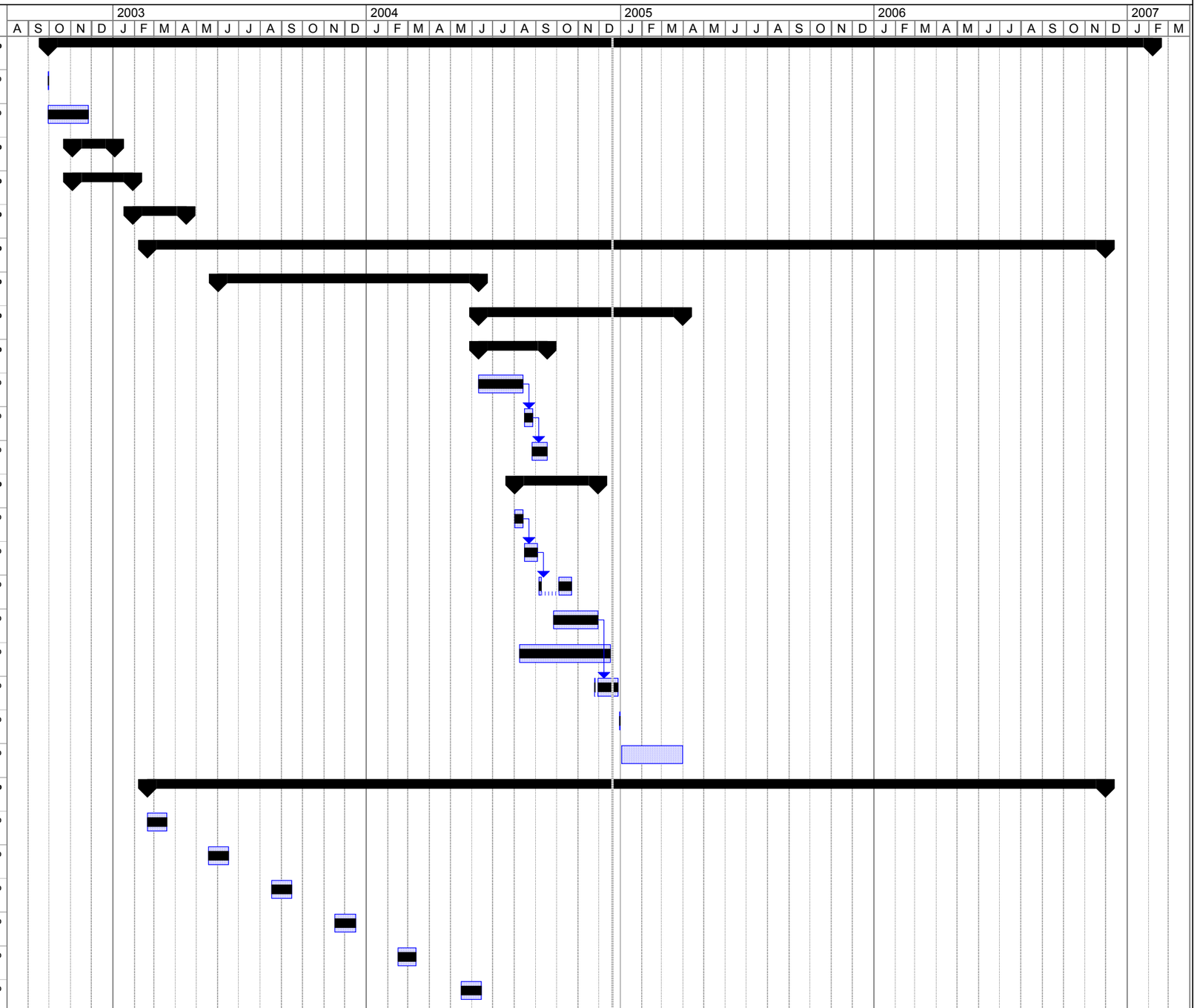
Vernay Laboratories, Inc.
Project No. 0292.11.39
December 20, 2004

RCRA CORRECTIVE ACTION PROJECT SCHEDULE

Table 1: Project Schedule

ID	Task Name	% Complete
1	**RCRA CORRECTIVE ACTION PROJECT SCHEDULE**	**55%**
2	**1.0 CONSENT ORDER EFFECTIVE**	100%
3	**2.0 CURRENT CONDITIONS REPORT**	100%
4	**3.0 EI RISK SCOPING**	**100%**
7	**4.0 Ground Water Capture Interim Measure**	**100%**
13	**5.0 SOIL HOT SPOT INTERIM MEASURE ASSESSMENT**	**100%**
18	**6.0 RCRA FACILITY INVESTIGATION**	**80%**
19	**6.1 Phase I: N&E in Cedarville Aquifer/Storm Sewer Backfill**	**100%**
41	**6.2 Phase II RFI**	**81%**
42	**6.2.1 Additional Data Needs**	**100%**
43	Design/Planning	100%
44	Soil Boring Installation	100%
45	Laboratory Analysis and Data Validation	100%
46	**6.2.2 Fate and Transport Modeling**	**100%**
47	Conceptual Model Development	100%
48	Numerical Model Construction	100%
49	Model Calibration, Uncertainty and Sensitivity Analyses	100%
50	Modeling Report Preparation	100%
51	**6.2.3 Baseline Human Health and Ecological Risk Assessment**	100%
52	**6.2.4 Phase II Facility Investigation Report**	100%
53	Submit Phase II RFI Report	100%
54	USEPA Approval of Phase II RFI Report	0%
55	**6.3 Ground Water Monitoring**	**49%**
56	1st Quarter 2003	100%
57	2nd Quarter 2003	100%
58	3rd Quarter 2003	100%
59	4th Quarter 2003	100%
60	1st Quarter 2004	100%
61	2nd Quarter 2004	100%

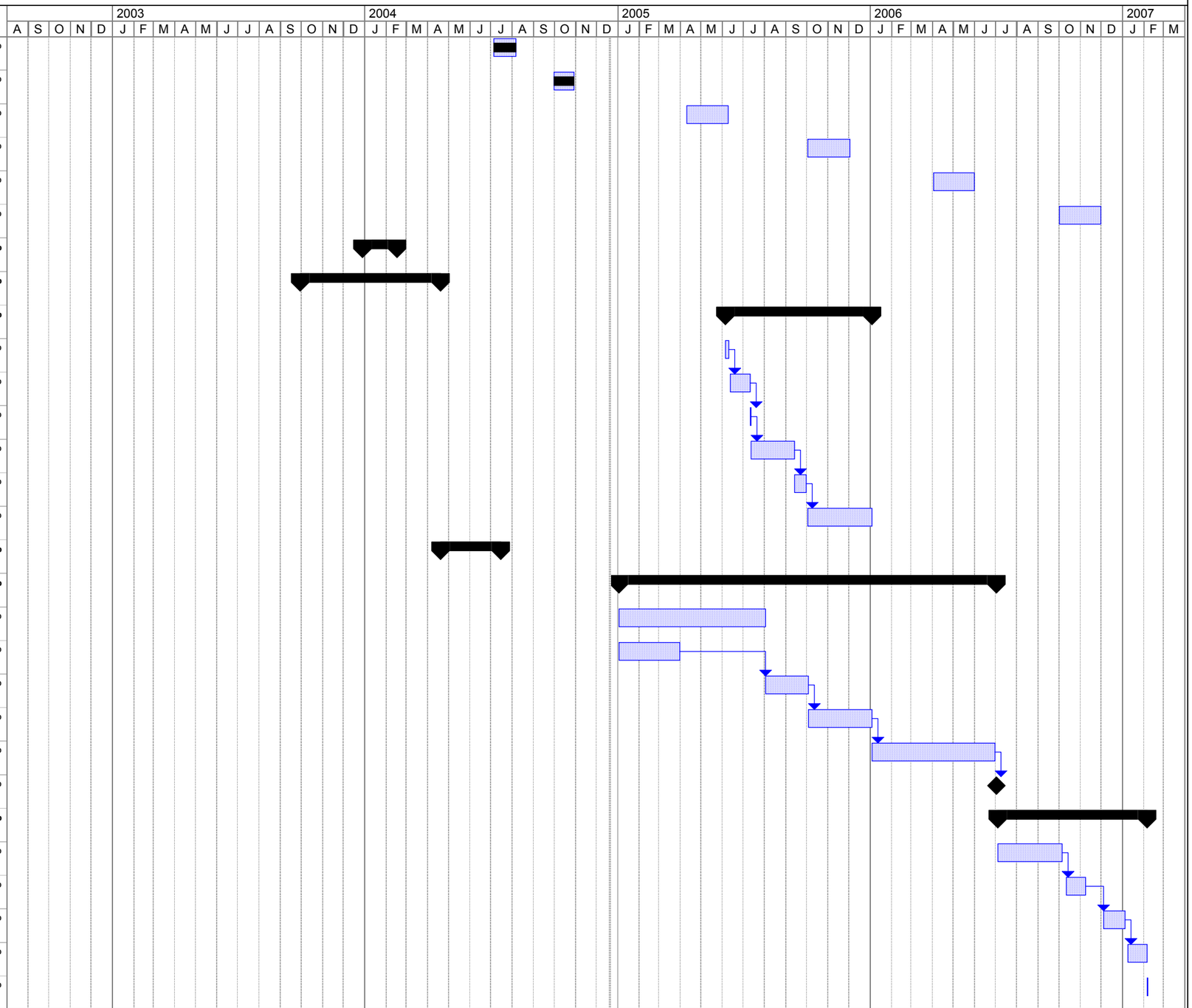


Vernay Laboratories, Inc.
Project No. 0292.11.39
December 20, 2004

RCRA CORRECTIVE ACTION PROJECT SCHEDULE

Table 1: Project Schedule

ID	Task Name	% Complete
62	3rd Quarter 2004	100%
63	4th Quarter 2004	100%
64	1st Half 2005	0%
65	2nd Half 2005	0%
66	1st Half 2006	0%
67	2nd Half 2006	0%
68	**6.5 Additional Soil Source Investigation**	**100%**
72	**6.6 EI Risk Data Needs**	**100%**
75	**7.0 EI REPORT FOR GROUND WATER**	**0%**
76	Data Evaluation	0%
77	Prepare Draft Report	0%
78	Submit Draft Report to USEPA	0%
79	USEPA Review of Draft Report	0%
80	Prepare and Submit Final Report	0%
81	USEPA Review and Approve Final Report	0%
82	**8.0 EI REPORT FOR HUMAN HEALTH**	**100%**
85	**9.0 PROPOSE TO USEPA FINAL CORRECTIVE MEASURES**	**0%**
86	Treatability/Pilot Study	0%
87	Idenfify PRGs and Corrective Measures Objectives	0%
88	Screening and Development of Potential Corrective Measures	0%
89	Detailed Eng. Analysis and Comparison of Selected Corr. Measures	0%
90	Prepare Corrective Measures Report	0%
91	Submit Corrective Measures Report	0%
92	**10.0 USEPA SELECTS FINAL CORRECTIVE MEASURES**	**0%**
93	USEPA Selects Proposed Final Corrective Measures	0%
94	Public Review of Proposed Final Corrective Measures	0%
95	Prepare Response to Public/USEPA Comments	0%
96	USEPA Determination of Final Corrective Measures	0%
97	**11.0 COMMENCE IMPLEMENTATION OF FINAL CORRECTIVE MEASURES**	0%



The Payne Firm, Inc.

Vernay Laboratories, Inc.

Plant 2/3 Facility
Yellow Springs, Ohio
Project No. 0292.11.39

TABLE 2: Project Data Quality Objectives

Step in the DQO Process	Systematic Planning Activities	Intended Purpose of Ohio EPA VAP Investigation Data Within the Planning Activities	Outputs to Support Planning Decisions
1. State the Problem **Note:** An important deliverable associated with this step is the preparation of a Current Conditions Report that includes Ohio VAP investigation sampling data, summary of historic operations at the Facility, physical setting of the Facility, review of the quality of Ohio VAP data, and conditions at all locations specified in the US EPA's PA/VSI for the Facility (USEPA, 2000).	• Identify USEPA technical team and Vernay's technical team. • Develop a conceptual model for the Facility. • Identify work performed to date, data collected, problems encountered, project schedule, and percent project completed on a frequent basis. • Communicate frequently with US EPA.	• Ohio VAP data will be used to develop a: 1) conceptual model of the Facility identifying the site geology and potential contaminant migration pathways; and 2) potential human exposure model for on and off of the Facility. The models will serve as the basis for RCRA corrective action scope of work inputs and decisions, especially with regards to Section VI. of the Consent Order (Work To Be Performed).	• Formal identification of project managers once the Consent Order is signed. • Preparation and presentation of a Facility conceptual site model in the Current Conditions Report. • Preparation of a human exposure model that is verbally discussed with US EPA risk assessor. • Preparation of Quarterly Progress Reports that includes an updated project schedule. • Notify the US EPA in writing at least 14 days before beginning each separate phase of field work. • Meet on at least a semi-annual basis to discuss scopes of work. • Establish a public repository.
2. Identify the Decision **Note:** Important deliverables for this step is a Historical Data Usage Technical Memorandum; a request to the US EPA for a review of past Ohio VAP investigation analytical data following US EPA guidance (US EPA, 1998); and a project specific QAPP.	• Determine if past Ohio VAP investigation analytical data is usable for RCRA corrective action decision making. • Identify the principal objectives of conducting the work presented in Section VI. of the Consent Order. • Conduct RCRA corrective action in an iterative process to optimize the decision making process. • Identify the specific scopes of work needed to meet the project objectives. • Identify project specific analytical objectives in terms of accuracy, precision, completeness, representativeness, and comparability; and identify data validation process.	• Use Ohio VAP investigation data presented in the CCR and the conceptual models presented in Step 1 to assist in determining principal objectives of specific RCRA corrective action scopes of work, and the data needed to satisfy those objectives.	• Preparation of a Historical Data Usage Technical Memorandum demonstrating why the Ohio VAP investigation analytical data does or does not satisfy the RCRA corrective action DQOs and whether the analytical data should be submitted to the US EPA for review. • A request to the US EPA to review Ohio VAP investigation analytical data to determine if it is acceptable for its intended uses in the RCRA corrective action. • Task-specific Statement of Works that are prepared prior to each iterative field investigation step and sent to the US EPA for review. If needed, a conference call will take place to discuss the scope of work. • Preparation of decision trees or flow diagrams as necessary to define key decisions and possible interim steps. • Preparation of a project specific QAPP following US EPA guidance (US EPA, 1998) and submittal to US EPA for review.

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TABLE 2: Project Data Quality Objectives

Step in the DQO Process	Systematic Planning Activities	Intended Purpose of Ohio EPA VAP Investigation Data Within the Planning Activities	Outputs to Support Planning Decisions
3. <u>Identify the Inputs Into the Decision</u> **Note:** Important deliverables for this steps are a: Ground Water Technical Memorandum; Phase I RFI Report; Phase II RFI Report; EI Report for ground water; EI Report for human health; and Corrective Measures Proposal.	• Complete a capture zone analysis. • Complete an assessment of the potential effectiveness of in situ soil treatment beneath the Facility in areas of highest contamination. • Perform an investigation of the Facility to identify the nature and extent of any releases of hazardous waste and hazardous constituents at or from the Facility. • Determine appropriate risk screening criteria under current use scenarios. • Determine any current unacceptable risks to human health and the environment. • Conduct ground water monitoring to confirm that any contaminated ground water remains within the original area of contamination. • Implement any interim measure necessary to stabilize the migration of contaminated ground water. • Control any unacceptable current human exposures to within acceptable risk levels. • Evaluate a range of corrective measures and propose a final remedy that protects human health and the environment from all current and future unacceptable risks.	• Use Analytical Level III Ohio VAP investigation data to complete capture zone analysis (ground water data) and in situ treatment assessment (soil data). • Use Analytical Level III Ohio VAP investigation ground water, soil, surface water, sediment, and air data presented in the CCR to assist in identifying the data needs of the RCRA corrective action. • Use Analytical Level III Ohio VAP investigation ground water, soil, surface water, sediment, and air data to conduct risk screening. • Use Analytical Level III soil data and air monitoring data to determine the nature and extent of contamination, unacceptable risks, contaminant fate and transport modeling (e.g. soil leaching and vapor intrusion modeling), and evaluation of corrective measures. • Use Analytical Level III Ohio VAP investigation ground water data in: trend analyses conducted during the quarterly ground water monitoring program; sensitivity, calibration, and uncertainty analyses for contaminant fate and transport modeling; and, assessment of remedial technologies (e.g. natural attenuation and ground water capture) during the evaluation of corrective measures. • Use Analytical V geological property data to support the evaluation of soil contaminant leaching and vapor intrusion.	• Analytical Level III data will be generated, and it will reported by the project laboratory as a CLP-like report during the RCRA corrective action. • Confirmatory soil samples will be collected and reported at Analytical Level IV to confirm Ohio VAP investigation Analytical Level III soil data results, the nature and extent of soil contamination presented in the CCR, and the PA/VSI. At least 10% of the Ohio VAP investigation soil data will be confirmed. • Additional soil samples, surface water, and sediments samples will be collected and analyzed at Analytical Level III to complete the nature and extent of contamination and determination of unacceptable risks. • CLP-like data packages for Ohio VAP investigation analytical data can be obtained from the project laboratory if it is needed to support the DQOs of the RCRA corrective action. • Vernay will perform the Facility Investigation and prepare and submit the RFI Report in two phases to enhance decision-making process, and optimize the overall RCRA corrective action. • An iterative ground water well installation program will be conducted during the RFI to ensure the optimum placement of monitoring wells, and to enhance the decision-making process. • An Environmental Indicator Report for ground water will be submitted that demonstrates that ground water contamination is stabilized. • An Environmental Indicator Report for human health will be submitted demonstrating that all current exposures are under control. • A Ground Water Technical Memorandum will be completed during Phase I of the RFI to present critical hydrogeologic data and to confirm that the RCRA corrective action ground water EI determination is proceeding as scheduled, and that existing interim measures are performing as intended. • Analysis using US EPA SW-846 standard methods, and practical quantitation limits (PQLs) that will permit the project objectives to be met. A table will be presented in the QAPP presenting project-specific PQLs. • Analysis of soil samples for geological properties will be analyzed at Analytical Level V. • Quarterly ground water monitoring will be conducted to reduce uncertainty in the evaluation of mobility and stabilization of COCs. • All sampling and analysis will be conduced following the project QAPP, US EPA guidance (US EPA, 1998), task-specific SOWs, and the Consent Order. • Any risk assessments will estimate human health and ecological risk under reasonable maximum exposure for both current and reasonably expected future land use scenarios. US EPA guidance will be followed (US EPA, 1989) in conducting risk assessments. • Screening values derived from Federal MCLs, US EPA Region IX PRGs, US EPA Region V ESLs, US EPA Regions V RBSLs, and RAGs will be used. • If an interim measure is implemented to meet the EIs, a report will be prepared summarizing the construction and implementation. • A Final Corrective Measures Proposal will be prepared that proposes the corrective measures necessary to protect human health and the environment from all current and future unacceptable risks.

The Payne Firm, Inc.

TABLE 2: Project Data Quality Objectives

Step in the DQO Process	Systematic Planning Activities	Intended Purpose of Ohio EPA Investigation VAP Data Within the Planning Activities	Outputs to Support Planning Decisions
4. <u>Define the Boundaries of the RCRA Corrective Action</u> **Note:** An important deliverable for this step is a RCRA Facility Investigation Sampling List Technical Memorandum.	• Define the exposure area and exposure points, receptor population, exposure route, exposure medium for current and potential future receptors on and off of the Facility. • Determine a representative RFI sampling list of constituents. • Determine the area of ground water contamination on and off of the Facility. • Determine the area of soil contamination on the Facility. • Define a water well and substructure (e.g. basements, sumps, cisterns) survey area for the Human Health EI and to assess unacceptable risks. • Determine the area of surface water and sediment contamination in the unnamed creek. • Determine areas of ground water and soil contamination requiring remedial action. • Determine upgradient concentrations of COCs in ground water. • Determine background concentrations of COCs metals in soil.	• Use Analytical Level III Ohio VAP investigation analytical data presented in the CCR to develop an initial conceptual site model for human health and the environment. • Use Analytical Level III Ohio VAP investigation soil analytical data to establish the area of soil contamination on the Facility, and present the results in the CCR. • Use Analytical Level III Ohio VAP investigation soil data to determine what additional soil analytical data is needed. • Use Analytical Level III Ohio VAP investigation soil and ground water data to assist in determining the chemical groups that do not need to be included as part of the RFI sampling list. • Use Analytical Level III Ohio VAP investigation analytical data to assist in determining the specific chemicals to be included for each chemical group on the RFI sampling list.	• Analytical Level III ground water, surface water, and sediment data will be used to refine the human health and environment conceptual site model as information is obtained during the RCRA corrective action. • Analytical Level III soil data will be collected to finalize the area of contamination, and to confirm Ohio VAP analytical results. • A water well and substructure survey will be conducted at properties within the well survey area. • A decision tree matrix will be developed to assist the US EPA and Vernay with issues regarding well or substructure abandonment to eliminate current unacceptable risks to human health. • The determination of the RFI sampling list will consist of a logical process that will include, at a minimum, the following: comparison of the availability of toxicity data between the US EPA Appendix IX list and the US EPA TCL/TAL list; the frequency of detections of Analytical Level III data collected during the Ohio VAP investigation; historical chemical usage at the Facility based on information presented in the CCR and the PA/VSI; interviews with Vernay chemists and engineers; and, US EPA data for releases associated with the rubber manufacturing industry (US EPA, 1995). • A Technical Memorandum will be prepared summarizing the development of the RFI sampling list and submitted to the US EPA for review. • An ecological risk screening process following US EPA guidance (US EPA, 1989) will be completed to refine the initial conceptual site model, and define data needs for surface water and sediment sampling. • A risk assessment will be completed following US EPA guidance (US EPA, 1989) to define the unacceptable risks to human health and the environment and cleanup values for on and off of the Facility. • An evaluation of corrective measures that will remediate areas of soil and ground water contamination will be completed. • Samples from upgradient ground water monitoring wells will be collected and analyzed at Analytical Level III to determine concentrations of any COCs migrating on to the facility. • Background soil samples from an unaffected area off of the Facility will be collected and analyzed for COC metals at Analytical Level III.

The Payne Firm, Inc.

TABLE 2: Project Data Quality Objectives

Step in the DQO Process	Systematic Planning Activities	Intended Purpose of Ohio EPA VAP Investigation Data Within the Planning Activities	Outputs to Support Planning Decisions
5. <u>Develop Decision Rules, Specify Tolerable Limits on Decision Errors, and Optimize Design for Obtaining Data</u>	• Specify the population parameter (e.g. median, median, total amount, etc.) that is important to make decisions about data needs and to determine unacceptable risks to human health and the environment. • Determine any sources of error during field sample collection, field instrument screening, contaminant fate and transport modeling, and the laboratory analysis of samples. • Specify routine procedures used to assess data precision, accuracy, and completeness during laboratory analysis of samples. • Develop a corrective action system that corrects field, modeling, and analytical errors. • Develop and design data collection objectives and procedures.		• Compare PQLs used during the Ohio VAP project PQLs used of the RCRA corrective action to determine if there is any significant variability. • Compare ground water, surface water, sediment, and soil analytical data collected during the Ohio VAP investigation with data collected during the RCRA corrective action to determine if there is any significant variability. • Prepare a RCRA Corrective Action Quality Assurance Plan following US EPA guidance (US EPA, 1998) that defines the organization, objectives, QA/QC activities, decision errors, and corrective steps with the RCRA corrective action process. • Prepare task-specific statement of works during the RCRA corrective action that defines objectives, sampling procedures, and QA/QC requirements. • Calibrate field instruments prior to any use following standard operating procedures. • Complete an independent validation of analytical reports and data following procedures outlined in the QAPP. • Prepare a baseline risk assessment following US EPA guidance (US EPA, 1989) to evaluate the uncertainty of the exposure assessment. • Use US EPA accepted modeling software when completing contaminant fate and transport modeling for the risk assessment or evaluation of corrective measures. Use Analytical Level III data to develop models.

The Payne Firm, Inc.

Vernay Laboratories, Inc.

Plant 2/3 Facility
Yellow Springs, Ohio
Project No. 0292.11.39

TABLE 3: Summary of RFI Statement of Work Tasks

	SOW No.	RFI Tasks and Specific Statements of Work	Date	Data Objectives and Data Needs	Data Outputs
Phase I RFI	**1**	Additional Capture Well Installation (CW01-02)	January 6, 2003	• following the completion of a capture zone analysis, install additional Cedarville Aquifer extraction well(s) at the Vernay Plant 2/3 Facility to prevent the migration of contaminated ground water in the Cedarville Aquifer off the Facility, as described in Section VI. 11 of the Order.	• Capture zone analysis indicated one additional Cedarville Aqifer Extraction Well was necessary. • One Cedarville Aqifer Extraction Well (CW01-02) was installed and operated by February 1, 2003.
	2	First Quarter 2003 Monitoring Event	January 23, 2003	• quarterly monitoring as required by Section VI.13. of the Order to determine the nature and extent of contamination in the Cedarville Aquifer and sewer backfill.	• Quarterly Progress Report provided a Level IV Analytical Data package for 27 monitoring wells sampled for a combination of VOCs, SVOCs, and Metals (Cu, Cr-total, Zn).
	3	Second Quarter 2003 Monitoring Event	May 5, 2003	• quarterly monitoring as required by Section VI.13. of the Order to determine the nature and extent of contamination in the Cedarville Aquifer and sewer backfill.	• Quarterly Progress Report provided a Level IV Analytical Data package for 12 monitoring wells sampled for a combination of VOCs and SVOCs.
	4b	Additional Monitoring Wells in the Cedarville Aquifer and Sewer Backfill / Third Quarter 2003 Monitoring Event	August 27, 2003	• installation of monitoring wells off the Facility into the Cedarville Aquifer and storm sewer backfill by September 30, 2003 as described in Section VI.13. of the Order. • quarterly monitoring as required by Section VI.13. of the Order to determine the nature and extent of contamination in the Cedarville Aquifer and sewer backfill.	• Quarterly Progress Report provided a Level IV Analytical Data package for 32 Direct-Push water samples from the upper Cedarville Aquifer and sewer backfill analyzed for VOCs and 36 monitoring wells sampled for VOCs. • Eight additional Cedarville Aquifer monitoring wells and one additional storm sewer well were installed following a Direct-Push water sampling event.
	5	Fourth Quarter 2003 Monitoring Event	October 23, 2003	• quarterly monitoring as required by Section VI.13. of the Order to determine the nature and extent of contamination in the Cedarville Aquifer and sewer backfill.	• Quarterly Progress Report provided a Level IV Analytical Data package for 36 monitoring wells sampled for VOCs.
	6	Additional Direct-Push Sampling in the Cedarville Aquifer and Unconsolidated Unit on and off the Vernay Plant 2/3 Facility	November 4, 2003	• installation of Direct-Push borings into (A) the upper Cedarville Aquifer off of the Facility, (B) the soil adjacent to the storm and sanitary sewer backfill along Dayton Street and (C) the soil beneath the Facility.	• Quarterly Progress Report provided a Level IV Analytical Data package for 42 Direct-Push borings completed in the upper Cedarville Aquifer and soil analyzed for a combination of VOCs, SVOCs, and Metals (As, Cu, Zn).
	7	Additional Direct-Push Sampling in the Cedarville Aquifer and Unconsolidated Unit on and off the Vernay Plant 2/3 Facility	January 16, 2004	• installation of Direct-Push borings into the soil beneath the Facility as part of the Phase I Facility Investigation.	• Quarterly Progress Report provided a Level IV Analytical Data package for 60 Direct-Push borings completed in soil analyzed for a combination of VOCs, SVOCs, PAHs and Metals (As, Cu, Zn).
	8b	Additional Monitoring Wells in the Cedarville Aquifer	February 24, 2004	• installation of Direct-Push borings into the upper Cedarville Aquifer off of the Facility as part of the Phase I Facility Investigation. • installation of monitoring wells on and off the Facility into the Cedarville Aquifer as part of the Phase I Facility Investigation.	• A Level IV Analytical Data package was generated for a total of 12 Direct-Push water samples completed in the upper Cedarville Aquifer analyzed for VOCs. • 17 additional Cedarville Aquifer monitoring wells were installed following a Direct-Push water sampling event.
	9a	First Quarter 2004 Monitoring Event	February 24, 2004	• quarterly monitoring as required by Section VI.13. of the Order to determine the nature and extent of contamination in ground water.	• A Level IV Analytical Data package was generated for a total of 53 monitoring wells, two surface water samples, and eight indoor air samples analyzed for VOCs.
	10a	Water Well Sampling and Well Closure	April 2, 2004	• sampling of water wells currently used within a defined survey area and the abandonment of a water well(s).	• A Level IV Analytical Data package was generated for a total of 10 water wells sampled for VOCs.
	12	Second Quarter 2004 Monitoring Event	April 6, 2004	• quarterly monitoring as required by Section VI.13. of the Order to determine the nature and extent of contamination in ground water.	• A Level IV Analytical Data package was generated for a total of 53 monitoring wells sampled for VOCs.
Phase II RFI	**13**	Third Quarter 2004 Monitoring Event	July 6, 2004	• quarterly monitoring as required by Section VI.13. of the Order to determine the nature and extent of contamination in ground water.	• A Level IV Analytical Data package was generated for a total of 53 monitoring wells sampled for VOCs.
	14a	Phase II RFI Additional Direct-Push Sampling in the Unconsolidated Unit on and off the Vernay Plant 2/3 Facility	August 12, 2004	• installation of Direct-Push borings into the soil beneath the Facility and vicinity as part of the Phase II Facility Investigation.	• Quarterly Progress Report provided a Level IV Analytical Data package for 41 Direct-Push borings completed in soil analyzed for a combination of VOCs, SVOCs, and Metals (Pb, Ba).
	15	Fourth Quarter 2004 Monitoring Event	September 17, 2004	• quarterly monitoring as required by Section VI.13. of the Order to determine the nature and extent of contamination in ground water.	• A Level IV Analytical Data package was generated for a total of 53 monitoring wells sampled for VOCs.
	16	Water Well Location, Sampling, and Closure	November 18, 2004	• locating, sampling, and permanently closing a water well that serviced the 401 Suncrest Drive property.	• A Level IV Analytical Data package was generated for a total of 1 water well sampled for VOCs.

