
| 11/6/2015 | | 2,305,593 | 485,790 | 25,971 | 1,094,561 | 1,940,400 | 11,930 | 15,210,945 |
| 11/9/2015 | | 2,333,166 | 491,530 | 26,135 | 1,103,745 | 1,963,602 | 65,863 | 15,276,808 |
| 11/10/2015 | | 2,339,612 | 492,869 | 26,175 | 1,105,888 | 1,968,960 | 15,326 | 15,292,134 |
| 11/11/2015 | | 2,348,661 | 495,440 | 26,276 | 1,110,002 | 1,979,246 | 26,121 | 15,318,255 |
| 11/12/2015 | | 2,351,101 | 498,007 | 26,365 | 1,114,108 | 1,989,511 | 19,467 | 15,337,722 |
| 11/16/2015 | | 2,396,882 | 507,586 | 26,780 | 1,129,433 | 2,027,824 | 109,413 | 15,447,135 |
| 11/17/2015 | | 2,402,257 | 509,058 | 26,872 | 1,131,788 | 2,033,686 | 15,156 | 15,462,291 |
| 11/18/2015 | | 2,413,081 | 511,693 | 27,007 | 1,136,005 | 2,044,230 | 28,355 | 15,490,646 |
| 11/19/2015 | | 2,421,886 | 514,445 | 27,155 | 1,140,408 | 2,055,236 | 27,114 | 15,517,760 |
| 11/20/2015 | | 2,429,170 | 516,721 | 27,277 | 1,144,049 | 2,064,340 | 22,427 | 15,540,187 |
| 11/23/2015 | | 2,456,260 | 525,386 | 27,736 | 1,157,621 | 2,097,904 | 83,350 | 15,623,537 |
| 11/24/2015 | | 2,464,616 | 528,500 | 27,890 | 1,161,773 | 2,106,208 | 24,080 | 15,647,617 |
| 11/25/2015 | | 2,473,299 | 531,756 | 28,061 | 1,166,114 | 2,114,890 | 25,133 | 15,672,750 |
| 11/30/2015 | | 2,477,437 | 533,303 | 28,140 | 1,168,177 | 2,119,012 | 11,949 | 15,684,699 |

**Table 1**
**Extraction Well Pumped Water Volumes (gallons)**
**Third Site Superfund Site**
**Zionsville, Indiana**

| Date | Mode | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Period Total | Total Pumped |
|---|---|---|---|---|---|---|---|---|
| 12/10/2015 | Continuous pumping | 2,478,261 | 533,491 | 28,145 | 1,168,307 | 2,119,461 | 1,596 | 15,686,295 |
| 12/11/2015 | | 2,493,059 | 539,392 | 28,261 | 1,172,423 | 2,131,819 | 37,289 | 15,723,584 |
| 12/14/2015 | | 2,535,690 | 554,904 | 28,787 | 1,185,495 | 2,171,081 | 111,003 | 15,834,587 |
| 12/15/2015 | | 2,549,380 | 559,558 | 28,961 | 1,189,671 | 2,183,616 | 35,229 | 15,869,816 |
| 12/16/2015 | | 2,563,401 | 564,285 | 29,141 | 1,193,932 | 2,196,419 | 35,992 | 15,905,808 |
| 12/17/2015 | | 2,577,713 | 569,016 | 29,332 | 1,198,296 | 2,209,513 | 36,692 | 15,942,500 |
| 12/18/2015 | | 2,591,983 | 573,877 | 29,524 | 1,202,658 | 2,222,624 | 36,796 | 15,979,296 |
| 12/22/2015 | | 2,599,539 | 576,747 | 29,639 | 1,204,852 | 2,228,376 | 18,487 | 15,997,783 |
| 12/23/2015 | | 2,616,138 | 583,652 | 29,865 | 1,209,504 | 2,242,218 | 42,224 | 16,040,007 |
| 12/28/2015 | | 2,710,500 | 614,406 | 31,810 | 1,229,974 | 2,297,721 | 203,034 | 16,243,041 |
| 12/30/2015 | | 2,712,219 | 614,842 | 31,886 | 1,230,266 | 2,298,305 | 3,107 | 16,246,148 |
| 1/4/2016 | | 2,803,793 | 647,709 | 33,470 | 1,252,175 | 2,342,128 | 191,757 | 16,437,905 |
| 1/5/2016 | | 2,819,118 | 654,184 | 33,720 | 1,256,492 | 2,350,762 | 35,001 | 16,472,906 |
| 1/6/2016 | | 2,834,150 | 660,670 | 33,955 | 1,260,815 | 2,358,041 | 33,355 | 16,506,261 |
| 1/7/2016 | | 2,847,967 | 666,766 | 34,173 | 1,264,883 | 2,358,433 | 24,591 | 16,530,852 |
| 1/8/2016 | | 2,850,029 | 669,465 | 34,282 | 1,266,678 | 2,365,065 | 13,297 | 16,544,149 |
| 1/11/2016 | | 2,899,105 | 689,377 | 35,184 | 1,279,951 | 2,404,888 | 122,986 | 16,667,135 |
| 1/12/2016 | | 2,915,168 | 695,846 | 35,444 | 1,284,264 | 2,417,825 | 40,042 | 16,707,177 |
| 1/13/2016 | | 2,926,893 | 702,230 | 35,688 | 1,288,520 | 2,430,595 | 35,379 | 16,742,556 |
| 1/14/2016 | | 2,945,100 | 708,713 | 35,936 | 1,292,839 | 2,443,561 | 42,223 | 16,784,779 |
| 1/15/2016 | | 2,959,962 | 715,079 | 36,178 | 1,297,082 | 2,456,291 | 38,443 | 16,823,222 |
| 1/16/2016 | | 2,974,107 | 720,609 | 36,454 | 1,300,769 | 2,467,351 | 34,698 | 16,857,920 |
| 1/18/2016 | | 3,009,383 | 733,489 | 37,047 | 1,310,047 | 2,495,197 | 85,873 | 16,943,793 |
| 1/19/2016 | | 3,025,105 | 738,894 | 37,318 | 1,314,367 | 2,508,157 | 38,678 | 16,982,471 |
| 1/20/2016 | | 3,040,222 | 744,173 | 37,558 | 1,318,609 | 2,520,884 | 37,605 | 17,020,076 |
| 1/21/2016 | | 3,055,734 | 749,563 | 37,800 | 1,323,002 | 2,534,083 | 38,736 | 17,058,812 |
| 1/22/2016 | | 3,070,624 | 755,138 | 38,028 | 1,327,244 | 2,548,093 | 38,945 | 17,097,757 |
| 1/25/2016 | | 3,111,558 | 769,672 | 38,690 | 1,340,036 | 2,588,070 | 108,899 | 17,206,656 |
| 1/26/2016 | | 3,123,577 | 774,093 | 38,897 | 1,344,133 | 2,600,360 | 33,034 | 17,239,690 |
| 1/27/2016 | | 3,137,071 | 779,101 | 39,143 | 1,348,737 | 2,614,157 | 37,149 | 17,276,839 |
| 1/28/2016 | | 3,150,089 | 784,213 | 39,370 | 1,353,094 | 2,627,243 | 35,800 | 17,312,639 |
| 1/29/2016 | | 3,160,822 | 787,891 | 39,551 | 1,356,648 | 2,637,905 | 28,808 | 17,341,447 |
| 2/1/2016 | | 3,203,177 | 802,645 | 40,241 | 1,370,243 | 2,678,689 | 112,178 | 17,453,625 |
| 2/2/2016 | | 3,217,149 | 807,655 | 40,456 | 1,374,537 | 2,691,576 | 36,378 | 17,490,003 |
| 2/3/2016 | | 3,231,325 | 812,823 | 40,673 | 1,378,805 | 2,704,378 | 36,631 | 17,526,634 |
| 2/8/2016 | | 3,303,430 | 838,028 | 41,713 | 1,399,866 | 2,767,570 | 182,603 | 17,709,237 |
| 2/10/2016 | | 3,329,498 | 847,987 | 42,136 | 1,408,553 | 2,793,630 | 71,197 | 17,780,434 |
| 2/11/2016 | | 3,340,267 | 852,056 | 42,311 | 1,412,142 | 2,804,395 | 29,367 | 17,809,801 |
| 2/12/2016 | | 3,350,557 | 854,928 | 42,463 | 1,415,571 | 2,814,684 | 27,032 | 17,836,833 |
| 2/15/2016 | | 3,389,191 | 865,979 | 43,080 | 1,428,449 | 2,853,318 | 101,814 | 17,938,647 |
| 2/16/2016 | | 3,401,546 | 869,449 | 43,184 | 1,432,568 | 2,865,675 | 32,405 | 17,971,052 |
| 2/17/2016 | | 3,413,655 | 872,781 | 43,246 | 1,436,604 | 2,877,783 | 31,647 | 18,002,699 |
| 2/19/2016 | | 3,440,979 | 880,572 | 43,418 | 1,445,712 | 2,905,107 | 71,719 | 18,074,418 |
| 2/22/2016 | | 3,478,341 | 891,419 | 43,731 | 1,458,167 | 2,942,469 | 98,339 | 18,172,757 |
| 2/24/2016 | | 3,505,350 | 900,133 | 43,931 | 1,467,169 | 2,969,477 | 71,933 | 18,244,690 |
| 2/25/2016 | | 3,516,218 | 905,570 | 44,148 | 1,470,794 | 2,980,353 | 31,023 | 18,275,713 |
| 2/26/2016 | | 3,531,260 | 912,913 | 44,345 | 1,475,808 | 2,995,394 | 42,637 | 18,318,350 |
| 2/29/2016 | | 3,569,917 | 928,180 | 44,657 | 1,488,694 | 3,034,050 | 105,778 | 18,424,128 |
| 3/1/2016 | | 3,582,157 | 932,924 | 44,736 | 1,493,022 | 3,047,036 | 34,377 | 18,458,505 |
| 3/2/2016 | | 3,582,580 | 937,272 | 44,802 | 1,497,031 | 3,059,062 | 20,872 | 18,479,377 |
| 3/3/2016 | | 3,595,134 | 942,325 | 44,881 | 1,501,219 | 3,071,626 | 34,438 | 18,513,815 |
| 3/4/2016 | | 3,607,709 | 946,830 | 44,942 | 1,504,978 | 3,082,902 | 32,176 | 18,545,991 |
| 3/7/2016 | | 3,652,301 | 959,920 | 45,114 | 1,516,125 | 3,116,344 | 102,443 | 18,648,434 |
| 3/8/2016 | | 3,654,639 | 961,245 | 45,137 | 1,516,993 | 3,119,018 | 7,228 | 18,655,662 |
| 3/9/2016 | | 3,671,042 | 966,837 | 45,183 | 1,521,104 | 3,131,350 | 38,484 | 18,694,146 |
| 3/10/2016 | | 3,688,081 | 973,080 | 45,237 | 1,525,672 | 3,145,055 | 41,609 | 18,735,755 |
| 3/11/2016 | | 3,703,345 | 978,378 | 45,367 | 1,529,204 | 3,155,651 | 34,820 | 18,770,575 |
| 3/14/2016 | | 3,755,467 | 997,383 | 45,621 | 1,541,872 | 3,193,669 | 122,067 | 18,892,642 |
| 3/15/2016 | | 3,778,292 | 1,005,072 | 45,775 | 1,546,997 | 3,209,050 | 51,174 | 18,943,816 |
| 3/16/2016 | | 3,794,025 | 1,010,818 | 45,775 | 1,550,826 | 3,220,541 | 36,799 | 18,980,615 |
| 3/17/2016 | | 3,811,215 | 1,017,470 | 45,791 | 1,555,530 | 3,234,650 | 42,671 | 19,023,286 |
| 3/18/2016 | | 3,823,902 | 1,022,152 | 45,841 | 1,559,290 | 3,245,933 | 32,462 | 19,055,748 |
| 3/21/2016 | | 3,864,260 | 1,035,852 | 45,872 | 1,572,018 | 3,284,135 | 105,019 | 19,160,767 |
| 3/23/2016 | | 3,891,200 | 1,045,069 | 45,876 | 1,580,855 | 3,310,650 | 71,513 | 19,232,280 |
| 3/25/2016 | | 3,920,532 | 1,056,523 | 45,969 | 1,589,859 | 3,337,669 | 76,902 | 19,309,182 |
| 3/28/2016 | | 3,963,278 | 1,073,786 | 46,120 | 1,602,828 | 3,376,587 | 112,047 | 19,421,229 |
| 3/29/2016 | | 3,974,000 | 1,078,346 | 46,167 | 1,606,093 | 3,386,386 | 28,393 | 19,449,622 |
| 3/30/2016 | | 3,990,859 | 1,084,973 | 46,238 | 1,611,442 | 3,402,433 | 44,953 | 19,494,575 |
| 3/31/2016 | | 4,009,320 | 1,091,461 | 46,347 | 1,615,934 | 3,415,902 | 43,019 | 19,537,594 |

**Table 1**
**Extraction Well Pumped Water Volumes (gallons)**
**Third Site Superfund Site**
**Zionsville, Indiana**

| Date | Mode | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Period Total | Total Pumped |
|---|---|---|---|---|---|---|---|---|
| 4/1/2016 | Continuous pumping | 4,030,173 | 1,097,907 | 46,469 | 1,620,237 | 3,428,796 | 44,618 | 19,582,212 |
| 4/4/2016 | | 4,073,272 | 1,114,104 | 46,684 | 1,632,235 | 3,464,808 | 107,521 | 19,689,733 |
| 4/5/2016 | | 4,086,750 | 1,118,990 | 46,763 | 1,636,508 | 3,477,640 | 35,548 | 19,725,281 |
| 4/6/2016 | | 4,099,230 | 1,124,007 | 46,840 | 1,640,806 | 3,490,543 | 34,775 | 19,760,056 |
| 4/8/2016 | | 4,122,105 | 1,133,008 | 46,979 | 1,648,956 | 3,514,997 | 64,619 | 19,824,675 |
| 4/11/2016 | | 4,156,342 | 1,146,351 | 47,192 | 1,660,984 | 3,551,086 | 95,910 | 19,920,585 |
| 4/13/2016 | | 4,192,596 | 1,160,058 | 47,194 | 1,670,127 | 3,578,517 | 86,537 | 20,007,122 |
| 4/14/2016 | | 4,209,403 | 1,166,471 | 47,319 | 1,674,474 | 3,591,562 | 40,737 | 20,047,859 |
| 4/15/2016 | | 4,225,813 | 1,172,094 | 47,386 | 1,678,987 | 3,605,100 | 40,151 | 20,088,010 |
| 4/18/2016 | | 4,268,466 | 1,186,127 | 47,469 | 1,691,663 | 3,643,146 | 107,491 | 20,195,501 |
| 4/20/2016 | | 4,294,543 | 1,195,011 | 47,644 | 1,699,828 | 3,667,181 | 67,336 | 20,262,837 |
| 4/21/2016 | | 4,306,114 | 1,199,049 | 47,719 | 1,703,350 | 3,667,691 | 19,716 | 20,282,553 |
| 4/22/2016 | | 4,317,103 | 1,203,701 | 47,807 | 1,706,496 | 3,680,066 | 31,250 | 20,313,803 |
| 4/26/2016 | | 4,317,103 | 1,203,701 | 47,807 | 1,706,496 | 3,680,066 | 0 | 20,313,803 |
| 4/27/2016 | | 4,317,103 | 1,203,701 | 47,807 | 1,706,496 | 3,680,066 | 0 | 20,313,803 |
| 4/29/2016 | | 4,317,932 | 1,203,950 | 47,811 | 1,706,658 | 3,680,551 | 1,729 | 20,315,532 |
| 5/2/2016 | | 4,373,620 | 1,222,376 | 48,177 | 1,719,774 | 3,723,648 | 130,693 | 20,446,225 |
| 5/3/2016 | | 4,386,759 | 1,222,577 | 48,271 | 1,723,355 | 3,734,419 | 27,786 | 20,474,011 |
| 5/4/2016 | | 4,403,743 | 1,226,236 | 48,366 | 1,727,931 | 3,748,177 | 39,072 | 20,513,083 |
| 5/5/2016 | | 4,419,128 | 1,220,953 | 48,473 | 1,732,202 | 3,760,671 | 26,974 | 20,540,057 |
| 5/9/2016 | | 4,419,128 | 1,220,953 | 48,473 | 1,732,202 | 3,761,163 | 492 | 20,540,549 |
| 5/10/2016 | | 4,420,087 | 1,231,287 | 48,478 | 1,732,424 | 3,761,832 | 12,189 | 20,552,738 |
| 5/11/2016 | | 4,437,051 | 1,236,587 | 48,506 | 1,736,816 | 3,775,037 | 39,889 | 20,592,627 |
| 5/12/2016 | | 4,452,790 | 1,241,585 | 48,536 | 1,741,036 | 3,788,241 | 38,191 | 20,630,818 |
| 5/13/2016 | | 4,469,512 | 1,246,912 | 48,593 | 1,745,458 | 3,805,139 | 43,426 | 20,674,244 |
| 5/16/2016 | | 4,513,121 | 1,259,229 | 48,856 | 1,757,676 | 3,854,137 | 117,405 | 20,791,649 |
| 5/18/2016 | | 4,539,173 | 1,266,715 | 48,864 | 1,765,541 | 3,885,772 | 73,046 | 20,864,695 |
| 5/19/2016 | | 4,552,713 | 1,270,782 | 48,945 | 1,769,887 | 3,903,196 | 39,458 | 20,904,153 |
| 5/20/2016 | | 4,565,087 | 1,274,635 | 49,016 | 1,774,096 | 3,920,078 | 37,389 | 20,941,542 |
| 5/23/2016 | | 4,600,145 | 1,286,654 | 49,228 | 1,786,921 | 3,971,614 | 111,650 | 21,053,192 |
| 5/24/2016 | | 4,610,644 | 1,290,471 | 49,306 | 1,791,171 | 3,987,377 | 34,407 | 21,087,599 |
| 5/25/2016 | | 4,621,243 | 1,294,370 | 49,350 | 1,795,561 | 4,000,615 | 32,170 | 21,119,769 |
| 5/27/2016 | | 4,639,472 | 1,301,216 | 49,481 | 1,803,239 | 4,023,736 | 56,005 | 21,175,774 |
| 5/31/2016 | | 4,682,919 | 1,301,922 | 49,483 | 1,803,960 | 4,025,911 | 47,051 | 21,222,825 |
| 6/2/2016 | | 4,702,250 | 1,309,353 | 49,613 | 1,811,865 | 4,049,777 | 58,663 | 21,281,488 |
| 6/3/2016 | | 4,713,710 | 1,313,632 | 49,687 | 1,816,496 | 4,063,809 | 34,476 | 21,315,964 |
| 6/6/2016 | | 4,745,131 | 1,326,210 | 49,919 | 1,828,334 | 4,099,482 | 91,742 | 21,407,706 |
| 6/7/2016 | | 4,754,492 | 1,329,683 | 49,981 | 1,831,724 | 4,109,694 | 26,498 | 21,434,204 |
| 6/8/2016 | | 4,763,526 | 1,333,005 | 49,993 | 1,834,986 | 4,119,539 | 25,475 | 21,459,679 |
| 6/9/2016 | | 4,772,690 | 1,336,352 | 49,997 | 1,838,281 | 4,129,505 | 25,776 | 21,485,455 |
| 6/10/2016 | | 4,787,117 | 1,341,642 | 50,079 | 1,843,571 | 4,145,468 | 41,052 | 21,526,507 |
| 6/13/2016 | | 4,821,931 | 1,353,559 | 50,252 | 1,856,385 | 4,184,069 | 98,319 | 21,624,826 |
| 6/14/2016 | | 4,832,839 | 1,357,231 | 50,302 | 1,860,369 | 4,196,613 | 31,158 | 21,655,984 |
| 6/15/2016 | | 4,845,661 | 1,363,026 | 50,403 | 1,864,230 | 4,212,066 | 38,032 | 21,694,016 |
| 6/17/2016 | | 4,877,953 | 1,376,104 | 50,514 | 1,872,948 | 4,246,941 | 89,074 | 21,783,090 |
| 6/20/2016 | | 4,915,053 | 1,393,532 | 50,609 | 1,885,127 | 4,295,696 | 115,557 | 21,898,647 |
| 6/22/2016 | | 4,918,351 | 1,394,769 | 50,634 | 1,885,952 | 4,298,998 | 8,687 | 21,907,334 |
| 6/23/2016 | | 4,935,991 | 1,401,382 | 50,804 | 1,890,361 | 4,316,640 | 46,474 | 21,953,808 |
| 6/24/2016 | | 4,953,097 | 1,407,797 | 50,979 | 1,894,638 | 4,333,747 | 45,080 | 21,998,888 |
| 6/27/2016 | | 5,001,611 | 1,427,436 | 51,226 | 1,907,737 | 4,386,147 | 133,899 | 22,132,787 |
| 6/28/2016 | | 5,014,740 | 1,432,855 | 51,247 | 1,911,392 | 4,400,765 | 36,842 | 22,169,629 |
| 6/29/2016 | | 5,033,980 | 1,439,970 | 51,312 | 1,916,202 | 4,420,005 | 50,470 | 22,220,099 |
| 6/30/2016 | | 5,047,607 | 1,444,864 | 51,357 | 1,919,608 | 4,433,631 | 35,598 | 22,255,697 |
| 7/1/2016 | | 5,068,493 | 1,432,186 | 51,423 | 1,924,834 | 4,454,532 | 34,401 | 22,290,098 |
| 7/4/2016 | | 5,122,155 | 1,471,370 | 51,510 | 1,938,258 | 4,508,230 | 160,055 | 22,450,153 |
| 7/6/2016 | | 5,151,696 | 1,481,754 | 51,598 | 1,945,655 | 4,537,800 | 76,980 | 22,527,133 |
| 7/8/2016 | | 5,174,641 | 1,492,400 | 51,663 | 1,955,076 | 4,575,483 | 80,760 | 22,607,893 |
| 7/11/2016 | | 5,198,636 | 1,504,679 | 51,808 | 1,967,072 | 4,623,464 | 96,396 | 22,704,289 |
| 7/13/2016 | | 5,214,845 | 1,513,292 | 51,906 | 1,975,839 | 4,658,544 | 68,767 | 22,773,056 |
| 7/14/2016 | | 5,215,114 | 1,518,366 | 51,959 | 1,980,766 | 4,676,285 | 28,064 | 22,801,120 |
| 7/15/2016 | | 5,215,114 | 1,523,280 | 52,014 | 1,984,614 | 4,693,677 | 26,209 | 22,827,329 |
| 7/18/2016 | | 5,215,117 | 1,537,144 | 52,171 | 1,997,266 | 4,744,310 | 77,309 | 22,904,638 |
| 7/19/2016 | | 5,215,619 | 1,542,659 | 52,250 | 2,001,506 | 4,761,271 | 27,297 | 22,931,935 |
| 7/20/2016 | | 5,228,418 | 1,547,340 | 52,306 | 2,005,124 | 4,775,745 | 35,628 | 22,967,563 |
| 7/21/2016 | | 5,259,425 | 1,557,690 | 52,357 | 2,013,551 | 4,808,458 | 82,548 | 23,050,111 |
| 7/25/2016 | | 5,304,749 | 1,572,929 | 52,499 | 2,026,751 | 4,862,299 | 127,746 | 23,177,857 |
| 7/26/2016 | | 5,306,654 | 1,573,735 | 52,510 | 2,027,297 | 4,864,478 | 5,447 | 23,183,304 |
| 7/27/2016 | | 5,317,588 | 1,578,660 | 52,550 | 2,031,380 | 4,880,870 | 36,374 | 23,219,678 |
| 7/28/2016 | | 5,327,997 | 1,582,817 | 52,569 | 2,035,398 | 4,896,949 | 34,682 | 23,254,360 |
| 7/29/2016 | | 5,340,971 | 1,586,845 | 52,609 | 2,039,367 | 4,912,893 | 36,955 | 23,291,315 |