** SOW No. 11 does not exist

The Payne Firm, Inc.

Vernay Laboratories, Inc.

Plant 2/3 Facility
Yellow Springs, Ohio
Project No. 0292.11.39

TABLE 4: Survey Information

Location ID	Location	Survey Point	Drilling Firm	Drilling Method	Start Date	Completion Date	Easting (X)	Northing (Y)	Surface Grade (feet msl)	Flush Grade (feet msl)	Measuring Point (feet msl)	Total Depth (feet bgs)
AIR-0101	Vernay Plant 2/3 Facility	Indoor Air			5/21/1999	5/21/1999	1573708.02	659553.45				
AIR-0102	Vernay Plant 2/3 Facility	Indoor Air			5/21/1999	5/21/1999	1573707.23	659546.39				
AIR-0103	Vernay Plant 2/3 Facility	Indoor Air			5/21/1999	5/21/1999	1573590.30	659538.54				
AIR-0104	Vernay Plant 2/3 Facility	Indoor Air			5/21/1999	5/21/1999	1573732.35	659479.29				
AIR-0105	Vernay Plant 2/3 Facility	Indoor Air			5/21/1999	5/21/1999	1573492.98	659543.64				
AIR-0106	Vernay Plant 2/3 Facility	Indoor Air			5/21/1999	5/21/1999	1573496.91	659543.65				
AIR-0107	Vernay Plant 2/3 Facility	Indoor Air			10/4/2002	10/4/2002	1573706.53	659500.26	1028.90		1022.90	10.00
AIR-0108	Vernay Plant 2/3 Facility	Indoor Air			10/4/2002	10/4/2002	1573706.53	659500.26	1028.90		1019.90	10.00
AIR-0109	Vernay Plant 2/3 Facility	Indoor Air			10/4/2002	10/4/2002	1573718.37	659547.50	1028.87		1024.37	5.50
AIR-0110	Vernay Plant 2/3 Facility	Indoor Air			10/4/2002	10/4/2002	1573718.37	659547.50	1028.87		1027.37	5.50
AIR-0111	Vernay Plant 2/3 Facility	Indoor Air			10/4/2002	10/4/2002	1573588.37	659533.47	1027.63		1018.63	10.00
AIR-0112	Vernay Plant 2/3 Facility	Indoor Air			10/4/2002	10/4/2002	1573588.37	659533.47	1027.63		1021.63	10.00
AIR-0113	Vernay Plant 2/3 Facility	Indoor Air			10/4/2002	10/4/2002	1573504.73	659543.29	1027.66		1024.66	4.00
AIR-0114	Vernay Plant 2/3 Facility	Indoor Air			10/4/2002	10/4/2002	1573504.73	659543.29	1027.66		1027.66	4.00
B01-01	Vernay Plant 2/3 Facility	Geologic Boring	BM	HSA	9/1/1998	9/1/1998	1573568.93	659644.78	1026.22		1026.22	18.00
B01-02	Vernay Plant 2/3 Facility	Geologic Boring	BM	HSA	9/1/1998	9/1/1998	1573904.03	659265.01	1027.39		1027.39	19.20
B01-03	Vernay Plant 2/3 Facility	Geologic Boring	BM	HSA	9/1/1998	9/1/1998	1573824.99	659240.61	1026.30		1026.30	16.00
B01-04	Vernay Plant 2/3 Facility	Geologic Boring	BM	HSA	9/1/1998	9/1/1998	1573914.85	659459.29	1024.66		1024.66	17.00
B01-05	Vernay Plant 2/3 Facility	Geologic Boring	BM	HSA	9/2/1998	9/2/1998	1573719.56	659244.98	1025.97		1025.97	16.00
B01-06	Vernay Plant 2/3 Facility	Geologic Boring	BM	HSA	9/2/1998	9/2/1998	1573533.22	659255.62	1025.46		1025.46	12.50
B01-07	Vernay Plant 2/3 Facility	Geologic Boring	BM	HSA	9/2/1998	9/2/1998	1573472.60	659499.47	1026.66		1026.66	16.00
B01-08	Vernay Plant 2/3 Facility	Geologic Boring	BM	HSA	9/3/1998	9/3/1998	1573183.97	659497.26	1031.24		1031.24	19.50
B01-09	Vernay Plant 2/3 Facility	Geologic Boring	BM	HSA	9/3/1998	9/3/1998	1573388.82	659751.51	1026.34		1026.34	16.00
B01-10	Vernay Plant 2/3 Facility	Geologic Boring	BM	HSA	9/3/1998	9/3/1998	1573566.06	659817.03	1025.03		1025.03	17.00
BSB01-01	Vernay Plant 2/3 Facility	Cedarville Aquifer Temporary Borehole	BM	HSA/AR	10/26/1998	10/29/1998	1573199.38	659663.78	1029.37	1029.37	1028.88	30.00
CW01-01	Vernay Plant 2/3 Facility	Cedarville Aquifer Extraction Well	BM	RS	10/6/1999	10/8/1999	1573909.28	659427.70	1025.82	1027.71	1025.13	58.00
CW01-02	Vernay Plant 2/3 Facility	Cedarville Aquifer Extraction Well	BM	AR	1/6/2003	1/13/2003	1573937.31	659862.08	1022.66	1022.78	1022.29	104.00
GP01-001	Vernay Plant 2/3 Facility	Geologic Boring	AST	DP	9/19/1998	9/19/1998	1573607.64	659249.77	1024.87		1024.87	14.00
GP01-002	Vernay Plant 2/3 Facility	Geologic Boring	AST	DP	9/19/1998	9/19/1998	1573616.51	659357.79	1024.89		1024.89	14.50
GP01-003	Vernay Plant 2/3 Facility	Geologic Boring	AST	DP	9/19/1998	9/19/1998	1573622.60	659435.62	1025.49		1025.49	15.10
GP01-004	Vernay Plant 2/3 Facility	Geologic Boring	AST	DP	9/19/1998	9/19/1998	1573628.98	659547.76	1025.96		1025.96	15.50
GP01-005	Vernay Plant 2/3 Facility	Geologic Boring	AST	DP	9/19/1998	9/19/1998	1573635.88	659614.23	1025.60		1025.60	16.70
GP01-006	Vernay Plant 2/3 Facility	Geologic Boring	AST	DP	9/19/1998	9/19/1998	1573643.97	659725.92	1025.56		1025.56	16.80
GP01-007	Vernay Plant 2/3 Facility	Geologic Boring	AST	DP	9/19/1998	9/19/1998	1573543.60	659571.12	1025.84		1025.84	16.00
GP01-008	Vernay Plant 2/3 Facility	Geologic Boring	AST	DP	9/19/1998	9/19/1998	1573367.35	659493.40	1027.12		1027.12	15.30
GP01-009	Vernay Plant 2/3 Facility	Geologic Boring	AST	DP	9/20/1998	9/20/1998	1573904.54	659375.51	1025.99		1025.99	16.00
GP01-010	Vernay Plant 2/3 Facility	Geologic Boring	AST	DP	9/20/1998	9/20/1998	1573532.38	659334.99	1025.32		1025.32	13.20
GP01-011	Vernay Plant 2/3 Facility	Geologic Boring	AST	DP	9/20/1998	9/20/1998	1573535.01	659406.67	1026.03		1026.03	13.90
GP01-012	Vernay Plant 2/3 Facility	Geologic Boring	AST	DP	9/20/1998	9/20/1998	1573470.11	659426.86	1026.28		1026.28	13.90
GP01-013	Vernay Plant 2/3 Facility	Geologic Boring	AST	DP	9/20/1998	9/20/1998	1573462.26	659656.86	1025.70		1025.70	13.60
GP01-014	Vernay Plant 2/3 Facility	Geologic Boring	AST	DP	9/20/1998	9/20/1998	1573921.59	659759.02	1023.19		1023.19	14.70
GP01-015	Vernay Plant 2/3 Facility	Geologic Boring	AST	DP	9/20/1998	9/20/1998	1573193.96	659270.30	1027.73		1027.73	12.60
GP01-016	Vernay Plant 2/3 Facility	Geologic Boring	AST	DP	9/20/1998	9/20/1998	1573927.31	659642.76	1024.34		1024.34	20.50
GP01-017	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/14/1998	12/14/1998	1573653.49	659553.72	1025.74		1025.74	17.50
GP01-017 CONF	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	1/29/2004	1/29/2004	1573653.49	659553.72	1025.74		1025.74	18.00
GP01-018	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/14/1998	12/14/1998	1573649.01	659501.64	1025.46		1025.46	17.20
GP01-019	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/14/1998	12/14/1998	1573646.52	659462.24	1025.39		1025.39	16.30
GP01-019 CONF	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	1/29/2004	1/29/2004	1573646.52	659462.24	1025.39		1025.39	16.00
GP01-020	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/14/1998	12/14/1998	1573644.22	659412.22	1025.16		1025.16	16.50
GP01-020 CONF	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	2/2/2004	2/2/2004	1573644.22	659412.22	1025.16		1025.16	15.00
GP01-021	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/15/1998	12/15/1998	1573630.21	659367.14	1024.90		1024.90	16.00
GP01-022	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/15/1998	12/15/1998	1573628.29	659324.29	1024.66		1024.66	14.50
GP01-023	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/15/1998	12/15/1998	1573640.51	659280.82	1024.19		1024.19	14.80
GP01-024	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/15/1998	12/15/1998	1573543.80	659403.98	1025.82		1025.82	14.50
GP01-025	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/16/1998	12/16/1998	1573492.38	659461.30	1026.74		1026.74	15.20
GP01-025 CONF	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/24/2004	8/24/2004	1573492.38	659461.30	1026.74		1026.74	15.50
GP01-026	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/16/1998	12/16/1998	1573493.05	659517.25	1026.75		1026.75	15.00
GP01-027	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/16/1998	12/16/1998	1573558.22	659550.17	1026.68		1026.68	17.20
GP01-028	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/16/1998	12/16/1998	1573491.67	659252.96	1026.33		1026.33	13.10
GP01-029	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/16/1998	12/16/1998	1573580.69	659250.32	1025.04		1025.04	14.50
GP01-030	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/16/1998	12/16/1998	1573651.92	659239.76	1025.36		1025.36	15.21
GP01-030 CONF	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/17/2004	8/17/2004	1573651.92	659239.76	1025.36		1025.36	16.00
GP01-031	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/17/1998	12/17/1998	1573721.04	659233.07	1025.88		1025.88	14.40
GP01-032	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/17/1998	12/17/1998	1573810.82	659232.01	1025.74		1025.74	15.50

The Payne Firm, Inc.

TABLE 4: Survey Information

Location ID	Location	Survey Point	Drilling Firm	Drilling Method	Start Date	Completion Date	Easting (X)	Northing (Y)	Surface Grade (feet msl)	Flush Grade (feet msl)	Measuring Point (feet msl)	Total Depth (feet bgs)
GP01-033	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/17/1998	12/17/1998	1573897.95	659297.34	1026.80		1026.80	17.90
GP01-034	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/18/1998	12/18/1998	1573904.59	659362.50	1026.06		1026.06	16.50
GP01-035	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/18/1998	12/18/1998	1573908.37	659443.06	1025.87		1025.87	17.20
GP01-036	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/18/1998	12/18/1998	1573932.07	659536.33	1024.28		1024.28	21.00
GP01-037	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/18/1998	12/18/1998	1573937.94	659612.41	1023.54		1023.54	20.40
GP01-038	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/18/1998	12/18/1998	1573949.61	659778.61	1022.87		1022.87	20.20
GP01-039	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/17/1998	12/17/1998	1573514.59	659402.29	1026.25		1026.25	14.20
GP01-040	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	12/17/1998	12/17/1998	1573607.57	659451.57	1025.70		1025.70	16.30
GP01-041	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/14/1999	4/14/1999	1573093.49	659617.27	1030.40		1030.40	8.00
GP01-042	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/14/1999	4/14/1999	1573174.05	659653.54	1029.40		1029.40	8.00
GP01-043	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/14/1999	4/14/1999	1573265.23	659679.42	1028.40		1028.40	8.00
GP01-044	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/14/1999	4/14/1999	1573129.84	659484.92	1031.70		1031.70	8.00
GP01-045	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/14/1999	4/14/1999	1573237.82	659488.72	1031.40		1031.40	8.00
GP01-046	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/14/1999	4/14/1999	1573126.49	659396.94	1031.30		1031.30	8.00
GP01-047	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/14/1999	4/14/1999	1573224.18	659369.74	1030.30		1030.30	8.00
GP01-048	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/12/1999	4/12/1999	1573620.02	659770.91	1025.80		1025.80	19.00
GP01-049	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/12/1999	4/12/1999	1573635.71	659676.73	1025.60		1025.60	17.50
GP01-050	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/12/1999	4/12/1999	1573659.93	659570.61	1025.80		1025.80	18.00
GP01-050 CONF	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	2/2/2004	2/2/2004	1573659.93	659570.61	1025.80		1025.80	19.00
GP01-051	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/12/1999	4/12/1999	1573608.71	659541.25	1026.00		1026.00	16.90
GP01-052	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/13/1999	4/13/1999	1573610.62	659468.34	1025.72		1025.72	16.60
GP01-052 CONF	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	2/2/2004	2/2/2004	1573610.62	659468.34	1025.72		1025.72	16.50
GP01-053	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/13/1999	4/13/1999	1573541.20	659448.74	1026.86		1026.86	15.50
GP01-054	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/13/1999	4/13/1999	1573496.99	659328.38	1025.90		1025.90	13.10
GP01-055	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/13/1999	4/13/1999	1573661.36	659277.77	1025.10		1025.10	14.50
GP01-055 CONF	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	2/2/2004	2/2/2004	1573661.36	659277.77	1025.10		1025.10	16.00
GP01-056	Vernay Plant 2/3 Facility	Geologic Boring	AST	DP	4/15/1999	4/15/1999	1573879.43	659325.32	1026.80		1026.80	14.70
GP01-056A	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/16/1999	4/16/1999	1573879.43	659325.32	1026.80		1026.80	19.60
GP01-057	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/15/1999	4/15/1999	1573879.81	659335.15	1026.70		1026.70	19.60
GP01-058	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/16/1999	4/16/1999	1573880.83	659347.23	1026.60		1026.60	18.20
GP01-059	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/14/1999	4/14/1999	1573917.96	659385.10	1025.70		1025.70	17.60
GP01-059 CONF	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	2/3/2004	2/3/2004	1573917.96	659385.10	1025.70		1025.70	18.00
GP01-060	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/14/1999	4/14/1999	1573913.03	659452.03	1025.10		1025.10	8.00
GP01-061	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/14/1999	4/14/1999	1573913.99	659462.09	1025.00		1025.00	8.00
GP01-062	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/14/1999	4/14/1999	1573914.55	659470.16	1025.30		1025.30	8.00
GP01-063	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/14/1999	4/14/1999	1573930.40	659519.48	1024.50		1024.50	12.70
GP01-064	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/25/1999	4/25/1999	1573825.80	659546.56	1028.90		1028.90	23.40
GP01-064 CONF	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	1/27/2004	1/27/2004	1573825.80	659546.56	1028.90		1028.90	8.00
GP01-065	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/25/1999	4/25/1999	1573819.79	659521.99	1028.90		1028.90	22.70
GP01-066	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/25/1999	4/25/1999	1573820.68	659537.27	1029.00		1029.00	6.20
GP01-067	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/24/1999	4/24/1999	1573780.70	659464.75	1028.90		1028.90	22.50
GP01-068	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/23/1999	4/23/1999	1573727.13	659564.96	1028.90		1028.90	23.00
GP01-068 CONF	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	1/27/2004	1/27/2004	1573727.13	659564.96	1028.90		1028.90	24.00
GP01-069	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/24/1999	4/24/1999	1573683.79	659466.21	1029.00		1029.00	3.00
GP01-070	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/24/1999	4/24/1999	1573682.39	659442.06	1028.80		1028.80	22.80
GP01-071	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/24/1999	4/24/1999	1573681.67	659428.46	1028.80		1028.80	20.00
GP01-072	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/24/1999	4/24/1999	1573674.06	659419.06	1028.90		1028.90	18.00
GP01-073	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/24/1999	4/24/1999	1573657.98	659318.86	1028.90		1028.90	20.20
GP01-074	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/24/1999	4/24/1999	1573799.28	659362.65	1028.90		1028.90	21.40
GP01-076	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/15/1999	4/15/1999	1573930.32	659261.81	1028.20		1028.20	8.00
GP01-077	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/15/1999	4/15/1999	1573934.23	659258.77	1028.20		1028.20	8.00
GP01-078	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/15/1999	4/15/1999	1573937.12	659261.93	1028.20		1028.20	8.00
GP01-079	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/13/1999	4/13/1999	1573616.05	659587.88	1025.93		1025.93	15.70
GP01-080	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	4/13/1999	4/13/1999	1573605.71	659408.09	1025.10		1025.10	14.40
GP01-080 CONF	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	1/29/2004	1/29/2004	1573605.71	659408.09	1025.10		1025.10	10.00
GP01-081	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	2/21/2000	2/21/2000	1573872.30	659307.71	1025.10		1025.10	16.50
GP01-082	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	2/21/2000	2/21/2000	1573868.47	659325.59	1026.84		1025.10	20.50
GP01-083	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	2/21/2000	2/21/2000	1573907.04	659310.52	1026.42		1026.42	19.50
GP01-084	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	2/21/2000	2/21/2000	1573878.79	659364.68	1026.60		1026.60	17.00
GP01-085	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	2/21/2000	2/21/2000	1573580.74	659567.04	1026.60		1026.60	3.00
GP01-086	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	2/21/2000	2/21/2000	1573579.39	659566.59	1026.60		1026.60	3.00
GP01-087	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	5/19/2000	5/19/2000	1573434.93	659690.68	1025.68		1025.68	16.50
GP01-088	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	5/19/2000	5/19/2000	1573492.33	659704.87	1025.77		1025.77	16.50
GP01-089	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	5/19/2000	5/19/2000	1573479.23	659666.51	1025.82		1025.82	15.50
GP01-090	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	5/19/2000	5/19/2000	1573846.88	659275.18	1026.94		1026.94	16.50
GP01-091	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	5/19/2000	5/19/2000	1573805.21	659280.25	1026.90		1026.90	17.00
GP01-091 CONF	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/24/2004	8/24/2004	1573805.21	659280.25	1026.90		1026.90	17.80
GP01-092	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	5/19/2000	5/19/2000	1573765.12	659258.70	1026.35		1026.35	16.00
GP01-093	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	5/19/2000	5/19/2000	1573587.09	659277.15	1025.05		1025.05	14.00
GP01-093 CONF	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/24/2004	8/24/2004	1573587.09	659277.15	1025.05		1025.05	14.80
GP01-094	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	5/20/2000	5/20/2000	1573699.20	659304.70	1029.00		1029.00	20.60
GP01-095	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	5/20/2000	5/20/2000	1573675.95	659381.08	1029.00		1029.00	18.50
GP01-096	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	5/21/2000	5/21/2000	1573762.71	659441.75	1028.90		1028.90	21.80
GP01-096 CONF	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/30/2004	8/30/2004	1573762.71	659441.75	1028.90		1028.90	22.20
GP01-097	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	5/21/2000	5/21/2000	1573687.67	659521.29	1029.00		1029.00	21.50

The Payne Firm, Inc.

TABLE 4: Survey Information

Location ID	Location	Survey Point	Drilling Firm	Drilling Method	Start Date	Completion Date	Easting (X)	Northing (Y)	Surface Grade (feet msl)	Flush Grade (feet msl)	Measuring Point (feet msl)	Total Depth (feet bgs)
GP01-098	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	5/21/2000	5/21/2000	1573788.91	659525.53	1028.90		1028.90	25.30
GP01-098 CONF	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/30/2004	8/30/2004	1573788.91	659525.53	1028.90		1028.90	23.80
GP01-099	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	5/21/2000	5/21/2000	1573694.90	659563.31	1028.90		1028.90	21.60
GP01-100	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	5/20/2000	5/20/2000	1573708.81	659618.87	1028.70		1028.70	17.00
GP01-100 CONF	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/30/2004	8/30/2004	1573708.81	659618.87	1028.70		1028.70	22.40
GP01-101	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	5/20/2000	5/20/2000	1573834.30	659496.21	1028.90		1028.90	18.00
GP01-101 CONF	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/30/2004	8/30/2004	1573834.30	659496.21	1028.90		1028.90	23.10
GP01-102	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	5/20/2000	5/20/2000	1573840.53	659516.44	1028.90		1028.90	18.50
GP01-103	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	5/20/2000	5/20/2000	1573886.80	659503.46	1028.90		1028.90	18.00
GP01-104	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	5/21/2000	5/21/2000	1573582.60	659532.55	1028.90		1028.90	18.40
GP01-105	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	5/22/2000	5/22/2000	1573670.78	659632.92	1026.29		1026.29	17.50
GP01-105 CONF	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/24/2004	8/24/2004	1573670.78	659632.92	1026.29		1026.29	17.70
GP01-106	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	5/22/2000	5/22/2000	1573670.00	659727.00	1027.42		1027.42	14.00
GP01-107	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	5/22/2000	5/22/2000	1573807.30	659835.05	1024.55		1024.55	16.50
GP01-108	Vernay Plant 2/3 Facility	Geoprobe	AST	DP	5/22/2000	5/22/2000	1573932.83	659926.62	1023.11		1023.11	14.20
GP01-108 CONF	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/23/2004	8/23/2004	1573932.83	659926.62	1023.11		1023.11	21.60
GP01-109	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/5/2003	8/5/2003	1573912.39	659389.24	1025.50		1025.50	10.00
GP01-110	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/5/2003	8/5/2003	1573927.00	659514.74	1024.60		1024.60	10.00
GP01-111	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	11/12/2003	11/12/2003	1573942.91	659939.99	1023.50		1023.50	20.00
GP01-112	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	11/12/2003	11/13/2003	1573266.92	659717.15	1027.70		1027.70	17.00
GP01-113	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	11/13/2003	11/14/2003	1573286.64	659686.74	1028.30		1028.30	18.00
GP01-114	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	11/13/2003	11/13/2003	1573319.24	659683.63	1027.70		1027.70	17.00
GP01-115	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	11/14/2003	11/14/2003	1573534.60	659449.43	1027.60		1027.60	16.50
GP01-116	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	11/13/2003	11/14/2003	1573616.69	659491.07	1025.90		1025.90	16.00
GP01-117	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	11/13/2003	11/14/2003	1573698.61	659269.71	1025.90		1025.90	15.00
GP01-118	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	11/14/2003	11/14/2003	1573196.39	659367.71	1030.60		1030.60	16.00
GP01-119	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	11/14/2003	11/14/2003	1573188.37	659497.93	1031.50		1031.50	20.00
GP01-120	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	11/14/2003	11/14/2003	1573181.34	659626.59	1030.00		1030.00	19.00
GP01-121	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	11/14/2003	11/14/2003	1573866.78	659405.55	1028.60		1028.60	20.00
GP01-122	Vernay Plant 2/3 Facility	Geoprobe	DPA	DP	11/21/2003	11/21/2003	1573873.52	659498.81	1028.80		1028.80	21.50
GP01-123	Vernay Plant 2/3 Facility	Geoprobe	DPA	DP	11/21/2003	11/21/2003	1573708.55	659467.75	1028.90		1028.90	23.00
GP01-124	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	2/4/2004	2/4/2004	1573854.64	659898.92	1023.71		1023.71	20.00
GP01-125	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	2/4/2004	2/4/2004	1573799.81	659854.91	1024.00		1024.00	20.00
GP01-126	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	1/21/2004	1/21/2004	1573821.32	659814.35	1025.44		1025.44	22.50
GP01-127	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	2/3/2004	2/3/2004	1573656.57	659740.84	1026.78		1026.78	18.00
GP01-128	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	2/2/2004	2/2/2004	1573633.80	659576.45	1025.83		1025.83	18.00
GP01-129	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	1/21/2004	1/21/2004	1573464.72	659391.56	1026.38		1026.38	14.00
GP01-130	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	1/21/2004	1/21/2004	1573504.91	659369.32	1025.78		1025.78	14.00
GP01-131	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	2/11/2004	2/11/2004	1573656.31	659274.17	1025.07		1025.07	14.00
GP01-132	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	2/3/2004	2/3/2004	1573928.46	659383.49	1026.22		1026.22	16.50
GP01-133	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	2/3/2004	2/3/2004	1573905.25	659398.50	1026.37		1026.37	6.00
GP01-134	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	2/3/2004	2/3/2004	1573925.33	659436.07	1025.38		1025.38	17.50
GP01-135	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	2/3/2004	2/3/2004	1573905.83	659444.27	1025.97		1025.97	6.00
GP01-136	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	1/21/2004	1/21/2004	1573071.13	659658.62	1029.71		1029.71	4.00
GP01-137	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	1/22/2004	1/22/2004	1573176.69	659709.16	1028.04		1028.04	18.00
GP01-138	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	1/27/2004	1/27/2004	1573844.07	659547.92	1028.85		1028.85	8.00
GP01-139	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	1/27/2004	1/27/2004	1573823.51	659580.99	1028.86		1028.86	24.00
GP01-140	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	1/27/2004	1/27/2004	1573796.87	659537.14	1028.76		1028.76	8.00
GP01-141	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	1/27/2004	1/27/2004	1573713.66	659564.47	1028.88		1028.88	24.00
GP01-142	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	1/28/2004	1/28/2004	1573742.41	659562.51	1028.85		1028.85	23.00
GP01-143	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	1/28/2004	1/28/2004	1573733.06	659549.89	1028.85		1028.85	28.00
GP01-144	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	2/6/2004	2/6/2004	1573695.88	659459.37	1028.94		1028.94	23.00
GP01-145	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	1/28/2004	1/28/2004	1573712.81	659441.34	1028.90		1028.90	23.00
GP01-146	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	2/4/2004	2/4/2004	1573159.20	659301.65	1028.57		1028.57	12.00
GP01-147	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	2/4/2004	2/4/2004	1573243.43	659296.86	1027.91		1027.91	14.25
GP01-148	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	2/5/2004	2/5/2004	1573339.96	659423.65	1027.55		1027.55	8.00
GP01-149	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	2/4/2004	2/4/2004	1573345.66	659594.62	1027.68		1027.68	16.00
GP01-150	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	2/11/2004	2/11/2004	1573699.73	659238.50	1026.01		1026.01	15.00
GP01-151	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/16/2004	8/16/2004	1573928.80	659561.69	1024.40		1024.40	20.90
GP01-152	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/17/2004	8/17/2004	1573620.71	659243.58	1024.80		1024.80	16.00
GP01-153	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/17/2004	8/17/2004	1573334.90	659553.92	1027.60		1027.60	13.00
GP01-154	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/17/2004	8/17/2004	1573374.63	659564.74	1027.10		1027.10	17.50
GP01-155	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/17/2004	8/17/2004	1573354.92	659630.59	1027.50		1027.50	16.00
GP01-156	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/17/2004	8/17/2004	1573293.87	659711.30	1027.40		1027.40	17.50
GP01-157	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/17/2004	8/17/2004	1573688.07	659747.78	1027.20		1027.20	19.00
GP01-158	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/17/2004	8/17/2004	1573721.04	659787.03	1026.30		1026.30	20.00
GP01-159	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/23/2004	8/23/2004	1573782.11	659753.75	1027.00		1027.00	23.40
GP01-160	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/23/2004	8/23/2004	1573878.82	659784.37	1024.80		1024.80	22.60
GP01-161	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/23/2004	8/23/2004	1573870.04	659868.37	1023.40		1023.40	21.20
GP01-162	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/23/2004	8/23/2004	1573929.88	659879.01	1022.30		1022.30	20.90
GP01-163	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/23/2004	8/23/2004	1573953.01	659928.48	1023.10		1023.10	22.90
GP01-164	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/23/2004	8/23/2004	1573483.05	659557.74	1026.20		1026.20	16.60
GP01-165	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/24/2004	8/24/2004	1573756.66	659254.33	1026.30		1026.30	15.60
GP01-166	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/30/2004	8/30/2004	1573716.51	659342.27	1028.90		1028.90	21.20
GP01-167	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/24/2004	8/24/2004	1573327.69	659366.73	1027.20		1027.20	8.00

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TABLE 4: Survey Information

Location ID	Location	Survey Point	Drilling Firm	Drilling Method	Start Date	Completion Date	Easting (X)	Northing (Y)	Surface Grade (feet msl)	Flush Grade (feet msl)	Measuring Point (feet msl)	Total Depth (feet bgs)
GP01-168	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/24/2004	8/24/2004	1573905.75	659254.00	1027.40		1027.40	16.50
GP01-169	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/24/2004	8/24/2004	1573285.43	659743.79	1027.10		1027.10	17.00
GP01-170	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/24/2004	8/24/2004	1573016.53	659651.87	1029.60		1029.60	16.00
GP01-171	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/27/2004	8/27/2004	1573318.95	659612.07	1028.70		1028.70	18.00
GP01-172	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/24/2004	8/24/2004	1573357.23	659721.35	1026.60		1026.60	18.00
GP01-173	Vernay Plant 2/3 Facility	Geoprobe	EC	DP	8/27/2004	8/27/2004	1573720.26	659823.58	1026.20		1026.20	20.00
GP02-001	Omar Circle	Geoprobe	AST	DP	12/21/1998	12/21/1998	1573375.65	659124.95	1025.23		1025.23	11.00
GP02-002	Omar Circle	Geoprobe	AST	DP	12/21/1998	12/21/1998	1573572.00	659105.08	1025.29		1025.29	13.70
GP02-003	Omar Circle	Geoprobe	AST	DP	12/21/1998	12/21/1998	1573690.77	659096.77	1026.05		1026.05	15.00
GP02-004	Omar Circle	Geoprobe	AST	DP	12/21/1998	12/21/1998	1573831.75	659086.66	1027.99		1027.99	15.70
GP02-005	Omar Circle	Geoprobe	AST	DP	12/21/1998	12/21/1998	1573915.60	659080.99	1029.65		1029.65	21.50
GP02-006	Omar Circle	Geoprobe	AST	DP	12/21/1998	12/21/1998	1574014.49	659074.72	1031.27		1031.27	20.80
GP02-007	Omar Circle	Geoprobe	AST	DP	12/22/1998	12/22/1998	1574125.44	659066.56	1032.78		1032.78	21.50
GP02-008	Omar Circle	Geoprobe	AST	DP	12/22/1998	12/22/1998	1574205.26	659060.78	1032.52		1032.52	21.50
GP02-009	Omar Circle	Geoprobe	AST	DP	12/21/1998	12/21/1998	1574273.02	659066.93	1032.08		1032.08	22.00
GP02-010	Wright Street	Geoprobe	AST	DP	3/1/1999	3/1/1999	1574776.30	658693.89	1028.14		1028.14	16.00
GP02-011	Wright Street	Geoprobe	AST	DP	3/1/1999	3/1/1999	1574790.35	658853.03	1027.01		1027.01	14.70
GP02-012	Wright Street	Geoprobe	AST	DP	3/1/1999	3/1/1999	1574806.07	658992.87	1026.29		1026.29	14.60
GP02-013	Wright Street	Geoprobe	AST	DP	3/1/1999	3/1/1999	1574813.90	659117.12	1026.22		1026.22	15.50
GP02-014	Wright Street	Geoprobe	AST	DP	3/1/1999	3/1/1999	1574825.57	659290.26	1025.98		1025.98	16.60
GP02-015	Wright Street	Geoprobe	AST	DP	3/1/1999	3/1/1999	1574842.38	659461.33	1023.78		1023.78	16.00
GP02-016	Wright Street	Geoprobe	AST	DP	3/2/1999	3/2/1999	1574850.88	659572.86	1022.16		1022.16	14.30
GP02-017	Wright Street	Geoprobe	AST	DP	3/2/1999	3/2/1999	1574856.67	659738.43	1020.17		1020.17	13.50
GP02-018	Wright Street	Geoprobe	AST	DP	3/2/1999	3/2/1999	1574872.51	659913.80	1018.93		1018.93	13.00
GP02-019	Wright Street	Geoprobe	AST	DP	3/2/1999	3/2/1999	1574885.11	660056.81	1018.77		1018.77	14.40
GP02-020	Green Street	Geoprobe	EC	DP	7/29/2003	7/29/2003	1575403.08	659465.40	1020.50		1020.50	13.00
GP02-021	Green Street	Geoprobe	EC	DP	7/29/2003	7/29/2003	1575413.55	659645.66	1018.20		1018.20	13.00
GP02-022	Green Street	Geoprobe	EC	DP	7/29/2003	7/29/2003	1575425.58	659768.39	1017.73		1017.73	11.00
GP02-023	Suncrest Drive	Geoprobe	EC	DP	7/29/2003	7/29/2003	1575325.04	659775.70	1017.61		1017.61	11.30
GP02-024	Suncrest Drive	Geoprobe	EC	DP	7/29/2003	7/29/2003	1575206.17	659784.44	1018.38		1018.38	11.00
GP02-025	Suncrest Drive	Geoprobe	EC	DP	7/29/2003	7/29/2003	1575103.09	659790.12	1019.19		1019.19	12.70
GP02-026	Suncrest Drive	Geoprobe	EC	DP	7/29/2003	7/29/2003	1574992.40	659803.79	1019.14		1019.14	13.80
GP02-027	Wright Street	Geoprobe	EC	DP	7/29/2003	7/29/2003	1574866.33	659812.93	1019.80		1019.80	14.80
GP02-028	Wright Street	Geoprobe	EC	DP	7/29/2003	7/29/2003	1574856.54	659672.19	1020.90		1020.90	13.60
GP02-029	Wright Street	Geoprobe	EC	DP	7/30/2003	7/30/2003	1574836.53	659407.86	1024.70		1024.70	16.40
GP02-030	WN College Street	Geoprobe	EC	DP	7/30/2003	7/30/2003	1575380.05	659123.75	1022.62		1022.62	12.00
GP02-031	WN College Street	Geoprobe	EC	DP	7/31/2003	7/31/2003	1575380.10	659249.05	1022.06		1022.06	11.00
GP02-032	825 Dayton Street	Geoprobe	EC	DP	7/30/2003	7/30/2003	1574114.20	659257.02	1032.37		1032.37	25.20
GP02-032A	825 Dayton Street	Geoprobe	EC	DP	2/5/2004	2/5/2004	1574114.20	659257.02	1032.37		1032.37	22.50
GP02-033	825 Dayton Street	Geoprobe	EC	DP	7/30/2003	7/30/2003	1574118.74	659372.18	1028.85		1028.85	24.00
GP02-033A	825 Dayton Street	Geoprobe	EC	DP	2/5/2004	2/5/2004	1574118.74	659372.18	1028.85		1028.85	22.50
GP02-034	825 Dayton Street	Geoprobe	EC	DP	7/30/2003	7/30/2003	1574122.49	659479.83	1025.69		1025.69	23.30
GP02-034A	825 Dayton Street	Geoprobe	EC	DP	2/5/2004	2/5/2004	1574122.49	659479.83	1025.69		1025.69	19.00
GP02-035	825 Dayton Street	Geoprobe	EC	DP	7/30/2003	7/30/2003	1574173.50	659615.18	1025.02		1025.02	19.80
GP02-035A	825 Dayton Street	Geoprobe	EC	DP	2/5/2004	2/5/2004	1574173.50	659615.18	1025.02		1025.02	20.50
GP02-036	825 Dayton Street	Geoprobe	EC	DP	7/30/2003	7/30/2003	1574140.46	659720.06	1025.07		1025.07	21.00
GP02-037	825 Dayton Street	Geoprobe	EC	DP	7/30/2003	7/30/2003	1574345.07	659825.74	1025.44		1025.44	22.00
GP02-038	825 Dayton Street	Geoprobe	EC	DP	7/30/2003	7/30/2003	1574348.09	659685.06	1024.90		1024.90	19.50
GP02-039	825 Dayton Street	Geoprobe	EC	DP	7/31/2003	7/31/2003	1574420.46	659544.18	1023.80		1023.80	18.20
GP02-040	825 Dayton Street	Geoprobe	EC	DP	7/31/2003	7/31/2003	1574418.43	659423.02	1025.16		1025.16	17.30
GP02-041	825 Dayton Street	Geoprobe	EC	DP	7/31/2003	7/31/2003	1574413.66	659281.17	1028.99		1028.99	19.00
GP02-042	Dayton Street	Geoprobe	EC	DP	8/1/2003	8/1/2003	1574973.20	660283.14	1016.60		1016.60	8.00
GP02-043	Dayton Street	Geoprobe	EC	DP	8/1/2003	8/1/2003	1574821.60	660235.09	1017.28		1017.28	10.00
GP02-044	Dayton Street	Geoprobe	EC	DP	8/1/2003	8/1/2003	1574680.68	660186.58	1018.57		1018.57	10.00
GP02-045	Dayton Street	Geoprobe	EC	DP	8/1/2003	8/1/2003	1574524.35	660138.19	1020.22		1020.22	10.00
GP02-046	Dayton Street	Geoprobe	EC	DP	8/1/2003	8/1/2003	1574382.03	660094.43	1021.99		1021.99	10.00
GP02-047	Dayton Street	Geoprobe	EC	DP	8/1/2003	8/1/2003	1574261.23	660057.26	1021.52		1021.52	10.00
GP02-048	Dayton Street	Geoprobe	EC	DP	8/5/2003	8/5/2003	1574103.72	660008.67	1022.48		1022.48	10.00
GP02-049	Dayton Street	Geoprobe	EC	DP	8/5/2003	8/5/2003	1573954.38	659958.27	1023.27		1023.27	10.00
GP02-050	Dayton Street	Geoprobe	EC	DP	8/5/2003	8/5/2003	1573984.27	659978.26	1022.54		1022.54	10.00
GP02-051	Dayton Street	Geoprobe	EC	DP	8/5/2003	8/5/2003	1573797.02	659920.82	1023.70		1023.70	10.00
GP02-052	Dayton Street	Geoprobe	EC	DP	8/5/2003	8/5/2003	1573627.89	659868.59	1024.38		1024.38	10.00
GP02-053	Dayton Street	Geoprobe	BM	DP	8/29/2003	8/29/2003	1574102.35	660010.47	1022.39		1022.39	17.00
GP02-054	Dayton Street	Geoprobe	BM	DP	8/29/2003	8/29/2003	1573950.18	659963.63	1023.27		1023.27	16.00
GP02-055	Omar Circle	Geoprobe	EC	DP	11/5/2003	11/5/2003	1574298.90	658734.69	1032.70		1032.70	20.00
GP02-056	1 Lawson Place	Geoprobe	EC	DP	11/5/2003	11/5/2003	1575659.52	659637.50	1019.00		1019.00	12.75
GP02-057	1 Lawson Place	Geoprobe	EC	DP	11/5/2003	11/5/2003	1575688.25	659752.09	1018.90		1018.90	13.50
GP02-058	Green Street	Geoprobe	EC	DP	11/5/2003	11/5/2003	1575459.29	659936.33	1017.00		1017.00	13.00
GP02-059	Green Street	Geoprobe	EC	DP	11/5/2003	11/5/2003	1575448.55	660100.88	1016.70		1016.70	13.00
GP02-060	Limestone Street	Geoprobe	EC	DP	11/6/2003	11/6/2003	1575463.26	660261.84	1016.40		1016.40	13.50
GP02-061	Limestone Street	Geoprobe	EC	DP	11/6/2003	11/6/2003	1575248.12	660278.23	1016.60		1016.60	14.00
GP02-062	Limestone Street	Geoprobe	EC	DP	11/6/2003	11/6/2003	1575092.84	660305.92	1016.40		1016.40	14.00
GP02-063	Dayton Street	Geoprobe	EC	DP	11/6/2003	11/6/2003	1574622.99	660215.70	1019.40		1019.40	17.00
GP02-064	Dayton Street	Geoprobe	EC	DP	11/6/2003	11/6/2003	1574482.41	660172.09	1020.60		1020.60	20.00
GP02-065	Dayton Street	Geoprobe	EC	DP	11/7/2003	11/7/2003	1574229.41	660095.37	1022.10		1022.10	21.00

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TABLE 4: Survey Information

Location ID	Location	Survey Point	Drilling Firm	Drilling Method	Start Date	Completion Date	Easting (X)	Northing (Y)	Surface Grade (feet msl)	Flush Grade (feet msl)	Measuring Point (feet msl)	Total Depth (feet bgs)
GP02-066	825 Dayton Street	Geoprobe	EC	DP	11/7/2003	11/7/2003	1574295.75	659928.30	1026.20		1026.20	24.00
GP02-067	Dayton Street	Geoprobe	EC	DP	11/10/2003	11/10/2003	1574059.30	660042.80	1023.00		1023.00	24.00
GP02-068	Dayton Street	Geoprobe	EC	DP	11/10/2003	11/10/2003	1573890.81	659991.40	1023.80		1023.80	22.00
GP02-069	Dayton Street	Geoprobe	EC	DP	11/10/2003	11/10/2003	1573690.12	659929.29	1024.90		1024.90	23.50
GP02-070	Dayton Street	Geoprobe	EC	DP	11/11/2003	11/11/2003	1574378.98	660102.65	1020.90		1020.90	21.50
GP02-071	Dayton Street	Geoprobe	EC	DP	11/11/2003	11/11/2003	1574303.99	660081.22	1021.30		1021.30	21.00
GP02-072	Dayton Street	Geoprobe	EC	DP	11/11/2003	11/11/2003	1574179.45	660041.59	1021.90		1021.90	20.00
GP02-073	Dayton Street	Geoprobe	EC	DP	11/11/2003	11/11/2003	1573979.37	660018.51	1023.20		1023.20	24.50
GP02-074	Dayton Street	Geoprobe	EC	DP	11/12/2003	11/12/2003	1573794.15	659927.23	1023.80		1023.80	21.00
GP02-075	Dayton Street	Geoprobe	EC	DP	11/12/2003	11/12/2003	1573630.57	659874.50	1024.70		1024.70	18.00
GP02-076	Dayton Street	Geoprobe	EC	DP	11/12/2003	11/12/2003	1573519.17	659841.00	1025.30		1025.30	17.00
GP02-077	Dayton Street	Geoprobe	EC	DP	11/12/2003	11/12/2003	1573249.59	659741.69	1027.20		1027.20	17.00
GP02-078	Omar Circle	Geoprobe	EC	DP	11/25/2003	11/25/2003	1574297.16	658886.85	1031.50		1031.50	20.00
GP02-079	Omar Circle	Geoprobe	EC	DP	11/25/2003	11/25/2003	1574172.08	658774.04	1032.50		1032.50	20.50
GP02-080	WS College Street	Geoprobe	EC	DP	11/21/2003	11/25/2003	1574467.52	658438.81	1029.80		1029.80	17.00
GP02-081	WS College Street	Geoprobe	EC	DP	11/21/2003	11/21/2003	1574561.48	658432.63	1030.70		1030.70	18.00
GP02-082	WS College Street	Geoprobe	EC	DP	11/21/2003	11/21/2003	1574721.80	658421.56	1032.60		1032.60	18.00
GP02-083	Wright Street	Geoprobe	EC	DP	11/25/2003	11/25/2003	1574764.18	658555.92	1030.70		1030.70	17.00
GP02-084	Dayton Street	Geoprobe	EC	DP	1/22/2004	1/22/2004	1573481.37	659865.19	1025.81		1025.81	18.00
GP02-085	Dayton Street	Geoprobe	EC	DP	1/22/2004	1/22/2004	1573355.46	659826.42	1026.50		1026.50	18.00
GP02-086	Dayton Street	Geoprobe	EC	DP	1/22/2004	1/22/2004	1573186.08	659775.17	1027.46		1027.46	17.00
GP02-087	Dayton Street	Geoprobe	EC	DP	1/22/2004	1/22/2004	1573015.78	659722.16	1029.25		1029.25	17.00
GP02-088	825 Dayton Street	Geoprobe	EC	DP	1/26/2004	1/26/2004	1574132.18	659953.07	1024.80		1024.80	26.00
GP02-089	825 Dayton Street	Geoprobe	EC	DP	1/26/2004	1/26/2004	1574126.24	659832.77	1025.10		1025.10	24.00
GP02-090	825 Dayton Street	Geoprobe	EC	DP	1/26/2004	1/26/2004	1574126.22	659773.23	1024.97		1024.97	24.00
GP02-091	825 Dayton Street	Geoprobe	EC	DP	1/23/2004	1/23/2004	1574319.49	660005.57	1023.84		1023.84	21.00
GP02-092	825 Dayton Street	Geoprobe	EC	DP	1/23/2004	1/23/2004	1574333.26	659971.26	1025.07		1025.07	22.00
GP02-093	825 Dayton Street	Geoprobe	EC	DP	1/23/2004	1/23/2004	1574359.36	659881.66	1025.42		1025.42	22.00
GP02-094	Omar Circle	Geoprobe	EC	DP	2/11/2004	2/11/2004	1574047.20	658782.21	1033.29		1033.29	21.00
GP02-095	Omar Circle	Geoprobe	EC	DP	2/11/2004	2/11/2004	1573907.75	658791.58	1033.78		1033.78	22.00
GP02-096	825 Dayton Street	Geoprobe	EC	DP	8/16/2004	8/16/2004	1573990.88	659552.78	1024.10		1024.10	20.75
GP02-097	825 Dayton Street	Geoprobe	EC	DP	8/16/2004	8/16/2004	1573986.64	659476.66	1024.90		1024.90	24.20
GP02-098	825 Dayton Street	Geoprobe	EC	DP	8/16/2004	8/16/2004	1573976.06	659388.05	1026.20		1026.20	19.80
GP02-099	Dayton Street	Geoprobe	EC	DP	8/26/2004	8/26/2004	1574180.36	660033.39	1022.10		1022.10	23.60
GP02-100	Dayton Street	Geoprobe	EC	DP	8/26/2004	8/26/2004	1574102.33	659998.53	1022.80		1022.80	24.00
GP02-101	Dayton Street	Geoprobe	EC	DP	8/26/2004	8/26/2004	1574065.52	659997.39	1022.70		1022.70	23.10
GP02-102	Dayton Street	Geoprobe	EC	DP	8/26/2004	8/26/2004	1574093.46	660017.35	1022.30		1022.30	23.90
GP02-103	Dayton Street	Geoprobe	EC	DP	8/26/2004	8/26/2004	1573971.45	659969.74	1023.00		1023.00	22.00
GP02-104	Dayton Street	Geoprobe	EC	DP	8/27/2004	8/27/2004	1573928.16	659959.05	1022.90		1022.90	24.00
GP02-105	Dayton Street	Geoprobe	EC	DP	8/26/2004	8/26/2004	1573946.16	659971.80	1022.90		1022.90	22.50
GP02-106	825 Dayton Street	Geoprobe	EC	DP	8/16/2004	8/16/2004	1574018.22	659266.65	1031.10		1031.10	24.00
MW01-01	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Monitoring Well	BM	HSA	11/2/1998	11/2/1998	1573585.54	659816.84	1025.24	1025.25	1024.97	20.00
MW01-02	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Monitoring Well	BM	HSA	10/30/1998	10/30/1998	1573332.98	659681.44	1027.13	1027.25	1026.95	18.50
MW01-02CD	Vernay Plant 2/3 Facility	Middle Cedarville Aquifer Monitoring Well	BM	HSA/AR	4/23/1999	4/26/1999	1573333.17	659672.35	1027.23	1027.31	1027.07	59.00
MW01-02SE	Vernay Plant 2/3 Facility	Lower Cedarville Aquifer Monitoring Well	BM	HSA/AR	4/20/1999	4/26/1999	1573199.63	659663.91	1029.25	1029.28	1029.09	125.00
MW01-03	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Monitoring Well	BM	HSA	10/27/1998	10/27/1998	1573530.22	659251.03	1025.81	1025.80	1025.41	16.00
MW01-03CD	Vernay Plant 2/3 Facility	Middle Cedarville Aquifer Monitoring Well	BM	HSA/AR	4/27/1999	4/29/1999	1573520.79	659255.35	1025.70	1025.69	1025.33	54.00
MW01-04	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Monitoring Well	BM	HSA	10/28/1998	10/28/1998	1573901.97	659268.68	1027.26	1027.26	1026.98	23.50
MW01-04CD	Vernay Plant 2/3 Facility	Middle Cedarville Aquifer Monitoring Well	BM	HSA/AR	4/28/1999	4/29/1999	1573897.44	659258.07	1027.30	1027.33	1027.04	54.00
MW01-04SE	Vernay Plant 2/3 Facility	Lower Cedarville Aquifer Monitoring Well	BM	RS	2/15/2004	2/19/2004	1573887.97	659269.89	1026.95	1026.99	1026.64	101.00
MW01-05	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Monitoring Well	BM	HSA	11/2/1998	11/2/1998	1573925.45	659684.42	1026.74	1026.74	1026.52	25.00
MW01-05CD	Vernay Plant 2/3 Facility	Middle Cedarville Aquifer Monitoring Well	BM	HSA/AR	5/3/1999	5/4/1999	1573925.66	659751.87	1023.60	1023.68	1023.40	60.90
MW01-06	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Monitoring Well	BM	HSA	11/3/1998	11/3/1998	1573545.57	659442.63	1026.33	1026.35	1026.04	18.20
MW01-07	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Monitoring Well	BM	HSA	1/19/1999	1/19/1999	1573055.88	659624.09	1030.50	1030.59	1030.07	20.00