**Table 1**
**Extraction Well Pumped Water Volumes (gallons)**
**Third Site Superfund Site**
**Zionsville, Indiana**

| Date | Mode | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Period Total | Total Pumped |
|---|---|---|---|---|---|---|---|---|
| 8/1/2016 | | 5,374,500 | 1,597,343 | 52,717 | 2,050,140 | 4,959,846 | 101,861 | 23,393,176 |
| 8/3/2016 | | 5,396,089 | 1,604,087 | 52,759 | 2,059,706 | 4,994,625 | 72,720 | 23,465,896 |
| 8/5/2016 | | 5,420,346 | 1,610,179 | 52,782 | 2,068,209 | 5,028,702 | 72,952 | 23,538,848 |
| 8/8/2016 | | 5,453,176 | 1,618,147 | 52,878 | 2,080,322 | 5,078,247 | 102,552 | 23,641,400 |
| 8/10/2016 | | 5,471,039 | 1,622,529 | 52,933 | 2,087,959 | 5,108,031 | 59,721 | 23,701,121 |
| 8/11/2016 | | 5,480,860 | 1,624,902 | 52,942 | 2,091,895 | 5,123,809 | 31,917 | 23,733,038 |
| 8/12/2016 | | 5,490,128 | 1,627,167 | 52,972 | 2,095,826 | 5,139,598 | 31,283 | 23,764,321 |
| 8/15/2016 | | 5,520,247 | 1,639,393 | 53,071 | 2,107,244 | 5,185,343 | 99,607 | 23,863,928 |
| 8/16/2016 | | 5,531,001 | 1,644,378 | 53,126 | 2,110,537 | 5,198,630 | 32,374 | 23,896,302 |
| 8/17/2016 | | 5,541,285 | 1,649,626 | 53,178 | 2,114,055 | 5,212,624 | 33,096 | 23,929,398 |
| 8/19/2016 | | 5,562,792 | 1,660,919 | 53,265 | 2,121,569 | 5,242,737 | 70,514 | 23,999,912 |
| 8/22/2016 | | 5,574,881 | 1,667,025 | 53,309 | 2,125,624 | 5,259,010 | 38,567 | 24,038,479 |
| 8/23/2016 | | 5,578,928 | 1,668,856 | 53,330 | 2,126,838 | 5,263,895 | 11,998 | 24,050,477 |
| 8/24/2016 | | 5,590,863 | 1,674,725 | 53,347 | 2,130,749 | 5,279,537 | 37,374 | 24,087,851 |
| 8/25/2016 | | 5,594,948 | 1,676,723 | 53,363 | 2,132,008 | 5,284,602 | 12,423 | 24,100,274 |
| 8/26/2016 | | 5,607,161 | 1,682,453 | 53,398 | 2,135,889 | 5,300,148 | 37,405 | 24,137,679 |
| 8/29/2016 | | 5,632,296 | 1,694,264 | 53,439 | 2,143,760 | 5,331,639 | 76,349 | 24,214,028 |
| 8/30/2016 | | 5,644,325 | 1,699,900 | 53,440 | 2,147,518 | 5,346,698 | 36,483 | 24,250,511 |
| 8/31/2016 | | 5,657,243 | 1,705,887 | 53,445 | 2,151,508 | 5,362,631 | 38,833 | 24,289,344 |
| 9/1/2016 | | 5,668,172 | 1,710,869 | 53,475 | 2,154,832 | 5,375,931 | 32,565 | 24,321,909 |
| 9/2/2016 | | 5,682,094 | 1,717,161 | 53,509 | 2,159,023 | 5,392,709 | 41,217 | 24,363,126 |
| 9/6/2016 | | 5,735,873 | 1,735,831 | 53,516 | 2,175,174 | 5,457,501 | 153,399 | 24,516,525 |
| 9/7/2016 | | 5,747,295 | 1,738,814 | 53,531 | 2,178,405 | 5,470,426 | 30,576 | 24,547,101 |
| 9/8/2016 | | 5,759,668 | 1,741,899 | 53,556 | 2,181,841 | 5,484,170 | 32,663 | 24,579,764 |
| 9/9/2016 | | 5,772,478 | 1,746,837 | 53,579 | 2,185,133 | 5,497,337 | 34,230 | 24,613,994 |
| 9/12/2016 | | 5,820,059 | 1,764,682 | 53,746 | 2,197,022 | 5,544,924 | 125,069 | 24,739,063 |
| 9/13/2016 | | 5,833,829 | 1,769,845 | 53,775 | 2,200,463 | 5,558,693 | 36,172 | 24,775,235 |
| 9/14/2016 | | 5,844,275 | 1,773,762 | 53,777 | 2,203,075 | 5,569,133 | 27,417 | 24,802,652 |
| 9/15/2016 | | 5,858,818 | 1,779,202 | 53,801 | 2,206,701 | 5,583,638 | 38,138 | 24,840,790 |
| 9/16/2016 | | 5,874,198 | 1,784,981 | 53,823 | 2,210,354 | 5,599,049 | 40,245 | 24,881,035 |
| 9/19/2016 | | 5,924,764 | 1,803,943 | 54,000 | 2,223,195 | 5,649,616 | 133,113 | 25,014,148 |
| 9/20/2016 | | 5,941,042 | 1,810,045 | 54,055 | 2,227,263 | 5,665,889 | 42,776 | 25,056,924 |
| 9/21/2016 | | 5,954,274 | 1,815,123 | 54,094 | 2,230,649 | 5,679,434 | 35,280 | 25,092,204 |
| 9/23/2016 | | 5,956,096 | 1,826,734 | 54,216 | 2,238,389 | 5,710,391 | 52,252 | 25,144,456 |
| 9/26/2016 | | 5,999,508 | 1,844,839 | 54,406 | 2,250,519 | 5,758,921 | 122,367 | 25,266,823 |
| 9/28/2016 | | 6,026,479 | 1,856,406 | 54,513 | 2,258,353 | 5,790,312 | 77,870 | 25,344,693 |
| 9/29/2016 | | 6,041,187 | 1,862,781 | 54,586 | 2,262,600 | 5,807,310 | 42,401 | 25,387,094 |
| 9/30/2016 | Continuous | 6,054,130 | 1,868,487 | 54,648 | 2,266,406 | 5,822,546 | 37,753 | 25,424,847 |
| 10/3/2016 | pumping | 6,096,771 | 1,886,295 | 54,884 | 2,278,272 | 5,870,031 | 120,036 | 25,544,883 |
| 10/4/2016 | | 6,109,297 | 1,891,446 | 54,976 | 2,281,701 | 5,883,767 | 34,934 | 25,579,817 |
| 10/5/2016 | | 6,120,907 | 1,896,430 | 55,104 | 2,285,021 | 5,897,059 | 33,334 | 25,613,151 |
| 10/6/2016 | | 6,132,670 | 1,901,547 | 55,184 | 2,288,431 | 5,910,704 | 34,015 | 25,647,166 |
| 10/7/2016 | | 6,144,027 | 1,906,525 | 55,186 | 2,291,753 | 5,923,994 | 32,949 | 25,680,115 |
| 10/10/2016 | | 6,184,510 | 1,918,875 | 55,532 | 2,303,766 | 5,972,140 | 113,338 | 25,793,453 |
| 10/11/2016 | | 6,197,092 | 1,922,548 | 55,621 | 2,307,394 | 5,986,684 | 34,516 | 25,827,969 |
| 10/12/2016 | | 6,209,263 | 1,926,654 | 55,716 | 2,310,892 | 6,000,731 | 33,917 | 25,861,886 |
| 10/14/2016 | | 6,236,348 | 1,936,224 | 55,888 | 2,318,671 | 6,031,951 | 75,826 | 25,937,712 |
| 10/17/2016 | | 6,280,070 | 1,952,453 | 56,127 | 2,331,251 | 6,082,348 | 123,167 | 26,060,879 |
| 10/18/2016 | | 6,283,373 | 1,954,695 | 56,150 | 2,332,754 | 6,088,363 | 13,086 | 26,073,965 |
| 10/19/2016 | | 6,297,144 | 1,960,118 | 56,244 | 2,336,622 | 6,103,844 | 38,637 | 26,112,602 |
| 10/20/2016 | | 6,310,737 | 1,965,482 | 56,328 | 2,340,207 | 6,118,175 | 36,957 | 26,149,559 |
| 10/21/2016 | | 6,327,617 | 1,971,812 | 56,506 | 2,344,426 | 6,135,053 | 44,485 | 26,194,044 |
| 10/24/2016 | | 6,379,904 | 1,991,419 | 56,798 | 2,357,498 | 6,187,339 | 137,544 | 26,331,588 |
| 10/26/2016 | | 6,408,087 | 2,002,982 | 56,936 | 2,365,206 | 6,218,177 | 78,430 | 26,410,018 |
| 10/28/2016 | | 6,430,788 | 2,014,493 | 57,065 | 2,372,880 | 6,248,873 | 72,711 | 26,482,729 |
| 10/31/2016 | | 6,472,794 | 2,032,370 | 57,244 | 2,384,788 | 6,296,550 | 119,647 | 26,602,376 |
| 11/1/2016 | | 6,484,588 | 2,037,297 | 57,295 | 2,388,072 | 6,309,869 | 33,375 | 26,635,751 |
| 11/2/2016 | | 6,497,817 | 2,042,718 | 57,354 | 2,391,685 | 6,324,149 | 36,602 | 26,672,353 |
| 11/3/2016 | | 6,509,133 | 2,047,739 | 57,400 | 2,395,026 | 6,337,542 | 33,117 | 26,705,470 |
| 11/4/2016 | | 6,521,377 | 2,033,275 | 57,444 | 2,398,708 | 6,352,306 | 16,270 | 26,721,740 |
| 11/7/2016 | | 6,562,680 | 2,072,350 | 57,604 | 2,411,408 | 6,403,175 | 144,107 | 26,865,847 |
| 11/8/2016 | | 6,573,873 | 2,077,323 | 57,641 | 2,414,721 | 6,416,436 | 32,777 | 26,898,624 |
| 11/9/2016 | | 6,585,479 | 2,082,357 | 57,693 | 2,419,073 | 6,429,862 | 34,470 | 26,933,094 |
| 11/10/2016 | | 6,597,438 | 2,087,473 | 57,757 | 2,421,480 | 6,443,505 | 33,189 | 26,966,283 |
| 11/11/2016 | | 6,612,324 | 2,093,798 | 57,806 | 2,425,686 | 6,460,381 | 42,342 | 27,008,625 |
| 11/14/2016 | | 6,647,439 | 2,106,736 | 57,960 | 2,437,503 | 6,507,658 | 107,301 | 27,115,926 |
| 11/15/2016 | | 6,657,487 | 2,110,754 | 58,006 | 2,441,521 | 6,523,733 | 34,205 | 27,150,131 |
| 11/17/2016 | | 6,675,373 | 2,118,869 | 58,091 | 2,449,573 | 6,555,952 | 66,357 | 27,216,488 |
| 11/18/2016 | | 6,687,643 | 2,125,399 | 58,130 | 2,454,223 | 6,574,563 | 42,100 | 27,258,588 |
| 11/21/2016 | | 6,710,668 | 2,138,063 | 58,262 | 2,467,268 | 6,626,741 | 101,044 | 27,359,632 |
| 11/22/2016 | | 6,718,690 | 2,144,720 | 58,299 | 2,471,279 | 6,642,787 | 34,773 | 27,394,405 |
| 11/23/2016 | | 6,726,555 | 2,148,334 | 58,340 | 2,475,212 | 6,658,517 | 31,183 | 27,425,588 |
| 11/25/2016 | | 6,743,645 | 2,157,816 | 58,452 | 2,483,757 | 6,692,697 | 69,409 | 27,494,997 |
| 11/28/2016 | | 6,769,393 | 2,170,566 | 58,593 | 2,496,630 | 6,744,192 | 103,007 | 27,598,004 |
| 11/29/2016 | | 6,779,234 | 2,175,486 | 58,727 | 2,501,551 | 6,763,874 | 39,498 | 27,637,502 |
| 11/30/2016 | | 6,787,885 | 2,179,812 | 58,814 | 2,505,877 | 6,781,181 | 34,697 | 27,672,199 |

**Table 1**
**Extraction Well Pumped Water Volumes (gallons)**
**Third Site Superfund Site**
**Zionsville, Indiana**

| Date | Mode | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Period Total | Total Pumped |
|---|---|---|---|---|---|---|---|---|
| 12/2/2016 | | 6,804,699 | 2,188,219 | 58,941 | 2,514,284 | 6,814,805 | 67,379 | 27,739,578 |
| 12/5/2016 | | 6,810,979 | 2,191,359 | 58,994 | 2,517,423 | 6,827,363 | 25,170 | 27,764,748 |
| 12/7/2016 | | 6,828,374 | 2,200,079 | 59,063 | 2,526,126 | 6,862,176 | 69,700 | 27,834,448 |
| 12/8/2016 | | 6,836,033 | 2,205,731 | 59,120 | 2,529,953 | 6,877,487 | 32,506 | 27,866,954 |
| 12/9/2016 | | 6,844,639 | 2,212,595 | 59,176 | 2,534,257 | 6,894,703 | 37,046 | 27,904,000 |
| 12/12/2016 | | 6,869,931 | 2,225,956 | 59,337 | 2,547,000 | 6,945,675 | 102,529 | 28,006,529 |
| 12/13/2016 | | 6,870,409 | 2,229,335 | 59,385 | 2,551,008 | 6,961,706 | 23,944 | 28,030,473 |
| 12/14/2016 | | 6,879,415 | 2,233,194 | 59,449 | 2,555,511 | 6,979,718 | 35,444 | 28,065,917 |
| 12/15/2016[4] | | 6,886,678 | 2,236,380 | 59,506 | 2,559,119 | 6,994,150 | 28,546 | 28,094,463 |
| 12/29/2016 | | 6,887,225 | 2,236,469 | 59,516 | 2,559,199 | 6,994,585 | 1,161 | 28,095,624 |
| 12/30/2016 | | 6,899,976 | 2,240,771 | 59,588 | 2,563,496 | 7,011,795 | 38,632 | 28,134,256 |
| 1/3/2017 | | 6,950,020 | 2,257,639 | 59,867 | 2,580,316 | 7,079,269 | 151,485 | 28,285,741 |
| 1/4/2017 | | 6,967,231 | 2,262,123 | 59,977 | 2,584,796 | 7,097,202 | 44,218 | 28,329,959 |
| 1/6/2017 | | 6,993,588 | 2,269,880 | 60,100 | 2,592,550 | 7,128,232 | 73,021 | 28,402,980 |
| 1/9/2017 | | 7,032,637 | 2,282,579 | 60,100 | 2,605,191 | 7,179,013 | 115,170 | 28,518,150 |
| 1/11/2017 | | 7,061,279 | 2,292,250 | 60,212 | 2,614,859 | 7,217,697 | 86,777 | 28,604,927 |
| 1/13/2017 | | 7,091,763 | 2,297,213 | 60,215 | 2,623,654 | 7,252,879 | 79,427 | 28,684,354 |
| 1/16/2017 | | 7,134,973 | 2,297,213 | 60,405 | 2,635,640 | 7,300,824 | 103,331 | 28,787,685 |
| 1/18/2017 | | 7,158,533 | 2,297,380 | 60,419 | 2,644,970 | 7,338,152 | 70,399 | 28,858,084 |
| 1/19/2017 | | 7,169,330 | 2,300,952 | 60,582 | 2,648,547 | 7,352,161 | 32,118 | 28,890,202 |
| 1/23/2017 | | 7,235,862 | 2,318,226 | 61,472 | 2,665,808 | 7,421,538 | 171,334 | 29,061,536 |
| 1/26/2017 | | 7,275,848 | 2,330,861 | 61,960 | 2,678,415 | 7,472,076 | 116,254 | 29,177,790 |
| 1/30/2017 | | 7,327,924 | 2,342,732 | 62,544 | 2,696,281 | 7,543,843 | 154,164 | 29,331,954 |
| 1/31/2017 | | 7,339,663 | 2,342,734 | 62,671 | 2,700,573 | 7,561,050 | 33,367 | 29,365,321 |
| 2/1/2017 | | 7,351,138 | 2,342,809 | 62,785 | 2,704,783 | 7,577,928 | 32,752 | 29,398,073 |
| 2/2/2017 | | 7,362,598 | 2,342,810 | 62,905 | 2,709,220 | 7,595,912 | 34,002 | 29,432,075 |
| 2/6/2017 | | 7,383,469 | 2,347,952 | 63,277 | 2,716,789 | 7,626,616 | 64,658 | 29,496,733 |
| 2/8/2017 | | 7,385,551 | 2,348,522 | 63,314 | 2,717,467 | 7,629,370 | 6,121 | 29,502,854 |
| 2/9/2017 | | 7,396,744 | 2,348,522 | 63,476 | 2,721,136 | 7,644,203 | 29,857 | 29,532,711 |
| 2/10/2017 | | 7,410,954 | 2,348,699 | 63,476 | 2,725,782 | 7,663,627 | 38,457 | 29,571,168 |
| 2/13/2017 | | 7,447,686 | 2,352,322 | 63,558 | 2,737,947 | 7,715,610 | 104,585 | 29,675,753 |
| 2/14/2017 | | 7,459,016 | 2,356,475 | 63,901 | 2,737,950 | 7,733,161 | 33,380 | 29,709,133 |
| 2/15/2017 | | 7,469,226 | 2,360,373 | 64,140 | 2,738,013 | 7,749,968 | 31,217 | 29,740,350 |
| 2/16/2017 | | 7,479,933 | 2,363,755 | 64,320 | 2,738,455 | 7,766,809 | 31,552 | 29,771,902 |
| 2/17/2017 | | 7,490,194 | 2,367,057 | 64,320 | 2,742,884 | 7,784,577 | 35,760 | 29,807,662 |
| 2/20/2017 | Continuous | 7,515,780 | 2,375,678 | 64,320 | 2,745,260 | 7,834,508 | 86,514 | 29,894,176 |
| 2/22/2017 | pumping | 7,533,747 | 2,376,226 | 64,322 | 2,753,872 | 7,869,307 | 61,928 | 29,956,104 |
| 2/24/2017 | | 7,551,805 | 2,387,572 | 64,322 | 2,760,496 | 7,904,253 | 70,974 | 30,027,078 |
| 2/27/2017 | | 7,578,950 | 2,385,102 | 64,322 | 2,769,573 | 7,955,833 | 85,332 | 30,112,410 |
| 2/28/2017 | | 7,588,674 | 2,386,456 | 64,322 | 2,774,151 | 7,974,216 | 34,039 | 30,146,449 |
| 3/1/2017 | | 7,597,540 | 2,390,211 | 64,322 | 2,778,205 | 7,990,600 | 33,059 | 30,179,508 |
| 3/2/2017 | | 7,607,337 | 2,394,552 | 64,322 | 2,782,540 | 8,007,976 | 35,849 | 30,215,357 |
| 3/3/2017 | | 7,617,007 | 2,398,576 | 64,322 | 2,785,270 | 8,025,066 | 33,514 | 30,248,871 |
| 3/6/2017 | | 7,644,844 | 2,409,267 | 64,322 | 2,797,704 | 8,075,117 | 101,013 | 30,349,884 |
| 3/7/2017 | | 7,652,488 | 2,412,421 | 64,322 | 2,800,978 | 8,088,327 | 27,282 | 30,377,166 |
| 3/8/2017 | | 7,660,010 | 2,415,373 | 64,322 | 2,803,911 | 8,100,179 | 25,259 | 30,402,425 |
| 3/9/2017 | | 7,668,484 | 2,418,711 | 64,322 | 2,807,235 | 8,113,477 | 28,434 | 30,430,859 |
| 3/10/2017 | | 7,676,910 | 2,422,077 | 64,322 | 2,810,593 | 8,126,967 | 28,640 | 30,459,499 |
| 3/13/2017 | | 7,705,749 | 2,432,968 | 64,322 | 2,822,380 | 8,174,322 | 98,872 | 30,558,371 |
| 3/14/2017 | | 7,714,705 | 2,436,243 | 64,322 | 2,826,014 | 8,188,919 | 30,462 | 30,588,833 |
| 3/15/2017 | | 7,716,317 | 2,436,245 | 64,322 | 2,826,619 | 8,191,352 | 4,652 | 30,593,485 |
| 3/17/2017 | | 7,736,512 | 2,443,810 | 64,322 | 2,835,189 | 8,225,854 | 70,832 | 30,664,317 |
| 3/20/2017 | | 7,769,412 | 2,453,343 | 64,322 | 2,840,059 | 8,277,110 | 98,559 | 30,762,876 |
| 3/21/2017 | | 7,780,314 | 2,457,552 | 64,323 | 2,840,636 | 8,293,948 | 32,527 | 30,795,403 |
| 3/22/2017 | | 7,788,850 | 2,461,662 | 64,323 | 2,844,733 | 8,310,389 | 33,184 | 30,828,587 |
| 3/24/2017 | | 7,813,819 | 2,470,283 | 64,323 | 2,848,364 | 8,345,498 | 72,330 | 30,900,917 |
| 3/27/2017 | | 7,849,956 | 2,482,741 | 64,323 | 2,861,249 | 8,388,608 | 104,590 | 31,005,507 |
| 3/29/2017 | | 7,875,272 | 2,491,425 | 64,323 | 2,869,906 | 8,388,609 | 42,658 | 31,048,165 |
| 3/30/2017 | | 7,886,187 | 2,495,429 | 64,323 | 2,871,409 | 8,402,409 | 30,222 | 31,078,387 |
| 3/31/2017 | | 7,889,768 | 2,496,637 | 64,323 | 2,872,620 | 8,417,409 | 21,000 | 31,099,387 |
| 4/3/2017 | | 7,929,623 | 2,508,945 | 64,323 | 2,884,899 | 8,388,609 | 35,642 | 31,135,029 |
| 4/4/2017 | | 7,943,455 | 2,513,581 | 64,323 | 2,889,523 | 8,388,609 | 23,092 | 31,158,121 |
| 4/5/2017[5] | | 7,948,167 | 2,515,043 | 64,323 | 2,890,979 | 8,388,609 | 7,630 | 31,165,751 |
| 4/6/2017 | | 16,232 | 7,257 | 0 | 5,911 | 17,198 | 46,598 | 31,212,349 |
| 4/7/2017 | | 28,395 | 12,973 | 0 | 10,567 | 30,649 | 35,986 | 31,248,335 |
| 4/10/2017 | | 63,797 | 31,311 | 0 | 25,504 | 73,118 | 111,146 | 31,359,481 |
| 4/11/2017 | | 74,542 | 37,319 | 0 | 30,373 | 86,837 | 35,341 | 31,394,822 |
| 4/12/2017 | | 86,243 | 44,001 | 0 | 35,782 | 101,945 | 38,900 | 31,433,722 |
| 4/13/2017 | | 96,660 | 50,076 | 0 | 40,726 | 115,560 | 35,051 | 31,468,773 |
| 4/17/2017 | | 135,977 | 72,543 | 0 | 48,278 | 167,189 | 120,965 | 31,589,738 |
| 4/18/2017 | | 135,977 | 72,543 | 0 | 48,278 | 167,189 | 0 | 31,589,738 |
| 4/19/2017 | | 136,402 | 72,648 | 0 | 48,363 | 167,429 | 855 | 31,590,593 |