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MW01-08	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Monitoring Well	BM	HSA	1/19/1999	1/19/1999	1573068.52	659382.90	1031.50	1031.53	1031.27	19.00
MW01-09	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Monitoring Well	BM	HSA	1/20/1999	1/20/1999	1573929.47	659836.73	1022.50	1022.51	1022.25	22.00
MW01-10	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Monitoring Well	BM	HSA	3/18/1999	3/18/1999	1573889.86	659463.59	1026.44	1026.37	1025.69	22.00
MW01-11	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Monitoring Well	BM	HSA	1/29/1999	1/29/1999	1573618.17	659503.28	1025.90	1025.88	1025.57	17.50
MW01-12	Vernay Plant 2/3 Facility	Sanitary Sewer Backfill Monitoring Well	BM	HSA	10/5/1999	10/5/1999	1573630.51	659849.72	1025.27	1025.25	1024.76	8.00
MW01-13	Vernay Plant 2/3 Facility	Storm Sewer Backfill Monitoring Well	BM	HSA	10/5/1999	10/5/1999	1573955.00	659946.33	1023.35	1023.40	1022.96	12.00
MW01-14	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Monitoring Well	BM	HSA	2/18/2000	2/18/2000	1573906.56	659334.31	1026.25	1025.69	1025.70	20.00
MW02-01	Omar Cirlce	Upper Cedarville Aquifer Monitoring Well	BM	HSA	3/10/1999	3/10/1999	1573572.00	659101.05	1025.37	1025.37	1024.95	16.00
MW02-02	Omar Cirlce	Upper Cedarville Aquifer Monitoring Well	BM	HSA	3/10/1999	3/10/1999	1573915.49	659077.11	1029.69	1029.69	1029.37	21.50
MW02-03	Omar Cirlce	Upper Cedarville Aquifer Monitoring Well	BM	HSA	3/11/1999	3/11/1999	1574273.15	659067.16	1032.04	1032.10	1031.76	22.00
MW02-03CD	Omar Cirlce	Middle Cedarville Aquifer Monitoring Well	BM	RS	1/28/2004	1/29/2004	1574268.14	659063.73	1032.14	1032.15	1031.80	69.50
MW02-03SE	Omar Cirlce	Lower Cedarville Aquifer Monitoring Well	BM	RS	8/21/2003	8/25/2003	1574278.03	659070.43	1032.12	1032.12	1031.75	115.00
MW02-04	Wright Street	Upper Cedarville Aquifer Monitoring Well	BM	HSA	3/17/1999	3/17/1999	1574806.07	658992.87	1026.29	1026.29	1025.95	16.00
MW02-04CD	Wright Street	Middle Cedarville Aquifer Monitoring Well	BM	RS	2/19/2004	2/20/2004	1574776.07	658806.13	1027.35	1027.36	1027.01	60.00
MW02-05	Wright Street	Upper Cedarville Aquifer Monitoring Well	BM	HSA	3/17/1999	3/17/1999	1574829.06	659289.69	1026.05	1026.06	1025.76	18.50
MW02-05CD	Wright Street	Middle Cedarville Aquifer Monitoring Well	BM	RS	2/13/2004	2/16/2004	1574818.96	659287.48	1025.91	1025.86	1025.43	58.50
MW02-06	Wright Street	Upper Cedarville Aquifer Monitoring Well	BM	HSA	3/16/1999	3/16/1999	1574850.88	659572.86	1022.16	1022.16	1021.89	15.50
MW02-06CD	Wright Street	Middle Cedarville Aquifer Monitoring Well	BM	RS	1/26/2004	1/28/2004	1574841.40	659578.29	1021.86	1021.87	1021.61	100.00
MW02-07	Wright Street	Upper Cedarville Aquifer Monitoring Well	BM	HSA	3/16/1999	3/16/1999	1574881.44	659913.03	1019.10	1019.12	1018.82	14.20
MW02-08	825 Dayton Street	Upper Cedarville Aquifer Monitoring Well	BM	RS	8/28/2003	8/28/2003	1574402.39	659398.85	1025.80	1028.59	1028.54	25.00
MW02-08CD	825 Dayton Street	Middle Cedarville Aquifer Monitoring Well	BM	RS	8/28/2003	8/28/2003	1574406.69	659410.34	1025.42	1028.09	1028.17	63.50
MW02-08SE	825 Dayton Street	Lower Cedarville Aquifer Monitoring Well	BM	RS	8/26/2003	8/27/2003	1574413.01	659400.06	1025.61	1028.51	1028.46	110.00
MW02-09	Suncrest Drive	Upper Cedarville Aquifer Monitoring Well	BM	RS	9/2/2003	9/2/2003	1575052.49	659803.02	1019.10	1019.10	1018.77	22.00
MW02-10	Green Street	Upper Cedarville Aquifer Monitoring Well	BM	RS	9/2/2003	9/2/2003	1575413.32	659647.28	1018.14	1018.13	1017.80	22.00
MW02-10CD	Green Street	Middle Cedarville Aquifer Monitoring Well	BM	RS	2/11/2004	2/12/2004	1575412.19	659635.97	1018.29	1018.35	1018.10	54.00
MW02-11	825 Dayton Street	Upper Cedarville Aquifer Monitoring Well	BM	RS	9/5/2003	9/5/2003	1574251.91	659711.63	1025.70	1027.89	1027.84	28.00
MW02-11SE	825 Dayton Street	Lower Cedarville Aquifer Monitoring Well	BM	RS	9/4/2003	9/5/2003	1574258.32	659709.88	1025.50	1027.72	1027.67	110.00
MW02-12	Dayton Street	Storm Sewer Backfill Monitoring Well	BM	HSA	9/11/2003	9/11/2003	1574524.35	660138.19	1020.22	1020.22	1019.89	10.00
MW02-13	Omar Cirlce	Upper Cedarville Aquifer Monitoring Well	BM	RS	1/30/2004	1/30/2004	1574299.35	658737.28	1032.70	1032.72	1032.34	30.00

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MW02-14	WS College Street	Upper Cedarville Aquifer Monitoring Well	BM	RS	2/4/2004	2/4/2004	1574410.26	658442.67	1029.41	1029.41	1029.13	24.00
MW02-14CD	WS College Street	Middle Cedarville Aquifer Monitoring Well	BM	RS	2/2/2004	2/4/2004	1574415.75	658442.24	1029.46	1029.46	1029.08	110.00
MW02-15	Green Street	Upper Cedarville Aquifer Monitoring Well	BM	RS	2/5/2004	2/5/2004	1575453.08	659985.80	1016.90	1016.91	1016.58	22.00
MW02-15CD	Green Street	Middle Cedarville Aquifer Monitoring Well	BM	RS	2/9/2004	2/11/2004	1575454.52	659997.01	1016.77	1016.79	1016.25	90.00
MW02-16	WN College Street	Upper Cedarville Aquifer Monitoring Well	BM	RS	2/18/2004	2/18/2004	1575381.72	659241.43	1022.22	1022.22	1021.97	18.00
MW02-16CD	WN College Street	Middle Cedarville Aquifer Monitoring Well	BM	RS	2/16/2004	2/18/2004	1575382.33	659253.29	1021.93	1022.00	1021.77	100.00
MW02-17	825 Dayton Street	Upper Cedarville Aquifer Monitoring Well	BM	RS	2/24/2004	2/24/2004	1574291.65	659932.56	1026.12	1026.14	1025.74	34.00
MW02-17CD	825 Dayton Street	Middle Cedarville Aquifer Monitoring Well	BM	RS	2/23/2004	2/24/2004	1574299.59	659930.77	1026.35	1026.30	1025.89	69.50
MW02-18	Omar Cirlce	Upper Cedarville Aquifer Monitoring Well	BM	RS	2/26/2004	2/26/2004	1573925.76	658789.07	1033.73	1033.78	1033.50	28.50
MW02-18CD	Omar Cirlce	Middle Cedarville Aquifer Monitoring Well	BM	RS	2/25/2004	2/26/2004	1573939.13	658788.13	1033.60	1033.77	1033.42	110.00
MW02-759 Dayton Street	759 Dayton Street	Upper Cedarville Aquifer Monitoring Well					1574492.28	659660.46	1023.50		1023.20	
MW02-860 Dayton Street	860 Dayton Street	Unconsolidated Unit Monitoring Well					1573802.31	659975.60	1025.50	1025.52	1024.99	
RW01-01	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Remediation Injection Well	BM	HSA	1/27/1999	1/27/1999	1573647.65	659500.72	1025.50	1025.49	1025.27	18.50
RW01-02	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Remediation Observation Well	BM	HSA	1/26/1999	1/26/1999	1573648.15	659507.49	1025.60	1025.57	1025.11	19.00
RW01-03	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Remediation Observation Well	BM	HSA	1/26/1999	1/26/1999	1573646.43	659490.30	1025.40	1025.45	1024.96	18.00
RW01-04	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Remediation Observation Well	BM	HSA	1/27/1999	1/27/1999	1573635.88	659503.04	1025.70	1025.68	1025.36	17.50
RW01-04 CONF	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Remediation Observation Well	EC	DP	1/29/2004	1/29/2004	1573635.88	659503.04	1025.70	1025.68	1025.36	17.00
RW01-05	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Remediation Observation Well	BM	HSA	1/28/1999	1/28/1999	1573657.28	659499.33	1027.50	1027.47	1027.04	19.50
RW01-06	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Remediation Observation Well	BM	HSA	1/29/1999	1/29/1999	1573618.17	659503.28	1025.90	1025.88	1025.57	17.50
SA-01	Vernay Plant 2/3 Facility	Sanitary Sewer Manhole					1573652.89	659502.25	1024.37	1025.57	1024.37	
SA-02	Vernay Plant 2/3 Facility	Sanitary Sewer Manhole					1573624.72	659868.93	1024.48	1024.48	1018.56	
SA-03	Vernay Plant 2/3 Facility	Sanitary Sewer Manhole					1574001.17	659984.48	1022.75	1022.75	1017.14	
SA-04	Vernay Plant 2/3 Facility	Sanitary Sewer Structure					1573659.34	659565.77	1025.75	1025.75	1025.75	
SA-05	Vernay Plant 2/3 Facility	Sanitary Sewer Structure					1573654.81	659446.33	1025.56	1025.56	1025.56	
SA-06	Vernay Plant 2/3 Facility	Sanitary Sewer Structure					1573911.46	659389.63	1025.40	1025.40	1025.40	
SA-07	Vernay Plant 2/3 Facility	Sanitary Sewer Structure					1573923.93	659515.68	1025.04	1025.04	1025.04	
SED02-01	Unnamed Creek	Surface Sediment from Unnamed Creek					1575508.00	660520.27	1006.60		1006.60	0.00
SED02-02	Unnamed Creek	Surface Sediment from Unnamed Creek					1575418.70	660891.19	1005.80		1005.80	0.00
SED02-03	Unnamed Creek	Surface Sediment from Unnamed Creek					1575245.77	661499.98	1003.90		1003.90	0.00

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SED02-04	Unnamed Creek	Surface Sediment from Unnamed Creek					1575474.38	662021.66	1003.50		1003.50	0.00
SED02-05	Unnamed Creek	Surface Sediment from Unnamed Creek					1575710.41	662087.57	1003.20		1003.20	0.00
SED02-06	Unnamed Creek	Surface Sediment from Unnamed Creek					1576235.71	662881.90	994.50		994.50	0.00
SEPTIC TANK NW	Vernay Plant 2/3 Facility	Grab					1573599.45	659658.02	1025.60		1025.60	5.00
SEPTIC TANK SE	Vernay Plant 2/3 Facility	Grab					1573619.71	659648.25	1025.60		1025.60	5.00
ST01-01	Vernay Plant 2/3 Facility	Water from within Storm Sewer Structure					1573645.39	659509.91	1022.06	1025.51		
ST01-02	Vernay Plant 2/3 Facility	Water from within Storm Sewer Structure					1573634.23	659278.89	1023.96	1023.96		
ST01-03	Vernay Plant 2/3 Facility	Water from within Storm Sewer Structure					1573630.10	659245.76	1023.91	1023.91	1017.61	
ST01-04	Vernay Plant 2/3 Facility	Water from within Storm Sewer Structure					1573760.51	659239.82	1023.60	1023.60	1017.47	
ST01-05	Vernay Plant 2/3 Facility	Water from within Storm Sewer Structure					1573890.06	659254.87	1027.08	1027.08	1016.98	
ST01-06	Vernay Plant 2/3 Facility	Water from within Storm Sewer Structure					1573916.50	659440.32	1024.38	1024.38	1016.70	
ST01-07	Vernay Plant 2/3 Facility	Water from within Storm Sewer Structure					1573932.33	659659.27	1022.75	1022.75	1015.67	
ST02-01	Dayton Street	Water from within Storm Sewer Structure					1573264.83	659790.88	1026.44	1026.44	1021.79	
ST02-02	Dayton Street	Water from within Storm Sewer Structure					1573561.26	659825.92	1024.91	1024.91	1021.48	
ST02-03	Dayton Street	Water from within Storm Sewer Structure					1573952.57	659959.24	1023.43	1023.43	1014.66	
ST02-04	Dayton Street	Water from within Storm Sewer Structure					1575553.23	660497.27	1013.52	1013.52	1010.12	
ST02-05	Dayton Street/Unnamed Creek	Water from Storm Sewer Outfall to Unnamed Creek					1575504.13	660491.19	1014.05	1014.05	1005.59	
ST02-06	Unnamed Creek	Surface Water from Unnamed Creek					1575710.41	662087.57	1003.20			
ST02-07	Unnamed Creek	Surface Water from Unnamed Creek					1576235.71	662881.90	994.50			
ST02-08	Omar Circle	Water from within Storm Sewer Structure					1573613.50	659073.11	1025.68	1025.68	1018.48	
ST02-09	Unnamed Creek	Surface Water from Unnamed Creek					1575245.77	661499.98	1003.90			
ST-23	Vernay Plant 2/3 Facility	Storm Sewer Structure					1572979.96	659702.43	1029.74	1029.74	1024.64	
ST-24	Vernay Plant 2/3 Facility	Storm Sewer Structure					1572970.41	659634.67	1029.42	1029.42	1026.02	
ST-25	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573006.24	659638.65	1029.32	1029.32	1025.82	
ST-26	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573275.03	659756.56	1026.78	1026.78	1022.88	
ST-27	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573561.38	659825.97	1024.86	1024.86	1021.46	
ST-28	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573559.58	659844.13	1025.31	1025.31	1020.86	
ST-29	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573939.73	660005.27	1023.28	1023.28	1019.88	
ST-30	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573862.39	659973.09	1023.55	1023.55	1018.40	
Storm-st-1	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573645.39	659509.91	1025.51	1025.51	1022.06	
Storm-st-10	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573844.55	659893.61	1022.94	1022.94	1021.87	
Storm-st-11	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573889.00	659893.70	1023.43			
Storm-st-12	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573932.28	659899.58	1021.92	1021.92	1020.62	
Storm-st-13	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573947.60	659923.77	1022.85			
Storm-st-14	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573407.38	659294.65	1026.38	1026.38	1023.81	
Storm-st-15	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573460.55	659290.58	1026.04	1026.04	1023.49	

The Payne Firm, Inc.

TABLE 4: Survey Information

Location ID	Location	Survey Point	Drilling Firm	Drilling Method	Start Date	Completion Date	Easting (X)	Northing (Y)	Surface Grade (feet msl)	Flush Grade (feet msl)	Measuring Point (feet msl)	Total Depth (feet bgs)
Storm-st-16	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573514.73	659287.76	1025.25	1025.25	1022.78	
Storm-st-17	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573566.76	659284.28	1024.57	1024.57	1021.62	
Storm-st-18	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573584.29	659590.88	1025.36	1025.36	1023.93	
Storm-st-19	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573483.66	659622.12	1025.54	1025.54	1024.69	
Storm-st-2	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573630.10	659245.76	1023.91	1023.91	1017.61	
Storm-st-20	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573570.18	659624.67	1025.28	1025.28		
Storm-st-21	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573561.26	659825.92	1024.91	1024.91	1021.48	
Storm-st-22	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573950.92	659939.14	1023.10			
Storm-st-3	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573760.51	659239.82	1023.60	1023.60	1017.47	
Storm-st-4	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573890.06	659254.87	1027.08	1027.08	1016.98	
Storm-st-5	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573916.50	659440.32	1024.38	1024.38	1016.70	
Storm-st-6	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573932.33	659659.27	1022.75	1022.75	1015.67	
Storm-st-7	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573952.57	659959.24	1023.43	1023.43	1014.66	
Storm-st-8	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573634.23	659278.89	1023.96	1023.96		
Storm-st-9	Vernay Plant 2/3 Facility	Storm Sewer Structure					1573672.51	659723.95	1027.38	1027.38	1022.08	
STW01-01	Vernay Plant 2/3 Facility	Storm Sewer Backfill Remediation Injection Well	AST	HSA	2/15/2000	2/15/2000	1573942.88	659841.46	1022.39	1022.57	1022.34	10.50
STW01-02	Vernay Plant 2/3 Facility	Storm Sewer Backfill Remediation Injection Well	AST	HSA	2/15/2000	2/15/2000	1573939.07	659739.01	1023.53	1023.60	1023.36	10.50
STW01-03	Vernay Plant 2/3 Facility	Storm Sewer Backfill Remediation Injection Well	AST	HSA	2/15/2000	2/15/2000	1573929.58	659627.17	1024.05	1024.29	1023.89	10.00
STW01-04	Vernay Plant 2/3 Facility	Storm Sewer Backfill Remediation Injection Well	AST	HSA	2/15/2000	2/15/2000	1573925.73	659518.21	1024.87	1024.95	1024.54	10.00
STW01-05	Vernay Plant 2/3 Facility	Storm Sewer Backfill Remediation Injection Well	AST	HSA	2/14/2000	2/14/2000	1573911.24	659416.14	1024.88	1025.13	1024.78	9.00
STW01-06	Vernay Plant 2/3 Facility	Storm Sewer Backfill Remediation Injection Well	AST	HSA	2/14/2000	2/14/2000	1573901.84	659314.78	1026.28	1026.42	1026.42	11.00
STW01-07	Vernay Plant 2/3 Facility	Storm Sewer Backfill Remediation Injection Well	AST	HSA	2/14/2000	2/14/2000	1573845.30	659250.23	1026.63	1026.67	1026.40	12.00
SUMP	Vernay Plant 2/3 Facility	Water from Plant 2 Sump							1026.15		1026.15	
VSGP-001	Dayton Street	Geoprobe	AST	DP	4/4/2000	4/4/2000	1575514.10	660450.34	1016.40		1016.40	13.50
VSGP-002	Dayton Street	Geoprobe	AST	DP	4/4/2000	4/4/2000	1575419.90	660418.56	1016.40		1016.40	13.20
VSGP-003	Dayton Street	Geoprobe	AST	DP	4/4/2000	4/4/2000	1575322.30	660390.19	1016.40		1016.40	13.00
VSGP-004	Dayton Street	Geoprobe	AST	DP	4/5/2000	4/5/2000	1575226.97	660358.41	1016.60		1016.60	9.50
VSGP-005	Dayton Street	Geoprobe	AST	DP	4/5/2000	4/5/2000	1575212.22	660358.41	1016.60		1016.60	13.50
VSGP-006	Dayton Street	Geoprobe	AST	DP	4/5/2000	4/5/2000	1575111.22	660322.10	1016.40		1016.40	14.00
VSGP-007	Dayton Street	Geoprobe	AST	DP	4/5/2000	4/5/2000	1574995.46	660282.38	1016.60		1016.60	8.00
VSGP-008	Dayton Street	Geoprobe	AST	DP	4/5/2000	4/5/2000	1574980.71	660278.97	1016.60		1016.60	14.00
VSGP-009	Dayton Street	Geoprobe	AST	DP	4/5/2000	4/5/2000	1574900.13	660257.41	1016.60		1016.60	14.50
VSGP-010	Dayton Street	Geoprobe	AST	DP	4/5/2000	4/5/2000	1574784.37	660241.52	1017.28		1017.28	14.50
VSGP-011	Dayton Street	Geoprobe	AST	DP	4/5/2000	4/5/2000	1574709.47	660222.23	1018.57		1018.57	15.40
VSGP-012	Dayton Street	Geoprobe	AST	DP	4/5/2000	4/5/2000	1574568.75	660179.10	1020.22		1020.22	16.00
WW01-Vernay Plant 2	Vernay Plant 2/3 Facility	Upper/Middle Cedarville Aquifer Water Well					1573593.93	659500.60	1027.70	1027.72	1027.37	33.70
WW02-195 Park Meadows	195 Park Meadows	Water Well - Unused	Lower Well Drilling Co			6/1/1989	1575007.65	660842.22	1016.62	1017.69		92.00
WW02-324 Dayton Street	324 Dayton Street	Water Well - Potable					1571617.05	659703.56	1038.34	1039.21		
WW02-340 Fairfield	340 Fairfield	Water Well					1572194.00	663439.00				
WW02-3871 East Enon	3871 East Enon	Water Well	Lower Well Drilling			1/4/1985						82.00

The Payne Firm, Inc.

TABLE 4: Survey Information

Location ID	Location	Survey Point	Drilling Firm	Drilling Method	Start Date	Completion Date	Easting (X)	Northing (Y)	Surface Grade (feet msl)	Flush Grade (feet msl)	Measuring Point (feet msl)	Total Depth (feet bgs)
WW02-3881 East Enon	3881 East Enon	Water Well	Lower Well Drilling			8/30/1986						82.00
WW02-3910 East Enon	3910 East Enon	Water Well	Jenkins Pumps			6/12/1987						90.00
WW02-3997 East Enon	3997 East Enon	Water Well					1573245.00	657502.00				
WW02-409 WN College Street	409 WS College Street	Water Well - Unused					1575111.00	659208.00				
WW02-4100 East Enon	4100 East Enon	Water Well - Potable					1573016.00	660012.00				
WW02-420 East Enon	420 East Enon	Water Well - Nonpotable					1572504.44	658714.50	1031.56	1033.84		
WW02-422 North High Street	422 North High Street	Water Well	Curtis Hughes			6/10/1977						60.00
WW02-4353 East Enon	4353 East Enon	Water Well					1572557.00	661376.00				
WW02-502 WS College Street	502 W.S. College Street	Water Well - Potable					1574684.00	658335.00				
WW02-505 King Street	505 King Street	Water Well					1575945.00	662399.00				
WW02-545 Dayton Street	545 Dayton Street	Water Well - Nonpotable					1575776.80	660370.51	1016.99	1020.15		
WW02-550 Green Street	550 Green Street	Water Well - Unused					1575343.28	659457.62	1023.10			
WW02-602 Wright Street	602 Wright Street	Water Well - Unused					1574782.00	659593.00				
WW02-608 South High Street	608 South High Street	Water Well					1576247.00	659296.00				
WW02-675 Wright Street	675 Wright Street	Water Well - Unused					1574948.00	659383.00				
WW02-685 Wright Street	685 Wright Street	Water Well - Unused					1574906.71	659292.33	1026.61			
WW02-690 Wright Street	690 Wright Street	Water Well - Nonpotable					1574709.36	659242.61	1027.17	1028.33		
WW02-775 Dayton Street	775 Dayton Street	Water Well - Potable					1574476.40	660049.16	1023.38	1023.65		
WW02-780 Dayton Street	780 Dayton Street	Water Well - Potable					1574313.69	660127.95	1021.20	1022.99		
WW02-820 Green Street	820 Green Street	Water Well - Unused					1575106.00	658821.00				
WW02-825 Dayton Street	825 Dayton Street	Water Well - Potable					1574229.00	659962.00				
WW02-845 Dayton Street	845 Dayton Street	Water Well - Unused					1574033.00	659766.00				
WW02-850 Dayton Street	850 Dayton Street	Water Well - Potable					1573835.09	660067.86	1025.54	1027.17		
WW02-860 Dayton Street North	860 Dayton Street	Water Well - Unused					1573674.89	660183.13				
WW02-860 Dayton Street South	860 Dayton Street	Water Well - Nonpotable					1573705.10	659993.23	1025.75	1026.53		
WW02-880 Dayton Street	880 Dayton Street	Water Well - Unused					1573634.00	659985.00				
WW02-Miami TWP Garage	Miami TWP Garage	Water Well					1575007.79	660841.94	1016.40	1017.60		
WW02-Whitehall Farm	Whitehall Farm	Water Well					1579674.00	663819.00				
YS-1	Yellow Springs Well Field	Municipal Well					1576814.00	647370.00	845.00			
YS-2R	Yellow Springs Well Field	Municipal Well					1576359.00	647252.00	845.00			
YS-3R	Yellow Springs Well Field	Municipal Well					1575683.00	647286.00	845.00			
YS-4	Yellow Springs Well Field	Municipal Well					1574890.00	646745.00	853.00			
YS-5	Yellow Springs Well Field	Municipal Well					1575160.00	646973.00				
YSIMW-04D	YSI Brannum Lane Facility	Lower Carbonate Aquifer Monitoring Well		AH/C			1574826.12	654878.63	1002.55		1005.05	111.60
YSIMW-04I	YSI Brannum Lane Facility	Upper Carbonate Aquifer Monitoring Well		AH/C			1574799.91	654887.35	1003.05		1005.97	53.00
YSIMW-04S	YSI Brannum Lane Facility	Unconsolidated Till Monitoring Well		AH/C			1574778.05	654894.32	1004.10		1006.88	12.00
YSIMW-05S	YSI Brannum Lane Facility	Unconsolidated Till Monitoring Well		AH/C			1574411.21	654738.22	1009.86		1012.56	24.50
YSIMW-06S	YSI Brannum Lane Facility	Unconsolidated Till Monitoring Well		AH/C			1574436.09	654476.16	1008.42		1011.04	29.90
YSIMW-07D	YSI Brannum Lane Facility	Lower Carbonate Aquifer Monitoring Well		AH/C			1574522.08	654228.28	1003.59		1003.23	120.00
YSIMW-07I	YSI Brannum Lane Facility	Upper Carbonate Aquifer Monitoring Well		AH/C			1574511.03	654231.73			1003.53	46.00
YSIMW-07S	YSI Brannum Lane Facility	Unconsolidated Till Monitoring Well		AH/C			1574531.25	654221.65	1003.55		1003.01	19.10
YSIMW-08S	YSI Brannum Lane Facility	Unconsolidated Till Monitoring Well		AH/C			1574718.13	654370.89	1006.16		1008.85	23.00
YSIMW-09D	West of YSI Brannum Lane Facility	Lower Carbonate Aquifer Monitoring Well		AH/C			157314.60	654406.51			1003.50	119.00

The Payne Firm, Inc.

TABLE 4: Survey Information

Location ID	Location	Survey Point	Drilling Firm	Drilling Method	Start Date	Completion Date	Easting (X)	Northing (Y)	Surface Grade (feet msl)	Flush Grade (feet msl)	Measuring Point (feet msl)	Total Depth (feet bgs)
YSIMW-09I	West of YSI Brannum Lane Facility	Upper Carbonate Aquifer Monitoring Well		AH/C			1574311.41	654382.35	1003.45		1003.14	50.00
YSIMW-09S	West of YSI Brannum Lane Facility	Unconsolidated Till Monitoring Well		AH/C			1574308.90	654359.49	1003.19		1002.99	24.80
YSIMW-10D	East of YSI Brannum Lane Facility	Lower Carbonate Aquifer Monitoring Well	HAD	AH/C		6/11/2003	1574597.96	653796.34	987.23		986.76	110.00
YSIMW-10I	East of YSI Brannum Lane Facility	Upper Carbonate Aquifer Monitoring Well	HAD	AH/C		6/11/2003	1574612.80	653789.04	986.97		986.55	44.50
YSIMW-10S	East of YSI Brannum Lane Facility	Unconsolidated Till Monitoring Well	HAD	AH/C		6/11/2003	1574611.49	653803.18	987.46		987.05	10.90
YSIMW-11D	East of YSI Brannum Lane Facility	Lower Carbonate Aquifer Monitoring Well		AH/C			1575909.62	654198.50	1002.15		1001.77	113.50
YSIMW-11I	East of YSI Brannum Lane Facility	Upper Carbonate Aquifer Monitoring Well		AH/C			1575898.44	654187.40	1002.18		1001.83	44.50
YSIMW-11S	East of YSI Brannum Lane Facility	Unconsolidated Till Monitoring Well		AH/C			1575909.12	654179.76	1002.20		1001.97	15.50
YSIMW-13I	West of YSI Brannum Lane Facility	Upper Carbonate Aquifer Monitoring Well		AH/C			1573098.65	653804.86	995.22		994.77	53.00
YSIMW-13S	West of YSI Brannum Lane Facility	Unconsolidated Till Monitoring Well		RS			1573097.10	653824.45	995.24		995.03	29.00
YSIMW-14aqd	Southeast of YSI Brannum Lane Facility	Middle Aquitard Osgood Fm. Monitoring Well		AH/C			1574633.01	653156.24	975.21		977.06	34.00
YSIMW-14D	Southeast of YSI Brannum Lane Facility	Lower Carbonate Aquifer Monitoring Well		AH/C			1574645.22	653180.27	975.53		977.97	83.00
YSIMW-14I	Southeast of YSI Brannum Lane Facility	Upper Carbonate Aquifer Monitoring Well		AH/C			1574631.90	653139.64	974.76		978.02	17.00
YSIMW-15I	YSI Brannum Lane Facility	Upper Carbonate Aquifer Monitoring Well		RS			1574357.31	654092.23	1006.37		1005.96	50.00
YSIMW-15S	YSI Brannum Lane Facility	Unconsolidated Till Monitoring Well		RS			1574348.98	654082.17	1006.23		1005.84	30.25
YSIMW-16S	South of YSI Brannum Lane Facility	Unconsolidated Till Monitoring Well		RS			1574043.78	652782.49	966.84		969.28	17.00

Notes:
ID = Identification
msl = mean sea level
bgs = gelow ground surface
Drilling Firm:
BM = Bowser Morner
AST = AST Environmental, Inc
DPA = Direct Push Analytical Corp.
EC = EnviroCore, Ltd.
HAD = HAD Drilling Contractors
Drilling Method:
RS = Rotosonic
AR = Air Rotary
HSA = Hollow Stem Auger
DP = Direct-Push
AH/C = Air Hammer/Core

State plane coordinates from Woolpert Surveying, LLP., Dayton, Ohio (NAD83/NAVD88)

The Payne Firm, Inc.