**Table 1**
**Extraction Well Pumped Water Volumes (gallons)**
**Third Site Superfund Site**
**Zionsville, Indiana**

| Date | Mode | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Period Total | Total Pumped |
|---|---|---|---|---|---|---|---|---|
| 4/20/2017 | Continuous pumping | 138,754 | 73,620 | 0 | 49,148 | 169,652 | 6,332 | 31,596,925 |
| 4/21/2017 | | 142,357 | 75,136 | 0 | 50,360 | 173,138 | 9,817 | 31,606,742 |
| 4/24/2017 | | 147,231 | 77,206 | 0 | 51,997 | 178,121 | 13,564 | 31,620,306 |
| 4/25/2017 | | 156,088 | 82,774 | 0 | 56,425 | 191,033 | 31,765 | 31,652,071 |
| 4/26/2017 | | 166,095 | 88,811 | 0 | 61,396 | 205,637 | 35,619 | 31,687,690 |
| 4/27/2017 | | 172,127 | 92,437 | 0 | 64,378 | 214,384 | 21,387 | 31,709,077 |
| 4/28/2017 | | 182,220 | 99,106 | 0 | 69,617 | 229,004 | 36,621 | 31,745,698 |
| 5/1/2017 | | 185,957 | 101,466 | 0 | 71,486 | 234,191 | 13,153 | 31,758,851 |
| 5/2/2017 | | 196,119 | 107,901 | 0 | 76,504 | 248,072 | 35,496 | 31,794,347 |
| 5/3/2017 | | 206,107 | 114,244 | 0 | 81,396 | 261,253 | 34,404 | 31,828,751 |
| 5/4/2017 | | 216,194 | 120,490 | 0 | 86,234 | 274,106 | 34,024 | 31,862,775 |
| 5/5/2017 | | 226,452 | 126,491 | 0 | 90,941 | 286,498 | 33,358 | 31,896,133 |
| 5/8/2017 | | 242,245 | 136,393 | 0 | 98,723 | 306,901 | 53,880 | 31,950,013 |
| 5/9/2017 | | 251,019 | 141,898 | 0 | 103,050 | 318,139 | 29,844 | 31,979,857 |
| 5/10/2017 | | 254,538 | 144,024 | 6 | 104,701 | 322,506 | 11,669 | 31,991,526 |
| 5/11/2017 | | 264,003 | 149,848 | 9 | 109,324 | 333,104 | 30,513 | 32,022,039 |
| 5/12/2017 | | 274,743 | 156,532 | 13 | 114,587 | 343,345 | 32,932 | 32,054,971 |
| 5/17/2017 | | 274,743 | 156,532 | 13 | 114,587 | 343,345 | 0 | 32,054,971 |
| 5/18/2017 | | 275,091 | 156,755 | 13 | 114,764 | 344,757 | 2,160 | 32,057,131 |
| 5/19/2017 | | 284,349 | 162,608 | 13 | 119,428 | 354,365 | 29,383 | 32,086,514 |
| 5/22/2017 | | 313,931 | 180,736 | 13 | 134,229 | 367,033 | 75,179 | 32,161,693 |
| 5/23/2017 | | 323,282 | 186,451 | 13 | 138,905 | 377,674 | 30,383 | 32,192,076 |
| 5/24/2017 | | 330,184 | 190,652 | 13 | 142,346 | 385,319 | 22,189 | 32,214,265 |
| 5/25/2017 | | 333,252 | 192,406 | 13 | 143,943 | 388,649 | 9,749 | 32,224,014 |
| 5/26/2017 | | 340,961 | 196,833 | 20 | 148,964 | 396,353 | 24,868 | 32,248,882 |
| 5/30/2017 | | 344,371 | 200,821 | 20 | 153,466 | 404,846 | 20,393 | 32,269,275 |
| 5/31/2017 | | 353,417 | 200,821 | 20 | 153,466 | 413,894 | 18,094 | 32,287,369 |
| 6/1/2017 | | 363,607 | 200,821 | 20 | 153,466 | 424,082 | 20,378 | 32,307,747 |
| 6/2/2017 | | 371,623 | 200,821 | 54 | 153,466 | 432,097 | 16,065 | 32,323,812 |
| 6/15/2017 | | 373,338 | 201,636 | 56 | 154,105 | 433,944 | 5,018 | 32,328,830 |
| 6/16/2017 | | 386,100 | 208,038 | 113 | 158,955 | 448,322 | 38,449 | 32,367,279 |
| 6/19/2017 | | 421,533 | 226,015 | 550 | 172,404 | 488,483 | 107,457 | 32,474,736 |
| 6/21/2017 | | 441,677 | 236,047 | 667 | 179,945 | 510,986 | 60,337 | 32,535,073 |
| 6/22/2017 | | 451,548 | 241,172 | 667 | 183,782 | 522,212 | 30,059 | 32,565,132 |
| 6/23/2017 | | 461,783 | 246,544 | 669 | 187,801 | 533,895 | 31,311 | 32,596,443 |
| 6/26/2017 | | 499,736 | 266,077 | 852 | 200,486 | 574,602 | 111,061 | 32,707,504 |
| 6/28/2017 | | 518,383 | 276,600 | 856 | 207,812 | 595,838 | 57,736 | 32,765,240 |
| 6/29/2017 | | 528,328 | 281,695 | 857 | 211,780 | 607,319 | 30,490 | 32,795,730 |
| 6/30/2017 | | 538,366 | 286,793 | 860 | 215,833 | 619,048 | 30,921 | 32,826,651 |
| 7/5/2017 | | 599,823 | 318,717 | 1,088 | 217,785 | 623,064 | 99,577 | 32,926,228 |
| 7/6/2017 | | 603,399 | 320,577 | 1,089 | 221,811 | 627,422 | 13,821 | 32,940,049 |
| 7/7/2017 | | 618,777 | 328,209 | 1,256 | 227,849 | 643,958 | 45,751 | 32,985,800 |
| 7/10/2017 | | 657,307 | 346,476 | 1,909 | 242,299 | 683,538 | 111,480 | 33,097,280 |
| 7/11/2017 | | 668,422 | 352,408 | 1,955 | 246,797 | 696,391 | 34,444 | 33,131,724 |
| 7/12/2017 | | 668,857 | 352,601 | 2,178 | 246,946 | 696,818 | 1,427 | 33,133,151 |
| 7/13/2017 | | 686,499 | 359,416 | 2,523 | 252,340 | 711,603 | 44,981 | 33,178,132 |
| 7/14/2017 | | 699,630 | 364,813 | 2,926 | 256,548 | 723,121 | 34,657 | 33,212,789 |
| 7/17/2017 | | 736,435 | 382,832 | 3,376 | 270,357 | 762,164 | 108,126 | 33,320,915 |
| 7/18/2017 | | 748,971 | 389,481 | 3,387 | 275,340 | 776,575 | 38,590 | 33,359,505 |
| 7/19/2017 | | 760,790 | 396,009 | 3,387 | 280,224 | 790,717 | 37,373 | 33,396,878 |
| 7/20/2017 | | 772,031 | 402,355 | 3,388 | 284,973 | 804,467 | 36,087 | 33,432,965 |
| 7/21/2017 | | 782,071 | 407,957 | 3,407 | 289,171 | 816,665 | 32,057 | 33,465,022 |
| 7/24/2017 | | 816,570 | 427,214 | 3,527 | 303,617 | 858,352 | 110,009 | 33,575,031 |
| 7/25/2017 | | 825,660 | 432,377 | 3,527 | 307,587 | 869,854 | 29,725 | 33,604,756 |
| 7/26/2017 | | 836,910 | 438,458 | 3,528 | 312,535 | 884,210 | 36,636 | 33,641,392 |
| 7/28/2017 | | 857,120 | 449,051 | 3,528 | 321,202 | 909,248 | 64,508 | 33,705,900 |
| 7/31/2017 | | 890,834 | 467,584 | 3,528 | 336,292 | 953,082 | 111,171 | 33,817,071 |
| 8/1/2017 | | 899,561 | 473,359 | 3,529 | 341,006 | 966,733 | 32,868 | 33,849,939 |
| 8/2/2017 | | 900,291 | 479,146 | 3,530 | 345,716 | 980,354 | 24,849 | 33,874,788 |
| 8/4/2017 | | 925,819 | 490,559 | 3,530 | 355,417 | 1,008,513 | 74,801 | 33,949,589 |
| 8/7/2017 | | 958,633 | 506,222 | 3,530 | 368,700 | 1,047,643 | 100,890 | 34,050,479 |
| 8/9/2017 | | 979,275 | 516,667 | 3,530 | 376,379 | 1,071,967 | 63,090 | 34,113,569 |
| 8/10/2017 | | 988,693 | 521,364 | 3,531 | 378,127 | 1,083,044 | 26,941 | 34,140,510 |
| 8/11/2017 | | 997,454 | 525,522 | 3,531 | 380,245 | 1,093,443 | 25,436 | 34,165,946 |
| 8/14/2017 | | 1,010,714 | 531,671 | 3,531 | 381,151 | 1,109,146 | 36,018 | 34,201,964 |
| 8/15/2017 | | 1,022,179 | 536,656 | 3,531 | 386,111 | 1,122,572 | 34,836 | 34,236,800 |
| 8/16/2017 | | 1,032,300 | 540,875 | 3,531 | 390,640 | 1,135,040 | 31,337 | 34,268,137 |
| 8/17/2017 | | 1,041,355 | 544,626 | 3,531 | 394,724 | 1,146,754 | 28,604 | 34,296,741 |
| 8/18/2017 | | 1,045,936 | 546,618 | 3,531 | 396,678 | 1,152,444 | 14,217 | 34,310,958 |

**Table 1**
**Extraction Well Pumped Water Volumes (gallons)**
**Third Site Superfund Site**
**Zionsville, Indiana**

| Date | Mode | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Period Total | Total Pumped |
|---|---|---|---|---|---|---|---|---|
| 8/21/2017 | Continuous pumping | 1,048,395 | 547,926 | 3,531 | 397,659 | 1,154,607 | 6,911 | 34,317,869 |
| 8/22/2017 | | 1,055,687 | 551,662 | 3,531 | 400,655 | 1,163,975 | 23,392 | 34,341,261 |
| 8/23/2017 | | 1,068,101 | 557,834 | 3,531 | 405,381 | 1,178,750 | 38,087 | 34,379,348 |
| 8/24/2017 | | 1,079,261 | 562,459 | 3,531 | 409,940 | 1,192,948 | 34,542 | 34,413,890 |
| 8/25/2017 | | 1,090,468 | 566,417 | 3,531 | 414,769 | 1,207,982 | 35,028 | 34,448,918 |
| 8/28/2017 | | 1,124,062 | 577,414 | 3,532 | 429,441 | 1,253,679 | 104,961 | 34,553,879 |
| 8/29/2017 | | 1,135,208 | 580,962 | 3,532 | 434,219 | 1,268,462 | 34,255 | 34,588,134 |
| 8/30/2017 | | 1,146,647 | 584,577 | 3,532 | 439,101 | 1,282,820 | 34,294 | 34,622,428 |
| 8/31/2017 | | 1,158,102 | 588,084 | 3,532 | 444,005 | 1,295,984 | 33,030 | 34,655,458 |
| 9/1/2017 | | 1,167,565 | 591,009 | 3,532 | 448,158 | 1,307,225 | 27,782 | 34,683,240 |
| 9/5/2017 | | 1,209,116 | 604,365 | 3,533 | 467,997 | 1,361,978 | 129,500 | 34,812,740 |
| 9/6/2017 | | 1,218,450 | 607,395 | 3,533 | 472,673 | 1,374,520 | 29,582 | 34,842,322 |
| 9/7/2017 | | 1,228,198 | 610,629 | 3,533 | 477,617 | 1,387,853 | 31,259 | 34,873,581 |
| 9/8/2017 | | 1,237,939 | 613,857 | 3,533 | 482,640 | 1,401,351 | 31,490 | 34,905,071 |
| 9/11/2017 | | 1,265,297 | 622,817 | 3,533 | 484,268 | 1,439,848 | 76,443 | 34,981,514 |
| 9/12/2017 | | 1,274,216 | 625,815 | 3,533 | 487,431 | 1,432,736 | 7,968 | 34,989,482 |
| 9/13/2017 | | 1,282,865 | 628,746 | 3,534 | 492,181 | 1,465,489 | 49,084 | 35,038,566 |
| 9/14/2017 | | 1,290,415 | 631,341 | 3,534 | 496,352 | 1,476,652 | 25,479 | 35,064,045 |
| 9/15/2017 | | 1,300,688 | 634,810 | 3,534 | 501,960 | 1,491,715 | 34,413 | 35,098,458 |
| 9/19/2017 | | 1,333,874 | 646,441 | 3,534 | 519,981 | 1,539,776 | 110,899 | 35,209,357 |
| 9/20/2017 | | 1,333,874 | 646,441 | 3,534 | 519,981 | 1,539,776 | 0 | 35,209,357 |
| 9/21/2017 | | 1,334,008 | 646,441 | 3,534 | 519,981 | 1,539,921 | 279 | 35,209,636 |
| 9/22/2017 | | 1,335,008 | 646,890 | 3,534 | 520,448 | 1,541,076 | 3,071 | 35,212,707 |
| 9/25/2017 | | 1,365,114 | 657,984 | 3,534 | 535,813 | 1,579,176 | 94,665 | 35,307,372 |
| 9/26/2017 | | 1,375,268 | 661,371 | 3,534 | 541,170 | 1,592,134 | 31,856 | 35,339,228 |
| 9/27/2017 | | 1,384,272 | 664,103 | 3,534 | 543,346 | 1,603,535 | 25,313 | 35,364,541 |
| 9/28/2017 | | 1,394,887 | 664,589 | 3,534 | 548,096 | 1,616,470 | 28,786 | 35,393,327 |
| 9/29/2017 | | 1,404,739 | 668,016 | 3,535 | 553,064 | 1,628,786 | 30,564 | 35,423,891 |
| 10/2/2017 | | 1,435,683 | 677,996 | 3,535 | 561,506 | 1,667,760 | 88,340 | 35,512,231 |
| 10/3/2017 | | 1,445,980 | 681,190 | 3,536 | 566,373 | 1,680,756 | 31,355 | 35,543,586 |
| 10/4/2017 | | 1,456,700 | 684,468 | 3,536 | 571,380 | 1,694,231 | 32,480 | 35,576,066 |
| 10/5/2017 | | 1,466,624 | 687,771 | 3,537 | 575,772 | 1,706,415 | 29,804 | 35,605,870 |
| 10/6/2017 | | 1,476,391 | 692,609 | 3,537 | 580,493 | 1,717,749 | 30,660 | 35,636,530 |
| 10/9/2017 | | 1,509,769 | 707,019 | 3,537 | 597,483 | 1,758,568 | 105,597 | 35,742,127 |
| 10/10/2017 | | 1,519,161 | 710,837 | 3,537 | 602,438 | 1,770,510 | 30,107 | 35,772,234 |
| 10/11/2017 | | 1,529,035 | 715,680 | 3,537 | 608,306 | 1,782,880 | 32,955 | 35,805,189 |
| 10/12/2017 | | 1,529,520 | 722,076 | 3,538 | 613,722 | 1,783,615 | 13,033 | 35,818,222 |
| 10/13/2017 | | 1,539,871 | 727,673 | 3,547 | 618,767 | 1,797,766 | 35,153 | 35,853,375 |
| 10/15/2017 | | 1,539,871 | 728,159 | 3,547 | 618,767 | 1,799,613 | 2,333 | 35,855,708 |
| 10/17/2017 | | 1,539,871 | 728,721 | 3,547 | 618,767 | 1,801,582 | 2,531 | 35,858,239 |
| 10/18/2017 | | 1,539,871 | 733,182 | 3,547 | 618,767 | 1,817,195 | 20,074 | 35,878,313 |
| 10/19/2017 | | 1,539,871 | 737,239 | 3,547 | 618,767 | 1,831,391 | 18,253 | 35,896,566 |
| 10/20/2017 | | 1,540,134 | 737,394 | 3,548 | 618,893 | 1,831,765 | 919 | 35,897,485 |
| 10/23/2017 | | 1,570,637 | 749,069 | 3,606 | 622,073 | 1,873,354 | 87,005 | 35,984,490 |
| 10/24/2017 | | 1,579,510 | 753,935 | 3,641 | 624,030 | 1,884,812 | 27,189 | 36,011,679 |
| 10/25/2017 | | 1,588,708 | 758,974 | 3,671 | 628,226 | 1,896,580 | 30,231 | 36,041,910 |
| 10/26/2017 | | 1,595,023 | 762,276 | 3,683 | 630,988 | 1,904,554 | 20,365 | 36,062,275 |
| 10/27/2017 | | 1,595,938 | 767,727 | 3,685 | 631,359 | 1,905,643 | 7,828 | 36,070,103 |
| 10/30/2017 | | 1,627,256 | 779,564 | 3,743 | 645,667 | 1,945,921 | 97,799 | 36,167,902 |
| 10/31/2017 | | 1,640,978 | 787,063 | 3,768 | 652,091 | 1,964,498 | 46,247 | 36,214,149 |
| 11/1/2017 | | 1,652,232 | 793,236 | 3,788 | 656,726 | 1,979,721 | 37,305 | 36,251,454 |
| 11/2/2017 | | 1,662,745 | 799,067 | 3,816 | 660,707 | 1,993,336 | 33,968 | 36,285,422 |
| 11/3/2017 | | 1,674,451 | 805,229 | 3,854 | 665,525 | 2,007,716 | 37,104 | 36,322,526 |
| 11/6/2017[6] | | 1,700,576 | 825,068 | 4,100 | 677,166 | 2,042,760 | 92,895 | 36,415,421 |
| 11/7/2017 | | 1,700,628 | 831,142 | 4,219 | 682,184 | 2,056,936 | 25,439 | 36,440,860 |
| 11/8/2017[6] | | 1,700,639 | 837,756 | 4,221 | 686,975 | 2,068,480 | 22,962 | 36,463,822 |
| 11/9/2017 | | 1,700,639 | 844,203 | 4,221 | 691,299 | 2,068,480 | 10,771 | 36,474,593 |
| 11/10/2017 | | 1,700,639 | 850,753 | 4,221 | 695,667 | 2,068,480 | 10,918 | 36,485,511 |
| 11/13/2017 | | 1,700,639 | 870,195 | 4,221 | 708,628 | 2,068,480 | 32,403 | 36,517,914 |
| 11/15/2017 | | 1,700,639 | 873,969 | 4,266 | 711,210 | 2,068,480 | 6,401 | 36,524,315 |
| 11/16/2017 | | 1,700,639 | 879,988 | 4,307 | 716,225 | 2,068,480 | 11,075 | 36,535,390 |
| 11/17/2017 | | 1,700,639 | 885,426 | 4,347 | 720,757 | 2,068,480 | 10,010 | 36,545,400 |
| 11/20/2017 | | 1,700,639 | 903,463 | 4,381 | 738,149 | 2,068,480 | 35,463 | 36,580,863 |
| 11/21/2017 | | 1,700,639 | 908,896 | 4,488 | 743,365 | 2,068,480 | 10,756 | 36,591,619 |
| 11/22/2017 | | 1,700,639 | 915,308 | 4,590 | 748,705 | 2,068,480 | 11,854 | 36,603,473 |
| 11/27/2017 | | 1,700,639 | 943,104 | 5,092 | 774,007 | 2,068,480 | 53,600 | 36,657,073 |
| 11/28/2017 | | 1,700,639 | 947,893 | 5,177 | 778,412 | 2,068,480 | 9,279 | 36,666,352 |

**Table 1**
**Extraction Well Pumped Water Volumes (gallons)**
**Third Site Superfund Site**
**Zionsville, Indiana**

| Date | Mode | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Period Total | Total Pumped |
|---|---|---|---|---|---|---|---|---|
| 12/1/2017 | Continuous pumping | 1,700,369 | 964,703 | 5,487 | 794,806 | 2,068,480 | 33,244 | 36,699,596 |
| 12/4/2017 | | 1,700,369 | 980,438 | 5,791 | 810,969 | 2,068,480 | 32,202 | 36,731,798 |
| 12/5/2017 | | 1,700,369 | 984,962 | 5,889 | 816,196 | 2,068,480 | 9,849 | 36,741,647 |
| 12/7/2017 | | 1,700,369 | 994,346 | 6,097 | 826,847 | 2,068,480 | 20,243 | 36,761,890 |
| 12/8/2017 | | 1,700,369 | 998,845 | 6,199 | 832,104 | 2,068,480 | 9,858 | 36,771,748 |
| 12/11/2017 | | 1,700,369 | 1,015,993 | 6,504 | 846,716 | 2,068,480 | 32,065 | 36,803,813 |
| 12/13/2017 | | 1,700,730 | 1,026,550 | 6,667 | 856,022 | 2,068,606 | 20,513 | 36,824,326 |
| 12/14/2017 | | 1,700,877 | 1,031,821 | 6,728 | 860,803 | 2,068,777 | 10,431 | 36,834,757 |
| 12/15/2017 | | 1,700,930 | 1,036,093 | 6,796 | 865,048 | 2,068,836 | 8,697 | 36,843,454 |
| 12/18/2017 | | 1,700,983 | 1,052,321 | 6,998 | 879,265 | 2,068,896 | 30,760 | 36,874,214 |
| 12/19/2017 | | 1,700,983 | 1,057,306 | 7,060 | 883,454 | 2,068,896 | 9,236 | 36,883,450 |
| 12/22/2017 | | 1,700,983 | 1,072,461 | 7,219 | 896,118 | 2,068,896 | 27,978 | 36,911,428 |
| 12/26/2017 | | 1,700,983 | 1,078,736 | 7,285 | 901,266 | 2,068,896 | 11,489 | 36,922,917 |
| 1/2/2018 | | 1,700,983 | 1,078,736 | 7,285 | 901,356 | 2,068,896 | 90 | 36,923,007 |
| 1/8/2018 | | 1,700,983 | 1,078,736 | 7,285 | 901,356 | 2,068,896 | 0 | 36,923,007 |
| 1/9/2018 | | 1,700,983 | 1,078,736 | 7,285 | 901,356 | 2,068,896 | 0 | 36,923,007 |
| 1/10/2018 | | 1,700,983 | 1,078,736 | 7,285 | 901,356 | 2,068,896 | 0 | 36,923,007 |
| 1/11/2018 | | 1,700,983 | 1,078,736 | 7,285 | 901,356 | 2,068,896 | 0 | 36,923,007 |
| 1/15/2018 | | 1,700,983 | 1,089,816 | 7,414 | 911,496 | 2,068,896 | 21,349 | 36,944,356 |
| 1/16/2018 | | 1,700,983 | 1,089,816 | 7,414 | 911,496 | 2,068,896 | 0 | 36,944,356 |
| 1/17/2018 | | 1,700,983 | 1,089,816 | 7,414 | 911,496 | 2,068,896 | 0 | 36,944,356 |
| 1/18/2018 | | 1,700,983 | 1,089,816 | 7,414 | 911,496 | 2,068,896 | 0 | 36,944,356 |
| 1/19/2018 | | 1,700,983 | 1,090,004 | 7,416 | 911,678 | 2,068,896 | 372 | 36,944,728 |
| 1/22/2018 | | 1,700,983 | 1,090,931 | 7,431 | 912,448 | 2,068,896 | 1,712 | 36,946,440 |
| 1/23/2018 | | 1,703,869 | 1,097,497 | 7,522 | 917,920 | 2,068,896 | 15,015 | 36,961,455 |
| 1/24/2018 | | 1,718,615 | 1,103,946 | 7,539 | 923,297 | 2,068,896 | 26,589 | 36,988,044 |
| 1/25/2018 | | 1,732,454 | 1,109,765 | 7,620 | 928,689 | 2,068,896 | 25,131 | 37,013,175 |
| 1/26/2018 | | 1,743,836 | 1,114,995 | 7,689 | 933,368 | 2,069,029 | 21,493 | 37,034,668 |
| 1/29/2018 | | 1,778,788 | 1,132,168 | 7,719 | 945,791 | 2,109,165 | 104,714 | 37,139,382 |
| 1/30/2018 | | 1,790,914 | 1,137,863 | 7,787 | 950,010 | 2,121,828 | 34,771 | 37,174,153 |
| 1/31/2018 | | 1,803,125 | 1,143,742 | 7,854 | 954,394 | 2,134,979 | 35,692 | 37,209,845 |
| 2/1/2018 | | 1,814,697 | 1,149,205 | 7,910 | 958,644 | 2,147,730 | 34,092 | 37,243,937 |
| 2/2/2018 | | 1,824,515 | 1,153,545 | 7,942 | 962,290 | 2,158,560 | 28,666 | 37,272,603 |
| 2/5/2018 | | 1,861,501 | 1,168,275 | 8,010 | 978,978 | 2,198,661 | 108,573 | 37,381,176 |
| 2/6/2018 | | 1,873,897 | 1,173,465 | 8,032 | 984,415 | 2,211,709 | 36,093 | 37,417,269 |
| 2/7/2018 | | 1,885,957 | 1,178,525 | 8,079 | 989,782 | 2,224,589 | 35,414 | 37,452,683 |
| 2/8/2018 | | 1,897,287 | 1,183,247 | 8,130 | 994,893 | 2,236,868 | 33,493 | 37,486,176 |
| 2/9/2018 | | 1,908,134 | 1,187,765 | 8,165 | 999,646 | 2,248,743 | 32,028 | 37,518,204 |
| 2/12/2018 | | 1,929,326 | 1,187,765 | 8,175 | 1,000,183 | 2,271,349 | 44,345 | 37,562,549 |
| 2/13/2018 | | 1,940,979 | 1,187,765 | 8,225 | 1,004,346 | 2,283,683 | 28,200 | 37,590,749 |
| 2/14/2018 | | 1,953,729 | 1,188,988 | 8,281 | 1,008,995 | 2,297,640 | 32,635 | 37,623,384 |
| 2/15/2018 | | 1,965,224 | 1,194,225 | 8,327 | 1,013,257 | 2,310,442 | 33,842 | 37,657,226 |
| 2/19/2018 | | 1,969,153 | 1,195,790 | 8,359 | 1,014,560 | 2,313,633 | 10,020 | 37,667,246 |
| 2/20/2018 | | 1,988,654 | 1,202,311 | 8,461 | 1,019,994 | 2,326,675 | 44,600 | 37,711,846 |
| 2/21/2018 | | 2,004,137 | 1,208,909 | 8,554 | 1,025,492 | 2,339,873 | 40,870 | 37,752,716 |
| 2/22/2018 | | 2,021,020 | 1,215,241 | 8,646 | 1,030,768 | 2,352,535 | 41,245 | 37,793,961 |
| 2/23/2018 | | 2,037,962 | 1,221,594 | 8,723 | 1,036,063 | 2,365,241 | 41,373 | 37,835,334 |
| 2/26/2018 | | 2,086,431 | 1,239,768 | 9,039 | 1,050,682 | 2,401,603 | 117,940 | 37,953,274 |
| 2/27/2018 | | 2,099,423 | 1,244,638 | 9,102 | 1,053,929 | 2,411,346 | 30,915 | 37,984,189 |
| 2/28/2018 | | 2,114,178 | 1,250,609 | 9,155 | 1,057,909 | 2,423,289 | 36,702 | 38,020,891 |
| 3/1/2018 | | 2,126,379 | 1,255,927 | 9,216 | 1,061,452 | 2,433,918 | 31,752 | 38,052,643 |
| 3/2/2018 | | 2,140,188 | 1,261,100 | 9,249 | 1,064,903 | 2,444,275 | 32,823 | 38,085,466 |
| 3/5/2018 | | 2,183,539 | 1,278,696 | 9,281 | 1,076,633 | 2,479,465 | 107,899 | 38,193,365 |
| 3/6/2018 | | 2,195,188 | 1,283,882 | 9,302 | 1,080,091 | 2,487,839 | 28,688 | 38,222,053 |
| 3/7/2018 | | 2,205,788 | 1,288,669 | 9,316 | 1,083,283 | 2,499,412 | 30,166 | 38,252,219 |
| 3/8/2018 | | 2,219,804 | 1,294,777 | 9,354 | 1,087,586 | 2,512,324 | 37,377 | 38,289,596 |
| 3/9/2018 | | 2,233,094 | 1,300,664 | 9,390 | 1,091,812 | 2,525,004 | 36,119 | 38,325,715 |
| 3/12/2018 | | 2,272,477 | 1,319,473 | 9,435 | 1,104,489 | 2,563,147 | 109,057 | 38,434,772 |
| 3/13/2018 | | 2,285,699 | 1,325,732 | 9,466 | 1,108,846 | 2,576,224 | 36,946 | 38,471,718 |
| 3/14/2018 | | 2,298,563 | 1,330,663 | 9,501 | 1,113,076 | 2,588,924 | 34,760 | 38,506,478 |
| 3/15/2018 | | 2,308,886 | 1,334,074 | 9,530 | 1,116,396 | 2,598,890 | 27,049 | 38,533,527 |
| 3/16/2018 | | 2,320,751 | 1,337,939 | 9,564 | 1,120,079 | 2,609,964 | 30,521 | 38,564,048 |
| 3/19/2018 | | 2,360,948 | 1,341,488 | 9,608 | 1,132,892 | 2,648,455 | 95,094 | 38,659,142 |
| 3/20/2018 | | 2,373,064 | 1,344,387 | 9,614 | 1,136,728 | 2,660,034 | 30,436 | 38,689,578 |
| 3/21/2018 | | 2,376,784 | 1,345,769 | 9,623 | 1,137,871 | 2,663,501 | 9,721 | 38,699,299 |
| 3/22/2018 | | 2,389,789 | 1,350,499 | 9,653 | 1,142,124 | 2,676,258 | 34,775 | 38,734,074 |
| 3/23/2018 | | 2,402,114 | 1,354,985 | 9,676 | 1,146,118 | 2,688,265 | 32,835 | 38,766,909 |
| 3/26/2018 | | 2,441,710 | 1,365,755 | 9,700 | 1,158,947 | 2,726,785 | 101,739 | 38,868,648 |
| 3/27/2018 | | 2,454,395 | 1,372,521 | 9,725 | 1,163,623 | 2,740,393 | 37,760 | 38,906,408 |
| 3/28/2018 | | 2,470,448 | 1,378,952 | 9,746 | 1,169,672 | 2,753,224 | 41,385 | 38,947,793 |
| 3/29/2018 | | 2,484,917 | 1,385,547 | 9,784 | 1,174,081 | 2,766,442 | 38,729 | 38,986,522 |
| 3/30/2018 | | 2,496,353 | 1,389,893 | 9,833 | 1,178,017 | 2,775,140 | 28,465 | 39,014,987 |

**Table 1**
**Extraction Well Pumped Water Volumes (gallons)**
**Third Site Superfund Site**
**Zionsville, Indiana**

| Date | Mode | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Period Total | Total Pumped |
|---|---|---|---|---|---|---|---|---|
| 4/2/2018 | Continuous pumping | 2,543,083 | 1,409,685 | 9,905 | 1,191,212 | 2,814,727 | 119,376 | 39,134,363 |
| 4/3/2018 | | 2,559,025 | 1,415,673 | 9,937 | 1,195,204 | 2,826,719 | 37,946 | 39,172,309 |
| 4/5/2018 | | 2,590,754 | 1,427,578 | 9,953 | 1,203,140 | 2,850,728 | 75,595 | 39,247,904 |
| 4/6/2018 | | 2,607,485 | 1,433,860 | 9,980 | 1,207,328 | 2,863,295 | 39,795 | 39,287,699 |
| 4/9/2018 | | 2,649,659 | 1,432,197 | 10,007 | 1,219,553 | 2,899,970 | 89,438 | 39,377,137 |
| 4/10/2018 | | 2,662,761 | 1,458,581 | 10,022 | 1,223,935 | 2,913,136 | 57,049 | 39,434,186 |
| 4/11/2018 | | 2,674,470 | 1,463,450 | 10,049 | 1,227,875 | 2,925,003 | 32,412 | 39,466,598 |
| 4/12/2018 | | 2,686,103 | 1,467,862 | 10,070 | 1,231,842 | 2,936,928 | 31,958 | 39,498,556 |
| 4/13/2018 | | 2,697,019 | 1,471,822 | 10,086 | 1,235,605 | 2,948,229 | 29,956 | 39,528,512 |
| 4/16/2018 | | 2,738,148 | 1,488,642 | 10,098 | 1,244,654 | 2,988,886 | 107,667 | 39,636,179 |
| 4/17/2018 | | 2,751,260 | 1,494,437 | 10,118 | 1,254,212 | 3,002,540 | 42,139 | 39,678,318 |
| 4/19/2018 | | 2,751,314 | 1,504,622 | 10,156 | 1,262,689 | 3,027,967 | 44,181 | 39,722,499 |
| 4/20/2018 | | 2,752,436 | 1,508,775 | 10,175 | 1,266,213 | 3,038,555 | 19,406 | 39,741,905 |
| 4/23/2018 | | 2,796,343 | 1,510,699 | 10,186 | 1,279,166 | 3,077,420 | 97,660 | 39,839,565 |
| 4/24/2018 | | 2,798,823 | 1,511,665 | 10,200 | 1,279,814 | 3,079,383 | 6,071 | 39,845,636 |
| 4/25/2018 | | 2,812,733 | 1,516,944 | 10,216 | 1,284,062 | 3,092,132 | 36,202 | 39,881,838 |
| 4/26/2018 | | 2,826,268 | 1,522,074 | 10,223 | 1,288,421 | 3,102,427 | 33,326 | 39,915,164 |
| 4/27/2018 | | 2,839,574 | 1,527,150 | 10,228 | 1,292,766 | 3,102,450 | 22,755 | 39,937,919 |
| 4/30/2018 | | 2,841,684 | 1,527,961 | 10,240 | 1,293,462 | 3,102,450 | 3,629 | 39,941,548 |
| 5/2/2018 | | 2,844,071 | 1,528,896 | 10,245 | 1,294,169 | 3,105,279 | 6,863 | 39,948,411 |
| 5/3/2018 | | 2,854,156 | 1,533,010 | 10,254 | 1,297,458 | 3,118,444 | 30,662 | 39,979,073 |
| 5/4/2018 | | 2,870,071 | 1,539,688 | 10,264 | 1,302,816 | 3,137,380 | 46,897 | 40,025,970 |
| 5/7/2018 | | 2,906,820 | 1,552,763 | 10,268 | 1,315,571 | 3,175,745 | 100,948 | 40,126,918 |
| 5/8/2018 | | 2,919,515 | 1,557,217 | 10,268 | 1,319,356 | 3,189,109 | 34,298 | 40,161,216 |
| 5/9/2018 | | 2,927,947 | 1,560,069 | 10,268 | 1,319,356 | 3,197,672 | 19,847 | 40,181,063 |
| 5/10/2018 | | 2,936,180 | 1,562,298 | 10,269 | 1,319,358 | 3,205,759 | 18,552 | 40,199,615 |
| 5/11/2018 | | 2,947,012 | 1,562,301 | 10,269 | 1,319,538 | 3,216,386 | 21,642 | 40,221,257 |
| 5/14/2018 | | 2,950,204 | 1,562,918 | 10,269 | 1,320,535 | 3,219,399 | 7,819 | 40,229,076 |
| 5/15/2018 | | 2,963,064 | 1,566,103 | 10,269 | 1,320,535 | 3,232,165 | 28,811 | 40,257,887 |
| 5/16/2018 | | 2,975,576 | 1,569,914 | 10,269 | 1,329,142 | 3,245,233 | 37,998 | 40,295,885 |
| 5/17/2018 | | 2,985,251 | 1,573,010 | 10,269 | 1,332,812 | 3,256,250 | 27,458 | 40,323,343 |
| 5/18/2018 | | 2,997,046 | 1,576,813 | 10,269 | 1,337,457 | 3,270,194 | 34,187 | 40,357,530 |
| 5/21/2018 | | 2,999,074 | 1,577,473 | 10,269 | 1,338,207 | 3,272,445 | 5,689 | 40,363,219 |
| 5/23/2018 | | 3,023,008 | 1,580,836 | 10,269 | 1,347,309 | 3,299,754 | 63,708 | 40,426,927 |
| 5/24/2018 | | 3,034,439 | 1,585,212 | 10,269 | 1,351,600 | 3,312,620 | 32,964 | 40,459,891 |
| 5/25/2018 | | 3,045,729 | 1,589,395 | 10,269 | 1,355,778 | 3,325,150 | 32,181 | 40,492,072 |
| 5/29/2018 | | 3,091,316 | 1,605,364 | 10,269 | 1,385,286 | 3,375,604 | 141,518 | 40,633,590 |
| 5/31/2018 | | 3,116,569 | 1,613,538 | 10,269 | 1,386,915 | 3,403,592 | 63,044 | 40,696,634 |
| 6/1/2018 | | 3,128,290 | 1,617,461 | 10,269 | 1,391,287 | 3,410,708 | 27,132 | 40,723,766 |
| 6/4/2018 | | 3,161,269 | 1,628,102 | 10,269 | 1,403,864 | 3,454,444 | 99,933 | 40,823,699 |
| 6/5/2018 | | 3,172,459 | 1,631,661 | 10,269 | 1,409,253 | 3,467,612 | 33,306 | 40,857,005 |
| 6/6/2018 | | 3,181,166 | 1,634,367 | 10,269 | 1,414,352 | 3,477,770 | 26,670 | 40,883,675 |
| 6/8/2018 | | 3,206,046 | 1,641,792 | 10,269 | 1,428,803 | 3,506,712 | 75,698 | 40,959,373 |
| 6/11/2018 | | 3,240,221 | 1,651,002 | 10,269 | 1,447,840 | 3,544,789 | 100,499 | 41,059,872 |
| 6/12/2018 | | 3,249,964 | 1,654,832 | 10,269 | 1,452,973 | 3,555,056 | 28,973 | 41,088,845 |
| 6/13/2018 | | 3,264,022 | 1,660,260 | 10,269 | 1,460,556 | 3,570,218 | 42,231 | 41,131,076 |
| 6/14/2018 | | 3,274,647 | 1,664,132 | 10,269 | 1,466,115 | 3,581,336 | 31,174 | 41,162,250 |
| 6/15/2018 | | 3,287,026 | 1,668,483 | 10,269 | 1,472,445 | 3,593,996 | 35,720 | 41,197,970 |
| 6/18/2018 | | 3,325,150 | 1,681,152 | 10,269 | 1,492,078 | 3,633,263 | 109,693 | 41,307,663 |
| 6/19/2018 | | 3,337,365 | 1,685,051 | 10,269 | 1,498,693 | 3,646,494 | 35,960 | 41,343,623 |
| 6/20/2018 | | 3,349,241 | 1,689,403 | 10,269 | 1,505,124 | 3,659,354 | 35,519 | 41,379,142 |
| 6/21/2018 | | 3,360,675 | 1,693,797 | 10,269 | 1,511,495 | 3,672,098 | 34,943 | 41,414,085 |
| 6/22/2018 | | 3,373,029 | 1,698,896 | 10,269 | 1,518,122 | 3,685,355 | 37,337 | 41,451,422 |
| 6/25/2018 | | 3,406,364 | 1,712,659 | 10,269 | 1,537,367 | 3,723,862 | 104,850 | 41,556,272 |
| 6/26/2018 | | 3,415,998 | 1,716,562 | 10,269 | 1,543,064 | 3,735,271 | 30,643 | 41,586,915 |
| 6/27/2018 | | 3,419,187 | 1,718,013 | 10,269 | 1,544,680 | 3,738,505 | 9,490 | 41,596,405 |
| 6/28/2018 | | 3,429,430 | 1,722,800 | 10,269 | 1,550,543 | 3,750,234 | 32,622 | 41,629,027 |
| 7/2/2018 | | 3,471,579 | 1,741,271 | 10,269 | 1,576,277 | 3,801,706 | 137,826 | 41,766,853 |
| 7/3/2018 | | 3,471,579 | 1,741,271 | 10,269 | 1,576,277 | 3,801,706 | 0 | 41,766,853 |
| 7/5/2018 | | 3,471,827 | 1,741,304 | 10,269 | 1,576,311 | 3,801,774 | 383 | 41,767,236 |
| 7/6/2018 | | 3,483,669 | 1,746,296 | 10,269 | 1,582,417 | 3,813,987 | 35,153 | 41,802,389 |
| 7/9/2018 | | 3,515,486 | 1,759,760 | 10,269 | 1,600,341 | 3,849,855 | 99,073 | 41,901,462 |
| 7/10/2018 | | 3,524,797 | 1,763,100 | 10,269 | 1,605,334 | 3,859,840 | 27,629 | 41,929,091 |
| 7/12/2018 | | 3,546,779 | 1,770,653 | 10,269 | 1,617,017 | 3,883,214 | 64,592 | 41,993,683 |
| 7/13/2018 | | 3,559,108 | 1,774,349 | 10,269 | 1,623,272 | 3,895,727 | 34,793 | 42,028,476 |
| 7/16/2018 | | 3,595,311 | 1,785,984 | 10,269 | 1,643,576 | 3,934,334 | 106,749 | 42,135,225 |
| 7/18/2018 | | 3,618,384 | 1,793,439 | 10,269 | 1,655,655 | 3,960,493 | 68,766 | 42,203,991 |
| 7/20/2018 | | 3,642,194 | 1,800,591 | 10,269 | 1,668,561 | 3,986,306 | 69,681 | 42,273,672 |
| 7/23/2018 | | 3,666,321 | 1,808,432 | 10,269 | 1,681,434 | 4,012,050 | 70,585 | 42,344,257 |
| 7/24/2018 | | 3,678,631 | 1,812,981 | 10,269 | 1,687,589 | 4,024,360 | 35,324 | 42,379,581 |
| 7/25/2018 | | 3,692,393 | 1,817,409 | 10,269 | 1,694,471 | 4,038,123 | 38,835 | 42,418,416 |
| 7/27/2018 | | 3,718,478 | 1,825,222 | 10,269 | 1,707,312 | 4,064,207 | 72,823 | 42,491,239 |
| 7/30/2018 | | 3,757,052 | 1,836,131 | 10,269 | 1,726,800 | 4,102,782 | 107,546 | 42,598,785 |
| 7/31/2018 | | 3,768,051 | 1,838,631 | 10,269 | 1,732,299 | 4,113,779 | 29,995 | 42,628,780 |

**Table 1**
**Extraction Well Pumped Water Volumes (gallons)**
**Third Site Superfund Site**
**Zionsville, Indiana**

| Date | Mode | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Period Total | Total Pumped |
|---|---|---|---|---|---|---|---|---|
| 8/1/2018 | Continuous pumping | 3,778,624 | 1,842,947 | 10,269 | 1,737,585 | 4,124,353 | 30,749 | 42,659,529 |
| 8/2/2018 | | 3,788,236 | 1,846,443 | 10,269 | 1,742,390 | 4,133,965 | 27,525 | 42,687,054 |
| 8/3/2018 | | 3,807,058 | 1,851,036 | 10,269 | 1,749,301 | 4,147,786 | 44,147 | 42,731,201 |
| 8/6/2018 | | 3,838,696 | 1,862,014 | 10,269 | 1,767,620 | 4,184,425 | 97,574 | 42,828,775 |
| 8/7/2018 | | 3,850,621 | 1,865,815 | 10,269 | 1,773,593 | 4,197,072 | 34,346 | 42,863,121 |
| 8/8/2018 | | 3,853,487 | 1,867,239 | 10,269 | 1,775,017 | 4,200,869 | 9,511 | 42,872,632 |
| 8/9/2018 | | 3,854,683 | 1,867,829 | 10,269 | 1,775,606 | 4,202,405 | 3,911 | 42,876,543 |
| 8/10/2018 | | 3,857,978 | 1,869,408 | 10,269 | 1,777,060 | 4,206,818 | 10,741 | 42,887,284 |
| 8/13/2018 | | 3,894,175 | 1,881,633 | 10,269 | 1,789,136 | 4,255,079 | 108,759 | 42,996,043 |
| 8/14/2018 | | 3,894,189 | 1,881,640 | 10,269 | 1,789,136 | 4,255,102 | 44 | 42,996,087 |
| 8/15/2018 | | 3,907,029 | 1,885,813 | 10,269 | 1,793,416 | 4,242,227 | 8,418 | 43,004,505 |
| 8/17/2018 | | 3,929,582 | 1,894,576 | 10,269 | 1,800,930 | 4,302,416 | 99,019 | 43,103,524 |
| 8/20/2018 | | 3,931,996 | 1,895,777 | 10,269 | 1,801,730 | 4,305,620 | 7,619 | 43,111,143 |
| 8/21/2018 | | 3,946,664 | 1,903,110 | 10,269 | 1,805,888 | 4,322,253 | 42,792 | 43,153,935 |
| 8/22/2018 | | 3,959,695 | 1,909,626 | 10,269 | 1,810,963 | 4,342,547 | 44,916 | 43,198,851 |
| 8/23/2018 | | 3,959,790 | 1,909,650 | 10,269 | 1,810,975 | 4,342,579 | 163 | 43,199,014 |
| 8/24/2018 | | 3,970,152 | 1,914,854 | 10,269 | 1,814,449 | 4,356,490 | 32,951 | 43,231,965 |
| 8/27/2018 | | 3,972,036 | 1,915,796 | 10,269 | 1,815,076 | 4,358,999 | 5,962 | 43,237,927 |
| 8/28/2018 | | 3,972,036 | 1,915,796 | 10,269 | 1,815,076 | 4,358,999 | 0 | 43,237,927 |
| 8/29/2018 | | 3,973,447 | 1,916,315 | 10,269 | 1,815,550 | 4,360,917 | 4,322 | 43,242,249 |
| 9/4/2018 | | 3,973,555 | 1,916,573 | 10,269 | 1,815,597 | 4,361,074 | 570 | 43,242,819 |
| 9/5/2018 | | 3,977,322 | 1,918,131 | 10,269 | 1,816,835 | 4,365,035 | 10,524 | 43,253,343 |
| 9/6/2018 | | 3,996,463 | 1,923,056 | 10,269 | 1,820,021 | 4,378,917 | 41,134 | 43,294,477 |
| 9/7/2018 | | 3,995,985 | 1,928,799 | 10,269 | 1,824,321 | 4,396,127 | 26,775 | 43,321,252 |
| 9/10/2018 | | 4,021,670 | 1,940,737 | 10,269 | 1,832,288 | 4,427,972 | 77,435 | 43,398,687 |
| 9/12/2018 | | 4,044,838 | 1,952,306 | 10,269 | 1,839,583 | 4,458,828 | 72,888 | 43,471,575 |
| 9/14/2018 | | 4,047,438 | 1,953,604 | 10,269 | 1,840,874 | 4,462,288 | 8,649 | 43,480,224 |
| 9/17/2018 | | 4,072,586 | 1,966,176 | 10,269 | 1,849,251 | 4,495,812 | 79,621 | 43,559,845 |
| 9/18/2018 | | 4,085,711 | 1,972,739 | 10,269 | 1,853,626 | 4,513,311 | 41,562 | 43,601,407 |
| 9/19/2018 | | 4,097,248 | 1,978,504 | 10,269 | 1,857,469 | 4,528,618 | 36,452 | 43,637,859 |
| 9/21/2018 | | 4,105,889 | 1,982,822 | 10,269 | 1,860,348 | 4,540,130 | 27,350 | 43,665,209 |
| 9/24/2018 | | 4,107,688 | 1,983,719 | 10,269 | 1,860,946 | 4,542,526 | 5,690 | 43,670,899 |
| 9/25/2018 | | 4,118,029 | 1,989,261 | 10,269 | 1,864,638 | 4,557,239 | 34,288 | 43,705,187 |
| 9/26/2018 | | 4,132,421 | 1,996,650 | 10,269 | 1,869,565 | 4,576,905 | 46,374 | 43,751,561 |
| 9/28/2018 | | 4,147,410 | 2,004,910 | 10,269 | 1,875,073 | 4,598,571 | 50,423 | 43,801,984 |
| 10/1/2018 | | 4,183,368 | 2,024,323 | 10,269 | 1,888,024 | 4,648,605 | 118,356 | 43,920,340 |
| 10/2/2018 | | 4,194,997 | 2,030,643 | 10,269 | 1,892,241 | 4,664,857 | 38,418 | 43,958,758 |
| 10/3/2018 | | 4,202,675 | 2,035,830 | 10,269 | 1,895,700 | 4,678,199 | 29,666 | 43,988,424 |
| 10/5/2018 | | 4,204,663 | 2,036,906 | 10,269 | 1,896,420 | 4,681,012 | 6,597 | 43,995,021 |
| 10/8/2018 | | 4,209,990 | 2,039,538 | 10,269 | 1,898,179 | 4,687,913 | 16,619 | 44,011,640 |
| 10/9/2018 | | 4,221,494 | 2,047,316 | 10,269 | 1,903,367 | 4,698,422 | 34,979 | 44,046,619 |
| 10/11/2018 | | 4,239,017 | 2,060,099 | 10,269 | 1,911,891 | 4,715,469 | 55,877 | 44,102,496 |
| 10/15/2018 | | 4,274,308 | 2,086,214 | 10,269 | 1,929,313 | 4,750,291 | 113,650 | 44,216,146 |
| 10/16/2018 | | 4,282,519 | 2,092,358 | 10,269 | 1,933,417 | 4,758,494 | 26,662 | 44,242,808 |
| 10/17/2018 | | 4,286,620 | 2,095,267 | 10,269 | 1,935,375 | 4,762,395 | 12,869 | 44,255,677 |
| 10/22/2018 | | 4,298,558 | 2,099,474 | 10,269 | 1,938,964 | 4,774,411 | 31,750 | 44,287,427 |
| 10/23/2018 | | 4,300,994 | 2,100,083 | 10,269 | 1,939,574 | 4,776,848 | 6,092 | 44,293,519 |
| 10/24/2018 | | 4,303,602 | 2,100,743 | 10,269 | 1,940,235 | 4,779,485 | 6,566 | 44,300,085 |
| 10/25/2018 | | 4,307,585 | 2,101,742 | 10,269 | 1,941,234 | 4,783,479 | 9,975 | 44,310,060 |
| 10/26/2018 | | 4,309,505 | 2,102,205 | 10,269 | 1,941,696 | 4,785,425 | 4,791 | 44,314,851 |
| 10/29/2018 | | 4,311,556 | 2,102,726 | 10,269 | 1,942,218 | 4,787,507 | 5,176 | 44,320,027 |
| 10/31/2018 | | 4,314,895 | 2,103,570 | 10,269 | 1,943,061 | 4,790,874 | 8,393 | 44,328,420 |
| 11/2/2018 | | 4,333,896 | 2,112,959 | 10,269 | 1,952,453 | 4,809,894 | 56,802 | 44,385,222 |
| 11/5/2018 | | 4,360,269 | 2,126,146 | 10,269 | 1,965,639 | 4,836,266 | 79,118 | 44,464,340 |
| 11/7/2018 | | 4,375,737 | 2,133,861 | 10,269 | 1,973,354 | 4,851,756 | 46,388 | 44,510,728 |
| 11/8/2018 | | 4,375,737 | 2,133,861 | 10,269 | 1,973,354 | 4,851,756 | 0 | 44,510,728 |
| 11/9/2018 | | 4,376,122 | 2,133,967 | 10,269 | 1,973,457 | 4,851,954 | 792 | 44,511,520 |
| 11/13/2018 | | 4,439,878 | 2,150,973 | 10,269 | 1,989,398 | 4,883,844 | 128,593 | 44,640,113 |
| 11/14/2018 | | 4,439,878 | 2,155,235 | 10,269 | 1,994,734 | 4,883,844 | 9,598 | 44,649,711 |
| 11/15/2018 | | 4,446,731 | 2,158,728 | 10,269 | 1,998,340 | 4,890,819 | 20,927 | 44,670,638 |
| 11/16/2018 | | 4,460,255 | 2,162,709 | 10,269 | 2,001,713 | 4,904,513 | 34,572 | 44,705,210 |
| 11/19/2018 | | 4,494,510 | 2,177,092 | 10,269 | 2,013,659 | 4,952,278 | 108,349 | 44,813,559 |
| 11/21/2018 | | 4,524,979 | 2,184,881 | 10,269 | 2,021,446 | 4,983,429 | 77,196 | 44,890,755 |
| 11/26/2018 | | 4,594,427 | 2,204,825 | 10,269 | 2,041,389 | 5,063,198 | 189,104 | 45,079,859 |
| 11/27/2018 | | 4,610,994 | 2,208,973 | 10,269 | 2,045,539 | 5,079,798 | 41,465 | 45,121,324 |
| 11/28/2018 | | 4,627,588 | 2,213,112 | 10,269 | 2,049,692 | 5,096,412 | 41,500 | 45,162,824 |
| 11/29/2018 | | 4,641,319 | 2,216,567 | 10,269 | 2,053,147 | 5,110,230 | 34,459 | 45,197,283 |
| 11/30/2018 | | 4,654,052 | 2,219,779 | 10,269 | 2,056,359 | 5,123,076 | 32,003 | 45,229,286 |