Vernay Laboratories, Inc.

Plant 2/3 Facility

Yellow Springs, Ohio

Project No. 0292.11.39

TABLE 5: Quality Control Sample Summary

QA/QC Sample Type	General ID	Field ID	Sample Date
Ground Water Duplicate	MW01-04 DUP	DUP01/021403	2/14/2003
Ground Water Duplicate	MW01-04 DUP	DUP01/091503	9/15/2003
Ground Water Duplicate	MW01-04 DUP	DUPLICATE #1/051399	5/13/1999
Ground Water Duplicate	MW01-04 DUP	DUPLICATE/060801	6/8/2001
Ground Water Duplicate	MW01-04 DUP	DUPLICATE/110200	11/2/2000
Ground Water Duplicate	MW01-04CD DUP	DUP 01/021904	2/19/2004
Ground Water Duplicate	MW01-04CD DUP	DUP01/050703	5/7/2003
Ground Water Duplicate	MW01-04CD DUP	DUPLICATE 1/060700	6/7/2000
Ground Water Duplicate	MW01-04SE	DUP01/100504	10/5/2004
Ground Water Duplicate	MW01-04SE DUP	DUP01/030504	3/5/2004
Ground Water Duplicate	MW01-04SE DUP	DUP01/041404	4/14/2004
Ground Water Duplicate	MW01-04SE DUP	DUP01/051904	5/19/2004
Ground Water Duplicate	MW01-04SE DUP	DUP01/071304	7/13/2004
Ground Water Duplicate	MW01-05 DUP	DUP-110598	11/5/1998
Ground Water Duplicate	MW01-05 DUP	DUPLICATE 01/060801	6/8/2001
Ground Water Duplicate	MW01-05 DUP	DUPLICATE/120199	12/1/1999
Ground Water Duplicate	MW01-06 DUP	DUP01/110603	11/6/2003
Ground Water Duplicate	MW01-07 DUP	MW03-25/101503	10/15/2003
Ground Water Duplicate	MW01-10 DUP	DUP02/021403	2/14/2003
Ground Water Duplicate	MW01-10 DUP	DUP02/091503	9/15/2003
Ground Water Duplicate	MW01-10 DUP	MW-10-032699DUP	3/26/1999
Ground Water Duplicate	MW01-13 DUP	DUPLICATE/111901	11/19/2001
Ground Water Duplicate	MW02-02	DUP02/100504	10/5/2004
Ground Water Duplicate	MW02-02 DUP	DUPLICATE-113099	11/30/1999
Ground Water Duplicate	MW02-03CD DUP	DUP-02/022304	2/23/2004
Ground Water Duplicate	MW02-03SE DUP	DUP-02/041504	4/15/2004
Ground Water Duplicate	MW02-03SE DUP	DUP02/071204	7/12/2004
Ground Water Duplicate	MW02-06 DUP	DUP03/071604	7/16/2004
Ground Water Duplicate	MW02-06 DUP	DUPLICATE #2/051399	5/13/1999
Ground Water Duplicate	MW02-06 DUP	DUPLICATE 2/060700	6/7/2000
Ground Water Duplicate	MW02-08 DUP	DUP02/110403	11/4/2003
Ground Water Duplicate	MW02-08 DUP	DUP-03/041504	4/15/2004
Ground Water Duplicate	MW02-13 DUP	DUP03/022404	2/24/2004
Ground Water Duplicate	MW02-15CD	DUP03/100804	10/8/2004
Ground Water Duplicate	WW01-Vernay Plant 2 DUP	DUPLICATE-072800	7/28/2000
Ground Water Duplicate	WW02-825 Dayton St / spigot post tank / P DUP	DUP01/040504	4/5/2004
Ground Water Screening Dup.	GP01-033 / 17 GW DUP	GP-0133-17GW DUP	12/17/1998
Ground Water Screening Dup.	GP01-059 / 10-11.5 GW DUP	DUP-008/020304	2/3/2004
Ground Water Screening Dup.	GP02-007 / 21 GW DUP	GP-0207-21GWDUP	12/22/1998
Ground Water Screening Dup.	GP02-014 / 16.6 GW DUP	GP-0214-16.6GWDUP	3/1/1999
Ground Water Screening Dup.	GP02-028 / 13.6 GW DUP	DUP-01/072903	7/29/2003

The Payne Firm, Inc.

TABLE 5: Quality Control Sample Summary

QA/QC Sample Type	General ID	Field ID	Sample Date
Ground Water Screening Dup.	GP02-048 / 06-10 GW DUP	DUP-02/080503	8/5/2003
Ground Water Screening Dup.	GP02-058 / 13 GW DUP	DUP-01/110503	11/5/2003
Ground Water Screening Dup.	GP02-081 / 17.5 GW DUP	DUP-05/112103	11/21/2003
Ground Water Screening Dup.	GP02-084 / 18 GW DUP	DUP-001/012204/GW	1/22/2004
Ground Water Screening Dup.	VSGP-002 / 13 GW DUP	VSGP-13/040600	4/6/2000
Soil Duplicate	GP01-025 / 06-08 CONF DUP	DUP006/082404	8/24/2004
Soil Duplicate	GP01-055 / 04-06 CONF DUP	DUP-004/020204	2/2/2004
Soil Duplicate	GP01-059 / 04-06 CONF DUP	DUP-005/020304	2/3/2004
Soil Duplicate	GP01-059 / 12-14 DUP	DUP-006/020304	2/3/2004
Soil Duplicate	GP01-059 / 16-18 DUP	DUP-007/020304	2/3/2004
Soil Duplicate	GP01-096 / 20-22.2 CONF DUP	DUP009/083004	8/30/2004
Soil Duplicate	GP01-105 / 08-10 CONF DUP	DUP007/082404	8/24/2004
Soil Duplicate	GP01-113 / 06-08 DUP	DUP-03/111403	11/14/2003
Soil Duplicate	GP01-123 / 00-02 DUP	DUP-04B/112103	11/21/2003
Soil Duplicate	GP01-123 / 13.5-15 DUP	DUP-04A/112103	11/21/2003
Soil Duplicate	GP01-124 / 18-20 DUP	DUP-009/020404	2/4/2004
Soil Duplicate	GP01-142 / 08-10 DUP	DUP-002/012804	1/28/2004
Soil Duplicate	GP01-145 / 08-10 DUP	DUP-003/012804	1/28/2004
Soil Duplicate	GP01-147 / 02-04 DUP	DUP-010/020404	2/4/2004
Soil Duplicate	GP01-156 / 06.5-08 DUP	DUP002/081704	8/17/2004
Soil Duplicate	GP01-157 / 08-10 DUP	DUP003/081704	8/17/2004
Soil Duplicate	GP01-161 / 10-12 DUP	DUP004/082304	8/23/2004
Soil Duplicate	GP01-168 / 00-02 DUP	DUP005/082404	8/24/2004
Soil Duplicate	GP02-070 / 19-21 DUP	DUP-02/111103	11/11/2003
Soil Duplicate	GP02-098 / 18-19.8 DUP	DUP001/081604	8/16/2004
Soil Duplicate	GP02-099 / 13.5-16 DUP	DUP008/082604	8/26/2004
Surface Water Duplicate	ST01-07 DUP	DUPLICATE/030499	3/4/1999
Field Blank	FIELD BLANK	FB 01/021904	2/19/2004
Field Blank	FIELD BLANK	FB/113099	11/30/1999
Field Blank	FIELD BLANK	FB/120199	12/1/1999
Field Blank	FIELD BLANK	FB-001/012104	1/21/2004
Field Blank	FIELD BLANK	FB001/081604	8/16/2004
Field Blank	FIELD BLANK	FB-002/012204	1/22/2004
Field Blank	FIELD BLANK	FB002/082404	8/24/2004
Field Blank	FIELD BLANK	FB-003/012304	1/23/2004
Field Blank	FIELD BLANK	FB003/082604	8/26/2004
Field Blank	FIELD BLANK	FB-004/012604	1/26/2004
Field Blank	FIELD BLANK	FB004/082604	8/26/2004
Field Blank	FIELD BLANK	FB-005/020204	2/2/2004
Field Blank	FIELD BLANK	FB005/082604	8/26/2004
Field Blank	FIELD BLANK	FB-006/020304	2/3/2004
Field Blank	FIELD BLANK	FB006/083004	8/30/2004
Field Blank	FIELD BLANK	FB-007/020404	2/4/2004
Field Blank	FIELD BLANK	FB007/083004	8/30/2004
Field Blank	FIELD BLANK	FB01/021403	2/14/2003
Field Blank	FIELD BLANK	FB01/033004	3/30/2004

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TABLE 5: Quality Control Sample Summary

QA/QC Sample Type	General ID	Field ID	Sample Date
Field Blank	FIELD BLANK	FB01/041304	4/13/2004
Field Blank	FIELD BLANK	FB01/050803	5/8/2003
Field Blank	FIELD BLANK	FB01/051904	5/19/2004
Field Blank	FIELD BLANK	FB01/071304	7/13/2004
Field Blank	FIELD BLANK	FB01/091203	9/12/2003
Field Blank	FIELD BLANK	FB01/100604	10/6/2004
Field Blank	FIELD BLANK	FB01/110503	11/5/2003
Field Blank	FIELD BLANK	FB-01/110503	11/5/2003
Field Blank	FIELD BLANK	FB01-02/080503	8/5/2003
Field Blank	FIELD BLANK	FB02/021903	2/19/2003
Field Blank	FIELD BLANK	FB02/022004	2/20/2004
Field Blank	FIELD BLANK	FB02/022404	2/24/2004
Field Blank	FIELD BLANK	FB02/041404	4/14/2004
Field Blank	FIELD BLANK	FB02/071504	7/15/2004
Field Blank	FIELD BLANK	FB02/091503	9/15/2003
Field Blank	FIELD BLANK	FB02/100604	10/6/2004
Field Blank	FIELD BLANK	FB02/110703	11/7/2003
Field Blank	FIELD BLANK	FB-02/111303	11/13/2003
Field Blank	FIELD BLANK	FB02-01/073103	7/31/2003
Field Blank	FIELD BLANK	FB-03	10/11/2004
Field Blank	FIELD BLANK	FB-03/041504	4/15/2004
Field Blank	FIELD BLANK	FB03/071504	7/15/2004
Field Blank	FIELD BLANK	FB-03/111403	11/14/2003
Field Blank	FIELD BLANK	FB-04/112103	11/21/2003
Field Blank	FIELD BLANK	FB-05/112103	11/21/2003
Field Blank	FIELD BLANK	FB-110598	11/5/1998
Field Blank	FIELD BLANK	FB-HYDRANT/021104	2/11/2004
Field Blank	FIELD BLANK	FB-TRUCK/021104	2/11/2004
Field Blank	FIELD BLANK	FIELD BLANK	6/5/2000
Field Blank	FIELD BLANK	FIELD BLANK	6/6/2000
Field Blank	FIELD BLANK	FIELD BLANK	7/28/2000
Field Blank	FIELD BLANK	FIELD BLANK #1/051299	5/12/1999
Field Blank	FIELD BLANK	FIELD BLANK #2/051399	5/13/1999
Field Blank	FIELD BLANK	FIELD BLANK/110200	11/2/2000
Field Blank	FIELD BLANK	FIELD BLANK/111901	11/19/2001
Field Blank	FIELD BLANK	FIELD BLANK-042499	4/24/1999
Lab Matrix Spike	CW01-01	CW1/111799	11/17/1999
Lab Matrix Spike	GP01-017 / 00-02	GP-0117-0-2	12/14/1998
Lab Matrix Spike	GP01-017 / 04-06	GP-0117-4-6	12/14/1998
Lab Matrix Spike	GP01-017 / 08-10 CONF	GP01-017/08-10/012904/CONF	1/29/2004
Lab Matrix Spike	GP01-020 / 02-03	GP-0120-2-3	12/14/1998
Lab Matrix Spike	GP01-020 / 16 GW	GP-0120-16GW	12/14/1998
Lab Matrix Spike	GP01-025 / 04-06	GP-0125-4-6	12/16/1998
Lab Matrix Spike	GP01-030 / 12.8-13.4 SS	GP-0130-12.8-13.4SS	12/16/1998
Lab Matrix Spike	GP01-037 / 13.4-15.2 SS	GP-0137-13.4-15.2 SS	12/18/1998
Lab Matrix Spike	GP01-039 / 02-04	GP-0139-2-4	12/17/1998

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TABLE 5: Quality Control Sample Summary

QA/QC Sample Type	General ID	Field ID	Sample Date
Lab Matrix Spike	GP01-040 / 16 GW	GP-0140-16GW	12/17/1998
Lab Matrix Spike	GP01-041 / 00-02	GP0141-0-2	4/14/1999
Lab Matrix Spike	GP01-043 / 02-04	GP0143-2-4	4/14/1999
Lab Matrix Spike	GP01-047 / 02-04	GP0147-2-4	4/14/1999
Lab Matrix Spike	GP01-051 / 00-02	GP0151-0-2	4/12/1999
Lab Matrix Spike	GP01-055 / 00-02	GP0155-0-2	4/13/1999
Lab Matrix Spike	GP01-059 / 00-02 CONF	GP01-059/00-02/020304/CONF	2/3/2004
Lab Matrix Spike	GP01-059 / 04-06 CONF	GP01-059/04-06/020304/CONF	2/3/2004
Lab Matrix Spike	GP01-059 / 10-11.5 GW	GP01-059/10-11.5/020304/GW	2/3/2004
Lab Matrix Spike	GP01-059 / 12-14	GP01-059/12-14/020304	2/3/2004
Lab Matrix Spike	GP01-059 / 16-18	GP01-059/16-18/020304	2/3/2004
Lab Matrix Spike	GP01-062 / 00-02	GP0162-0-2	4/15/1999
Lab Matrix Spike	GP01-066 / 02-04	GP0166-2-4	4/25/1999
Lab Matrix Spike	GP01-073 / 00-02	GP0173-0-2	4/24/1999
Lab Matrix Spike	GP01-077 / 02-04	GP0177-2-4	4/15/1999
Lab Matrix Spike	GP01-085 / 00-1.5	GP0185/0-1.5	2/21/2000
Lab Matrix Spike	GP01-087 / 00-02	GP0187/0-2	5/19/2000
Lab Matrix Spike	GP01-087 / 04-06	GP0187/4-6	5/19/2000
Lab Matrix Spike	GP01-088 / 04-06	GP0188/4-6	5/19/2000
Lab Matrix Spike	GP01-091 / 08-10 CONF	GP01-091/08-10/082404/CONF	8/24/2004
Lab Matrix Spike	GP01-092 / 13.8-14.3 SS	GP0192/13.8-14.3	5/19/2000
Lab Matrix Spike	GP01-094 / 04-06	GP0194/4-6	5/20/2000
Lab Matrix Spike	GP01-094 / 08-10	GP0194/8-10	5/20/2000
Lab Matrix Spike	GP01-096 / 10-12 CONF	GP01-096/10-12/083004/CONF	8/30/2004
Lab Matrix Spike	GP01-097 / 00-02	GP0197/0-2	5/21/2000
Lab Matrix Spike	GP01-097 / 08-10	GP0197/8-10	5/21/2000
Lab Matrix Spike	GP01-098 / 08-10	GP01198/8-10	5/21/2000
Lab Matrix Spike	GP01-106 / 04-06	GP01106/4-6	5/22/2000
Lab Matrix Spike	GP01-117 / 10-12	GP01-117(10-12)/111403	11/14/2003
Lab Matrix Spike	GP01-123 / 14-16	GP01-123(6-8)/112103	11/21/2003
Lab Matrix Spike	GP01-124 / 00-02	GP01-124/00-02/020404	2/4/2004
Lab Matrix Spike	GP01-125 / 00-02	GP01-125/00-02/020404	2/4/2004
Lab Matrix Spike	GP01-143 / 08-10	GP01-143/08-10/012804	1/28/2004
Lab Matrix Spike	GP01-145 / 08-10	GP01-145/08-10/012804	1/28/2004
Lab Matrix Spike	GP01-146 / 02-04	GP01-146/02-04/020404	2/4/2004
Lab Matrix Spike	GP01-146 / 06-08	GP01-146/06-08/020404	2/4/2004
Lab Matrix Spike	GP01-156 / 06.5-08	GP01-156/06.5-08/081704	8/17/2004
Lab Matrix Spike	GP01-158 / 08-10	GP01-158/08-10/081704	8/17/2004
Lab Matrix Spike	GP01-159 / 08-10.5	GP01-159/08-10.5/082304	8/23/2004
Lab Matrix Spike	GP01-165 / 06-08	GP01-165/06-08/082404	8/24/2004
Lab Matrix Spike	GP01-170 / 00-02	GP01-170/00-02/082404	8/24/2004
Lab Matrix Spike	GP02-007 / 15-16 SS	GP-0207-15-16SS	12/22/1998
Lab Matrix Spike	GP02-007 / 21 GW	GP-0207-21GW	12/22/1998
Lab Matrix Spike	GP02-032 / 25.2 GW	GP02-32(25.2')/073003	7/30/2003
Lab Matrix Spike	GP02-041 / 19 GW	GP02-41(19')/073103	7/31/2003
Lab Matrix Spike	GP02-048 / 06-10 GW	GP02-48(6-10')/080503	8/5/2003

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TABLE 5: Quality Control Sample Summary

QA/QC Sample Type	General ID	Field ID	Sample Date
Lab Matrix Spike	GP02-058 / 13 GW	GP02-58(13')/110503GW	11/5/2003
Lab Matrix Spike	GP02-070 / 19-21	GP02-70(19-21)/111103	11/11/2003
Lab Matrix Spike	GP02-077 / 00-02	GP02-77(0-2)/111203	11/12/2003
Lab Matrix Spike	GP02-081 / 17.5 GW	GP02-81(17.5)/112103GW	11/21/2003
Lab Matrix Spike	GP02-084 / 18 GW	GP02-84/18/012204/GW	1/22/2004
Lab Matrix Spike	GP02-098 / 06-07.5	GP02-098/06-07.5/081604	8/16/2004
Lab Matrix Spike	GP02-102 / 08-10.5	GP02-102/08-10.5/082604	8/26/2004
Lab Matrix Spike	MW01-01	MW1/060500	6/5/2000
Lab Matrix Spike	MW01-02	MW01-02/091103	9/11/2003
Lab Matrix Spike	MW01-02	MW01-02/100704	10/7/2004
Lab Matrix Spike	MW01-02	MW-2/113099	11/30/1999
Lab Matrix Spike	MW01-02CD	MW2CD/060500	6/5/2000
Lab Matrix Spike	MW01-04	MW01-04/021403	2/14/2003
Lab Matrix Spike	MW01-04	MW01-04/091503	9/15/2003
Lab Matrix Spike	MW01-04	MW4/120199	12/1/1999
Lab Matrix Spike	MW01-04CD	MW01-04CD/021803	2/18/2003
Lab Matrix Spike	MW01-04CD	MW01-04CD/021904	2/19/2004
Lab Matrix Spike	MW01-04CD	MW01-04CD/050703	5/7/2003
Lab Matrix Spike	MW01-04SE	MW01-04SE/041404	4/14/2004
Lab Matrix Spike	MW01-04SE	MW01-04SE/051904	5/19/2004
Lab Matrix Spike	MW01-04SE	MW01-04SE/071304	7/13/2004
Lab Matrix Spike	MW01-04SE	MW01-04SE/100504	10/5/2004
Lab Matrix Spike	MW01-05CD	MW-5CD/113099	11/30/1999
Lab Matrix Spike	MW01-06	MW01-06/041304	4/13/2004
Lab Matrix Spike	MW01-06	MW01-06/110603	11/6/2003
Lab Matrix Spike	MW01-06	MW6/051399	5/13/1999
Lab Matrix Spike	MW01-10	MW01-10/021403	2/14/2003
Lab Matrix Spike	MW01-10	MW01-10/091503	9/15/2003
Lab Matrix Spike	MW01-10	MW-10/120199	12/1/1999
Lab Matrix Spike	MW01-10	MW-10-032699	3/26/1999
Lab Matrix Spike	MW01-13	MW-13/042500	4/25/2000
Lab Matrix Spike	MW01-13	MW-13/060801	6/8/2001
Lab Matrix Spike	MW02-01	MW0201/051399	5/13/1999
Lab Matrix Spike	MW02-01	MW-0201/060801	6/8/2001
Lab Matrix Spike	MW02-02	MW02-02/100504	10/5/2004
Lab Matrix Spike	MW02-03	MW203/120199	12/1/1999
Lab Matrix Spike	MW02-03CD	MW02-03CD/022304	2/23/2004
Lab Matrix Spike	MW02-03SE	MW02-03SE/041504	4/15/2004
Lab Matrix Spike	MW02-03SE	MW02-03SE/071204	7/12/2004
Lab Matrix Spike	MW02-05	MW02-05/021903	2/19/2003
Lab Matrix Spike	MW02-06	MW0206/060700	6/7/2000
Lab Matrix Spike	MW02-06	MW02-06/071604	7/16/2004
Lab Matrix Spike	MW02-08	MW02-08/041504	4/15/2004
Lab Matrix Spike	MW02-08	MW02-08/101104	10/11/2004
Lab Matrix Spike	MW02-08	MW02-08/110403	11/4/2003
Lab Matrix Spike	MW02-11	MW02-11/041604	4/16/2004

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TABLE 5: Quality Control Sample Summary

QA/QC Sample Type	General ID	Field ID	Sample Date
Lab Matrix Spike	MW02-13	MW02-13/022404	2/24/2004
Lab Matrix Spike	MW02-13 / 16.5-17.4	MW02-13/16.5-17.4/013004	1/30/2004
Lab Matrix Spike	MW02-15 / 09-10	MW02-15/09-10/020504	2/5/2004
Lab Matrix Spike	MW02-15CD	MW02-15CD/100804	10/8/2004
Lab Matrix Spike	MW02-18CD/06-16	MW02-18CD/06-16/022504	2/25/2004
Lab Matrix Spike	RW01-01	RW-1/120199	12/1/1999
Lab Matrix Spike	RW01-02	RW-2-5	4/22/1999
Lab Matrix Spike	RW01-03	RW-3-1	4/20/1999
Lab Matrix Spike	RW01-03	RW-3-4	4/21/1999
Lab Matrix Spike	RW01-04	RW-4-5	4/22/1999
Lab Matrix Spike	RW01-04	RW-4-7	4/27/1999
Lab Matrix Spike	RW01-04	RW-4-9	5/11/1999
Lab Matrix Spike	RW01-04 / 06-08	RW-4 (6-8)	1/27/1999
Lab Matrix Spike	RW01-05	RW01-05/091503	9/15/2003
Lab Matrix Spike	RW01-05	RW-5-10	5/20/1999
Lab Matrix Spike	RW01-05	RW-5-6	4/23/1999
Lab Matrix Spike	RW01-05	RW-5-8	5/4/1999
Lab Matrix Spike	RW01-06 / 06-08	RW-6 (6-8)	1/29/1999
Lab Matrix Spike	SED02-01	SED0201/060701	6/7/2001
Lab Matrix Spike	SED02-05	SED-0205/111901	11/19/2001
Lab Matrix Spike	SED02-06	SED-0206/110200	11/2/2000
Lab Matrix Spike	SEPTIC TANK NW	SEPTIC TANK NW/081000	8/10/2000
Lab Matrix Spike	ST01-04	ST0104/030499	3/4/1999
Lab Matrix Spike	ST01-07	ST0107/030499	3/4/1999
Lab Matrix Spike	ST02-03	SS1-011399	1/13/1999
Lab Matrix Spike	ST02-03	ST0203/091500	9/15/2000
Lab Matrix Spike	STW01-02	STW-2/021700	2/17/2000
Lab Matrix Spike	WW02-825 Dayton St / spigot post tank / P	WELL/825 DAYTONB/040504	4/5/2004
Lab Matrix Spike	WW02-860 Dayton St South / water well / P	860 DAYTON ST.(A)/060800	6/8/2000
Lab Matrix Spike Duplicate	CW01-01	CW1/111799	11/17/1999
Lab Matrix Spike Duplicate	GP01-017 / 00-02	GP-0117-0-2	12/14/1998
Lab Matrix Spike Duplicate	GP01-017 / 04-06	GP-0117-4-6	12/14/1998
Lab Matrix Spike Duplicate	GP01-017 / 08-10 CONF	GP01-017/08-10/012904/CONF	1/29/2004
Lab Matrix Spike Duplicate	GP01-020 / 02-03	GP-0120-2-3	12/14/1998
Lab Matrix Spike Duplicate	GP01-020 / 16 GW	GP-0120-16GW	12/14/1998
Lab Matrix Spike Duplicate	GP01-025 / 04-06	GP-0125-4-6	12/16/1998
Lab Matrix Spike Duplicate	GP01-030 / 12.8-13.4 SS	GP-0130-12.8-13.4SS	12/16/1998
Lab Matrix Spike Duplicate	GP01-037 / 13.4-15.2 SS	GP-0137-13.4-15.2 SS	12/18/1998
Lab Matrix Spike Duplicate	GP01-039 / 02-04	GP-0139-2-4	12/17/1998
Lab Matrix Spike Duplicate	GP01-040 / 16 GW	GP-0140-16GW	12/17/1998
Lab Matrix Spike Duplicate	GP01-041 / 00-02	GP0141-0-2	4/14/1999
Lab Matrix Spike Duplicate	GP01-043 / 02-04	GP0143-2-4	4/14/1999
Lab Matrix Spike Duplicate	GP01-047 / 02-04	GP0147-2-4	4/14/1999
Lab Matrix Spike Duplicate	GP01-051 / 00-02	GP0151-0-2	4/12/1999
Lab Matrix Spike Duplicate	GP01-055 / 00-02	GP0155-0-2	4/13/1999
Lab Matrix Spike Duplicate	GP01-059 / 00-02 CONF	GP01-059/00-02/020304/CONF	2/3/2004

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TABLE 5: Quality Control Sample Summary