**Table 1**
**Extraction Well Pumped Water Volumes (gallons)**
**Third Site Superfund Site**
**Zionsville, Indiana**

| Date | Mode | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Period Total | Total Pumped |
|---|---|---|---|---|---|---|---|---|
| 12/3/2018 | Continuous pumping | 4,695,957 | 2,231,738 | 10,269 | 2,068,317 | 5,170,908 | 113,654 | 45,342,940 |
| 12/5/2018 | | 4,714,834 | 2,240,930 | 10,269 | 2,077,072 | 5,205,928 | 71,844 | 45,414,784 |
| 12/7/2018 | | 4,730,219 | 2,248,186 | 10,269 | 2,084,765 | 5,236,702 | 61,108 | 45,475,892 |
| 12/10/2018 | | 4,756,379 | 2,261,275 | 10,269 | 2,097,836 | 5,289,072 | 104,690 | 45,580,582 |
| 12/12/2018 | | 4,772,155 | 2,269,068 | 10,269 | 2,105,753 | 5,320,671 | 63,085 | 45,643,667 |
| 12/13/2018 | | 4,780,052 | 2,272,594 | 10,269 | 2,109,697 | 5,336,466 | 31,162 | 45,674,829 |
| 12/14/2018 | | 4,788,839 | 2,273,458 | 10,269 | 2,114,075 | 5,354,041 | 31,604 | 45,706,433 |
| 12/17/2018 | | 4,814,817 | 2,273,458 | 10,269 | 2,127,064 | 5,405,998 | 90,924 | 45,797,357 |
| 12/20/2018 | | 4,821,749 | 2,273,459 | 10,269 | 2,139,418 | 5,455,618 | 68,907 | 45,866,264 |
| 12/21/2018[8] | | 4,822,887 | 2,273,472 | 10,269 | 2,143,235 | 5,471,214 | 20,564 | 45,886,828 |
| 12/24/2018 | | 38,196 | 10,156 | 0 | 11,827 | 43,271 | 103,450 | 45,990,278 |
| 12/26/2018 | | 66,656 | 17,423 | 0 | 19,978 | 74,336 | 74,943 | 46,065,221 |
| 12/27/2018 | | 76,770 | 19,988 | 0 | 22,811 | 85,224 | 26,400 | 46,091,621 |
| 1/2/2019 | | 76,770 | 19,988 | 0 | 22,811 | 85,224 | 0 | 46,091,621 |
| 1/3/2019 | | 76,770 | 19,988 | 0 | 22,811 | 85,224 | 0 | 46,091,621 |
| 1/4/2019 | | 76,888 | 20,015 | 0 | 22,848 | 85,385 | 343 | 46,091,964 |
| 1/7/2019 | | 115,205 | 29,432 | 0 | 32,813 | 126,434 | 98,748 | 46,190,712 |
| 1/8/2019 | | 125,796 | 32,040 | 0 | 35,428 | 137,444 | 26,824 | 46,217,536 |
| 1/9/2019 | | 136,409 | 35,150 | 0 | 28,044 | 148,510 | 17,405 | 46,234,941 |
| 1/10/2019 | | 150,042 | 38,421 | 0 | 40,679 | 159,694 | 40,723 | 46,275,664 |
| 1/11/2019 | | 164,223 | 42,751 | 0 | 44,078 | 174,618 | 36,834 | 46,312,498 |
| 1/14/2019 | | 199,651 | 53,686 | 0 | 52,527 | 212,087 | 92,281 | 46,404,779 |
| 1/15/2019 | | 213,893 | 58,070 | 0 | 52,822 | 227,174 | 34,008 | 46,438,787 |
| 1/16/2019 | | 227,175 | 62,156 | 0 | 58,868 | 241,435 | 37,675 | 46,476,462 |
| 1/17/2019 | | 240,443 | 66,260 | 0 | 61,904 | 255,788 | 34,761 | 46,511,223 |
| 1/18/2019 | | 252,054 | 69,841 | 0 | 64,623 | 268,368 | 30,491 | 46,541,714 |
| 1/21/2019 | | 293,225 | 82,249 | 0 | 75,293 | 313,491 | 109,372 | 46,651,086 |
| 1/22/2019 | | 305,421 | 86,027 | 0 | 78,522 | 327,564 | 33,276 | 46,684,362 |
| 1/23/2019 | | 318,516 | 90,016 | 0 | 82,566 | 342,659 | 36,223 | 46,720,585 |
| 1/24/2019 | | 331,626 | 93,931 | 0 | 87,800 | 357,143 | 36,743 | 46,757,328 |
| 1/25/2019 | | 344,203 | 97,644 | 0 | 91,943 | 371,291 | 34,581 | 46,791,909 |
| 1/28/2019 | | 380,679 | 108,704 | 0 | 102,591 | 414,816 | 101,709 | 46,893,618 |
| 1/29/2019 | | 392,717 | 112,398 | 0 | 105,963 | 429,176 | 33,464 | 46,927,082 |
| 1/30/2019 | | 407,926 | 117,110 | 0 | 110,331 | 447,987 | 43,100 | 46,970,182 |
| 1/31/2019 | | 407,926 | 117,110 | 0 | 110,331 | 447,987 | 0 | 46,970,182 |
| 2/4/2019 | | 407,926 | 117,110 | 0 | 110,970 | 450,607 | 3,259 | 46,973,441 |
| 2/5/2019 | | 407,926 | 117,110 | 0 | 114,687 | 465,339 | 18,449 | 46,991,890 |
| 2/6/2019 | | 407,926 | 117,110 | 0 | 118,726 | 479,370 | 18,070 | 47,009,960 |
| 2/7/2019 | | 410,648 | 117,110 | 0 | 123,761 | 493,942 | 22,329 | 47,032,289 |
| 2/8/2019 | | 422,609 | 117,110 | 0 | 128,340 | 505,939 | 28,537 | 47,060,826 |
| 2/11/2019 | | 463,303 | 117,110 | 0 | 140,006 | 548,533 | 94,954 | 47,155,780 |
| 2/12/2019 | | 488,777 | 117,110 | 0 | 148,129 | 576,486 | 61,550 | 47,217,330 |
| 2/15/2019 | | 511,984 | 117,110 | 0 | 155,265 | 602,763 | 56,620 | 47,273,950 |
| 2/18/2019 | | 548,597 | 117,110 | 0 | 166,427 | 645,990 | 91,002 | 47,364,952 |
| 2/20/2019 | | 572,518 | 117,110 | 0 | 173,456 | 674,262 | 59,222 | 47,424,174 |
| 2/21/2019 | | 584,482 | 117,110 | 0 | 177,271 | 688,399 | 29,916 | 47,454,090 |
| 2/22/2019 | | 596,127 | 117,110 | 0 | 181,031 | 702,164 | 29,170 | 47,483,260 |
| 2/25/2019 | | 629,706 | 117,110 | 0 | 192,708 | 744,012 | 87,104 | 47,570,364 |
| 2/27/2019 | | 651,397 | 117,110 | 0 | 200,296 | 772,212 | 57,479 | 47,627,843 |
| 3/1/2019 | | 672,796 | 117,110 | 0 | 207,423 | 800,831 | 57,145 | 47,684,988 |
| 3/4/2019 | | 695,564 | 117,110 | 0 | 214,666 | 829,223 | 58,403 | 47,743,391 |
| 3/11/2019 | | 697,879 | 117,258 | 0 | 215,343 | 831,602 | 5,519 | 47,748,910 |
| 3/12/2019 | | 712,219 | 123,778 | 0 | 219,352 | 845,936 | 39,203 | 47,788,113 |
| 3/13/2019 | | 712,473 | 123,913 | 0 | 219,429 | 846,234 | 764 | 47,788,877 |
| 3/15/2019 | | 736,938 | 132,398 | 0 | 226,092 | 871,164 | 64,543 | 47,853,420 |
| 3/18/2019 | | 773,341 | 143,032 | 0 | 236,214 | 910,673 | 96,668 | 47,950,088 |
| 3/19/2019 | | 784,601 | 146,343 | 0 | 239,282 | 922,908 | 29,874 | 47,979,962 |
| 3/20/2019 | | 798,053 | 150,300 | 0 | 242,917 | 937,479 | 35,615 | 48,015,577 |
| 3/22/2019 | | 820,763 | 157,030 | 0 | 249,165 | 962,468 | 60,677 | 48,076,254 |
| 3/25/2019 | | 855,850 | 167,562 | 0 | 258,804 | 1,001,016 | 93,806 | 48,170,060 |
| 3/26/2019 | | 868,974 | 171,399 | 0 | 262,259 | 1,015,272 | 34,672 | 48,204,732 |
| 3/27/2019 | | 881,213 | 175,076 | 0 | 265,521 | 1,028,926 | 32,832 | 48,237,564 |
| 3/28/2019 | | 893,110 | 178,862 | 0 | 268,945 | 1,042,984 | 33,165 | 48,270,729 |
| 3/29/2019 | | 905,754 | 182,885 | 0 | 272,622 | 1,057,206 | 34,566 | 48,305,295 |
| 4/1/2019 | | 906,011 | 182,968 | 0 | 272,709 | 1,057,555 | 776 | 48,306,071 |
| 4/2/2019 | | 918,549 | 186,626 | 0 | 276,497 | 1,072,177 | 34,606 | 48,340,677 |
| 4/3/2019 | | 931,639 | 190,444 | 0 | 280,172 | 1,087,447 | 35,853 | 48,376,530 |
| 4/4/2019 | | 943,927 | 194,262 | 0 | 283,726 | 1,102,542 | 34,755 | 48,411,285 |
| 4/5/2019 | | 955,637 | 197,987 | 0 | 287,028 | 1,116,658 | 32,853 | 48,444,138 |
| 4/8/2019 | | 990,731 | 209,153 | 0 | 296,536 | 1,155,176 | 94,286 | 48,538,424 |
| 4/9/2019 | | 1,002,915 | 213,030 | 0 | 299,869 | 1,168,469 | 32,687 | 48,571,111 |
| 4/10/2019 | | 1,014,167 | 216,619 | 0 | 302,954 | 1,180,784 | 30,241 | 48,601,352 |
| 4/12/2019 | | 1,035,769 | 223,493 | 0 | 308,877 | 1,204,348 | 57,963 | 48,659,315 |
| 4/15/2019 | | 1,071,166 | 235,509 | 0 | 319,147 | 1,245,498 | 98,833 | 48,758,148 |
| 4/22/2019 | | 1,146,421 | 262,244 | 0 | 341,390 | 1,335,825 | 214,560 | 48,972,708 |
| 4/23/2019 | | 1,154,605 | 265,154 | 0 | 343,893 | 1,345,805 | 23,577 | 48,996,285 |
| 4/24/2019 | | 1,163,260 | 268,154 | 0 | 346,446 | 1,356,099 | 24,502 | 49,020,787 |
| 4/25/2019 | | 1,171,557 | 271,060 | 0 | 348,958 | 1,366,069 | 23,685 | 49,044,472 |
| 4/26/2019 | | 1,180,146 | 274,081 | 0 | 351,548 | 1,376,503 | 24,634 | 49,069,106 |
| 4/29/2019 | | 1,210,791 | 284,820 | 0 | 360,718 | 1,413,343 | 87,394 | 49,156,500 |
| 4/30/2019 | | 1,221,488 | 288,572 | 0 | 363,935 | 1,426,212 | 30,535 | 49,187,035 |

See notes on next page.

**Table 1**
**Extraction Well Pumped Water Volumes (gallons)**
**Third Site Superfund Site**
**Zionsville, Indiana**

| Date | Mode | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Period Total | Total Pumped |
|---|---|---|---|---|---|---|---|---|

Notes:
1. Flow totalizer reset on December 11, 2013 during work on PLC.
2. Third Site system shut down 6/19/2014 though the end of the month due to equipment malfuctions and pumping did not resume until 7/21/2014.
3. Flow totalizer reset on February 25, 2015 due to electical issue assoicated with surge protector. Pump and treatment was down between February 25 and April 2, 2015 due to the loss and replacement of electrical communication between Third Site and ECC.
4. Third Site system shut down on December 14 due to PLC card failure in the PLC panel. Extraction wells shut down on December 15. System restarted on December 29 after PLC was repaired and frozen lines had thawed out.
5. Flow totalizers reset on April 5, 2017 in order for the EW-5 totalizer to register flow.
6. Transducer in EW-1 stopped working on November 6, 2017; transducer in EW-3 may be giving false readings in November 2017; transducer in EW-5 stopped working on November 8, 2017. EW-1 and EW-5 transducers replaced in January 2018.
7. EW-3 was shut down in May 2018 due to damage to that well that occurred during ERH construction.
8. Flow totalizers reset on December 21, 2018.



ED_012957A_00000407-00028

RAMBOLL

# ATTACHMENT C

## March 2019 Remedial Progress Monitoring Data

SOURCE: AERIAL IMAGERY: GOOGLE EARTH™, IMAGE DATED 10/22/2016.

LEGEND

- MONITORING WELL
- PREVIOUS DIRECT PUSH SAMPLE LOCATION
- EXTRACTION WELL LOCATION
- SURFACE WATER AND SEDIMENT SAMPLE LOCATION
- PIEZOMETER LOCATION
- RESIDENTIAL WELL
- SOIL BORING
- PROPERTY LINE
- FENCE LINE
- DNAPL CONTAINMENT AREA
- SVE AREA

0 180
SCALE IN FEET

**SAMPLE LOCATION MAP**
THIRD SITE
985 SOUTH U.S. HIGHWAY 421
ZIONSVILLE, INDIANA

RAMBOLL

FIGURE
**1**

DRAFTED BY: CKL | DATE: 4/6/18 | 1690004786

L:\Loop Project Files_CAD\1690004786_Third Site_General Consulting_PHII\01_Sample Location Map.dwg

# TABLE 2
## Groundwater Monitoring Analytical Results Summary (ug/L)
### Plume 1 and 2 Monitoring Wells with Pump and Treat Shut Down Criteria
### Third Site Superfund Site, Zionsville, Indiana

| LOCATION | Groundwater Action Levels (GAL)[2] | PLUME 1 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-20 | | | | | | | | | | | | | | | | | | | | | | | |
| COLLECTION DATE | | 11/30/99 | 10/18/02 | 8/30/12 | 5/21/14 | 8/27/14 | 12/17/14 | 3/4/15 | 6/10/15 | 9/21/15 | 12/9/15 | 3/16/16 | 6/8/16 | 9/13/16 | 12/7/16 | 3/22/17 | 6/14/17 | 10/11/17 | 12/13/17 | 3/20/18 | 6/13/18 | 9/11/18 | 12/12/18 | 3/12/19 |
| COMMENT | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | 990 | 390 | 270 | 230 | 484 J | 118 | 174 | 436 | 327 | 127 | 95.8 | 54 | 50.6 | 40.3 | 32.6 | 27.4 | 23.1 | 19.7 | 17.8 | 12.5 | 15.0 | 19.6 | 10.4 | 13.1 |
| 1,1-Dichloroethene | 7 | 1 J | <25 | <13 | <5.0 | <5.0 | <5.0 | <5.0 | 1.2 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| cis-1,2-Dichloroethene | 70 | 1,500 | 810 J | 360 | 1,310 J | 128 | 463 | 1,260 | 968 | 268 | 194 | 96.4 | 97.5 | 98.2 | 95.0 | 89.7 | 83.6 | 102 | 80.6 | 51.9 | 72.3 | 83.6 | 61.1 | 65.5 |
| trans-1,2-Dichlorothene | 100 | 26 | 14 | 2.2 J | 42.7 | <5.0 | 8.8 | 44.8 | 38.3 | 8.0 | <5.0 | <1.0 | <1.0 | 1.1 | <1.0 | <1.0 | <1.0 | 1.1 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Tetrachloroethene | 5 | <10 | <25 | <13 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,1-Trichloroethane | 200 | 2 J | 5 J | <13 | 20.2 | <5.0 | 6.2 | 14.8 | 16.3 J | 3.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | 5 | <10 | <25 | <13 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Trichloroethene | 5 | 3 J | <18 | <13 | 18.3 | <5.0 | <5.0 | 11.5 | 9.9 | 1.7 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Vinyl Chloride | 2 | 340 | 400 | 580 | 428 J | 400 | 238 | 348 | 258 | 137 | 244 | 111 | 171 | 116 | 97.7 | 98 | 49.4 | 77.7 | 74.6 | 48.4 | 63.6 | 102 | 44.8 | 62.1 |
| Other VOCs | n/a | 66.0 | n/a | 67.0 | 41.0 | 74.5 | 30.6 | 39.5 | 25.8 | 16.7 | 85.2 | 30.2 | 72.6 | 59.5 | 36.2 | 27.7 | 10.0 | 36.9 | 8.0 | 0.0 | 10.9 | 21.5 | 0.0 | 9.5 |
| Total VOCs | n/a | 2,328 | 1499 [5] | 1,237.0 | 2,344.2 | 720.5 | 920.6 | 2,154.6 | 1,644.5 | 561.4 | 619.0 | 291.6 | 391.7 | 315.1 | 261.5 | 242.8 | 166.1 | 237.4 | 181.0 | 112.8 | 161.8 | 226.7 | 116.3 | 150.2 |
| P&T Shut Down Criteria[6] | n/a | 232.8 | 232.8 | 232.8 | 232.8 | 232.8 | 232.8 | 232.8 | 232.8 | 232.8 | 232.8 | 232.8 | 232.8 | 232.8 | 232.8 | 232.8 | 232.8 | 232.8 | 232.8 | 232.8 | 232.8 | 232.8 | 232.8 | 232.8 |

Notes:

1. Bolded values in table are above respective Groundwater Action Levels or P&T shut down criteria.
2. Groundwater Action Levels (GAL) to be achieved after completion of monitored natural attenuation from Enforcement Action Memorandum dated May 11, 2001; Equivalent to MCL/IDEM Tier I Default Criteria of Table 2-7-C of the October 2000 EE/CA and Table 4 of the Design Report.
3. J = Estimated concentration.
4. n/a = Not applicable
5. Samples collected in October 2002 were analyzed for the nine target COC only and not the full 8260 VOC list.
6. P&T Shut Down Criteria from Table 4 of the March 2004 Design Report. Values represent 10% of total VOC concentrations presented in Table 2-5 of the October 2000 EE/CA. For MW-27, MW-28, and MW-29, values provided represent 10% of total VOC concentrations from the 2012 sampling event (the most recent pre-pumping event). Please note that the GALs are the ultimate cleanup criteria after 10 years monitored natural attenuation as indicated in Note 2. As such, per Table 4 of the Design Report, P&T shutdown criteria are met when the wells in the plume either meet the GAL or show a 90% reduction in total VOC.
7. MW-27R abandonded in March 2018 due to ERH remedial activities in the DNAPL area.
8. MW-27R installed by McMillin McGee prior to September 2018 sampling event and designated as MW-27R-1. The new MW-27R-1 well screen interval is approx. 8-17ft bgs; the screen interval for the well it replaced (MW-27R) was approx. 6-11ft bgs.
9. MW-27R-1 abandoned due to incorrect screen interval. Re-installed as MW-27R-2 as a stainless steel 2" well. 5-foot screen set from 10-15'. March 2019 is first sampling event



ED_012957A_00000407-00031

TABLE 2
Groundwater Monitoring Analytical Results Summary (ug/L)
Plume 1 and 2 Monitoring Wells with Pump and Treat Shut Down Criteria
Third Site Superfund Site, Zionsville, Indiana

| LOCATION | Groundwater Action Levels (GAL)[2] | PLUME 1 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-22 | | | | | | | | | | | | | | | | | | | | | | | |
| COLLECTION DATE | | 12/1/99 | 10/18/02 | 8/30/12 | 5/20/14 | 8/26/14 | 12/16/14 | 3/4/15 | 6/10/15 | 9/21/15 | 12/8/15 | 3/15/16 | 6/8/16 | 9/12/16 | 12/6/16 | 3/21/17 | 6/14/17 | 10/10/17 | 12/13/17 | 3/21/18 | 6/13/18 | 9/11/18 | 12/11/18 | 3/12/19 |
| COMMENT | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | 990 | 670 J | 750 | 670 | 125 | 74.9 | 45.6 | 17.6 | 14.6 | 4.0 | <5.0 | 5.6 | <1.0 | <2.0 | 2.3 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.1 |
| 1,1-Dichloroethene | 7 | 10 J | <5 | <40 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| cis-1,2-Dichloroethene | 70 | 4,700 J | 5,300 J | 7,100 J | 1,550 | 954 | 744 | 493 | 302 | 646 | 957 | 227 | 493 | 450 | 362 | 304 | 364 | 289 | 325 | 257 | 246 | 205 | 279 | 288 |
| trans-1,2-Dichlorothene | 100 | 28 | 72 | 140 | 45.8 | 34.6 | 27.9 | 15.9 | 11.4 | 25.5 | 26.8 | 9.1 | 15.2 | 22.1 | 14.4 | 10 | 12 | 9.3 | 9.1 | 5.6 | 5.8 | 4.3 | 4.4 | 5.1 |
| Tetrachloroethene | 5 | <10 | <5 | <40 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,1-Trichloroethane | 200 | <10 | <5 | <40 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | 5 | <10 | <5 | <40 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Trichloroethene | 5 | <10 | <5 | <40 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Vinyl Chloride | 2 | 860 J | 240 J | 130 | 12.9 | 11.1 | 5.3 | 4.9 | 5.1 | 6.4 | 12.5 | <2.0 | 8.4 | 8.7 | 8.5 | 7.5 | 10.1 | 7.9 | 16.4 | 8.6 | 4.4 | 6.8 | 8.0 | 9.3 |
| Other VOCs | n/a | 37.0 | n/a | 118.8 | 29.3 | 39.0 | 30.6 | 32.3 | 17.8 | 32.0 | 47.1 | 7.6 | 28.8 | 15.3 | 26.9 | 17.5 | 0.0 | 0.0 | 0.0 | 4.7 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total VOCs | n/a | 6,305 | 6362[5] | 8,158.8 | 1,763 | 1,113.6 | 807.8 | 563.7 | 350.9 | 713.9 | 1,043.4 | 249.3 | 545.4 | 496.1 | 414.1 | 339.0 | 386.1 | 286.2 | 350.5 | 275.9 | 256.2 | 216.1 | 291.4 | 303.5 |
| P&T Shut Down Criteria[6] | n/a | 630.5 | 630.5 | 630.5 | 630.5 | 630.5 | 630.5 | 630.5 | 630.5 | 630.5 | 630.5 | 630.5 | 630.5 | 630.5 | 630.5 | 630.5 | 630.5 | 630.5 | 630.5 | 630.5 | 630.5 | 630.5 | 630.5 | 630.5 |

Notes:
1. Bolded values in table are above respective Groundwater Action Levels or P&T shut down criteria.
2. Groundwater Action Levels (GAL) to be achieved after completion of monitored natural attenuation from Enforcement Action Memorandum dated May 11, 2001, Equivalent to MCL/IDEM Tier I Default Criteria of Table 2-7-C of the October 2000 EE/CA and Table 4 of the Design Report.

3. J = Estimated concentration.
4. n/a = Not applicable
5. Samples collected in October 2002 were analyzed for the nine target COC only and not the full 8260 VOC list.
6. P&T Shut Down Criteria from Table 4 of the March 2004 Design Report. Values represent 10% of total VOC concentrations presented in Table 2-5 of the October 2000 EE/CA. For MW-27, MW-28, and MW-29, values provided represent 10% of total VOC concentrations from the 2012 sampling event (the most recent pre-pumping event). Please note that the GALs are the ultimate cleanup criteria after 10 years monitored natural attenuation as indicated in Note 2. As such, per Table 4 of the Design Report, P&T shutdown criteria are met when the wells in the plume either meet the GAL or show a 90% reduction in total VOC.

7. MW-27R abandonded in March 2016 due to ERH remedial activities in the DNAPL area.

8. MW-27R installed by McMillin McGee prior to September 2018 sampling event and designated as MW-27R-1. The new MW-27R-1 well screen interval is approx. 6-17ft bgs; the screen interval for the well it replaced (MW-27R) was approx. 6-11ft bgs.
9. MW-27R-1 abandoned due to incorrect screen interval. Re-installed as MW-27R-2 as a stainless steel 2" well. 5-foot screen set from 10-15'. March 2019 is first sampling event

TABLE 2
Groundwater Monitoring Analytical Results Summary (ug/L)
Plume 1 and 2 Monitoring Wells with Pump and Treat Shut Down Criteria
Third Site Superfund Site, Zionsville, Indiana

| LOCATION | Groundwater Action Levels (GAL)[2] | PLUME 1 | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-23 | | | | | | | | | | | | | | | | | | | | | | |
| COLLECTION DATE | | 11/30/99 | 11/16/12 | 5/21/14 | 8/26/14 | 12/16/14 | 3/4/15 | 6/10/15 | 9/21/15 | 12/9/15 | 3/15/16 | 6/8/16 | 9/12/16 | 12/6/16 | 3/22/17 | 6/14/17 | 10/10/17 | 12/13/17 | 3/20/18 | 6/13/18 | 9/11/18 | 12/12/18 | 3/12/19 |
| COMMENT | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | 990 | 11.0 | 6.2 | 10.3 | 15.8 | 9.6 | 7.4 | 8.6 | 5.3 | <5.0 | 1.1 | <1.0 | 1.6 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethene | 7 | <10 | 0.23 J | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| cis-1,2-Dichloroethene | 70 | 5 J | 690 | 757 J | 400 | 171 | 138 | 111 | 64.3 | 26.4 | 9.4 | 10.1 | 6.7 | 3.5 | <1.0 | 2.3 | 1.8 | 1.1 | <1.0 | 1.4 | <1.0 | <1.0 | <1.0 |
| trans-1,2-Dichlorothene | 100 | <10 | 1.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Tetrachloroethene | 5 | <10 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,1-Trichloroethane | 200 | <10 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | 5 | <10 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Trichloroethene | 5 | <10 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Vinyl Chloride | 2 | 35.0 | 1,100 | 645 J | 424 | 43.9 | 26.4 | 79.4 | 13.0 | 9.4 | 1.5 | 4.7 | 4.1 | 2.3 | <1.0 | 1.6 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Other VOCs | n/a | 12.0 | 1,200.6 | 394 | 91.1 | 10.9 | 6.1 | 22.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total VOCs | n/a | 63.0 | 2,998.5 | 1,806.3 | 930.9 | 235.4 | 177.9 | 221.4 | 82.6 | 35.8 | 12.0 | 14.8 | 12.4 | 5.8 | 0.0 | 3.9 | 1.8 | 1.1 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 |
| P&T Shut Down Criteria[6] | n/a | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 |

Notes:
1. Bolded values in table are above respective Groundwater Action Levels or P&T shut down criteria.
2. Groundwater Action Levels (GAL) to be achieved after completion of monitored natural attenuation from Enforcement Action Memorandum dated May 11, 2001; Equivalent to MCL/DEM Tier I Default Criteria of Table 2-7-C of the October 2000 EE/CA and Table 4 of the Design Report.