QA/QC Sample Type	General ID	Field ID	Sample Date
Lab Matrix Spike Duplicate	GP01-059 / 04-06 CONF	GP01-059/04-06/020304/CONF	2/3/2004
Lab Matrix Spike Duplicate	GP01-059 / 10-11.5 GW	GP01-059/10-11.5/020304/GW	2/3/2004
Lab Matrix Spike Duplicate	GP01-059 / 12-14	GP01-059/12-14/020304	2/3/2004
Lab Matrix Spike Duplicate	GP01-059 / 16-18	GP01-059/16-18/020304	2/3/2004
Lab Matrix Spike Duplicate	GP01-062 / 00-02	GP0162-0-2	4/15/1999
Lab Matrix Spike Duplicate	GP01-066 / 02-04	GP0166-2-4	4/25/1999
Lab Matrix Spike Duplicate	GP01-073 / 00-02	GP0173-0-2	4/24/1999
Lab Matrix Spike Duplicate	GP01-077 / 02-04	GP0177-2-4	4/15/1999
Lab Matrix Spike Duplicate	GP01-085 / 00-1.5	GP0185/0-1.5	2/21/2000
Lab Matrix Spike Duplicate	GP01-087 / 00-02	GP0187/0-2	5/19/2000
Lab Matrix Spike Duplicate	GP01-087 / 04-06	GP0187/4-6	5/19/2000
Lab Matrix Spike Duplicate	GP01-088 / 04-06	GP0188/4-6	5/19/2000
Lab Matrix Spike Duplicate	GP01-091 / 08-10 CONF	GP01-091/08-10/082404/CONF	8/24/2004
Lab Matrix Spike Duplicate	GP01-092 / 13.8-14.3 SS	GP0192/13.8-14.3	5/19/2000
Lab Matrix Spike Duplicate	GP01-094 / 04-06	GP0194/4-6	5/20/2000
Lab Matrix Spike Duplicate	GP01-094 / 08-10	GP0194/8-10	5/20/2000
Lab Matrix Spike Duplicate	GP01-096 / 10-12 CONF	GP01-096/10-12/083004/CONF	8/30/2004
Lab Matrix Spike Duplicate	GP01-097 / 00-02	GP0197/0-2	5/21/2000
Lab Matrix Spike Duplicate	GP01-097 / 08-10	GP0197/8-10	5/21/2000
Lab Matrix Spike Duplicate	GP01-098 / 08-10	GP01198/8-10	5/21/2000
Lab Matrix Spike Duplicate	GP01-106 / 04-06	GP01106/4-6	5/22/2000
Lab Matrix Spike Duplicate	GP01-117 / 10-12	GP01-117(10-12)/111403	11/14/2003
Lab Matrix Spike Duplicate	GP01-123 / 14-16	GP01-123(6-8)/112103	11/21/2003
Lab Matrix Spike Duplicate	GP01-124 / 00-02	GP01-124/00-02/020404	2/4/2004
Lab Matrix Spike Duplicate	GP01-125 / 00-02	GP01-125/00-02/020404	2/4/2004
Lab Matrix Spike Duplicate	GP01-143 / 08-10	GP01-143/08-10/012804	1/28/2004
Lab Matrix Spike Duplicate	GP01-145 / 08-10	GP01-145/08-10/012804	1/28/2004
Lab Matrix Spike Duplicate	GP01-146 / 02-04	GP01-146/02-04/020404	2/4/2004
Lab Matrix Spike Duplicate	GP01-146 / 06-08	GP01-146/06-08/020404	2/4/2004
Lab Matrix Spike Duplicate	GP01-156 / 06.5-08	GP01-156/06.5-08/081704	8/17/2004
Lab Matrix Spike Duplicate	GP01-158 / 08-10	GP01-158/08-10/081704	8/17/2004
Lab Matrix Spike Duplicate	GP01-159 / 08-10.5	GP01-159/08-10.5/082304	8/23/2004
Lab Matrix Spike Duplicate	GP01-165 / 06-08	GP01-165/06-08/082404	8/24/2004
Lab Matrix Spike Duplicate	GP01-170 / 00-02	GP01-170/00-02/082404	8/24/2004
Lab Matrix Spike Duplicate	GP02-007 / 15-16 SS	GP-0207-15-16SS	12/22/1998
Lab Matrix Spike Duplicate	GP02-007 / 21 GW	GP-0207-21GW	12/22/1998
Lab Matrix Spike Duplicate	GP02-032 / 25.2 GW	GP02-32(25.2')/073003	7/30/2003
Lab Matrix Spike Duplicate	GP02-041 / 19 GW	GP02-41(19')/073103	7/31/2003
Lab Matrix Spike Duplicate	GP02-048 / 06-10 GW	GP02-48(6-10')/080503	8/5/2003
Lab Matrix Spike Duplicate	GP02-058 / 13 GW	GP02-58(13')/110503GW	11/5/2003
Lab Matrix Spike Duplicate	GP02-070 / 19-21	GP02-70(19-21)/111103	11/11/2003
Lab Matrix Spike Duplicate	GP02-081 / 17.5 GW	GP02-81(17.5)/112103GW	11/21/2003
Lab Matrix Spike Duplicate	GP02-084 / 18 GW	GP02-84/18/012204/GW	1/22/2004
Lab Matrix Spike Duplicate	GP02-098 / 06-07.5	GP02-098/06-07.5/081604	8/16/2004
Lab Matrix Spike Duplicate	GP02-102 / 08-10.5	GP02-102/08-10.5/082604	8/26/2004
Lab Matrix Spike Duplicate	MW01-01	MW1/060500	6/5/2000

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TABLE 5: Quality Control Sample Summary

QA/QC Sample Type	General ID	Field ID	Sample Date
Lab Matrix Spike Duplicate	MW01-02	MW01-02/091103	9/11/2003
Lab Matrix Spike Duplicate	MW01-02	MW01-02/100704	10/7/2004
Lab Matrix Spike Duplicate	MW01-02	MW-2/113099	11/30/1999
Lab Matrix Spike Duplicate	MW01-02CD	MW2CD/060500	6/5/2000
Lab Matrix Spike Duplicate	MW01-04	MW01-04/021403	2/14/2003
Lab Matrix Spike Duplicate	MW01-04	MW01-04/091503	9/15/2003
Lab Matrix Spike Duplicate	MW01-04	MW4/120199	12/1/1999
Lab Matrix Spike Duplicate	MW01-04CD	MW01-04CD/021803	2/18/2003
Lab Matrix Spike Duplicate	MW01-04CD	MW01-04CD/021904	2/19/2004
Lab Matrix Spike Duplicate	MW01-04CD	MW01-04CD/050703	5/7/2003
Lab Matrix Spike Duplicate	MW01-04SE	MW01-04SE/041404	4/14/2004
Lab Matrix Spike Duplicate	MW01-04SE	MW01-04SE/051904	5/19/2004
Lab Matrix Spike Duplicate	MW01-04SE	MW01-04SE/071304	7/13/2004
Lab Matrix Spike Duplicate	MW01-04SE	MW01-04SE/100504	10/5/2004
Lab Matrix Spike Duplicate	MW01-05CD	MW-5CD/113099	11/30/1999
Lab Matrix Spike Duplicate	MW01-06	MW01-06/041304	4/13/2004
Lab Matrix Spike Duplicate	MW01-06	MW01-06/110603	11/6/2003
Lab Matrix Spike Duplicate	MW01-06	MW6/051399	5/13/1999
Lab Matrix Spike Duplicate	MW01-10	MW01-10/021403	2/14/2003
Lab Matrix Spike Duplicate	MW01-10	MW01-10/091503	9/15/2003
Lab Matrix Spike Duplicate	MW01-10	MW01-10/100704	10/7/2004
Lab Matrix Spike Duplicate	MW01-10	MW-10/120199	12/1/1999
Lab Matrix Spike Duplicate	MW01-10	MW-10-032699	3/26/1999
Lab Matrix Spike Duplicate	MW01-13	MW-13/042500	4/25/2000
Lab Matrix Spike Duplicate	MW01-13	MW-13/060801	6/8/2001
Lab Matrix Spike Duplicate	MW02-01	MW0201/051399	5/13/1999
Lab Matrix Spike Duplicate	MW02-01	MW-0201/060801	6/8/2001
Lab Matrix Spike Duplicate	MW02-02	MW02-02/100504	10/5/2004
Lab Matrix Spike Duplicate	MW02-03	MW203/120199	12/1/1999
Lab Matrix Spike Duplicate	MW02-03CD	MW02-03CD/022304	2/23/2004
Lab Matrix Spike Duplicate	MW02-03SE	MW02-03SE/041504	4/15/2004
Lab Matrix Spike Duplicate	MW02-03SE	MW02-03SE/071204	7/12/2004
Lab Matrix Spike Duplicate	MW02-05	MW02-05/021903	2/19/2003
Lab Matrix Spike Duplicate	MW02-06	MW0206/060700	6/7/2000
Lab Matrix Spike Duplicate	MW02-06	MW02-06/071604	7/16/2004
Lab Matrix Spike Duplicate	MW02-08	MW02-08/041504	4/15/2004
Lab Matrix Spike Duplicate	MW02-08	MW02-08/101104	10/11/2004
Lab Matrix Spike Duplicate	MW02-08	MW02-08/110403	11/4/2003
Lab Matrix Spike Duplicate	MW02-11	MW02-11/041604	4/16/2004
Lab Matrix Spike Duplicate	MW02-13	MW02-13/022404	2/24/2004
Lab Matrix Spike Duplicate	MW02-13 / 16.5-17.4	MW02-13/16.5-17.4/013004	1/30/2004
Lab Matrix Spike Duplicate	MW02-15 / 09-10	MW02-15/09-10/020504	2/5/2004
Lab Matrix Spike Duplicate	MW02-15CD	MW02-15CD/100804	10/8/2004
Lab Matrix Spike Duplicate	MW02-18CD/06-16	MW02-18CD/06-16/022504	2/25/2004
Lab Matrix Spike Duplicate	RW01-01	RW-1/120199	12/1/1999
Lab Matrix Spike Duplicate	RW01-02	RW-2-5	4/22/1999

The Payne Firm, Inc.

TABLE 5: Quality Control Sample Summary

QA/QC Sample Type	General ID	Field ID	Sample Date
Lab Matrix Spike Duplicate	RW01-03	RW-3-1	4/20/1999
Lab Matrix Spike Duplicate	RW01-03	RW-3-4	4/21/1999
Lab Matrix Spike Duplicate	RW01-04	RW-4-5	4/22/1999
Lab Matrix Spike Duplicate	RW01-04	RW-4-7	4/27/1999
Lab Matrix Spike Duplicate	RW01-04	RW-4-9	5/11/1999
Lab Matrix Spike Duplicate	RW01-04 / 06-08	RW-4 (6-8)	1/27/1999
Lab Matrix Spike Duplicate	RW01-05	RW01-05/091503	9/15/2003
Lab Matrix Spike Duplicate	RW01-05	RW-5-10	5/20/1999
Lab Matrix Spike Duplicate	RW01-05	RW-5-6	4/23/1999
Lab Matrix Spike Duplicate	RW01-05	RW-5-8	5/4/1999
Lab Matrix Spike Duplicate	RW01-06 / 06-08	RW-6 (6-8)	1/29/1999
Lab Matrix Spike Duplicate	SED02-01	SED0201/060701	6/7/2001
Lab Matrix Spike Duplicate	SED02-05	SED-0205/111901	11/19/2001
Lab Matrix Spike Duplicate	SED02-06	SED-0206/110200	11/2/2000
Lab Matrix Spike Duplicate	SEPTIC TANK NW	SEPTIC TANK NW/081000	8/10/2000
Lab Matrix Spike Duplicate	ST01-04	ST0104/030499	3/4/1999
Lab Matrix Spike Duplicate	ST01-07	ST0107/030499	3/4/1999
Lab Matrix Spike Duplicate	ST02-03	SS1-011399	1/13/1999
Lab Matrix Spike Duplicate	STW01-02	STW-2/021700	2/17/2000
Lab Matrix Spike Duplicate	WW02-825 Dayton St / spigot post tank / P	WELL/825 DAYTONB/040504	4/5/2004
Lab Matrix Spike Duplicate	WW02-860 Dayton St South / water well / P	860 DAYTON ST.(A)/060800	6/8/2000
Rinsate	EQUIPMENT RINSATE	EQUIPRINS 12/22/98	12/22/1998
Rinsate	EQUIPMENT RINSATE	EQUIPRINS-12/17/98	12/17/1998
Rinsate	EQUIPMENT RINSATE	EQUIPRINSE-032699	3/26/1999
Rinsate	EQUIPMENT RINSATE	EQUIPRINSE-041399	4/13/1999
Rinsate	EQUIPMENT RINSATE	EQUIPRINSE-041599	4/15/1999
Rinsate	EQUIPMENT RINSATE	RIN 01/021904	2/19/2004
Rinsate	EQUIPMENT RINSATE	RIN 04/021803	2/18/2003
Rinsate	EQUIPMENT RINSATE	RIN-001/012604	1/26/2004
Rinsate	EQUIPMENT RINSATE	RIN001/081704	8/17/2004
Rinsate	EQUIPMENT RINSATE	RIN-002	1/28/2004
Rinsate	EQUIPMENT RINSATE	RIN002/082404	8/24/2004
Rinsate	EQUIPMENT RINSATE	RIN-003/020204	2/2/2004
Rinsate	EQUIPMENT RINSATE	RIN003/082604	8/26/2004
Rinsate	EQUIPMENT RINSATE	RIN-004/020404	2/4/2004
Rinsate	EQUIPMENT RINSATE	RIN004/082604	8/26/2004
Rinsate	EQUIPMENT RINSATE	RIN-005/020404	2/4/2004
Rinsate	EQUIPMENT RINSATE	RIN005/082604	8/26/2004
Rinsate	EQUIPMENT RINSATE	RIN-006/021104	2/11/2004
Rinsate	EQUIPMENT RINSATE	RIN006/083004	8/30/2004
Rinsate	EQUIPMENT RINSATE	RIN007/083004	8/30/2004
Rinsate	EQUIPMENT RINSATE	RIN01/021203	2/12/2003
Rinsate	EQUIPMENT RINSATE	RIN01/041404	4/14/2004
Rinsate	EQUIPMENT RINSATE	RIN01/050603	5/6/2003
Rinsate	EQUIPMENT RINSATE	RIN01/051904	5/19/2004
Rinsate	EQUIPMENT RINSATE	RIN01/071404	7/14/2004

The Payne Firm, Inc.

TABLE 5: Quality Control Sample Summary

QA/QC Sample Type	General ID	Field ID	Sample Date
Rinsate	EQUIPMENT RINSATE	RIN01/091003	9/10/2003
Rinsate	EQUIPMENT RINSATE	RIN01/100604	10/6/2004
Rinsate	EQUIPMENT RINSATE	RIN01/110503	11/5/2003
Rinsate	EQUIPMENT RINSATE	RIN-01/110503	11/5/2003
Rinsate	EQUIPMENT RINSATE	RIN01-02/080503	8/5/2003
Rinsate	EQUIPMENT RINSATE	RIN02/021303	2/13/2003
Rinsate	EQUIPMENT RINSATE	RIN02/022304	2/23/2004
Rinsate	EQUIPMENT RINSATE	RIN-02/041504	4/15/2004
Rinsate	EQUIPMENT RINSATE	RIN02/050703	5/7/2003
Rinsate	EQUIPMENT RINSATE	RIN02/071504	7/15/2004
Rinsate	EQUIPMENT RINSATE	RIN02/091103	9/11/2003
Rinsate	EQUIPMENT RINSATE	RIN02/100704	10/7/2004
Rinsate	EQUIPMENT RINSATE	RIN02/110603	11/6/2003
Rinsate	EQUIPMENT RINSATE	RIN-02/111303	11/13/2003
Rinsate	EQUIPMENT RINSATE	RIN02-01/073103	7/31/2003
Rinsate	EQUIPMENT RINSATE	RIN-03	10/11/2004
Rinsate	EQUIPMENT RINSATE	RIN03/021403	2/14/2003
Rinsate	EQUIPMENT RINSATE	RIN03/022404	2/24/2004
Rinsate	EQUIPMENT RINSATE	RIN-03/041604	4/16/2004
Rinsate	EQUIPMENT RINSATE	RIN03/050803	5/8/2003
Rinsate	EQUIPMENT RINSATE	RIN03/071604	7/16/2004
Rinsate	EQUIPMENT RINSATE	RIN03/091203	9/12/2003
Rinsate	EQUIPMENT RINSATE	RIN-03/111403	11/14/2003
Rinsate	EQUIPMENT RINSATE	RIN04/091503	9/15/2003
Rinsate	EQUIPMENT RINSATE	RIN-04/112503	11/25/2003
Rinsate	EQUIPMENT RINSATE	RIN05/021903	2/19/2003
Rinsate	EQUIPMENT RINSATE	RIN-05/112103	11/21/2003
Rinsate	EQUIPMENT RINSATE	RIN1/060600	6/6/2000
Rinsate	EQUIPMENT RINSATE	RIN-1/120199	12/1/1999
Rinsate	EQUIPMENT RINSATE	RIN-110598	11/5/1998
Rinsate	EQUIPMENT RINSATE	RIN2/060600	6/6/2000
Rinsate	EQUIPMENT RINSATE	RIN-2/120199	12/1/1999
Rinsate	EQUIPMENT RINSATE	RINS01/033004	3/30/2004
Rinsate	EQUIPMENT RINSATE	RINS02/033104	3/31/2004
Rinsate	EQUIPMENT RINSATE	RINS03/033104	3/31/2004
Rinsate	EQUIPMENT RINSATE	RINSATE	7/28/2000
Rinsate	EQUIPMENT RINSATE	RINSATE #2/051399	5/13/1999
Rinsate	EQUIPMENT RINSATE	RINSATE 01/060801	6/8/2001
Rinsate	EQUIPMENT RINSATE	RINSATE 01/110200	11/2/2000
Rinsate	EQUIPMENT RINSATE	RINSATE 02/110200	11/2/2000
Rinsate	EQUIPMENT RINSATE	RINSATE/060801	6/8/2001
Rinsate	EQUIPMENT RINSATE	RINSATE/111901	11/19/2001
Rinsate	EQUIPMENT RINSATE	RINSATE-042499	4/24/1999
Rinsate	EQUIPMENT RINSATE	RINSEATE #1/051299	5/12/1999
Trip Blank	TRIP BLANK	TB 03/021904	2/19/2004
Trip Blank	TRIP BLANK	TB/113099	11/30/1999

The Payne Firm, Inc.

TABLE 5: Quality Control Sample Summary

QA/QC Sample Type	General ID	Field ID	Sample Date
Trip Blank	TRIP BLANK	TB/120199	12/1/1999
Trip Blank	TRIP BLANK	TB-001/012104	1/21/2004
Trip Blank	TRIP BLANK	TB001/081604	8/16/2004
Trip Blank	TRIP BLANK	TB-002/012204	1/22/2004
Trip Blank	TRIP BLANK	TB002/081704	8/17/2004
Trip Blank	TRIP BLANK	TB-003/012304	1/23/2004
Trip Blank	TRIP BLANK	TB003/082304	8/23/2004
Trip Blank	TRIP BLANK	TB-004/012604	1/26/2004
Trip Blank	TRIP BLANK	TB004/082404	8/24/2004
Trip Blank	TRIP BLANK	TB-005/012704	1/27/2004
Trip Blank	TRIP BLANK	TB005/082604	8/26/2004
Trip Blank	TRIP BLANK	TB-006/012804	1/28/2004
Trip Blank	TRIP BLANK	TB006/082704	8/27/2004
Trip Blank	TRIP BLANK	TB-007/012904	1/29/2004
Trip Blank	TRIP BLANK	TB007/083004	8/30/2004
Trip Blank	TRIP BLANK	TB-008/020204	2/2/2004
Trip Blank	TRIP BLANK	TB-009/020304	2/3/2004
Trip Blank	TRIP BLANK	TB01/021203	2/12/2003
Trip Blank	TRIP BLANK	TB01/021704	2/17/2004
Trip Blank	TRIP BLANK	TB01/041204	4/12/2004
Trip Blank	TRIP BLANK	TB01/041703	4/17/2003
Trip Blank	TRIP BLANK	TB01/050603	5/6/2003
Trip Blank	TRIP BLANK	TB-01/072903	7/29/2003
Trip Blank	TRIP BLANK	TB01/091003	9/10/2003
Trip Blank	TRIP BLANK	TB01/100504	10/5/2004
Trip Blank	TRIP BLANK	TB01/110303	11/3/2003
Trip Blank	TRIP BLANK	TB-01/110503	11/5/2003
Trip Blank	TRIP BLANK	TB-010/020404	2/4/2004
Trip Blank	TRIP BLANK	TB-011/020504	2/5/2004
Trip Blank	TRIP BLANK	TB-013/021104	2/11/2004
Trip Blank	TRIP BLANK	TB02/021303	2/13/2003
Trip Blank	TRIP BLANK	TB02/021804	2/18/2004
Trip Blank	TRIP BLANK	TB02/041304	4/13/2004
Trip Blank	TRIP BLANK	TB02/050703	5/7/2003
Trip Blank	TRIP BLANK	TB-02/073003	7/30/2003
Trip Blank	TRIP BLANK	TB02/091103	9/11/2003
Trip Blank	TRIP BLANK	TB02/110403	11/4/2003
Trip Blank	TRIP BLANK	TB-02/110603	11/6/2003
Trip Blank	TRIP BLANK	TB03/021403	2/14/2003
Trip Blank	TRIP BLANK	TB-03/041404	4/14/2004
Trip Blank	TRIP BLANK	TB03/050803	5/8/2003
Trip Blank	TRIP BLANK	TB03/071404	7/14/2004
Trip Blank	TRIP BLANK	TB-03/073103	7/31/2003
Trip Blank	TRIP BLANK	TB03/091203	9/12/2003
Trip Blank	TRIP BLANK	TB03/110503	11/5/2003
Trip Blank	TRIP BLANK	TB-03/110703	11/7/2003

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TABLE 5: Quality Control Sample Summary

QA/QC Sample Type	General ID	Field ID	Sample Date
Trip Blank	TRIP BLANK	TB04/021803	2/18/2003
Trip Blank	TRIP BLANK	TB04/022004	2/20/2004
Trip Blank	TRIP BLANK	TB-04/041504	4/15/2004
Trip Blank	TRIP BLANK	TB-04/080103	8/1/2003
Trip Blank	TRIP BLANK	TB04/091503	9/15/2003
Trip Blank	TRIP BLANK	TB-04/111003	11/10/2003
Trip Blank	TRIP BLANK	TB05/021903	2/19/2003
Trip Blank	TRIP BLANK	TB05/022304	2/23/2004
Trip Blank	TRIP BLANK	TB-05/041604	4/16/2004
Trip Blank	TRIP BLANK	TB-05/080503	8/5/2003
Trip Blank	TRIP BLANK	TB05/110703	11/7/2003
Trip Blank	TRIP BLANK	TB-05/111103	11/11/2003
Trip Blank	TRIP BLANK	TB06/022404	2/24/2004
Trip Blank	TRIP BLANK	TB-06/111203	11/12/2003
Trip Blank	TRIP BLANK	TB07/022504	2/25/2004
Trip Blank	TRIP BLANK	TB-07/111303	11/13/2003
Trip Blank	TRIP BLANK	TB-08/111403	11/14/2003
Trip Blank	TRIP BLANK	TB-09/112103	11/21/2003
Trip Blank	TRIP BLANK	TB-10/112103	11/21/2003
Trip Blank	TRIP BLANK	TB-11/112503	11/25/2003
Trip Blank	TRIP BLANK	TB-110598	11/5/1998
Trip Blank	TRIP BLANK	TRIP BLANK	3/26/1999
Trip Blank	TRIP BLANK	TRIP BLANK	4/13/1999
Trip Blank	TRIP BLANK	TRIP BLANK	4/15/1999
Trip Blank	TRIP BLANK	TRIP BLANK	6/5/2000
Trip Blank	TRIP BLANK	TRIP BLANK	6/6/2000
Trip Blank	TRIP BLANK	TRIP BLANK	6/7/2000
Trip Blank	TRIP BLANK	TRIP BLANK	7/28/2000
Trip Blank	TRIP BLANK	TRIP BLANK	10/15/2003
Trip Blank	TRIP BLANK	TRIP BLANK	11/6/2003
Trip Blank	TRIP BLANK	TRIP BLANK	3/5/2004
Trip Blank	TRIP BLANK	TRIP BLANK	3/30/2004
Trip Blank	TRIP BLANK	TRIP BLANK	3/31/2004
Trip Blank	TRIP BLANK	TRIP BLANK	4/5/2004
Trip Blank	TRIP BLANK	TRIP BLANK	7/12/2004
Trip Blank	TRIP BLANK	TRIP BLANK	7/13/2004
Trip Blank	TRIP BLANK	TRIP BLANK	7/19/2004
Trip Blank	TRIP BLANK	TRIP BLANK	10/7/2004
Trip Blank	TRIP BLANK	TRIP BLANK (COOLER A111)	7/16/2004
Trip Blank	TRIP BLANK	TRIP BLANK (COOLER D101)	7/15/2004
Trip Blank	TRIP BLANK	TRIP BLANK 1	4/6/2000
Trip Blank	TRIP BLANK	TRIP BLANK/051904	5/19/2004
Trip Blank	TRIP BLANK	TRIP BLANK/060701	6/7/2001
Trip Blank	TRIP BLANK	TRIP BLANK/060801	6/8/2001
Trip Blank	TRIP BLANK	TRIP BLANK/100604	10/6/2004
Trip Blank	TRIP BLANK	TRIP BLANK/100804	10/8/2004

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TABLE 5: Quality Control Sample Summary

QA/QC Sample Type	General ID	Field ID	Sample Date
Trip Blank	TRIP BLANK	TRIP BLANK/101104	10/11/2004
Trip Blank	TRIP BLANK	TRIP BLANK/101204	10/12/2004
Trip Blank	TRIP BLANK	TRIP BLANK/111901	11/19/2001

The Payne Firm, Inc.

Vernay Laboratories, Inc.

Plant 2/3 Facility
Yellow Springs, Ohio
Project No. 0292.11.39

TABLE 6: List of Data Validation Qualifiers

STL Qualification Flags		STL Qualification Flag Description
General Chemistry	B	Estimated result. Result is less than the reporting limit.
	G	Interference
	J	Target analyte at a reportable level
Metals	*	Relative percent difference (RPD) is outside stated control limits
	B	Estimated result. Result is less than the reporting limit.
	J	Target analyte at a reportable level
	MSB	The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.
	E	Matrix interference
	L	Serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present.
	N	Spiked analyte recovery is outside stated control limits
PAHs	A	Spiked analyte recovery is outside stated control limits
	B	Target analyte at a reportable level
	DIL	Presence of interfering analytes
	J	Estimated results. Result is less than that reporting limit.
	P	The percent difference between the original and confirmation analyses is greater than 25%.
	PF	The percent difference between the original and confirmation analyses is greater than 50%.
	G	Interference
	PG	The percent difference between the original and confirmation analyses is greater than 40%.
	L	Serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present.
PCBs	A	Spiked analyte recovery is outside stated control limits
	P	The percent difference between the original and confirmation analyses is greater than 25%.
Pesticides	A	Spiked analyte recovery is outside stated control limits
	P	The percent difference between the original and confirmation analyses is greater than 25%.
	PG	The percent difference between the original and confirmation analyses is greater than 40%.
SVOCs	A	Spiked analyte recovery is outside stated control limits
	P	The percent difference between the original and confirmation analyses is greater than 25%.
	B	Target analyte at a reportable level
	E	Estimated result. Result concentration exceeds the calibration range.
	J	Estimated results. Result is less than that reporting limit.
VOCs	A	Spiked analyte recovery is outside stated control limits
	P	The percent difference between the original and confirmation analyses is greater than 25%.
	B	Target analyte at a reportable level
	E	Estimated result. Result concentration exceeds the calibration range.
	J	Estimated results. Result is less than that reporting limit.

Payne Firm Qualification Flags	Payne Firm Qualification Flag Description
j	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
j-	The result is an estimated quantity, but the result may be biased low.
j+	The result is an estimated quantity, but the result may be biased high.
n	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
nj	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
r	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
u	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
uj	The analyte was not detected above the reporting sample quantitation limit. However, the reported quantitation limit is approx and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

The Payne Firm, Inc.