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5. Samples collected in October 2002 were analyzed for the nine target COC only and not the full 8260 VOC list.
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TABLE 2
Groundwater Monitoring Analytical Results Summary (ug/L)
Plume 1 and 2 Monitoring Wells with Pump and Treat Shut Down Criteria
Third Site Superfund Site, Zionsville, Indiana

| LOCATION | Groundwater Action Levels (GAL)[2] | PLUME 1 | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-24 | | | | | | | | | | | | | | | | | | | | | | | | |
| COLLECTION DATE | | 11/30/99 | 10/17/02 | 11/16/12 | 5/21/14 | 8/26/14 | 12/17/14 | 3/5/15 | 6/10/15 | 9/22/15 | 12/10/15 | 3/16/16 | 3/16/16 | 6/9/16 | 9/12/16 | 12/7/16 | 3/22/17 | 6/14/17 | 10/11/17 | 12/12/17 | 3/20/18 | 6/13/18 | 9/11/18 | 12/12/18 | 3/12/19 |
| COMMENT | | | | | | | | | | | | | Duplicate | | | | | | | | | | | | | |
| 1,1-Dichloroethane | 990 | 160 | 180 | 36.0 | 10.8 | <5.0 | <5.0 | 1.6 | 3.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | 1.5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.3 | <1.0 | <1.0 | 2.6 |
| 1,1-Dichloroethene | 7 | 2 J | 3 J | 0.33 J | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| cis-1,2-Dichloroethene | 70 | 1,100 | 620 J | 68.0 | 14.6 | <5.0 | <5.0 | 4.6 | 2.1 | 2.4 | <5.0 | 1.5 | 1.4 | <1.0 | 1.5 | <1.0 | <1.0 | 1.5 | 1.3 | <1.0 | <1.0 | 4.5 | 13.5 | 8.3 | 2.9 |
| trans-1,2-Dichlorothene | 100 | 24 | 16 | 0.96 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 4.7 |
| Tetrachloroethene | 5 | <10 | <5 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,1-Trichloroethane | 200 | 110 | 89 | 30.0 | 11.9 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | 5 | <10 | <5 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Trichloroethene | 5 | 1 JB | 4 J | 0.33 J | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Vinyl Chloride | 2 | 150 | 170 | 93.0 | <2.0 | <2.0 | <2.0 | <1.0 | 1.1 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 18.3 | 3.0 | 2.6 |
| Other VOCs | n/a | 102 | n/a | 87.9 | 52.4 | 59.5 | 18.5 | 12.0 | 52.6 | 23.6 | 47.0 | 17.8 | 17.7 | 34.5 | 51.2 | 43.5 | 38.3 | 52.8 | 11.8 | 45.6 | 38.1 | 74.1 | 72.2 | 103.6 | 497.9 |
| Total VOCs | n/a | 1,649.0 | 1082[5] | 316.5 | 89.7 | 59.5 | 18.5 | 18.2 | 58.8 | 26.0 | 47.0 | 19.3 | 19.1 | 34.5 | 54.2 | 43.5 | 38.3 | 54.3 | 13.1 | 45.6 | 38.1 | 79.9 | 104 | 114.9 | 510.7 |
| P&T Shut Down Criteria[6] | n/a | 164.9 | 164.9 | 164.9 | 164.9 | 164.9 | 164.9 | 164.9 | 164.9 | 164.9 | 164.9 | 164.9 | 164.9 | 164.9 | 164.9 | 164.9 | 164.9 | 164.9 | 164.9 | 164.9 | 164.9 | 164.9 | 164.9 | 164.9 | 164.9 |

Notes:
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TABLE 2
Groundwater Monitoring Analytical Results Summary (ug/L)
Plume 1 and 2 Monitoring Wells with Pump and Treat Shut Down Criteria
Third Site Superfund Site, Zionsville, Indiana

| LOCATION | Groundwater Action Levels (GAL)[2] | PLUME 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-25 | | MW-25R | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COLLECTION DATE | | 11/30/99 | 10/17/02 | 11/16/12 | 11/16/12 | 5/20/14 | 8/26/14 | 12/17/14 | 3/5/15 | 6/9/15 | 9/22/15 | 9/22/15 | 12/9/15 | 12/9/15 | 3/16/16 | 6/9/16 | 9/12/16 | 12/7/16 | 3/22/17 | 6/14/17 | 10/11/17 | 12/12/17 | 3/20/18 | 6/13/18 | 6/13/18 | 9/11/18 | 12/12/18 | 12/12/18 | 3/12/19 | 3/12/19 |
| COMMENT | | | | | Duplicate | | | | | | | Duplicate | | Duplicate | | | | | | | | | | | Duplicate | | | Duplicate | | Duplicate |
| 1,1-Dichloroethane | 990 | 88.0 | 130 | 65.0 | 65.0 | 19.5 | 10.8 | <5.0 | 2.4 | 5.9 | 1.6 | 1.8 | 13.1 | 10.6 | 1.1 | 1.6 | 1.4 | 1.2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 120 | 121 |
| 1,1-Dichloroethene | 7 | <10 | <5.0 | 0.26 J | 0.22 J | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| cis-1,2-Dichloroethene | 70 | 44.0 | 42 J | 31.0 | 30.0 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 111 | 111 |
| trans-1,2-Dichlorothene | 100 | 2 J | 6.0 | 1.2 | 1.2 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 5.1 | 5.0 |
| Tetrachloroethene | 5 | <10 | <5.0 | <0.5 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,1-Trichloroethane | 200 | <10 | 2 J | 20.0 | 20.0 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | 5 | <10 | <5.0 | <0.5 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Trichloroethene | 5 | <10 | 1 J | 1.4 | 1.4 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 2.6 | 2.8 |
| Vinyl Chloride | 2 | 160 | 55.0 | 47.0 | 47.0 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.3 | <1.0 | <1.0 | 33.8 | 34.7 |
| Other VOCs | n/a | 160 | n/a | 77.6 | 77.7 | 119.8 | 106.8 | 84.8 | 66.8 | 68.4 | 62.2 | 70.3 | 70.7 | 65.8 | 71.4 | 70.8 | 71.3 | 66.7 | 69.3 | 80.1 | 62.6 | 53.6 | 98.8 | 109.4 | 104.3 | 68.9 | 107.9 | 104.6 | 125.9 | 125.9 |
| Total VOCs | n/a | 454.0 | 236 [5] | 243.4 | 242.5 | 139.3 | 117.6 | 84.8 | 69.2 | 74.3 | 63.8 | 72.1 | 83.8 | 76.4 | 72.5 | 72.4 | 72.7 | 67.9 | 69.3 | 80.1 | 62.6 | 53.6 | 98.8 | 109.4 | 104.3 | 70.2 | 107.9 | 104.6 | 398.4 | 400.4 |
| P&T Shut Down Criteria[6] | n/a | 45.4 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 | 45.2 |

Notes:
1. Bolded values in table are above respective Groundwater Action Levels or P&T shut down criteria.
2. Groundwater Action Levels (GAL) to be achieved after completion of monitored natural attenuation from Enforcement Action Memorandum dated May 11, 2001; Equivalent to MCL/IDEM Tier I Default Criteria of Table 2-7-C of the October 2000 EE/CA and Table 4 of the Design Report.

3. J = Estimated concentration.
4. n/a = Not applicable
5. Samples collected in October 2002 were analyzed for the nine target COC only and not the full 8260 VOC list.
6. P&T Shut Down Criteria from Table 4 of the March 2004 Design Report. Values represent 10% of total VOC concentrations presented in Table 2-5 of the October 2000 EE/CA. For MW-27, MW-28, and MW-29, values provided represent 10% of total VOC concentrations from the 2012 sampling event (the most recent pre-pumping event). Please note that the GALs are the ultimate cleanup criteria after 10 years monitored natural attenuation as indicated in Note 2. As such, per Table 4 of the Design Report, P&T shutdown criteria are met when the wells in the plume either meet the GAL or show a 90% reduction in total VOC.

7. MW-27R abandonded in March 2018 due to ERH remedial activities in the DNAPL area.

8. MW-27R installed by McMillin McGee prior to September 2018 sampling event and designated as MW-27R-1. The new MW-27R-1 well screen interval is approx. 6-17ft bgs; the screen interval for the well it replaced (MW-27R) was approx. 6-11ft bgs.
9. MW-27R-1 abandoned due to incorrect screen interval. Re-installed as MW-27R-2 as a stainless steel 2" well. 5-foot screen set from 10-15'. March 2019 is first sampling event

TABLE 2
Groundwater Monitoring Analytical Results Summary (ug/L)
Plume 1 and 2 Monitoring Wells with Pump and Treat Shut Down Criteria
Third Site Superfund Site, Zionsville, Indiana

| LOCATION | Groundwater Action Levels (GAL)[2] | PLUME 1 | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-28 | | | | | | | | | | | | | | | | | | | | | | |
| COLLECTION DATE | | 10/18/02 | 8/28/12 | 5/20/14 | 8/25/14 | 12/16/14 | 3/6/15 | 6/9/15 | 9/22/15 | 12/8/15 | 3/14/16 | 6/9/16 | 9/14/16 | 12/7/16 | 3/20/17 | 6/14/17 | 10/10/17 | 12/12/17 | 3/19/18 | 6/12/18 | 9/10/18 | 12/12/18 | 3/12/19 |
| COMMENT | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | 990 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethene | 7 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| cis-1,2-Dichloroethene | 70 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| trans-1,2-Dichlorothene | 100 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Tetrachloroethene | 5 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,1-Trichloroethane | 200 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | 5 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Trichloroethene | 5 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Vinyl Chloride | 2 | 2 J | 16.0 | 42.3 | 42.0 | 42.4 | 40.4 | 66.6 | 44.5 | 62.0 | 71.9 | 58.3 | 64.1 | 85.2 | 100.0 | 58.5 | 79.9 | 90.6 | 80.7 | 66.4 | 84.8 | 66.8 | 50.1 |
| Other VOCs | n/a | n/a | 15.9 | 0.0 | 6.4 | 0.0 | 3.2 | 3.4 | 2.3 | 5.6 | 3.1 | 0.0 | 2.6 | 4.0 | 0.0 | 3.1 | 3.6 | 3.8 | 4.1 | 2.5 | 0.0 | 0.0 | 0.0 |
| Total VOCs | n/a | 2 [5] | 31.9 | 42.3 | 48.4 | 42.4 | 43.6 | 70.0 | 46.8 | 67.6 | 75.0 | 58.3 | 66.7 | 89.2 | 100.0 | 61.6 | 83.5 | 94.4 | 84.8 | 68.9 | 84.8 | 66.8 | 50.1 |
| P&T Shut Down Criteria[6] | n/a | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |

Notes:
1. Bolded values in table are above respective Groundwater Action Levels or P&T shut down criteria.
2. Groundwater Action Levels (GAL) to be achieved after completion of monitored natural attenuation from Enforcement Action Memorandum dated May 11, 2001; Equivalent to MCL/IDEM Tier I Default Criteria of Table 2-7-C of the October 2000 EE/CA and Table 4 of the Design Report.

3. J = Estimated concentration.
4. n/a = Not applicable
5. Samples collected in October 2002 were analyzed for the nine target COC only and not the full 8260 VOC list.
6. P&T Shut Down Criteria from Table 4 of the March 2004 Design Report. Values represent 10% of total VOC concentrations presented in Table 2-5 of the October 2000 EE/CA. For MW-27, MW-28, and MW-29, values provided represent 10% of total VOC concentrations from the 2012 sampling event (the most recent pre-pumping event). Please note that the GALs are the ultimate cleanup criteria after 10 years monitored natural attenuation as indicated in Note 2. As such, per Table 4 of the Design Report, P&T shutdown criteria are met when the wells in the plume either meet the GAL or show a 90% reduction in total VOC.

7. MW-27R abandonded in March 2018 due to ERH remedial activities in the DNAPL area.

8. MW-27R installed by McMillin McGee prior to September 2018 sampling event and designated as MW-27R-1. The new MW-27R-1 well screen interval is approx. 6-17ft bgs; the screen interval for the well it replaced (MW-27R) was approx. 6-11ft bgs.
9. MW-27R-1 abandoned due to incorrect screen interval. Re-installed as MW-27R-2 as a stainless steel 2" well. 5-foot screen set from 10-15'. March 2019 is first sampling event

TABLE 2
Groundwater Monitoring Analytical Results Summary (ug/L)
Plume 1 and 2 Monitoring Wells with Pump and Treat Shut Down Criteria
Third Site Superfund Site, Zionsville, Indiana

| LOCATION | Groundwater Action Levels (GAL)[2] | PLUME 1 | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-29 | | | | | | | | | | | | | | | | | | | | | | |
| COLLECTION DATE | | 8/7/03 | 8/28/12 | 5/20/14 | 8/25/14 | 12/16/14 | 3/4/15 | 6/9/15 | 9/21/15 | 12/8/15 | 3/15/16 | 6/8/16 | 9/12/16 | 12/6/16 | 3/21/17 | 6/14/17 | 10/10/17 | 12/13/17 | 3/20/18 | 6/12/18 | 9/10/18 | 12/11/18 | 3/12/19 |
| COMMENT | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | 990 | <5.0 | 2.7 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethene | 7 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| cis-1,2-Dichloroethene | 70 | <5.0 | 3.3 | <5.0 | <5.0 | 11.8 | 1.8 | <1.0 | 2.2 | <5.0 | 1.0 | 2.1 | 2.5 | 1.6 | <1.0 | <1.0 | 8.7 | <1.0 | 19.7 | 2.4 | <1.0 | 9.2 | <1.0 |
| trans-1,2-Dichlorothene | 100 | <5.0 | 0.35 J | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Tetrachloroethene | 5 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,1-Trichloroethane | 200 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | 5 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Trichloroethene | 5 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Vinyl Chloride | 2 | 31.0 | 53.0 | 12.8 | 7.4 | 4.9 | 1.8 | <1.0 | 2.7 | <2.0 | <1.0 | 3.2 | <1.0 | <1.0 | <1.0 | <1.0 | 1.1 | <1.0 | 39.2 | <1.0 | <1.0 | <1.0 | <1.0 |
| Other VOCs | n/a | n/a | 30.4 | 0.0 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 | 0.0 | 12.5 | 0.0 | 0.0 |
| Total VOCs | n/a | 31 [5] | 89.7 | 12.8 | 14.0 | 16.7 | 3.6 | 0.0 | 4.9 | 0.0 | 1.0 | 5.3 | 2.5 | 1.6 | 0.0 | 0.0 | 9.8 | 0.0 | 67.2 | 2.4 | 12.5 | 9.2 | 0.0 |
| P&T Shut Down Criteria[6] | n/a | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 |

Notes:
1. Bolded values in table are above respective Groundwater Action Levels or P&T shut down criteria.
2. Groundwater Action Levels (GAL) to be achieved after completion of monitored natural attenuation from Enforcement Action Memorandum dated May 11, 2001; Equivalent to MCL/IDEM Tier I Default Criteria of Table 2-7-C of the October 2000 EE/CA and Table 4 of the Design Report.

3. J = Estimated concentration.
4. n/a = Not applicable
5. Samples collected in October 2002 were analyzed for the nine target COC only and not the full 8260 VOC list.
6. P&T Shut Down Criteria from Table 4 of the March 2004 Design Report. Values represent 10% of total VOC concentrations presented in Table 2-5 of the October 2000 EE/CA. For MW-27, MW-28, and MW-29, values provided represent 10% of total VOC concentrations from the 2012 sampling event (the most recent pre-pumping event). Please note that the GALs are the ultimate cleanup criteria after 10 years monitored natural attenuation as indicated in Note 2. As such, per Table 4 of the Design Report, P&T shutdown criteria are met when the wells in the plume either meet the GAL or show a 90% reduction in total VOC.

7. MW-27R abandonded in March 2018 due to ERH remedial activities in the DNAPL area.

8. MW-27R installed by McMillin McGee prior to September 2018 sampling event and designated as MW-27R-1. The new MW-27R-1 well screen interval is approx. 6-17ft bgs; the screen interval for the well it replaced (MW-27R) was approx. 6-11ft bgs.
9. MW-27R-1 abandoned due to incorrect screen interval. Re-installed as MW-27R-2 as a stainless steel 2" well. 5-foot screen set from 10-15'. March 2019 is first sampling event

TABLE 2
Groundwater Monitoring Analytical Results Summary (ug/L)
Plume 1 and 2 Monitoring Wells with Pump and Treat Shut Down Criteria
Third Site Superfund Site, Zionsville, Indiana

| LOCATION | Groundwater Action Levels (GAL)[2] | PLUME 2 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-17 | | | | | | | | | | | | | | | | | | | | | | | |
| COLLECTION DATE | | 12/1/99 | 10/17/02 | 11/15/12 | 5/20/14 | 8/26/14 | 12/17/14 | 3/5/15 | 6/10/15 | 9/22/15 | 12/9/15 | 3/16/16 | 6/9/16 | 9/13/16 | 12/6/16 | 3/21/17 | 6/13/17 | 10/10/17 | 12/13/17 | 3/21/18 | 6/13/18 | 9/11/18 | 12/12/18 | 3/12/19 |
| COMMENT | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | 990 | <10 | <5.0 | 3.4 | <5.0 | 9.1 | 11.8 | 8.3 | 7.1 | 17.3 | 21.9 | 2.9 | 3.9 | 3.1 | 2.2 | <1.0 | 2.7 | 1.9 | <1.0 | 2.9 | 4.0 | <1.0 | <1.0 | 3.4 |
| 1,1-Dichloroethene | 7 | <10 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| cis-1,2-Dichloroethene | 70 | 3 J | <5.0 | 38 | 36.4 | 90.3 | 112 | 74.8 | 72.4 | 127 | 198 | 28.0 | 32.7 | 28.4 | 19.7 | 17.6 | 21.3 | 14.1 | 9.9 | 8.7 | 10.7 | 27.6 | 13.2 | 58.2 |
| trans-1,2-Dichlorothene | 100 | <10 | <5.0 | 0.084 J | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | 1.3 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Tetrachloroethene | 5 | <10 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,1-Trichloroethane | 200 | <10 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | 5 | <10 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Trichloroethene | 5 | <10 | <5.0 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Vinyl Chloride | 2 | 230 J | 130 | 82 | 62.4 | 88 | 76.6 | 63 | 78.5 | 68 | 93.3 | 20.1 | 26.9 | 25.5 | 22.7 | 19.6 | 40.5 | 11.9 | 5.9 | 9.1 | 4.2 | 55.1 | 4.5 | 99.7 |
| Other VOCs | n/a | 2.0 | n/a | 13.1 | 8.2 | 24.4 | 16.8 | 16.4 | 11.2 | 25.3 | 33.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.3 | 0.0 | 0.0 | 0.0 | 0.0 | 7.6 | 0.0 | 9.0 |
| Total VOCs | n/a | 235.0 | 130[5] | 136.5 | 107.0 | 211.8 | 217.2 | 162.5 | 169.2 | 238.9 | 346.8 | 51.0 | 63.5 | 57.0 | 44.6 | 37.2 | 71.8 | 27.9 | 15.8 | 20.7 | 18.9 | 82.7 | 17.7 | 170.3 |
| P&T Shut Down Criteria[6] | n/a | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 | 23.5 |

Notes:
1. Bolded values in table are above respective Groundwater Action Levels or P&T shut down criteria.
2. Groundwater Action Levels (GAL) to be achieved after completion of monitored natural attenuation from Enforcement Action Memorandum dated May 11, 2001, Equivalent to MCL/DEM Tier I Default Criteria of Table 2-7-C of the October 2000 EE/CA and Table 4 of the Design Report.

3. J = Estimated concentration.
4. n/a = Not applicable
5. Samples collected in October 2002 were analyzed for the nine target COC only and not the full 8260 VOC list.
6. P&T Shut Down Criteria from Table 4 of the March 2004 Design Report. Values represent 10% of total VOC concentrations presented in Table 2-5 of the October 2000 EE/CA. For MW-27, MW-28, and MW-29, values provided represent 10% of total VOC concentrations from the 2012 sampling event (the most recent pre-pumping event). Please note that the GALs are the ultimate cleanup criteria after 10 years monitored natural attenuation as indicated in Note 2. As such, per Table 4 of the Design Report, P&T shutdown criteria are met when the wells in the plume either meet the GAL or show a 90% reduction in total VOC.

7. MW-27R abandonded in March 2016 due to ERH remedial activities in the DNAPL area.

8. MW-27R installed by McMillin McGee prior to September 2018 sampling event and designated as MW-27R-1. The new MW-27R-1 well screen interval is approx. 6-17ft bgs; the screen interval for the well it replaced (MW-27R) was approx. 6-11ft bgs.
9. MW-27R-1 abandoned due to incorrect screen interval. Re-installed as MW-27R-2 as a stainless steel 2" well. 5-foot screen set from 10-15'. March 2019 is first sampling event

TABLE 2
Groundwater Monitoring Analytical Results Summary (ug/L)
Plume 1 and 2 Monitoring Wells with Pump and Treat Shut Down Criteria
Third Site Superfund Site, Zionsville, Indiana

| LOCATION | Groundwater Action Levels (GAL)[2] | PLUME 2 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-26 | | | | | | | | | | | | | | | | | | | | | | | |
| COLLECTION DATE | | 12/1/99 | 10/17/02 | 11/15/12 | 5/21/14 | 8/26/14 | 12/17/14 | 3/4/15 | 6/9/15 | 9/21/15 | 12/9/15 | 3/15/16 | 6/8/16 | 9/12/16 | 12/6/16 | 3/21/17 | 6/13/17 | 10/10/17 | 12/14/17 | 3/21/18 | 6/13/18 | 9/11/18 | 12/12/18 | 3/12/19 |
| COMMENT | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | 990 | 46 J | 53.0 | 57.0 | <5.0 | 17.9 | 17.6 | 24.9 | 5.5 | 18.4 | 97.0 | 3.7 | 7.2 | 18.4 | 5.7 | <1.0 | 4.7 | 8.7 | 21.4 | 9.4 | 9.0 | 5.4 | 10.4 | 3.8 |
| 1,1-Dichloroethene | 7 | <10 | 0.8 J | 0.62 J | <5.0 | <5.0 | <5.0 | 2.2 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| cis-1,2-Dichloroethene | 70 | 200 | 170 | 170 | <5.0 | 14.7 | <5.0 | 10.1 | 3.4 | 2.3 | 45.1 | 1.9 | 3.4 | 3.1 | 3.0 | 2.6 | 2.3 | 3.0 | 3.1 | 1.9 | 2.4 | 3.2 | 2.7 | 2.6 |
| trans-1,2-Dichlorothene | 100 | 2 J | 2 J | 3.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Tetrachloroethene | 5 | <10 | <5 | 0.12 J | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,1-Trichloroethane | 200 | 7 J | 25.0 | 57.0 | <5.0 | 12.1 | 19.0 | 27.2 | <1.0 | <1.0 | 80.2 | <1.0 | 2.2 | 4.3 | <1.0 | <1.0 | <1.0 | <1.0 | 9.9 | 4.6 | 2.5 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | 5 | <10 | <5 | <0.5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Trichloroethene | 5 | <10 | <5 | 0.11 J | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Vinyl Chloride | 2 | 120 | 140 | 140 | <2.0 | 12.7 | 2.5 | 5.3 | 3.7 | 3.3 | 36.0 | 1.1 | 4.2 | 3.8 | 5.8 | <1.0 | 4.8 | 6.1 | 5.0 | 5.4 | 5.2 | 5.1 | 4.7 | 5.8 |
| Other VOCs | n/a | 4 J | n/a | 226.6 | 18.1 | 80.0 | 56.1 | 52.2 | 11.2 | 76.5 | 200.9 | 8.9 | 20.2 | 67.3 | 31.4 | 22.6 | 29.5 | 38.1 | 70.5 | 38.9 | 61.6 | 32.7 | 51.2 | 16.5 |
| Total VOCs | n/a | 379.0 | 390.8 [5] | 655.0 | 18.1 | 137.4 | 95.2 | 121.9 | 23.8 | 100.5 | 459.2 | 15.6 | 37.2 | 96.9 | 45.9 | 25.2 | 41.3 | 55.9 | 109.9 | 60.2 | 80.7 | 46.4 | 69.0 | 28.7 |
| P&T Shut Down Criteria[6] | n/a | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 | 37.9 |

Notes:
1. Bolded values in table are above respective Groundwater Action Levels or P&T shut down criteria.
2. Groundwater Action Levels (GAL) to be achieved after completion of monitored natural attenuation from Enforcement Action Memorandum dated May 11, 2001. Equivalent to MCL/IDEM Tier I Default Criteria of Table 2-7-C of the October 2000 EE/CA and Table 4 of the Design Report.

3. J = Estimated concentration.
4. n/a = Not applicable
5. Samples collected in October 2002 were analyzed for the nine target COC only and not the full 8260 VOC list.
6. P&T Shut Down Criteria from Table 4 of the March 2004 Design Report. Values represent 10% of total VOC concentrations presented in Table 2-5 of the October 2000 EE/CA. For MW-27, MW-28, and MW-29, values provided represent 10% of total VOC concentrations from the 2012 sampling event (the most recent pre-pumping event). Please note that the GALs are the ultimate cleanup criteria after 10 years monitored natural attenuation as indicated in Note 2. As such, per Table 4 of the Design Report, P&T shutdown criteria are met when the wells in the plume either meet the GAL or show a 90% reduction in total VOC.

7. MW-27R abandonded in March 2016 due to ERH remedial activities in the DNAPL area.

8. MW-27R installed by McMillin McGee prior to September 2018 sampling event and designated as MW-27R-1. The new MW-27R-1 well screen interval is approx. 6-17ft bgs; the screen interval for the well it replaced (MW-27R) was approx. 6-11ft bgs.
9. MW-27R-1 abandoned due to incorrect screen interval. Re-installed as MW-27R-2 as a stainless steel 2" well. 5-foot screen set from 10-15'. March 2019 is first sampling event

TABLE 2
Groundwater Monitoring Analytical Results Summary (ug/L)
Plume 1 and 2 Monitoring Wells with Pump and Treat Shut Down Criteria
Third Site Superfund Site, Zionsville, Indiana

| LOCATION | Groundwater Action Levels (GAL)[2] | PLUME 2 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-27 | | MW-27R[7] | | | | | | | | | | | | | | | | | |
| COLLECTION DATE | | 10/17/02 | 10/17/02 | 11/15/12 | 5/21/14 | 5/21/14 | 8/27/14 | 8/27/14 | 12/17/14 | 12/17/14 | 3/5/15 | 3/5/15 | 6/10/15 | 6/10/15 | 9/22/15 | 12/10/15 | 3/16/16 | 6/9/16 | 6/9/16 | 9/14/16 | 9/14/16 |
| COMMENT | | | Duplicate | | | Duplicate | | Duplicate | | Duplicate | | Duplicate | | Duplicate | | | | | Duplicate | | Duplicate |
| 1,1-Dichloroethane | 990 | 13.0 | 11.0 | 890 | 586 | 603 J | 135 | 140 | 407 | 447 | 401 | 417 | 357 | 343 | 340 | 509 | 414 | 480 | 460 | 480 | 477 |
| 1,1-Dichloroethene | 7 | 0.7 J | 0.8 J | 5.9 | <25 | 11.3 | <5.0 | <5.0 | 6.7 | 6.5 | 20.6 | 26.7 | 9.1 | 8.6 | <5.0 | <25 | 14.8 | 9.5 | <5.0 | 37.0 | 37.1 |
| cis-1,2-Dichloroethene | 70 | 120 | 110 | 5,200 | 4,520 J | 4,730 J | 586 | 556 | 2,460 | 2,700 | 3,150 | 2,880 | 2,590 | 2,600 | 1,380 | 2,680 | 3,440 | 4,380 | 4,300 | 3,630 | 4,350 |
| trans-1,2-Dichlorothene | 100 | 5 J | 4 J | 67.0 | 170 | 186 | 7.1 | 7.6 | 106 | 105 | 160 | 169 | 151 | 143 | 67.6 | 132 | 188 | 226 | 211 | 209 | 195 |
| Tetrachloroethene | 5 | <5 | <5 | 0.12 J | <25 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <5.0 | <25 | <5.0 | <5.0 | <5.0 | <5.0 | <10 |
| 1,1,1-Trichloroethane | 200 | 1 J | 1 J | 74 J | 244 | 250 | 32.0 | 32.4 | 192 | 193 | 190 | 196 | 202 J | 274 J | 158 | 238 | 243 | 424 | 397 | 438 | 441 |
| 1,1,2-Trichloroethane | 5 | <5 | <5 | 0.29 J | <25 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <5.0 | <25 | <5.0 | <5.0 | <5.0 | <5.0 | <10 |
| Trichloroethene | 5 | 1 J | <5 | 5.5 | <25 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | 2.3 | 2.1 | <5.0 | <25 | <5.0 | <5.0 | <5.0 | <5.0 | <10 |
| Vinyl Chloride | 2 | 50.0 | 47.0 | 2,000 | 1,060 | 1,050 J | 454 | 447 | 642 | 702 | 544 | 594 | 585 | 557 | 796 | 812 | 407 | 548 | 517 | 538 | 609 |
| Other VOCs | n/a | n/a | n/a | 1,640.7 | 1,210.9 | 1,822.7 | 456.1 | 482.7 | 1155.0 | 1,291.5 | 926.0 | 970.0 | 850.0 | 856.3 | 932.5 | 1138.2 | 815.7 | 989.9 | 963 | 1047.7 | 1022 |
| Total VOCs | n/a | 190.7[5] | 173.8[5] | 9,883.5 | 7,790.9 | 8,653.0 | 1,670.2 | 1,645.7 | 4,968.7 | 5,445.0 | 5,391.6 | 5,252.7 | 4,745.4 | 4,784.0 | 3,674.1 | 5,509.2 | 5,522.5 | 7,057.4 | 6,848.0 | 6,379.7 | 7,131.1 |
| P&T Shut Down Criteria[6] | n/a | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 |

Notes:
1. Bolded values in table are above respective Groundwater Action Levels or P&T shut down criteria.
2. Groundwater Action Levels (GAL) to be achieved after completion of monitored natural attenuation from Enforcement Action Memorandum dated May 11, 2001; Equivalent to MCL/IDEM Tier I Default Criteria of Table 2-7-C of the October 2000 EE/CA and Table 4 of the Design Report.

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8. MW-27R installed by McMillin McGee prior to September 2018 sampling event and designated as MW-27R-1. The new MW-27R-1 well screen interval is approx. 6-17ft bgs; the screen interval for the well it replaced (MW-27R) was approx. 6-11ft bgs.
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TABLE 2
Groundwater Monitoring Analytical Results Summary (ug/L)
Plume 1 and 2 Monitoring Wells with Pump and Treat Shut Down Criteria
Third Site Superfund Site, Zionsville, Indiana

| LOCATION | Groundwater Action Levels (GAL)[2] | PLUME 2 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-27R[7] | | | | | | | | | | | | MW-27R-1[8] | | MW-27R-2[9] | |
| COLLECTION DATE | | 12/7/16 | 12/7/16 | 3/22/17 | 3/22/17 | 6/14/17 | 6/14/17 | 10/11/17 | 10/11/17 | 12/14/17 | 12/14/17 | 3/20/18 | 3/20/18 | 9/11/18 | 9/11/18 | 3/29/19 | 3/29/19 |
| COMMENT | | | Duplicate | | Duplicate | | Duplicate | | Duplicate | | Duplicate | | Duplicate | | Duplicate | | Duplicate |
| 1,1-Dichloroethane | 990 | 399 | 381 | 505 | 501 | 388 | 361 | 416 | 430 | 303 | 292 | 310 | 326 | 10.0 | 10.2 | <10 | <10 |
| 1,1-Dichloroethene | 7 | 20.9 | 20.8 | <5.0 | <5.0 | 36.9 | 31.7 | 19.8 | 15.5 | <5.0 | <5.0 | 7.2 | <10 | <1.0 | <1.0 | <10 | <10 |
| cis-1,2-Dichloroethene | 70 | 3,170 | 3,080 | 3,960 | 4,500 | 3,080 | 3,220 | 3,540 | 3,620 | 2,780 | 2,640 | 2,630 | 2,760 | 12.5 | 11.5 | 153 | 173 |
| trans-1,2-Dichlorothene | 100 | 220 | 213 | 241 | 245 | 198 | 163 | 235 | 239 | 164 | 154 | 146 | 145 | <1.0 | <1.0 | <10 | <10 |
| Tetrachloroethene | 5 | <1.0 | <1.0 | <5.0 | <5.0 | <10 | <10 | <1.0 | <1.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <1.0 | <10 | 23.2 |
| 1,1,1-Trichloroethane | 200 | 363 | 335 | 516 | 521 | 440 | 420 | 434 | 444 | 270 | 252 | 293 | 297 | <1.0 | <1.0 | <10 | <10 |
| 1,1,2-Trichloroethane | 5 | <1.0 | <1.0 | <5.0 | <5.0 | <10 | <10 | <1.0 | <1.0 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <1.0 | <10 | <10 |
| Trichloroethene | 5 | 1.6 | 1.5 | <5.0 | <5.0 | <10 | <10 | 1.3 | 1.4 | <5.0 | <5.0 | <5.0 | <10 | <5.0 | <1.0 | 41.1 J | 127 J |
| Vinyl Chloride | 2 | 547 | 511 | 688 | 694 | 581 | 499 | 840 | 854 | 514 | 491 | 569 | 589 | 11.6 | 11.1 | <10 | <10 |
| Other VOCs | n/a | 1045.6 | 1011.9 | 944.4 | 958.7 | 803.5 | 724.5 | 890.5 | 935.7 | 738.2 | 720.8 | 623.7 | 633.1 | 5.4 | 0.0 | 1091.5 | 1291.7 |
| Total VOCs | n/a | 5,767.1 | 5,554.2 | 6,854.4 | 7,419.7 | 5,527.4 | 5,419.2 | 6,376.6 | 6,539.6 | 4,769.2 | 4,549.8 | 4,578.9 | 4,750.1 | 39.5 | 32.8 | 1,285.6 | 1,614.9 |
| P&T Shut Down Criteria[6] | n/a | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 | 988.4 |

Notes:
1. Bolded values in table are above respective Groundwater Action Levels or P&T shut down criteria.
2. Groundwater Action Levels (GAL) to be achieved after completion of monitored natural attenuation from Enforcement Action Memorandum dated May 11, 2001; Equivalent to MCL/IDEM Tier I Default Criteria of Table 2-7-C of the October 2000 EE/CA and Table 4 of the Design Report.

3. J = Estimated concentration.
4. n/a = Not applicable

5. Samples collected in October 2002 were analyzed for the nine target COC only and not the full 8260 VOC list.

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TABLE 2A
Analytical Results Summary - Monitoring Wells without Pump and Treat Shutdown Criteria (ug/L)
Third Site Superfund Site, Zionsville, Indiana

| LOCATION | Groundwater Action Levels (GAL)[1] | PLUME 1 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-30 | | | | | | | | | | | | | | | | | | | |
| COLLECTION DATE | | 5/19/14 | 8/25/14 | 12/16/14 | 3/6/15 | 6/9/15 | 9/22/15 | 12/8/15 | 3/14/16 | 6/9/16 | 9/14/16 | 12/7/16 | 3/20/17 | 6/13/17 | 10/10/17 | 12/12/17 | 3/19/18 | 6/11/18 | 9/10/18 | 12/11/18 | 3/11/19 |
| COMMENT | | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | 990 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethene | 7 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| cis-1,2-Dichloroethene | 70 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| trans-1,2-Dichlorothene | 100 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Tetrachloroethene | 5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,1-Trichloroethane | 200 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | 5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Trichloroethene | 5 | <5.0 | <5.0 | <5.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Vinyl Chloride | 2 | <2.0 | <2.0 | <2.0 | <1.0 | <1.0 | <1.0 | <2.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

1. Groundwater Action Levels (GAL) to be achieved after completion of monitored natural attenuation from Enforcement Action Memorandum dated May 11, 2001; Equivalent to MCL/IDEM Tier I Default Criteria of Table 2-7-C of the October 2000 EE/CA and Table 4 of the Design Report.

TABLE 2A
Analytical Results Summary - Monitoring Wells without Pump and Treat Shutdown Criteria (ug/L)
Third Site Superfund Site, Zionsville, Indiana

| LOCATION | Groundwater Action Levels (GAL)[1] | PLUME 1 | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-31 | | | | | | | MW-32 | | | | | | | MW-33 | | | | | | |
| COLLECTION DATE | | 10/11/17 | 12/11/17 | 3/19/18 | 6/12/18 | 9/12/18 | 12/11/18 | 3/11/19 | 10/10/17 | 12/11/17 | 3/19/18 | 6/11/18 | 9/10/18 | 12/11/18 | 3/11/19 | 10/11/17 | 12/13/17 | 3/20/18 | 6/12/18 | 9/10/18 | 12/12/18 | 3/12/19 |
| COMMENT | | | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | 990 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethene | 7 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| cis-1,2-Dichloroethene | 70 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| trans-1,2-Dichlorothene | 100 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Tetrachloroethene | 5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,1-Trichloroethane | 200 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1,1,2-Trichloroethane | 5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Trichloroethene | 5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Vinyl Chloride | 2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

1. Groundwater Action Levels (GAL) to be achieved after completion of monitored natural attenuation from Enforcement Action Memorandum dated May 11, 2001; Equivalent to MCL/IDEM Tier I Default Criteria of Table 2-7-C of the October 2000 EE/CA and Table 4 of the Design Report.

TABLE 2A
Analytical Results Summary - Monitoring Wells without Pump and Treat Shutdown Criteria (ug/L)
Third Site Superfund Site, Zionsville, Indiana

| LOCATION | Groundwater Action Levels (GAL)[1] | PLUME 1 | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MW-34 | | | | | | | TPZ-1 | | | TPZ-2 | |
| COLLECTION DATE | | 10/10/17 | 12/13/17 | 3/19/18 | 6/12/18 | 9/10/18 | 12/11/18 | 3/11/19 | 7/16/15 | 10/11/17 | 10/11/17 | 7/16/15 | 10/12/17 |
| COMMENT | | | | | | | | | | | Duplicate | | |
| 1,1-Dichloroethane | 990 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <5.0 | 1.8 |
| 1,1-Dichloroethene | 7 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| cis-1,2-Dichloroethene | 70 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <5.0 | 3.9 |
| trans-1,2-Dichlorothene | 100 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| Tetrachloroethene | 5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| 1,1,1-Trichloroethane | 200 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| 1,1,2-Trichloroethane | 5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| Trichloroethene | 5 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <5.0 | <1.0 | <1.0 | <5.0 | <1.0 |
| Vinyl Chloride | 2 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 14.9 | 5.9 | 6.7 | 13.0 | 7.1 |

1. Groundwater Action Levels (GAL) to be achieved after completion of monitored natural attenuation from Enforcement Action Memorandum dated May 11, 2001; Equivalent to MCL/IDEM Tier I Default Criteria of Table 2-7-C of the October 2000 EE/CA and Table 4 of the Design Report.

TABLE 3
Surface Water Analytical Results (ug/L)
Third Site Superfund Site, Zionsville, Indiana

| LOCATION | Surface Water Action Levels[1] | SW-01 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COLLECTION DATE | | 8/30/12 | 8/30/12 | 5/9/13 | 5/9/13 | 8/25/14 | 12/15/14 | 3/6/15 | 6/10/15 | 9/21/15 | 12/8/15 | 3/14/16 | 6/6/16 | 9/14/16 | 12/5/16 | 3/20/17 | 6/12/17 | 10/9/17 | 12/11/17 | 3/19/18 | 6/12/18 | 9/12/18 | 12/10/18 | 3/11/19 |
| COMMENT | | | Duplicate | | Duplicate | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | -- | 1.4 | 1.2 | <5 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethene | 3.2 | <0.5 | <0.5 | <5 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| cis-1,2-Dichloroethene | -- | 0.41 J | 0.33 J | <5 | <5 | <5 | <5 | <1 | <1 | 1.8 | <5 | <1 | <1 | 1.3 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| trans-1,2-Dichlorothene | 1,350 | <0.5 | <0.5 | <5 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Tetrachloroethene | 8.85 | <0.5 | <0.5 | <5 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1,1-Trichloroethane | 528 | 0.18 J | 0.16 J | <5 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1,2-Trichloroethane | 42 | <0.5 | <0.5 | <5 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Trichloroethene | 81 | <0.5 | <0.5 | <5 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Vinyl Chloride | 20 | <0.5 | <0.5 | <2 | <2 | <2 | <2 | <1 | <1 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |

Notes:
Enforcement Action Memorandum
2. J - Estimated concentration
3. Surface water frozen at SW-06 and SW-07; sample collected between the two locations.

TABLE 3
Surface Water Analytical Results (ug/L)
Third Site Superfund Site, Zionsville, Indiana

| LOCATION | Surface Water Action Levels[1] | SW-02 | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COLLECTION DATE | | 8/30/12 | 5/9/13 | 8/25/14 | 12/15/14 | 12/15/14 | 3/6/15 | 6/10/15 | 9/21/15 | 12/8/15 | 3/14/16 | 6/6/16 | 9/14/16 | 12/5/16 | 3/20/17 | 6/12/17 | 10/9/17 | 12/11/17 | 3/19/18 | 6/12/18 | 9/12/18 | 12/10/18 | 3/11/19 |
| COMMENT | | | | | | Duplicate | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | -- | 2.5 | <5 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethene | 3.2 | <0.5 | <5 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| cis-1,2-Dichloroethene | -- | 1.1 | <5 | <5 | <5 | <5 | <1 | <1 | 2.3 | <5 | <1 | <1 | 1.3 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| trans-1,2-Dichlorothene | 1,350 | <0.5 | <5 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Tetrachloroethene | 8.85 | <0.5 | <5 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1,1-Trichloroethane | 528 | 0.23 J | <5 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1,2-Trichloroethane | 42 | <0.5 | <5 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Trichloroethene | 81 | <0.5 | <5 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Vinyl Chloride | 20 | 0.50 J | <2 | <2 | <2 | <2 | <1 | <1 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |

Notes:
Enforcement Action Memorandum
2. J - Estimated concentration
3. Surface water frozen at SW-06 and SW-07; sample collected between the two locations.

TABLE 3
Surface Water Analytical Results (ug/L)
Third Site Superfund Site, Zionsville, Indiana

| LOCATION | Surface Water Action Levels[1] | SW-03 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COLLECTION DATE | | 8/30/12 | 5/9/13 | 8/25/14 | 8/25/14 | 12/15/14 | 3/6/15 | 3/6/15 | 6/10/15 | 6/10/15 | 9/21/15 | 9/21/15 | 12/8/15 | 12/8/15 | 3/14/16 | 3/14/16 | 6/6/16 | 6/6/16 | 9/14/16 | 9/14/16 | 12/5/16 | 12/5/16 | 3/20/17 | 3/20/17 | 6/12/17 | 6/12/17 | 10/9/17 | 10/9/17 |
| COMMENT | | | | | Duplicate | | | Duplicate | | Duplicate | | Duplicate | | Duplicate | | Duplicate | | Duplicate | | Duplicate | | Duplicate | | Duplicate | | Duplicate | | Duplicate |
| 1,1-Dichloroethane | -- | 6.1 | <5 | <5 | <5 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethene | 3.2 | <0.5 | <5 | <5 | <5 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| cis-1,2-Dichloroethene | -- | 1.9 | <5 | <5 | <5 | <5 | 1.6 | 1.5 | <1 | <1 | 2.2 | 2.1 | <5 | <5 | <1 | <1 | <1 | <1 | 1.2 | 1.3 | <1 | <1 | <1 | <1 | <1 | <1 | 1.2 | <1 | <1 |
| trans-1,2-Dichloroethene | 1,350 | 0.071 J | <5 | <5 | <5 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Tetrachloroethene | 8.85 | <0.5 | <5 | <5 | <5 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1,1-Trichloroethane | 528 | 0.73 | <5 | <5 | <5 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1,2-Trichloroethane | 42 | <0.5 | <5 | <5 | <5 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Trichloroethene | 81 | <0.5 | <5 | <5 | <5 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Vinyl Chloride | 20 | 1.4 | <2 | <2 | <2 | <2 | <1 | <1 | <1 | <1 | <1 | <1 | <2 | <2 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |

Notes:
Enforcement Action Memorandum
2. J - Estimated concentration
3. Surface water frozen at SW-06 and SW-07; sample collected between the two locations.

TABLE 3
Surface Water Analytical Results (ug/L)
Third Site Superfund Site, Zionsville, Indiana

| LOCATION | Surface Water Action Levels[1] | SW-03 | | | | | | | | | | | | SW-04 | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COLLECTION DATE | | 12/11/17 | 12/11/17 | 3/19/18 | 3/19/18 | 6/12/18 | 6/12/18 | 9/12/18 | 9/12/18 | 12/10/18 | 12/10/18 | 3/11/19 | 3/11/19 | 8/30/12 | 5/9/13 | 8/25/14 | 12/15/14 | 3/6/15 | 6/10/15 | 9/21/05 | 12/8/15 | 3/14/16 | 6/6/16 | 9/14/16 | 12/5/16 | 3/20/17 | 6/12/17 | 10/9/17 |
| COMMENT | | | Duplicate | | Duplicate | | Duplicate | | Duplicate | | Duplicate | | Duplicate | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | -- | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 1.0 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethene | 3.2 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <0.5 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| cis-1,2-Dichloroethene | -- | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.50 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| trans-1,2-Dichlorothene | 1,350 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <0.5 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Tetrachloroethene | 8.85 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <0.5 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1,1-Trichloroethane | 528 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <0.5 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1,2-Trichloroethane | 42 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <0.5 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Trichloroethene | 81 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <0.5 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Vinyl Chloride | 20 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | 0.25 J | <2 | <2 | <2 | <1 | <1 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |

Notes:
Enforcement Action Memorandum
2. J - Estimated concentration
3. Surface water frozen at SW-06 and SW-07; sample collected between the two locations.

TABLE 3
Surface Water Analytical Results (ug/L)
Third Site Superfund Site, Zionsville, Indiana

| LOCATION | Surface Water Action Levels[1] | SW-04 | | | | | | SW-05 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COLLECTION DATE | | 12/11/17 | 3/19/18 | 6/12/18 | 9/12/18 | 12/10/18 | 3/11/19 | 5/9/13 | 8/25/14 | 12/15/14 | 3/6/15 | 6/10/15 | 9/21/15 | 12/8/15 | 3/14/16 | 6/6/16 | 9/14/16 | 12/5/16 | 3/20/17 | 6/12/17 | 10/9/17 | 12/11/17 | 3/19/18 | 6/12/18 | 9/12/18 | 12/10/18 | 3/11/19 |
| COMMENT | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | -- | <1 | <1 | <1 | <1 | <1 | <1 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethene | 3.2 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| cis-1,2-Dichloroethene | -- | 4.7 | <1 | <1 | <1 | <1 | <1 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | 1.1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| trans-1,2-Dichloroethene | 1,350 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Tetrachloroethene | 8.85 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1,1-Trichloroethane | 528 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1,2-Trichloroethane | 42 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Trichloroethene | 81 | <1 | <1 | <1 | <1 | <1 | <1 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Vinyl Chloride | 20 | <1 | <1 | <1 | <1 | <1 | <1 | <2 | <2 | <2 | <1 | <1 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |

Notes:
Enforcement Action Memorandum
2. J - Estimated concentration
3. Surface water frozen at SW-06 and SW-07; sample collected between the two locations.

TABLE 3
Surface Water Analytical Results (ug/L)
Third Site Superfund Site, Zionsville, Indiana

| LOCATION | Surface Water Action Levels[1] | SW-06 | | | SW-06/07[3] | SW-06 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COLLECTION DATE | | 5/9/13 | 8/25/14 | 12/15/14 | 3/6/15 | 6/10/15 | 9/21/15 | 12/8/15 | 3/14/16 | 6/6/16 | 9/14/16 | 12/5/16 | 3/20/17 | 6/12/17 | 10/9/17 | 12/11/17 | 3/19/18 | 6/12/18 | 9/12/18 | 12/10/18 | 3/11/19 |
| COMMENT | | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | --- | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethene | 3.2 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| cis-1,2-Dichloroethene | --- | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| trans-1,2-Dichlorothene | 1,350 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Tetrachloroethene | 8.85 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1,1-Trichloroethane | 528 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1,2-Trichloroethane | 42 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Trichloroethene | 81 | <5 | <5 | <5 | <1 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Vinyl Chloride | 20 | <2 | <2 | <2 | <1 | <1 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |

Notes:
Enforcement Action Memorandum
2. J - Estimated concentration
3. Surface water frozen at SW-06 and SW-07; sample collected between the two locations.

TABLE 3
Surface Water Analytical Results (ug/L)
Third Site Superfund Site, Zionsville, Indiana

| LOCATION | Surface Water Action Levels[1] | SW-07 | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| COLLECTION DATE | | 5/9/13 | 8/25/14 | 12/15/14 | 6/10/15 | 9/21/15 | 12/8/15 | 3/14/16 | 6/6/16 | 9/14/16 | 12/5/16 | 3/20/17 | 6/12/17 | 10/9/17 | 12/11/17 | 3/19/18 | 6/12/18 | 9/12/18 | 12/10/18 | 3/11/19 |
| COMMENT | | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethane | -- | <5 | <5 | <5 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1-Dichloroethene | 3.2 | <5 | <5 | <5 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| cis-1,2-Dichloroethene | -- | <5 | <5 | <5 | <1 | 1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| trans-1,2-Dichloroethene | 1,350 | <5 | <5 | <5 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Tetrachloroethene | 8.85 | <5 | <5 | <5 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1,1-Trichloroethane | 528 | <5 | <5 | <5 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| 1,1,2-Trichloroethane | 42 | <5 | <5 | <5 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Trichloroethene | 81 | <5 | <5 | <5 | <1 | <1 | <5 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |
| Vinyl Chloride | 20 | <2 | <2 | <2 | <1 | <1 | <2 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 | <1 |

Notes:
Enforcement Action Memorandum
2. J - Estimated concentration
3. Surface water frozen at SW-06 and SW-07; sample collected between the two locations.

TABLE 4
Extraction Well and System Effluent Analytical Results (ug/L)
Third Site Superfund Site, Zionsville, Indiana

| | Influent[1] | | | | | | Effluent[2] | |
|---|---|---|---|---|---|---|---|---|
| LOCATION | Groundwater Action | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Effluent Limts for | GAC-2 Eff. |
| COLLECTION DATE | Levels (GAL)[3] | 6/10/15 | | | | | Discharge[4] | 6/18/15 |
| 1,1-Dichloroethane | 990 | 61.9 | 12.8 | 44.4 | 63.1 | 35.2 | 990 | <5 |
| 1,1-Dichloroethene | 7 | <1 | <1 | 1.2 | <1 | <1 | 2 | <2 |
| cis-1,2-Dichloroethene | 70 | 945 | 76.2 | 245 | 72.9 | 686 | 70 | <5 |
| trans-1,2-Dichlorothene | 100 | 24.1 | <1 | 1.1 | 2.7 | 13.8 | 100 | <5 |
| Tetrachloroethene | 5 | <1 | <1 | <1 | <1 | <1 | 5 | <5 |
| 1,1,1-Trichloroethane | 200 | <1 | <1 | 149 | 22.7 | <1 | 200 | <5 |
| 1,1,2-Trichloroethane | 5 | <1 | <1 | <1 | <1 | <1 | 42 | <5 |
| Trichloroethene | 5 | <1 | <1 | <1 | <1 | <1 | 10 | <5 |
| Vinyl Chloride | 2 | 134 | 30.0 | 111 | 64.4 | 118 | 10 | <2 |
| Other VOCs | n/a | 84.8 | 7.1 | 654.8 | 47.1 | 108 | n/a | n/a |
| Total VOCs | n/a | 1,250 | 126.1 | 1,205 | 272.9 | 961.0 | n/a | n/a |

| | Influent[1] | | | | | | Effluent[2] | |
|---|---|---|---|---|---|---|---|---|
| LOCATION | Groundwater Action | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Effluent Limts for | GAC-2 Eff. |
| COLLECTION DATE | Levels (GAL)[3] | 9/23/15 | | | | | Discharge[4] | 9/11/15 |
| 1,1-Dichloroethane | 990 | 61.1 | 12.7 | 29.7 | 73.5 | 23.1 | 990 | <5 |
| 1,1-Dichloroethene | 7 | <1 | <1 | <10 | <1 | <1 | 2 | <2 |
| cis-1,2-Dichloroethene | 70 | 938 | 71.4 | 123 | 85.9 | 867 | 70 | <5 |
| trans-1,2-Dichlorothene | 100 | 40.9 | <1 | <10 | 2.7 | 14.1 | 100 | <5 |
| Tetrachloroethene | 5 | <1 | <1 | <10 | <1 | <1 | 5 | <5 |
| 1,1,1-Trichloroethane | 200 | <1 | <1 | 51.4 | 24.8 | <1 | 200 | <5 |
| 1,1,2-Trichloroethane | 5 | <1 | <1 | <10 | <1 | <1 | 42 | <5 |
| Trichloroethene | 5 | <1 | <1 | <10 | <1 | <1 | 10 | <5 |
| Vinyl Chloride | 2 | 119 | 25.2 | 58.3 | 56.8 | 108 | 10 | <2 |
| Other VOCs | n/a | 212.6 | 18.9 | 3367 | 51.9 | 108 | n/a | n/a |
| Total VOCs | n/a | 1,372 | 128.2 | 3,629 | 295.6 | 1,120.2 | n/a | n/a |

| | Influent[1] | | | | | | Effluent[2] | |
|---|---|---|---|---|---|---|---|---|
| LOCATION | Groundwater Action | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Effluent Limts for | GAC-2 Eff. |
| COLLECTION DATE | Levels (GAL)[3] | 12/16/15 | | | | | Discharge[4] | 12/16/15 |
| 1,1-Dichloroethane | 990 | 78.9 | 14.3 | 30.6 | 62.2 | 14.7 | 990 | <5 |
| 1,1-Dichloroethene | 7 | <5 | <5 | <5 | <5 | <5 | 2 | <2 |
| cis-1,2-Dichloroethene | 70 | 1,530 | 96.5 | 37.8 | 61.0 | 567 | 70 | <5 |
| trans-1,2-Dichlorothene | 100 | 24.9 | <5 | <5 | <5 | 10.5 | 100 | <5 |
| Tetrachloroethene | 5 | <5 | <5 | <5 | <5 | <5 | 5 | <5 |
| 1,1,1-Trichloroethane | 200 | <5 | <5 | 17.4 | 20.9 | <5 | 200 | <5 |
| 1,1,2-Trichloroethane | 5 | <5 | <5 | <5 | <5 | <5 | 42 | <5 |
| Trichloroethene | 5 | <5 | <5 | <5 | <5 | <5 | 10 | <5 |
| Vinyl Chloride | 2 | 183 | 37.8 | 21.8 | 44.3 | 92.7 | 10 | <2 |
| Other VOCs | n/a | 96.4 | 10.8 | 216.6 | 56.2 | 90.6 | n/a | n/a |
| Total VOCs | n/a | 1,913 | 159.4 | 324.2 | 244.6 | 775.5 | n/a | n/a |