Vernay Laboratories, Inc.
Plant 2/3 Facility

Yellow Springs, Ohio

Project No. 0292.11.39

TABLE 7: Site Geologic Model Data

Location ID	Surface	Cedarville Formation		Springfield Formation		Euphemia Formation		Massie Formation		Laurel Formation		Osgood Formation	
	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl
Average Topography	**1022.17**		**1007.39**		**952.85**		**945.78**		**937.54**		**937.47**		**942.58**
Average Thickness		**54.54**		**7.07**		**8.23**		**0.07**		**-5.10**			
AIR-0107	1028.90												
AIR-0108	1028.90												
AIR-0109	1028.87												
AIR-0110	1028.87												
AIR-0111	1027.63												
AIR-0112	1027.63												
AIR-0113	1027.66												
AIR-0114	1027.66												
B01-01	1026.22	18.00	1008.22										
B01-02	1027.39	19.20	1008.19										
B01-03	1026.30	16.00	1010.30										
B01-04	1024.66	17.00	1007.66										
B01-05	1025.97	16.00	1009.97										
B01-06	1025.46												
B01-07	1026.66	16.00	1010.66										
B01-08	1031.24	19.50	1011.74										
B01-09	1026.34	16.00	1010.34										
B01-10	1025.03	17.00	1008.03										
bldg.#2-1016	1025.86												
bldg.#2-1048	1026.05												
bldg.#2-1049	1026.57												
bldg.#2-1058	1027.52												
bldg.#2-1059	1026.71												
bldg.#3-1017	1024.29												
bldg.#3-1026	1028.22												
bldg.#3-1028	1025.49												
bldg.#3-1032	1028.21												
bldg.#3-1033	1028.22												
bldg.#3-1035	1027.04												
bldg.#3-1036	1026.79												
bldg.#3-1044	1027.93												
bldg.#3-1045	1026.80												
CW01-01	1025.82	16.20	1009.62										
CW01-02	1022.66	16.00	1006.66	84.00	938.66	90.50	932.16	98.80	923.86				
GP01-001	1024.87	14.00	1010.87										
GP01-002	1024.89	14.50	1010.39										

The Payne Firm, Inc.

TABLE 7: Site Geologic Model Data

Location ID	Surface	Cedarville Formation		Springfield Formation		Euphemia Formation		Massie Formation		Laurel Formation		Osgood Formation	
	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl
GP01-003	1025.49	15.10	1010.39										
GP01-004	1025.96	15.50	1010.46										
GP01-005	1025.60	16.70	1008.90										
GP01-006	1025.56	16.80	1008.76										
GP01-007	1025.84	16.00	1009.84										
GP01-008	1027.12	15.30	1011.82										
GP01-009	1025.99	16.00	1009.99										
GP01-010	1025.32	13.20	1012.12										
GP01-011	1026.03	13.90	1012.13										
GP01-012	1026.28	13.90	1012.38										
GP01-013	1025.70	13.60	1012.10										
GP01-014	1023.19	14.70	1008.49										
GP01-015	1027.73	12.60	1015.13										
GP01-016	1024.34	20.50	1003.84										
GP01-017	1025.74	17.50	1008.24										
GP01-018	1025.46	17.20	1008.26										
GP01-019	1025.39	15.50	1009.89										
GP01-020	1025.16	16.50	1008.66										
GP01-021	1024.90	16.00	1008.90										
GP01-022	1024.66	14.50	1010.16										
GP01-023	1024.19	14.80	1009.39										
GP01-024	1025.82	14.50	1011.32										
GP01-025	1026.74	15.20	1011.54										
GP01-026	1026.75	15.00	1011.75										
GP01-027	1026.68	17.20	1009.48										
GP01-028	1026.33	13.10	1013.23										
GP01-029	1025.04	14.50	1010.54										
GP01-030	1025.36	15.10	1010.26										
GP01-031	1025.88	14.40	1011.48										
GP01-032	1025.74	22.20	1003.54										
GP01-033	1026.80	22.20	1004.60										
GP01-034	1026.06	18.70	1007.36										
GP01-035	1025.87	20.20	1005.67										
GP01-036	1024.28	21.00	1003.28										
GP01-037	1023.54	20.40	1003.14										
GP01-038	1022.87	20.20	1002.67										
GP01-039	1026.25	14.20	1012.05										
GP01-040	1025.70	16.30	1009.40										
GP01-041	1030.40												
GP01-042	1029.40												
GP01-043	1028.40												
GP01-044	1031.70												
GP01-045	1031.40												
GP01-046	1031.30												
GP01-047	1030.30												

The Payne Firm, Inc.

TABLE 7: Site Geologic Model Data

Location ID	Surface	Cedarville Formation		Springfield Formation		Euphemia Formation		Massie Formation		Laurel Formation		Osgood Formation	
	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl
GP01-048	1025.80	19.00	1006.80										
GP01-049	1025.60	17.50	1008.10										
GP01-050	1025.80	18.00	1007.80										
GP01-051	1026.00	16.90	1009.10										
GP01-052	1025.72	16.60	1009.12										
GP01-053	1026.86	15.20	1011.66										
GP01-054	1025.90	13.10	1012.80										
GP01-055	1025.10												
GP01-056	1026.80												
GP01-056A	1026.80	19.60	1007.20										
GP01-057	1026.70	19.60	1007.10										
GP01-058	1026.60	18.20	1008.40										
GP01-059	1025.70	17.60	1008.10										
GP01-060	1025.10												
GP01-061	1025.00												
GP01-062	1025.30												
GP01-063	1024.50	12.70	1011.80										
GP01-064	1028.90	23.40	1005.50										
GP01-065	1028.90	22.70	1006.20										
GP01-066	1029.00												
GP01-067	1028.90	22.50	1006.40										
GP01-068	1028.90	24.00	1004.90										
GP01-069	1029.00												
GP01-070	1028.80	22.80	1006.00										
GP01-071	1028.80	20.00	1008.80										
GP01-072	1028.90	18.00	1010.90										
GP01-073	1028.90	20.20	1008.70										
GP01-074	1028.90	21.40	1007.50										
GP01-076	1028.20												
GP01-077	1028.20												
GP01-078	1028.20												
GP01-079	1025.93												
GP01-080	1025.10	14.40	1010.70										
GP01-081	1025.10	16.50	1008.60										
GP01-082	1026.84	20.50	1006.34										
GP01-083	1026.42	19.50	1006.92										
GP01-084	1026.60	17.00	1009.60										
GP01-085	1026.60												
GP01-086	1026.60												
GP01-087	1025.68	16.50	1009.18										
GP01-088	1025.77	16.50	1009.27										
GP01-089	1025.82	15.50	1010.32										
GP01-090	1026.94	16.50	1010.44										
GP01-091	1026.90	17.00	1009.90										
GP01-092	1026.35	16.00	1010.35										

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TABLE 7: Site Geologic Model Data

Location ID	Surface	Cedarville Formation		Springfield Formation		Euphemia Formation		Massie Formation		Laurel Formation		Osgood Formation	
	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl
GP01-093	1025.05	14.00	1011.05										
GP01-094	1029.00	20.60	1008.40										
GP01-095	1029.00	18.50	1010.50										
GP01-096	1028.90	21.80	1007.10										
GP01-097	1029.00	21.50	1007.50										
GP01-098	1028.90	25.30	1003.60										
GP01-099	1028.90	21.60	1007.30										
GP01-100	1028.70	17.00	1011.70										
GP01-101	1028.90	18.00	1010.90										
GP01-102	1028.90	18.50	1010.40										
GP01-103	1028.90	18.00	1010.90										
GP01-104	1028.90	18.40	1010.50										
GP01-105	1026.29	17.50	1008.79										
GP01-106	1027.42	14.00	1013.42										
GP01-107	1024.55	16.50	1008.05										
GP01-108	1023.11												
GP01-109	1025.50												
GP01-110	1024.60												
GP01-111	1023.50												
GP01-112	1027.70	16.50	1011.20										
GP01-113	1028.30	18.00	1010.30										
GP01-114	1027.70	17.00	1010.70										
GP01-115	1027.60	16.50	1011.10										
GP01-116	1025.90	15.50	1010.40										
GP01-117	1025.90	15.00	1010.90										
GP01-118	1030.60	16.00	1014.60										
GP01-119	1031.50	19.50	1012.00										
GP01-120	1030.00	18.50	1011.50										
GP01-121	1028.60	20.50	1008.10										
GP01-122	1028.80	21.50	1007.30										
GP01-123	1028.90	23.00	1005.90										
GP01-124	1023.71	20.00	1003.71										
GP01-125	1024.00	20.00	1004.00										
GP01-126	1025.44	22.00	1003.44										
GP01-127	1026.78	18.00	1008.78										
GP01-128	1025.83	18.00	1007.83										
GP01-129	1026.38	13.50	1012.88										
GP01-130	1025.78	13.00	1012.78										
GP01-131	1025.07	14.00	1011.07										
GP01-132	1026.22	16.00	1010.22										
GP01-133	1026.37	16.00	1010.37										
GP01-134	1025.38	17.00	1008.38										
GP01-135	1025.97												
GP01-136	1029.71												
GP01-137	1028.04	17.50	1010.54										

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TABLE 7: Site Geologic Model Data

Location ID	Surface	Cedarville Formation		Springfield Formation		Euphemia Formation		Massie Formation		Laurel Formation		Osgood Formation	
	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl
GP01-138	1028.85												
GP01-139	1028.86	23.70	1005.16										
GP01-140	1028.76												
GP01-141	1028.88	23.50	1005.38										
GP01-142	1028.85	23.00	1005.85										
GP01-143	1028.85	24.20	1004.65										
GP01-144	1028.94	23.00	1005.94										
GP01-145	1028.90	23.00	1005.90										
GP01-146	1028.57	11.50	1017.07										
GP01-147	1027.91	13.50	1014.41										
GP01-148	1027.55												
GP01-149	1027.68	16.00	1011.68										
GP01-150	1026.01	23.50	1002.51										
GP01-151	1024.40	20.00	1004.40										
GP01-152	1024.80	15.00	1009.80										
GP01-153	1027.60	13.00	1014.60										
GP01-154	1027.10	16.00	1011.10										
GP01-155	1027.50	16.00	1011.50										
GP01-156	1027.40	17.00	1010.40										
GP01-157	1027.20	19.00	1008.20										
GP01-158	1026.30	20.00	1006.30										
GP01-159	1027.00	23.00	1004.00										
GP01-160	1024.80	22.60	1002.20										
GP01-161	1023.40	21.20	1002.20										
GP01-162	1022.30	20.90	1001.40										
GP01-163	1023.10	22.90	1000.20										
GP01-164	1026.20	16.60	1009.60										
GP01-165	1026.30	15.60	1010.70										
GP01-166	1028.90	21.20	1007.70										
GP01-167	1027.20												
GP01-168	1027.40	16.50	1010.90										
GP01-169	1027.10	16.50	1010.60										
GP01-170	1029.60	15.50	1014.10										
GP01-171	1028.70	17.75	1010.95										
GP01-172	1026.60	17.00	1009.60										
GP01-173	1026.20	19.75	1006.45										
GP02-001	1025.23	11.00	1014.23										
GP02-002	1025.29	13.70	1011.59										
GP02-003	1026.05	15.00	1011.05										
GP02-004	1027.99	15.70	1012.29										
GP02-005	1029.65	19.60	1010.05										
GP02-006	1031.27	20.80	1010.47										
GP02-007	1032.78	21.50	1011.28										
GP02-008	1032.52	21.50	1011.02										
GP02-009	1032.08	19.20	1012.88										

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TABLE 7: Site Geologic Model Data

Location ID	Surface	Cedarville Formation		Springfield Formation		Euphemia Formation		Massie Formation		Laurel Formation		Osgood Formation	
	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl
GP02-010	1028.14	16.00	1012.14										
GP02-011	1027.01	14.70	1012.31										
GP02-012	1026.29	14.60	1011.69										
GP02-013	1026.22	15.50	1010.72										
GP02-014	1025.98	16.40	1009.58										
GP02-015	1023.78	16.00	1007.78										
GP02-016	1022.16	14.30	1007.86										
GP02-017	1020.17	13.50	1006.67										
GP02-018	1018.93	13.00	1005.93										
GP02-019	1018.77	14.40	1004.37										
GP02-020	1020.50	13.00	1007.50										
GP02-021	1018.20	13.00	1005.20										
GP02-022	1017.73	11.00	1006.73										
GP02-023	1017.61	11.30	1006.31										
GP02-024	1018.38	11.00	1007.38										
GP02-025	1019.19	12.70	1006.49										
GP02-026	1019.14	13.80	1005.34										
GP02-027	1019.80	14.80	1005.00										
GP02-028	1020.90	13.60	1007.30										
GP02-029	1024.70	16.40	1008.30										
GP02-030	1022.62	12.00	1010.62										
GP02-031	1022.06	11.00	1011.06										
GP02-032	1032.37	24.70	1007.67										
GP02-032A	1032.37	25.20	1007.17										
GP02-033	1028.85	23.50	1005.35										
GP02-033A	1028.85	24.00	1004.85										
GP02-034	1025.69	22.80	1002.89										
GP02-034A	1025.69	23.30	1002.39										
GP02-035	1025.02	19.30	1005.72										
GP02-035A	1025.02	19.80	1005.22										
GP02-036	1025.07	21.00	1004.07										
GP02-037	1025.44	22.00	1003.44										
GP02-038	1024.90	19.50	1005.40										
GP02-039	1023.80	18.20	1005.60										
GP02-040	1025.16	17.30	1007.86										
GP02-041	1028.99	19.00	1009.99										
GP02-042	1016.60												
GP02-043	1017.28												
GP02-044	1018.57												
GP02-045	1020.22												
GP02-046	1021.99												
GP02-047	1021.52												
GP02-048	1022.48												
GP02-049	1023.27												
GP02-050	1022.54												

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TABLE 7: Site Geologic Model Data

Location ID	Surface	Cedarville Formation		Springfield Formation		Euphemia Formation		Massie Formation		Laurel Formation		Osgood Formation	
	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl
GP02-051	1023.70												
GP02-052	1024.38												
GP02-053	1022.39												
GP02-054	1023.27												
GP02-055	1032.70	19.00	1013.70										
GP02-056	1019.00	12.75	1006.25										
GP02-057	1018.90	12.50	1006.40										
GP02-058	1017.00	12.50	1004.50										
GP02-059	1016.70	12.50	1004.20										
GP02-060	1016.40	13.50	1002.90										
GP02-061	1016.60	14.00	1002.60										
GP02-062	1016.40	14.00	1002.40										
GP02-063	1019.40	17.00	1002.40										
GP02-064	1020.60	20.00	1000.60										
GP02-065	1022.10	21.00	1001.10										
GP02-066	1026.20	24.00	1002.20										
GP02-067	1023.00	24.00	999.00										
GP02-068	1023.80	21.00	1002.80										
GP02-069	1024.90	23.50	1001.40										
GP02-070	1020.90	21.20	999.70										
GP02-071	1021.30	21.00	1000.30										
GP02-072	1021.90	20.00	1001.90										
GP02-073	1023.20	24.50	998.70										
GP02-074	1023.80	21.00	1002.80										
GP02-075	1024.70	17.50	1007.20										
GP02-076	1025.30	16.50	1008.80										
GP02-077	1027.20	16.50	1010.70										
GP02-078	1031.50	19.50	1012.00										
GP02-079	1032.50	20.00	1012.50										
GP02-080	1029.80	16.00	1013.80										
GP02-081	1030.70	17.50	1013.20										
GP02-082	1032.60	18.00	1014.60										
GP02-083	1030.70	16.50	1014.20										
GP02-084	1025.81	17.00	1008.81										
GP02-085	1026.50	17.00	1009.50										
GP02-086	1027.46	16.00	1011.46										
GP02-087	1029.25	16.50	1012.75										
GP02-088	1024.80	25.70	999.10										
GP02-089	1025.10	23.50	1001.60										
GP02-090	1024.97	23.50	1001.47										
GP02-091	1023.84	20.70	1003.14										
GP02-092	1025.07	21.50	1003.57										
GP02-093	1025.42	21.50	1003.92										
GP02-094	1033.29	20.50	1012.79										
GP02-095	1033.78	21.50	1012.28										

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TABLE 7: Site Geologic Model Data

Location ID	Surface	Cedarville Formation		Springfield Formation		Euphemia Formation		Massie Formation		Laurel Formation		Osgood Formation	
	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl
GP02-096	1024.10	20.00	1004.10										
GP02-097	1024.90	24.20	1000.70										
GP02-098	1026.20	19.80	1006.40										
GP02-099	1022.10	23.60	998.50										
GP02-100	1022.80	24.00	998.80										
GP02-101	1022.70	23.10	999.60										
GP02-102	1022.30	24.00	998.30										
GP02-103	1023.00	22.00	1001.00										
GP02-104	1022.90	23.00	999.90										
GP02-105	1022.90	22.50	1000.40										
GP02-106	1031.10	24.00	1007.10										
MW01-01	1025.24	17.00	1008.24										
MW01-02	1027.13	16.00	1011.13										
MW01-02CD	1027.23	15.50	1011.73										
MW01-02SE	1029.25	18.60	1010.65	80.00	949.25	87.40	941.85	94.00	935.25	100.00	929.25	104.50	924.75
MW01-03	1025.81	12.20	1013.61										
MW01-03CD	1025.70	13.50	1012.20										
MW01-04	1027.26	18.00	1009.26										
MW01-04CD	1027.30	18.00	1009.30										
MW01-04SE	1026.95	16.00	1010.95	82.00	944.95	88.50	938.45	97.00	929.95				
MW01-05	1026.74	22.00	1004.74										
MW01-05CD	1023.60	20.00	1003.60										
MW01-06	1026.33	14.70	1011.63										
MW01-07	1030.50	17.00	1013.50										
MW01-08	1031.50	15.80	1015.70										
MW01-09	1022.50	21.20	1001.30										
MW01-10	1026.44	22.00	1004.44										
MW01-11	1025.90	16.60	1009.30										
MW01-12	1025.27												
MW01-13	1023.35												
MW01-14	1026.25	18.50	1007.75										
MW02-01	1025.37	13.70	1011.67										
MW02-02	1029.69	19.60	1010.09										
MW02-03	1032.04	19.20	1012.84										
MW02-03CD	1032.14												
MW02-03SE	1032.12	20.00	1012.12	96.00	936.12	101.50	930.62	109.00	923.12	114.50	917.62		
MW02-04	1026.29	14.60	1011.69										
MW02-04CD	1027.35												
MW02-05	1026.05	16.40	1009.65										
MW02-05CD	1025.91												
MW02-06	1022.16	14.30	1007.86										
MW02-06CD	1021.86	12.00	1009.86	79.00	942.86	87.00	934.86	95.00	926.86				
MW02-07	1019.10	13.00	1006.10										
MW02-08	1025.80												
MW02-08CD	1025.42												

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TABLE 7: Site Geologic Model Data

Location ID	Surface	Cedarville Formation		Springfield Formation		Euphemia Formation		Massie Formation		Laurel Formation		Osgood Formation	
	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl
MW02-08SE	1025.61	17.00	1008.61	87.00	938.61	94.50	931.11	101.00	924.61	107.00	918.61		
MW02-09	1019.10	13.00	1006.10										
MW02-10	1018.14	13.00	1005.14										
MW02-10CD	1018.29												
MW02-11	1025.70												
MW02-11SE	1025.50	21.00	1004.50	87.00	938.50	95.00	930.50	103.00	922.50	109.00	916.50		
MW02-12	1020.22												
MW02-13	1032.70	19.00	1013.70										
MW02-14	1029.41												
MW02-14CD	1029.46	17.00	1012.46	90.00	939.46	97.00	932.46	104.50	924.96				
MW02-15	1016.90												
MW02-15CD	1016.77	12.00	1004.77	72.00	944.77	79.00	937.77	86.00	930.77				
MW02-16	1022.22												
MW02-16CD	1021.93	11.50	1010.43	72.00	949.93	83.50	938.43	90.50	931.43	97.00	924.93		
MW02-17	1026.12												
MW02-17CD	1026.35	24.00	1002.35										
MW02-18	1033.73												
MW02-18CD	1033.60	21.50	1012.10			96.00	937.60	103.50	930.10				
MW02-759 Dayton Street	1023.50	16.00	1007.50										
MW02-860 Dayton Street	1025.50												
RW01-01	1025.50	17.50	1008.00										
RW01-02	1025.60	17.20	1008.40										
RW01-03	1025.40	16.30	1009.10										
RW01-04	1025.70	16.40	1009.30										
RW01-04 CONF	1025.70												
RW01-05	1027.50	19.00	1008.50										
RW01-06	1025.90												
SA-01	1024.37												
SA-02	1024.48												
SA-03	1022.75												
SA-04	1025.75												
SA-05	1025.56												
SA-06	1025.40												
SA-07	1025.04												
SED02-01	1006.60												
SED02-02	1005.80												
SED02-03	1003.90												
SED02-04	1003.50												
SED02-05	1003.20												
SED02-06	994.50												
SEPTIC TANK NW	1025.60												
SEPTIC TANK SE	1025.60												
ST01-01	1022.06												
ST01-02	1023.96												
ST01-03	1023.91												

TABLE 7: Site Geologic Model Data

Location ID	Surface	Cedarville Formation		Springfield Formation		Euphemia Formation		Massie Formation		Laurel Formation		Osgood Formation	
	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl
ST01-04	1023.60												
ST01-05	1027.08												
ST01-06	1024.38												
ST01-07	1022.75												
ST02-01	1026.44												
ST02-02	1024.91												
ST02-03	1023.43												
ST02-04	1013.52												
ST02-05	1014.05												
ST02-06	1003.20												
ST02-07	994.50												
ST02-08	1025.68												
ST02-09	1003.90												
ST-23	1029.74												
ST-24	1029.42												
ST-25	1029.32												
ST-26	1026.78												
ST-27	1024.86												
ST-28	1025.31												
ST-29	1023.28												
ST-30	1023.55												
Storm-st-1	1025.51												
Storm-st-10	1022.94												
Storm-st-11	1023.43												
Storm-st-12	1021.92												
Storm-st-13	1022.85												
Storm-st-14	1026.38												
Storm-st-15	1026.04												
Storm-st-16	1025.25												
Storm-st-17	1024.57												
Storm-st-18	1025.36												
Storm-st-19	1025.54												
Storm-st-2	1023.91												
Storm-st-20	1025.28												
Storm-st-21	1024.91												
Storm-st-22	1023.10												
Storm-st-3	1023.60												
Storm-st-4	1027.08												
Storm-st-5	1024.38												
Storm-st-6	1022.75												
Storm-st-7	1023.43												
Storm-st-8	1023.96												
Storm-st-9	1027.38												
STW01-01	1022.39												
STW01-02	1023.53												

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TABLE 7: Site Geologic Model Data

Location ID	Surface	Cedarville Formation		Springfield Formation		Euphemia Formation		Massie Formation		Laurel Formation		Osgood Formation	
	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl
STW01-03	1024.05												
STW01-04	1024.87												
STW01-05	1024.88												
STW01-06	1026.28												
STW01-07	1026.63												
SUMP	1026.15												
VSGP-001	1016.40	13.50	1002.90										
VSGP-002	1016.40	13.20	1003.20										
VSGP-003	1016.40	13.00	1003.40										
VSGP-004	1016.60												
VSGP-005	1016.60	13.50	1003.10										
VSGP-006	1016.40												
VSGP-007	1016.60												
VSGP-008	1016.60												
VSGP-009	1016.60	14.50	1002.10										
VSGP-010	1017.28												
VSGP-011	1018.57	15.40	1003.17										
VSGP-012	1020.22												
WW01-Vernay Plant 2	1027.70												
WW02-195 Park Meadows	1016.62	21.00	995.62										
WW02-324 Dayton Street	1038.34												
WW02-420 East Enon	1031.56												
WW02-545 Dayton Street	1016.99												
WW02-550 Green Street	1023.10												
WW02-685 Wright Street	1026.61												
WW02-690 Wright Street	1027.17												
WW02-775 Dayton Street	1023.38												
WW02-780 Dayton Street	1021.20												
WW02-850 Dayton Street	1025.54												
WW02-860 Dayton Street South	1025.75												
WW02-Miami TWP Garage	1016.40												
YS-1	845.00												
YS-2R	845.00												
YS-3R	845.00												
YS-4	853.00												
YSIMW-04D	1002.55									57.00	945.55	62.00	940.55
YSIMW-04I	1003.05			34.00	969.05	43.00	960.05	52.00	951.05				
YSIMW-04S	1004.10	10.00	994.10										
YSIMW-05S	1009.86												
YSIMW-06S	1008.42												
YSIMW-07D	1003.59									51.00	952.59	57.00	946.59
YSIMW-071	1003.98			26.00	977.98	36.00	967.98	46.00	957.98				
YSIMW-07S	1003.55	19.00	984.55										
YSIMW-08S	1006.16												
YSIMW-09D	1003.83									56.00	947.83	62.00	941.83

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TABLE 7: Site Geologic Model Data

Location ID	Surface	Cedarville Formation		Springfield Formation		Euphemia Formation		Massie Formation		Laurel Formation		Osgood Formation	
	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl	fbgs	famsl
YSIMW-09I	1003.45			34.00	969.45	42.00	961.45	50.00	953.45				
YSIMW-09S	1003.19	20.00	983.19										
YSIMW-10D	987.23												
YSIMW-10I	986.97			17.00	969.97	23.00	963.97	31.00	955.97	36.00	950.97	41.00	945.97
YSIMW-10S	987.46	10.90	976.56										
YSIMW-11D	1002.15									46.00	956.15	52.00	950.15
YSIMW-11I	1002.18			22.00	980.18	33.00	969.18	41.00	961.18				
YSIMW-11S	1002.20	12.00	990.20										
YSIMW-13I	995.22												
YSIMW-13S	995.24	24.00	971.24										
YSIMW-14D	975.53												
YSIMW-14aqd	975.21							20.00	955.21	23.00	952.21	27.00	948.21
YSIMW-14I	974.76					5.00	969.76						
YSIMW-15I	1006.37												
YSIMW-15S	1006.23	23.00	983.23										
YSIMW-16S	966.84			11.00	955.84								

fbgs = feet below ground surface
famsl = feet above mean sea level

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Plant 2/3 Facility

Yellow Springs, Ohio

Project No. 0292.11.39

TABLE 8: Areas of Interest (AOIs)

AOI	Description
1	On-Facility Undeveloped/Non-Operational
2N	On-Facility Developed/Non-Operational
2S	On-Facility Developed/Operational
3	Off-Facility Survey Area
3A	Off-Facility Sewers
4	Unnamed Creek
5A	On-Facility Cedarville Aquifer Ground Water
5B	Off-Facility Cedarville Aquifer Ground Water
9	Not in Area of Interest

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Yellow Springs, Ohio
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TABLE 9: List of Contaminants Detected Above the Lowest Screening Criteria by Media

Sampling Media Exceeding Screening Criteria	Chemical Group	Chemical	Industrial Criteria (TR=1E-5 & HQ=1) (mg/kg)	Industrial Soil Volitalization to Indoor Air Criteria (TR=1E-5 & HQ =1) (mg/kg)	Migration to GW (based on Drinking Water) (TR = 1E-5) Criteria (mg/kg)	Residential Criteria (TR=1E-5 & HQ=1) (mg/kg)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)	Construction GCC (TR=E-5 & HQ=1) (mg/L)	Industrial GW Volatilization of Indoor Air (TR=E-5 & HQ=1) (mg/L)	Indoor Air Criteria (TR=E-5 & HQ =1) (mg/m3)
On-Facility Soil	VOC (Update III)	Vinyl Chloride		2.59E-02	8.00E-01					
	VOC (Update III)	Trichloroethene		1.50E+00	2.00E+00					
	VOC (Update III)	Tetrachloroethene	3.40E+01	4.53E-01	2.00E+00					
	VOC (Update III)	Methylene Chloride		2.66E+00	2.00E+00					
	VOC (Update III)	cis-1,2-Dichloroethene		1.98E+00						
	VOC (Update III)	Carbon Tetrachloride		6.44E-02						
	VOC (Update III)	1,2-Dichloropropane	7.40E+00	3.84E-01	2.00E+00					
	VOC (Update III)	1,2-Dichloroethene (total)		1.14E+00						
	VOC (Update III)	1,1,2-Trichloro-1,2,2-trifluoroethane		5.35E+02						
	SVOC	Benzo(a)pyrene	2.10E+00							
	SVOC	Dibenz(a,h)anthracene	2.10E+00							
Off-Facility Soil	VOC (Update III)	Tetrachloroethene	3.40E+01		2.00E+00	1.50E+01				
	VOC (Update III)	Trichloroethene			2.00E+00					
	SVOC	Benzo(a)pyrene	2.10E+00			6.20E-01				
	SVOC	Dibenz(a,h)anthracene				6.20E-01				
On-Facility Storm Sewer Water	VOC	Tetrachloroethene					5.00E-03			
	VOC	Trichloroethene					5.00E-03			
	VOC	cis-1,2-Dichloroethene					7.00E-02			
	VOC	Vinyl Chloride					2.00E-03			
Off-Facility Storm Sewer Water	VOC	Tetrachloroethene					5.00E-03			
	VOC	Trichloroethene					5.00E-03			
Off-Facility Surface Water	VOC	Tetrachloroethene					5.00E-03			
On-Facility Cedarville Aquifer Ground Water	VOC	Tetrachloroethene					5.00E-03	1.33E+01	1.41E+01	
	VOC	Trichloroethene					5.00E-03			
	VOC	cis-1,2-Dichloroethene					7.00E-02			
	VOC	Vinyl Chloride					2.00E-03			
	VOC	1,2-Dichloropropane					5.00E-03			
	VOC	Methylene Chloride					5.00E-03			
	VOC	Benzene					5.00E-03			
	SVOC	bis(2-Ethylhexyl)phthalate					6.00E-03			
	INORG	Chromium (total)					1.00E-01			
	INORG	Iron					1.10E+01			
	INORG	Manganese					8.80E-01			
	INORG	Nitrate					1.00E+01			
Off-Facility Cedarville Aquifer Ground Water	VOC	Tetrachloroethene					5.00E-03			
	VOC	Trichloroethene					5.00E-03			
	VOC	Methylene Chloride					5.00E-03			
On-Facility Indoor Air	VOC	Acrolein								3.5E-05
	VOC	Xylenes (total)								1.8E-01

mg/kg = miligram per kilogram
Blank cells indicate the screening criteria was not exceeded or not applicable

The screening criteria are discussed in the RFI Phase II report, Sections 3.1 to 3.7. A sample by sample comparison of the results to the screening criteria is provided in Appendix VII to the RFI Phase II report. A discussion on the use of the screening criteria for evaluating RFI data quantitatively is provided in the RFI Phase II report, Section 3.7. The potential for human exposure to constituents exceeding a screening criteria is discussed in Section 5.3, and the significance of any potential exposures is discussed in Section 5.5 of the Baseline Human Health Risk Assessment in the RFI Phase II report.