TABLE 4
Extraction Well and System Effluent Analytical Results (ug/L)
Third Site Superfund Site, Zionsville, Indiana

| | Influent[1] | | | | | | Effluent[2] | |
|---|---|---|---|---|---|---|---|---|
| LOCATION | Groundwater Action | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Effluent Limts for | GAC-2 Eff. |
| COLLECTION DATE | Levels (GAL)[3] | 3/17/16 | | | | | Discharge[4] | 3/16/16 |
| 1,1-Dichloroethane | 990 | 64.4 | 14.5 | 38.1 | 65.1 | 7.2 | 990 | <5 |
| 1,1-Dichloroethene | 7 | <5 | <1 | 5.3 | <1 | <2 | 2 | <2 |
| cis-1,2-Dichloroethene | 70 | 909 | 82.8 | 229 | 86.1 | 299 | 70 | <5 |
| trans-1,2-Dichlorothene | 100 | 19.7 | 1.3 | 2.4 | 2.2 | 9.7 | 100 | <5 |
| Tetrachloroethene | 5 | <5 | <1 | <1 | <1 | <2 | 5 | <5 |
| 1,1,1-Trichloroethane | 200 | <5 | <1 | 166 | 13.8 | <2 | 200 | <5 |
| 1,1,2-Trichloroethane | 5 | <5 | <1 | <1 | <1 | <2 | 42 | <5 |
| Trichloroethene | 5 | <5 | <1 | <1 | <1 | <2 | 10 | <5 |
| Vinyl Chloride | 2 | 89.8 | 28.9 | 70.7 | 58.2 | 47.9 | 10 | <2 |
| Other VOCs | n/a | 70 | 8.5 | 298.9 | 49.2 | 48.8 | n/a | n/a |
| Total VOCs | n/a | 1,153 | 136.0 | 805.1 | 274.6 | 412.6 | n/a | n/a |

| | Influent[1] | | | | | | Effluent[2] | |
|---|---|---|---|---|---|---|---|---|
| LOCATION | Groundwater Action | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Effluent Limts for | GAC-2 Eff. |
| COLLECTION DATE | Levels (GAL)[3] | 6/9/16 | | | | | Discharge[4] | 6/22/16 |
| 1,1-Dichloroethane | 990 | 61.1 | 16.4 | 48.1 | 65.4 | 7.1 | 990 | <5 |
| 1,1-Dichloroethene | 7 | <1 | <1 | <1 | <1 | <1 | 2 | <2 |
| cis-1,2-Dichloroethene | 70 | 1,060 | 85.1 | 247 | 81 | 372 | 70 | <5 |
| trans-1,2-Dichlorothene | 100 | 20.9 | <1 | <1 | 2.2 | 8.0 | 100 | <5 |
| Tetrachloroethene | 5 | <1 | <1 | <1 | <1 | <1 | 5 | <5 |
| 1,1,1-Trichloroethane | 200 | <1 | <1 | 157 | 17.5 | <1 | 200 | <5 |
| 1,1,2-Trichloroethane | 5 | <1 | <1 | <1 | <1 | <1 | 42 | <5 |
| Trichloroethene | 5 | <1 | <1 | <1 | <1 | <1 | 10 | <5 |
| Vinyl Chloride | 2 | 133 | 31.3 | 125 | 63.9 | 78.4 | 10 | <2 |
| Other VOCs | n/a | 97.9 | 13 | 553.3 | 66.4 | 75.6 | n/a | n/a |
| Total VOCs | n/a | 1,373 | 145.8 | 1,130 | 296.4 | 541.1 | n/a | n/a |

| | Influent[1] | | | | | | Effluent[2] | |
|---|---|---|---|---|---|---|---|---|
| LOCATION | Groundwater Action | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Effluent Limts for | GAC-2 Eff. |
| COLLECTION DATE | Levels (GAL)[3] | 9/14/16 | | | | | Discharge[4] | 9/8/16 |
| 1,1-Dichloroethane | 990 | 52.7 | 16.1 | 49.3 | 75 | 5.4 | 990 | <5 |
| 1,1-Dichloroethene | 7 | <1 | <1 | 1.9 | 1.1 | <1 | 2 | <2 |
| cis-1,2-Dichloroethene | 70 | 732 | 94.6 | 77.7 | 94.9 | 327 | 70 | <5 |
| trans-1,2-Dichlorothene | 100 | 18.6 | 1.3 | 1.1 | 2.1 | 8.8 | 100 | <5 |
| Tetrachloroethene | 5 | <1 | <1 | <1 | <1 | <1 | 5 | <5 |
| 1,1,1-Trichloroethane | 200 | <1 | <1 | 39.9 | 18.6 | <1 | 200 | <5 |
| 1,1,2-Trichloroethane | 5 | <1 | <1 | <1 | <1 | <1 | 42 | <5 |
| Trichloroethene | 5 | <1 | <1 | <1 | <1 | <1 | 10 | <5 |
| Vinyl Chloride | 2 | 127 | 36.4 | 56.5 | 61.2 | 59.4 | 10 | <2 |
| Other VOCs | n/a | 87.5 | 15.7 | 466.2 | 123.4 | 53.5 | n/a | n/a |
| Total VOCs | n/a | 1,018 | 164.1 | 692.6 | 376.3 | 454.1 | n/a | n/a |

TABLE 4
Extraction Well and System Effluent Analytical Results (ug/L)
Third Site Superfund Site, Zionsville, Indiana

| | Influent[1] | | | | | | Effluent[2] | |
|---|---|---|---|---|---|---|---|---|
| LOCATION | Groundwater Action | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Effluent Limts for | GAC-2 Eff. |
| COLLECTION DATE | Levels (GAL)[3] | 12/7/16 | | | | | Discharge[4] | 12/14/16 |
| 1,1-Dichloroethane | 990 | 41.8 | 12.4 | 41.2 | 92.7 | 3.8 | 990 | <5 |
| 1,1-Dichloroethene | 7 | <1 | <1 | <1 | <1 | <1 | 2 | <2 |
| cis-1,2-Dichloroethene | 70 | 501 | 85.7 | 76.3 | 158 | 292 | 70 | <5 |
| trans-1,2-Dichlorothene | 100 | 15.9 | 1.2 | <1 | 3.5 | 6.9 | 100 | <5 |
| Tetrachloroethene | 5 | <1 | <1 | <1 | <1 | <1 | 5 | <5 |
| 1,1,1-Trichloroethane | 200 | <1 | <1 | 21.3 | 18.2 | <1 | 200 | <5 |
| 1,1,2-Trichloroethane | 5 | <1 | <1 | <1 | <1 | <1 | 42 | <5 |
| Trichloroethene | 5 | <1 | <1 | <1 | <1 | <1 | 10 | <5 |
| Vinyl Chloride | 2 | 119 | 37.8 | 60.8 | 117 | 58.6 | 10 | <2 |
| Other VOCs | n/a | 81.9 | 11.5 | 452.2 | 75.9 | 55.9 | n/a | n/a |
| Total VOCs | n/a | 759.6 | 148.6 | 651.8 | 465.3 | 417.2 | n/a | n/a |

| | Influent[1] | | | | | | Effluent[2] | |
|---|---|---|---|---|---|---|---|---|
| LOCATION | Groundwater Action | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Effluent Limts for | GAC-2 Eff. |
| COLLECTION DATE | Levels (GAL)[3] | 3/22/17 | | | | | Discharge[4] | 3/22/17 |
| 1,1-Dichloroethane | 990 | 32.7 | 10.3 | 58.8 | 68.5 | <1 | 990 | <5 |
| 1,1-Dichloroethene | 7 | <1 | <1 | <1 | <1 | <1 | 2 | <2 |
| cis-1,2-Dichloroethene | 70 | 652 | 85.7 | 263 | 97.6 | 253 | 70 | <5 |
| trans-1,2-Dichlorothene | 100 | 13.7 | <1 | <1 | <1 | 7.8 | 100 | <5 |
| Tetrachloroethene | 5 | <1 | <1 | <1 | <1 | <1 | 5 | <5 |
| 1,1,1-Trichloroethane | 200 | <1 | <1 | 35.3 | 14.9 | <1 | 200 | <5 |
| 1,1,2-Trichloroethane | 5 | <1 | <1 | <1 | <1 | <1 | 42 | <5 |
| Trichloroethene | 5 | <1 | <1 | <1 | <1 | <1 | 10 | <5 |
| Vinyl Chloride | 2 | 102 | 43.3 | 124 | 91.2 | 56.7 | 10 | <2 |
| Other VOCs | n/a | 75.0 | 3.0 | 1374 | 75.9 | 53.8 | n/a | n/a |
| Total VOCs | n/a | 875.4 | 142.3 | 1,855 | 348.1 | 371.3 | n/a | n/a |

| | Influent[1] | | | | | | Effluent[2] | |
|---|---|---|---|---|---|---|---|---|
| LOCATION | Groundwater Action | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Effluent Limts for | GAC-2 Eff. |
| COLLECTION DATE | Levels (GAL)[3] | 6/15/17 | | | | | Discharge[4] | 6/22/17 |
| 1,1-Dichloroethane | 990 | 23.7 | 9.9 | 24.5 | 36 | 3.4 | 990 | <5 |
| 1,1-Dichloroethene | 7 | <1 | <1 | 1.8 | <1 | <1 | 2 | <2 |
| cis-1,2-Dichloroethene | 70 | 787 | 45.1 | 123 | 8.8 | 422 | 70 | <5 |
| trans-1,2-Dichlorothene | 100 | 16.6 | <1 | 1.3 | <1 | 13.9 | 100 | <5 |
| Tetrachloroethene | 5 | <1 | <1 | <1 | <1 | <1 | 5 | <5 |
| 1,1,1-Trichloroethane | 200 | <1 | <1 | 23.5 | 15.7 | <1 | 200 | <5 |
| 1,1,2-Trichloroethane | 5 | <1 | <1 | <1 | <1 | <1 | 42 | <5 |
| Trichloroethene | 5 | <1 | <1 | 2.2 | <1 | <1 | 10 | <5 |
| Vinyl Chloride | 2 | 125 | 18.5 | 29.9 | 7.2 | 92.1 | 10 | <2 |
| Other VOCs | n/a | 70.5 | 8.8 | 2224 | 84.1 | 110 | n/a | n/a |
| Total VOCs | n/a | 1,023 | 82.3 | 2,430 | 151.8 | 641.4 | n/a | n/a |

TABLE 4
Extraction Well and System Effluent Analytical Results (ug/L)
Third Site Superfund Site, Zionsville, Indiana

| | Influent[1] | | | | | | Effluent[2] | |
|---|---|---|---|---|---|---|---|---|
| LOCATION | Groundwater Action | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Effluent Limts for | GAC-2 Eff. |
| COLLECTION DATE | Levels (GAL)[3] | 10/10/17 | | | | | Discharge[4] | 10/15/17 |
| 1,1-Dichloroethane | 990 | 30.1 | 9.3 | 74 | 83 | 1.8 | 990 | <5 |
| 1,1-Dichloroethene | 7 | <5 | <1 | <1 | <1 | <1 | 2 | <2 |
| cis-1,2-Dichloroethene | 70 | 644 | 85.2 | 2.8 | 156 | 187 | 70 | <5 |
| trans-1,2-Dichlorothene | 100 | 16.2 | 1.2 | <1 | 4.1 | <1 | 100 | <5 |
| Tetrachloroethene | 5 | <1 | <1 | <1 | <1 | 4.9 | 5 | <5 |
| 1,1,1-Trichloroethane | 200 | <1 | <1 | 12.3 | 16.4 | <1 | 200 | <5 |
| 1,1,2-Trichloroethane | 5 | <1 | <1 | <1 | <1 | <1 | 42 | <5 |
| Trichloroethene | 5 | <1 | <1 | <1 | <1 | <1 | 10 | <5 |
| Vinyl Chloride | 2 | 82.9 | 45.1 | 7.9 | 106 | 34.3 | 10 | <2 |
| Other VOCs | n/a | 70.1 | 19.7 | 398 | 76.1 | 26.3 | n/a | n/a |
| Total VOCs | n/a | 843.3 | 160.5 | 494.8 | 441.6 | 254.3 | n/a | n/a |

| | Influent[1] | | | | | | Effluent[2] | |
|---|---|---|---|---|---|---|---|---|
| LOCATION | Groundwater Action | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Effluent Limts for | GAC-2 Eff. |
| COLLECTION DATE | Levels (GAL)[3] | 12/13/17 | | | | | Discharge[4] | 12/15/17 |
| 1,1-Dichloroethane | 990 | 13.9 | 8.2 | 89.3 | 112 | 2.3 | 990 | <5 |
| 1,1-Dichloroethene | 7 | <1 | <1 | 4.0 | <1 | <1 | 2 | <2 |
| cis-1,2-Dichloroethene | 70 | 176 | 76.4 | 929 | 218 | 113 | 70 | <5 |
| trans-1,2-Dichlorothene | 100 | 2.6 | <1 | 3.1 | 5.2 | 2.2 | 100 | <5 |
| Tetrachloroethene | 5 | <1 | <1 | <1 | <1 | <1 | 5 | <5 |
| 1,1,1-Trichloroethane | 200 | <1 | <1 | 421 | 14.8 | <1 | 200 | <5 |
| 1,1,2-Trichloroethane | 5 | <1 | <1 | <1 | <1 | <1 | 42 | <5 |
| Trichloroethene | 5 | <1 | <1 | <1 | <1 | <1 | 10 | <5 |
| Vinyl Chloride | 2 | 126 | 40.9 | 130 | 128 | 23.9 | 10 | <2 |
| Other VOCs | n/a | 767.8 | 7.3 | 392.6 | 85.4 | 183.3 | n/a | n/a |
| Total VOCs | n/a | 1,086 | 132.8 | 1,969 | 563.4 | 324.7 | n/a | n/a |

| | Influent[1] | | | | | | Effluent[2] | |
|---|---|---|---|---|---|---|---|---|
| LOCATION | Groundwater Action | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Effluent Limts for | GAC-2 Eff. |
| COLLECTION DATE | Levels (GAL)[3] | 3/20/18 | | | | | Discharge[4] | 3/7/18 |
| 1,1-Dichloroethane | 990 | 23.4 | <1 | 50.3 | 72.6 | <1 | 990 | <5 |
| 1,1-Dichloroethene | 7 | <1 | <1 | 2.7 | <1 | <1 | 2 | <2 |
| cis-1,2-Dichloroethene | 70 | 466 | 55.3 | 438 | 158 | 213 | 70 | <5 |
| trans-1,2-Dichlorothene | 100 | 11.1 | <1 | 2.5 | 3.5 | 4 | 100 | <5 |
| Tetrachloroethene | 5 | <1 | <1 | <1 | <1 | <1 | 5 | <5 |
| 1,1,1-Trichloroethane | 200 | <1 | <1 | <1 | 11.1 | <1 | 200 | <5 |
| 1,1,2-Trichloroethane | 5 | <1 | <1 | <1 | <1 | <1 | 42 | <5 |
| Trichloroethene | 5 | <1 | <1 | 1.8 | <1 | <1 | 10 | <5 |
| Vinyl Chloride | 2 | 113 | 32.4 | 127 | 99 | 43.7 | 10 | <2 |
| Other VOCs | n/a | 73.4 | 5.3 | 614.6 | 61.4 | 32.5 | n/a | n/a |
| Total VOCs | n/a | 686.9 | 93.0 | 1,237 | 405.6 | 293.2 | n/a | n/a |



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TABLE 4
Extraction Well and System Effluent Analytical Results (ug/L)
Third Site Superfund Site, Zionsville, Indiana

| | Influent[1] | | | | | | Effluent[2] | |
|---|---|---|---|---|---|---|---|---|
| LOCATION | Groundwater Action | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Effluent Limts for | GAC-2 Eff. |
| COLLECTION DATE | Levels (GAL)[3] | 6/13/18 | | | | | Discharge[4] | 6/21/18 |
| 1,1-Dichloroethane | 990 | 20.6 | 7.0 | 3.0 | 72.0 | 1.3 | 990 | <5 |
| 1,1-Dichloroethene | 7 | <1 | <1 | <1 | <1 | <1 | 2 | <2 |
| cis-1,2-Dichloroethene | 70 | <1 | 61.0 | 5.1 | 140 | 280 | 70 | <5 |
| trans-1,2-Dichlorothene | 100 | 12.7 | <1 | <1 | 3.9 | 4.6 | 100 | <5 |
| Tetrachloroethene | 5 | <1 | <1 | <1 | <1 | <1 | 5 | <5 |
| 1,1,1-Trichloroethane | 200 | <1 | <1 | 1.4 | 12.7 | <1 | 200 | <5 |
| 1,1,2-Trichloroethane | 5 | <1 | <1 | <1 | <1 | <1 | 42 | <5 |
| Trichloroethene | 5 | <1 | <1 | 2.3 | <1 | <1 | 10 | <5 |
| Vinyl Chloride | 2 | 84.3 | 25.3 | <1 | 80.3 | 40.6 | 10 | <2 |
| Other VOCs | n/a | 63.2 | 9.3 | 6.5 | 70.2 | 25.3 | n/a | n/a |
| Total VOCs | n/a | 180.8 | 102.6 | 18.3 | 379.1 | 351.8 | n/a | n/a |

| | Influent[1] | | | | | | Effluent[2] | |
|---|---|---|---|---|---|---|---|---|
| LOCATION | Groundwater Action | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Effluent Limts for | GAC-2 Eff. |
| COLLECTION DATE | Levels (GAL)[3] | 9/10/18 | | | | | Discharge[4] | 9/7/18 |
| 1,1-Dichloroethane | 990 | 10.5 | 7.6 | 50.3 | 53.2 | <1 | 990 | <5 |
| 1,1-Dichloroethene | 7 | <1 | <1 | <1 | <1 | <1 | 2 | <2 |
| cis-1,2-Dichloroethene | 70 | 331 | 68.4 | 219 | 72.4 | 251 | 70 | <5 |
| trans-1,2-Dichlorothene | 100 | 7.4 | <1 | 2.9 | 2.2 | 5.3 | 100 | <5 |
| Tetrachloroethene | 5 | <1 | <1 | <1 | <1 | <1 | 5 | <5 |
| 1,1,1-Trichloroethane | 200 | <1 | <1 | 18.9 | 9.5 | <1 | 200 | <5 |
| 1,1,2-Trichloroethane | 5 | <1 | <1 | <1 | <1 | <1 | 42 | <5 |
| Trichloroethene | 5 | <1 | <1 | <1 | <1 | <1 | 10 | <5 |
| Vinyl Chloride | 2 | 58.6 | 33.6 | 127 | 47.9 | 56.2 | 10 | <2 |
| Other VOCs | n/a | 33.1 | 3.7 | 102.2 | 63.6 | 32.5 | n/a | n/a |
| Total VOCs | n/a | 440.6 | 113.3 | 520.3 | 248.8 | 345.0 | n/a | n/a |

| | Influent[1] | | | | | | Effluent[2] | |
|---|---|---|---|---|---|---|---|---|
| LOCATION | Groundwater Action | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Effluent Limts for | GAC-2 Eff. |
| COLLECTION DATE | Levels (GAL)[3] | 12/10/18 | | | | | Discharge[4] | 12/13/18 |
| 1,1-Dichloroethane | 990 | 15.0 | 7.0 | NS | 77.4 | 1.2 | 990 | <5 |
| 1,1-Dichloroethene | 7 | <1 | <1 | NS | <1 | <1 | 2 | <2 |
| cis-1,2-Dichloroethene | 70 | 603 | 80.6 | NS | 89.3 | 279 | 70 | <5 |
| trans-1,2-Dichlorothene | 100 | 11.2 | <1 | NS | 1.9 | 4.2 | 100 | <5 |
| Tetrachloroethene | 5 | <1 | <1 | NS | <1 | <1 | 5 | <5 |
| 1,1,1-Trichloroethane | 200 | <1 | <1 | NS | 7.7 | <1 | 200 | <5 |
| 1,1,2-Trichloroethane | 5 | <1 | <1 | NS | <1 | <1 | 42 | <5 |
| Trichloroethene | 5 | <1 | <1 | NS | <1 | <1 | 10 | <5 |
| Vinyl Chloride | 2 | 121 | 51.8 | NS | 64.9 | 61.3 | 10 | <2 |
| Other VOCs | n/a | 66.1 | 4.9 | NS | 105.4 | 24.6 | n/a | n/a |
| Total VOCs | n/a | 816.3 | 144.3 | NS | 346.6 | 370.3 | n/a | n/a |

TABLE 4
Extraction Well and System Effluent Analytical Results (ug/L)
Third Site Superfund Site, Zionsville, Indiana

| | Influent[1] | | | | | | Effluent[2] | |
|---|---|---|---|---|---|---|---|---|
| LOCATION | Groundwater Action Levels (GAL)[3] | EW-1 | EW-2 | EW-3 | EW-4 | EW-5 | Effluent Limts for Discharge[4] | GAC-2 Eff. |
| COLLECTION DATE | | 3/12/19 | | | | | | 3/26/19 |
| 1,1-Dichloroethane | 990 | 12.1 | 6.2 | NS | 39 | <1 | 990 | <5 |
| 1,1-Dichloroethene | 7 | <1 | <1 | NS | <1 | <1 | 2 | <2 |
| cis-1,2-Dichloroethene | 70 | 512 | 51.3 | NS | 34 | 299 | 70 | <5 |
| trans-1,2-Dichlorothene | 100 | 10.1 | <1 | NS | 3.9 | 5.4 | 100 | <5 |
| Tetrachloroethene | 5 | <1 | <1 | NS | <1 | <1 | 5 | <5 |
| 1,1,1-Trichloroethane | 200 | <1 | <1 | NS | 1.4 | <1 | 200 | <5 |
| 1,1,2-Trichloroethane | 5 | <1 | <1 | NS | <1 | <1 | 42 | <5 |
| Trichloroethene | 5 | <1 | <1 | NS | <1 | <1 | 10 | <5 |
| Vinyl Chloride | 2 | 82.4 | 28.5 | NS | 26.3 | 47.4 | 10 | <2 |
| Other VOCs | n/a | 53.9 | 1.1 | NS | 272.6 | 23.8 | n/a | n/a |
| Total VOCs | n/a | 670.5 | 87.1 | NS | 377.2 | 375.6 | n/a | n/a |

1. Influent = individual extraction well (EW) analytical results.

2. Effluent = Pump & treat system final effluent following carbon treatment.

3. Groundwater Action Levels to be achieved after completion of monitored natural attenuation from Enforcement Action Memorandum dated May 11, 2001; Equivalent to MCL/IDEM Tier I Default Criteria of Table 2-7-C of the October 2000 EE/CA.

4. Effluent limits for discharge to Finley Creek from February 1997 *Briefing Memo: ECC, Zionsville, Indiana Superfund Site, ARAR Effluent Limits* , prepared by IDEM, and the modified effluent limitations for cis- and trans-1,2-dichloroethene per the December 1, 2009 letter from IDEM.

n/a = Not applicable

NS = Not sampled (due to ERH operation)

RAMBOLL

ATTACHMENT D

Confirmation Groundwater Analytical Results – DNAPL Containment Area

TABLE 5
Confirmation Groundwater Analytical Results (ug/L)
DNAPL Containment Area
Third Site Superfund Site, Zionsville, Indiana

| LOCATION | Sump | P-1 | P-2 | P-3 | MW-27R | MW-27R DUP |
|---|---|---|---|---|---|---|
| COLLECTION DATE | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 | 3/29/2019 |
| | | | | | | |
| 1,1-Dichloroethane | <10 | 208 | <10 | <10 | <10 | <10 |
| 1,1-Dichloroethene | <10 | <1 | <10 | <10 | <10 | <10 |
| cis-1,2-Dichloroethene | 634 | <1 | 2,150 | 131 | 153 | 173 |
| trans-1,2-Dichlorothene | 35.8 | <1 | 44.2 | <10 | <10 | <10 |
| Tetrachloroethene | 113 | 2,240 | 84.6 | <10 | <10 | 23.2 |
| 1,1,1-Trichloroethane | <10 | <1 | <10 | <10 | <10 | <10 |
| 1,1,2-Trichloroethane | <10 | <1 | <10 | <10 | <10 | <10 |
| Trichloroethene | 653 | 21,000 | 446 | 39.0 | 41.1 J | 127 J |
| Vinyl Chloride | <10 | 64.5 | 14.3 | <10 | <10 | <10 |
| Other VOCs | 1,675 | 24,166 | 2,840 | 313 | 1,092 | 1,292 |
| Total VOCs | 3,111 | 47,679 | 5,579 | 483 | 1,245 | 1,488 |
| Performance Standards for ERH Treatment (Total VOCs)(2) | 4,285 | 4,285 | 4,285 | 4,285 | 742 | 742 |

NOTES:
1. Compounds listed above are Third Site Contaminants of Concern (COC) identified in Table 1 of the May 2001 Enforcement Action Memorandum.
2. Performance standards per Table 5 of the April 2018 Remedial Design Report prepared by McMillan-McGee Corp.
3. Samples analyzed using EPA Method 8260.
4. J = Estimated