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Plant 2/3 Facility
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TABLE 10: Analytical Sampling Summary for all Media

Sampling Media	AOIs Evaluated	SWMUs Evaluated	AOCs Evaluated	Sampling Matrix	Constituents Sampled	Number of Constituents Analyzed as of Fourth Quarter 2004
Indoor Air	2S	NA	NA	Air	VOCs	826
Surface Water (Unnamed Creek)	4	2	NA	Water	VOCs	1,303
Sediment (Unnamed Creek)	4	NA	NA	Sediment	VOCs	1,398
Soil	1,2N,2S,3,3A	1,2,4,5,6,7,16B,29,39	A,B,C,E,F	Soil	VOCs, SVOCs, PAHs, Metals*, GC, GP	36,715
Storm Sewer Structure	2N,2S,3A	2	NA	Water	VOCs	994
Storm Sewer Backfill	2N,2S,3A	1,2	F	Water	VOCs, SVOCs, PAHs, Metals	2,424
Sanitary Sewer Backfill	2N,2S,3A	1,2	F	Water	VOCs, SVOCs, PAHs, Metals	808
Sand Seam(s)	1,2N,2S,3,3A	1,2,5,6,7,16B,29,39	A,C,D,E,F	Water	VOCs, GC, GP	2,744
Cedarville Aquifer	5A,5B	1,2,4,5,6,7,16B,29,39	A,B,C,E,D,F	Ground Water	VOCs, SVOCs, PAHs, Metals, GC, GP	33,644
						Total = 80,856

AOI = Area of Interest (see Table 8 for definition of each AOI)
SWMU = Solid Waste Management Unit (see Table 14 of Phase I RFI Report for definition of each SWMU)
AOC = Area of Concern (see Table 14 of Phase I RFI Report for definition of each AOC)
NA = Not Applicable
VOCs = Volatile Organic Compounds
SVOCs = Semi-Volatile Organic Compounds
PAHs = Polynuclear Aromatic Hydrocarbons
Metals* = Copper, Arsenic, Zinc
GC = General Chemistry (see Table 6 of Phase I RFI Report for a complete listing of analytes)
GP = Geological Properties (see Table 6 of Phase I RFI Report for a complete listing of analytes)

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Plant 2/3 Facility

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TABLE 11: Post-RFI Sampling Locations

Location ID	Location	Well Type
CW01-01	Vernay Plant 2/3 Facility	Cedarville Aquifer Extraction Well
CW01-02	Vernay Plant 2/3 Facility	Cedarville Aquifer Extraction Well
MW01-01	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Monitoring Well
MW01-03	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Monitoring Well
MW01-03CD	Vernay Plant 2/3 Facility	Middle Cedarville Aquifer Monitoring Well
MW01-04	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Monitoring Well
MW01-04CD	Vernay Plant 2/3 Facility	Middle Cedarville Aquifer Monitoring Well
MW01-04SE	Vernay Plant 2/3 Facility	Lower Cedarville Aquifer Monitoring Well
MW01-07	Vernay Plant 2/3 Facility	Upper Cedarville Aquifer Monitoring Well
MW02-03	Omar Circle	Upper Cedarville Aquifer Monitoring Well
MW02-03CD	Omar Circle	Middle Cedarville Aquifer Monitoring Well
MW02-04	Wright Street	Upper Cedarville Aquifer Monitoring Well
MW02-04CD	Wright Street	Middle Cedarville Aquifer Monitoring Well
MW02-08	825 Dayton Street	Upper Cedarville Aquifer Monitoring Well
MW02-08CD	825 Dayton Street	Middle Cedarville Aquifer Monitoring Well
MW02-10	Green Street	Upper Cedarville Aquifer Monitoring Well
MW02-10CD	Green Street	Middle Cedarville Aquifer Monitoring Well
MW02-11	825 Dayton Street	Upper Cedarville Aquifer Monitoring Well
MW02-14	WS College Street	Upper Cedarville Aquifer Monitoring Well
MW02-14CD	WS College Street	Middle Cedarville Aquifer Monitoring Well
MW02-15	Green Street	Upper Cedarville Aquifer Monitoring Well
MW02-15CD	Green Street	Middle Cedarville Aquifer Monitoring Well
MW02-17	825 Dayton Street	Upper Cedarville Aquifer Monitoring Well
MW02-17CD	825 Dayton Street	Middle Cedarville Aquifer Monitoring Well
ST02-05	Dayton Street	Surface Water - Storm Sewer Outfall to Unnamed Creek

Table 12: On-Facility Soil Screening Results - AOI 1
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Industrial Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect to Industrial Criteria	Occupational Soil Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to Occ Soil Vol Indoor Air Criteria	Industrial Soil Volatilization to Indoor Air Criteria (TR=1E-5 & HQ =1) (mg/kg)		Ratio of Max Detect to Ind Soil Vol Ind Air Criteria	Migration to GW (based on Drinking Water) (TR = 1E-5) Criteria (mg/kg)	Ratio of Site-Related Max Detect to MtGW Criteria
1	VOC	Acetone	67-64-1	ID	57	13	3.70E-03	1.40E-01		6.00E+03	NC	2.3E-05	1.35E+06	1.0E-07	2.59E+03	NC	5.4E-05	1.48E+03	9.5E-05
1	VOC	Benzene	71-43-2	A	62	1	2.90E-03	2.90E-03		1.30E+01	C	2.2E-04	1.41E+02	2.1E-05	2.31E-01	C	1.3E-02	2.00E+00	1.5E-03
1	VOC	Bromodichloromethane	75-27-4	B2	62					1.80E+01	C				3.27E-01	C		3.20E+01	
1	VOC	Bromoform	75-25-2	B2	62					2.20E+03	C		3.31E+03		2.46E+01	C		3.20E+01	
1	VOC	Bromomethane	74-83-9	D	62					1.30E+01	NC		4.52E+01		8.49E-02	NC		2.04E+01	
1	VOC	2-Butanone	78-93-3	ID	60	5	1.40E-03	1.20E-02		2.70E+04	NC	4.4E-07	4.08E+05	2.9E-08	5.05E+03	NC	2.4E-06	8.80E+03	1.4E-06
1	VOC	Carbon Disulfide	75-15-0		62					1.20E+03	NC		2.64E+02		8.65E+00	NC		1.48E+03	
1	VOC	Carbon Tetrachloride	56-23-5	B2	62	1	1.40E-01	1.40E-01		5.50E+00	C	2.5E-02	1.49E+03	9.4E-05	6.44E-02	C	**2.2E+00**	2.00E+00	7.0E-02
1	VOC	Chlorobenzene	108-90-7	D	62					5.30E+02	NC		7.74E+04		1.94E+01	NC		4.00E+01	
1	VOC	Chloroethane	75-00-3		62					6.50E+01	C		2.77E+04		1.55E+02	NC		6.00E+03	
1	VOC	Chloroform	67-66-3	B2	62	1	2.40E-02	2.40E-02		1.20E+01	NC	2.0E-03	2.29E+03	1.0E-05	8.34E-02	C	2.9E-01	3.20E+01	7.5E-04
1	VOC	Chloromethane	74-87-3	D	62					2.70E+01	C		8.05E+02		1.02E+00	NC		2.08E+01	
1	VOC	Cumene	98-82-8	D	46					2.00E+03	NC		3.12E+03		7.44E+00	NC			
1	VOC	Cyclohexane	110-82-7	ID	46					3.20E+04	NC								
1	VOC	1,2-Dibromo-3-chloropropane	96-12-8	B2	46					6.50E+00	NC				1.48E+00	NC		8.00E-02	
1	VOC	Dibromochloromethane	124-48-1	C	62					2.60E+01	C				5.63E-01	C		3.20E+01	
1	VOC	1,2-Dibromoethane	106-93-4	B2	46					2.80E-01	C				5.34E-02	C		2.00E-02	
1	VOC	1,2-Dichlorobenzene	95-50-1	D	53					4.10E+03	NC		1.78E+05		3.47E+02	NC		2.40E+02	
1	VOC	1,3-Dichlorobenzene	541-73-1	D	53					6.30E+01	NC				4.09E+02	NC		1.32E+01	
1	VOC	1,4-Dichlorobenzene	106-46-7	C	53					7.90E+01	C		4.18E+05		6.04E+00	C		3.00E+01	
1	VOC	Dichlorodifluoromethane	75-71-8		46					3.10E+02	NC		1.89E+04		1.11E+00	NC		2.92E+03	
1	VOC	1,1-Dichloroethane	75-34-3	C	62					1.70E+03	NC		1.05E+04		1.92E+01	NC		1.48E+03	
1	VOC	1,2-Dichloroethane	107-06-2	B2	62	1	1.20E-01	1.20E-01		6.00E+00	C	2.0E-02	3.50E+03	3.4E-05	1.36E-01	C	8.8E-01	2.00E+00	6.0E-02
1	VOC	1,1-Dichloroethene	75-35-4	C	62					4.10E+02	NC		2.23E+02		3.29E+00	NC		2.80E+00	
1	VOC	1,2-Dichloroethene (total)	540-59-0		16					1.50E+02	NC		1.95E+04		1.14E+00	NC		1.48E+02	
1	VOC	cis-1,2-Dichloroethene	156-59-2	D	62	7	9.60E-04	8.70E-02		1.50E+02	NC	5.8E-04	3.07E+04	2.8E-06	1.98E+00	NC	4.4E-02	2.80E+01	3.1E-03
1	VOC	trans-1,2-Dichloroethene	156-60-5		62	1	4.90E-04	4.90E-04		2.30E+02	NC	2.1E-06	1.96E+04	2.5E-08	2.53E+00	NC	1.9E-04	4.00E+01	1.2E-05
1	VOC	1,2-Dichloropropane	78-87-5	B2	62	9	1.80E-03	4.70E+02		7.40E+00	C	**6.4E+01**	2.30E+04	2.0E-02	3.84E-01	NC	**1.2E+03**	2.00E+00	**2.4E+02**
1	VOC	1,3-Dichloropropene (total)	542-75-6	B2	62					1.80E+01	C		5.84E+01		1.31E-01	C		2.68E+00	
1	VOC	Ethyl Benzene	100-41-4	D	62	1	4.60E-04	4.60E-04		7.40E+03	NC	6.2E-08	7.45E+04	6.2E-09	2.50E+02	NC	1.8E-06	2.80E+02	1.6E-06
1	VOC	n-Hexane	110-54-3		16					4.00E+02	NC								
1	VOC	2-Hexanone	591-78-6		62														
1	VOC	Methyl Acetate	79-20-9		46					9.20E+04	NC							1.48E+04	
1	VOC	Methyl tert-butyl ether	1634-04-4		46					1.60E+03	C							8.00E+01	
1	VOC	4-Methyl-2-pentanone	108-10-1	ID	62	2	6.00E-04	8.60E-04		2.80E+03	NC	3.1E-07	2.64E+05	3.3E-09	2.83E+03	NC	3.0E-07	1.16E+03	7.4E-07
1	VOC	Methylcyclohexane	108-87-2		46					8.70E+03	NC								
1	VOC	Methylene Chloride	75-09-2	B2	62	25	1.00E-03	1.60E+01		2.10E+02	C	7.6E-02	2.66E+03	6.0E-03	2.66E+00	C	**6.0E+00**	2.00E+00	**8.0E+00**
1	VOC	Styrene	100-42-5		62					1.80E+04	NC		4.38E+05		1.50E+03	NC		4.00E+01	
1	VOC	1,1,2,2-Tetrachloroethane	79-34-5	C	62					9.30E+00	C		3.64E+04		7.34E-01	C		1.36E+00	
1	VOC	Tetrachloroethene	127-18-4	C-B2	62	10	6.70E-04	2.50E+00		3.40E+01	C	7.4E-02	2.30E+04	1.1E-04	4.53E-01	C	**5.5E+00**	2.00E+00	**1.3E+00**
1	VOC	Toluene	108-88-3	D	62	20	2.70E-04	6.70E-02		2.20E+03	NC	3.0E-05	7.86E+04	8.5E-07	6.09E+01	NC	1.1E-03	4.00E+02	1.7E-04
1	VOC	1,2,4-Trichlorobenzene	120-82-1	D	53					5.60E+03	NC				1.35E+03	NC		2.80E+01	
1	VOC	1,1,1-Trichloroethane	71-55-6	D	62					6.90E+03	NC		5.06E+04		8.55E+01	NC		8.00E+01	
1	VOC	1,1,2-Trichloroethane	79-00-5	C	62					1.60E+01	C		1.00E+04		5.68E-01	C		2.00E+00	
1	VOC	Trichloroethene	79-01-6	C-B2	62	14	7.10E-04	1.60E+00		6.12E+01	C	2.6E-02	3.36E+04	4.8E-05	1.50E+00	C	**1.1E+00**	2.00E+00	8.0E-01
1	VOC	Trichlorofluoromethane	75-69-4		46					1.30E+03	NC		4.77E+04		8.70E+00	NC		4.40E+03	
1	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1		46					6.90E+04	NC		9.28E+04		5.35E+02	NC			
1	VOC	Vinyl Chloride	75-01-4	A	62	1	3.70E-03	3.70E-03		7.50E+00	C	4.9E-04	1.42E+01	2.6E-04	2.59E-02	C	1.4E-01	8.00E-01	4.6E-03
1	VOC	Xylenes (total)	1330-20-7	ID	62	4	1.10E-03	2.40E-03		9.00E+02	NC	2.7E-06	9.25E+04	2.6E-08	3.10E+01	NC	7.7E-05		
1	SVOC	Acenaphthene	83-32-9		54					2.90E+04	NC				5.11E+04	NC			
1	SVOC	Acenaphthylene	208-96-8	D	54	4	3.70E-02	4.40E-01		2.90E+04	NC	1.5E-05			2.43E+04	NC	1.8E-05		
1	SVOC	Acetophenone	98-86-2	D	33								7.73E+05		8.04E+03	NC			
1	SVOC	Anthracene	120-12-7	D	54	6	2.70E-02	2.50E-01		2.40E+05	NC	1.0E-06							
1	SVOC	Atrazine	1912-24-9	C	33					7.80E+01	C							1.20E+00	

Table 12: On-Facility Soil Screening Results - AOI 1
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Industrial Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect to Industrial Criteria	Occupational Soil Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to Occ Soil Vol Indoor Air Criteria	Industrial Soil Volatilization to Indoor Air Criteria (TR=1E-5 & HQ =1) (mg/kg)		Ratio of Max Detect to Ind Soil Vol Ind Air Criteria	Migration to GW (based on Drinking Water) (TR = 1E-5) Criteria (mg/kg)	Ratio of Site-Related Max Detect to MtGW Criteria
1	SVOC	Benzaldehyde	100-52-7		33					6.20E+04	NC							1.48E+03	
1	SVOC	Benzo(a)anthracene	56-55-3	B2	54	28	1.30E-02	4.60E+00		2.10E+01	C	2.2E-01			8.49E+04	C	5.4E-05		
1	SVOC	Benzo(a)pyrene	50-32-8	B2	54	28	1.10E-02	4.50E+00		2.10E+00	C	**2.1E+00**			1.52E+05	C	3.0E-05		
1	SVOC	Benzo(b)fluoranthene	205-99-2	B2	54	30	2.20E-02	4.80E+00		2.10E+01	C	2.3E-01			8.09E+03	C	5.9E-04		
1	SVOC	Benzo(g,h,i)perylene	191-24-2	D	54	21	1.20E-02	2.10E+00		2.90E+04	NC	7.2E-05			6.46E+09	NC	3.3E-10		
1	SVOC	Benzo(k)fluoranthene	207-08-9	B2	54	25	9.10E-03	2.10E+00		2.10E+02	C	1.0E-02			1.08E+07	C	1.9E-07		
1	SVOC	Biphenyl	92-52-4	D	33					2.30E+04	NC								
1	SVOC	bis(2-Chloroethoxy)methane	111-91-1	D	40														
1	SVOC	bis(2-Chloroethyl) ether	111-44-4	B2	40					5.50E+00	C		1.23E+05		5.22E-01	C		2.44E-01	
1	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	40	3	5.50E-02	1.90E-01		1.20E+03	C	1.6E-04	2.71E+12	7.0E-14	5.53E+09	C	3.4E-11	3.62E+03	5.2E-05
1	SVOC	4-Bromophenyl-phenyl ether	101-55-3	D	40														
1	SVOC	Butylbenzylphthalate	85-68-7	C	40					1.20E+05	NC				1.76E+08	NC			
1	SVOC	Caprolactam	105-60-2		33					3.10E+05	NC							7.20E+03	
1	SVOC	Carbazole	86-74-8	B2	40	1	1.80E-01	1.80E-01		8.60E+02	C	2.1E-04			5.73E+06	C	3.1E-08	1.36E+01	1.3E-02
1	SVOC	4-Chloro-3-methylphenol	59-50-7		40														
1	SVOC	4-Chloroaniline	106-47-8		40					2.50E+03	NC				1.60E+04	NC		6.00E+01	
1	SVOC	2-Chloronaphthalene	91-58-7		40					2.30E+04	NC				2.28E+04	NC			
1	SVOC	2-Chlorophenol	95-57-8		40					2.40E+02	NC				9.37E+01	NC		7.20E+01	
1	SVOC	4-Chlorophenyl-phenyl ether	7005-72-3		40														
1	SVOC	Chrysene	218-01-9	B2	54	29	1.40E-02	3.60E+00		2.10E+03	C	1.7E-03			3.06E+05	C	1.2E-05		
1	SVOC	Dibenz(a,h)anthracene	53-70-3	B2	54	12	1.10E-02	1.60E+00		2.10E+00	C	7.6E-01			1.83E+07	C	8.7E-08	1.40E+01	1.1E-01
1	SVOC	Dibenzofuran	132-64-9	D	40					3.10E+03	NC							6.00E+01	
1	SVOC	3,3'-Dichlorobenzidine	91-94-1	B2	40					3.80E+01	C				2.08E+05	C		6.00E-01	
1	SVOC	2,4-Dichlorophenol	120-83-2		40					1.80E+03	NC				2.70E+03	NC		4.40E+01	
1	SVOC	Diethylphthalate	84-66-2	D	40					4.90E+05	NC		1.20E+07		9.83E+06	NC		1.16E+04	
1	SVOC	2,4-Dimethylphenol	105-67-9		40	1	1.50E-01	1.50E-01		1.20E+04	NC	1.3E-05			3.97E+04	NC	3.8E-06	2.92E+02	5.1E-04
1	SVOC	Dimethylphthalate	131-11-3	D	40					6.20E+06	NC		7.00E+06						
1	SVOC	Di-n-butylphthalate	84-74-2	D	40					6.20E+04	NC		6.44E+11						
1	SVOC	4,6-Dinitro-2-methylphenol	534-52-1		40								4.19E+05		1.07E+03	NC			
1	SVOC	2,4-Dinitrophenol	51-28-5		40					1.20E+03	NC							2.92E+01	
1	SVOC	2,4-Dinitrotoluene	121-14-2	B2	40					1.20E+03	NC							2.92E+01	
1	SVOC	2,6-Dinitrotoluene	606-20-2	B2	40					6.20E+02	NC				7.73E+01	C		1.48E+01	
1	SVOC	Di-n-octylphthalate	117-84-0		40	2	6.90E-02	1.60E-01		2.50E+04	NC	6.4E-06							
1	SVOC	Fluoranthene	206-44-0	D	54	32	1.70E-02	1.30E+01		2.20E+04	NC	5.9E-04			5.01E+06	NC	2.6E-06		
1	SVOC	Fluorene	86-73-7	D	54					2.60E+04	NC				1.62E+05	NC			
1	SVOC	Hexachlorobenzene	118-74-1	B2	40					1.10E+01	C		3.03E+02		1.35E+01	C		2.20E+00	
1	SVOC	Hexachlorobutadiene	87-68-3	C	40					1.80E+02	NC		5.10E+03		4.45E+01	C		1.85E+01	
1	SVOC	Hexachlorocyclopentadiene	77-47-4	E	40					3.70E+03	NC		3.12E+03		8.17E+00	NC		4.00E+02	
1	SVOC	Hexachloroethane	67-72-1	C	40					6.20E+02	NC		2.31E+04		2.36E+01	C		1.48E+01	
1	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	B2	54	26	1.70E-02	2.80E+00		2.10E+01	C	1.3E-01			1.59E+06	C	1.8E-06		
1	SVOC	Isophorone	78-59-1	C	40					1.80E+04	C		4.00E+06					2.84E+02	
1	SVOC	1-Methylnaphthalene	90-12-0		14														
1	SVOC	2-Methylnaphthalene	91-57-6	ID	54					1.90E+02	NC							2.92E+02	
1	SVOC	Methylphenol (total)	1319-77-3		40	1	2.60E-02	2.60E-02		3.10E+03	NC	8.4E-06	8.43E+06	3.1E-09	9.79E+04	NC	2.7E-07	7.20E+01	3.6E-04
1	SVOC	Naphthalene	91-20-3	C	54					1.90E+02	NC		7.53E+05		6.60E+01	NC		2.92E+02	
1	SVOC	2-Nitroaniline	88-74-4		40					1.80E+01	NC							4.00E-01	
1	SVOC	3-Nitroaniline	99-09-2	C	40														
1	SVOC	4-Nitroaniline	100-01-6	C	40														
1	SVOC	Nitrobenzene	98-95-3	D	40					1.00E+02	NC		5.27E+04		3.08E+01	NC		7.20E+00	
1	SVOC	2-Nitrophenol	88-75-5		40														
1	SVOC	4-Nitrophenol	100-02-7		40														
1	SVOC	N-Nitrosodiphenylamine	86-30-6	B2	40					3.50E+03	C							5.60E+01	
1	SVOC	N-Nitroso-di-n-propylamine	621-64-7	B2	40					2.50E+00	C				9.71E-01	C		3.84E-02	
1	SVOC	2,2'-oxybis(1-Chloropropane)	108-60-1	C	40					7.40E+01	C							3.84E+00	

Table 12: On-Facility Soil Screening Results - AOI 1
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Industrial Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect to Industrial Criteria	Occupational Soil Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to Occ Soil Vol Indoor Air Criteria	Industrial Soil Volatilization to Indoor Air Criteria (TR=1E-5 & HQ =1) (mg/kg)		Ratio of Max Detect to Ind Soil Vol Ind Air Criteria	Migration to GW (based on Drinking Water) (TR = 1E-5) Criteria (mg/kg)	Ratio of Site-Related Max Detect to MtGW Criteria
1	SVOC	Pentachlorophenol	87-86-5	B2	40					9.00E+01	C		4.42E+07		1.05E+05	C		4.00E-01	
1	SVOC	Phenanthrene	85-01-8	D	54	14	1.70E-02	3.10E+00		2.90E+04	NC	1.1E-04			3.40E+05	NC	9.1E-06		
1	SVOC	Phenol	108-95-2	ID	40					3.70E+05	NC		5.91E+06					8.80E+03	
1	SVOC	Pyrene	129-00-0	D	54	33	2.70E-02	1.80E+01		2.90E+04	NC	6.2E-04			5.41E+06	NC	3.3E-06		
1	SVOC	2,4,5-Trichlorophenol	95-95-4		40					6.20E+04	NC							1.48E+03	
1	SVOC	2,4,6-Trichlorophenol	88-06-2	B2	40					6.20E+01	NC				2.41E+03	C		1.48E+00	
1	P/PCB	PCBs (total)	1336-36-3	B2	7	1	5.50E-02	5.50E-02		7.40E+00	C	7.4E-03	2.80E+05	2.0E-07	4.00E+01	C	1.4E-03	6.18E+00	8.9E-03
1	P/PCB	Aldrin	309-00-2	B2	7					1.00E+00	C		1.38E+07		4.61E+02	C		3.92E+00	
1	P/PCB	alpha-BHC	319-84-6	B2	7					3.60E+00	C				1.01E+01	C		4.40E-02	
1	P/PCB	beta-BHC	319-85-7	C	7					1.30E+01	C				4.98E+02	C		1.48E-01	
1	P/PCB	delta-BHC	319-86-8	D	7														
1	P/PCB	gamma-BHC	58-89-9	B2-C	7					1.70E+01	C		1.47E+05		3.23E+01	C		8.00E-02	
1	P/PCB	Chlordane (total)	57-74-9	B2	7								4.78E+06		3.91E+03	C		9.61E+00	
1	P/PCB	4,4'-DDD	72-54-8	B2	7					1.00E+02	C				5.63E+05	C		1.12E+02	
1	P/PCB	4,4'-DDE	72-55-9	B2	7	1	7.40E-03	7.40E-03		7.00E+01	C	1.1E-04			3.42E+05	C	2.2E-08	3.58E+02	2.1E-05
1	P/PCB	4,4'-DDT	50-29-3	B2	7					7.00E+01	C		1.24E+09		5.24E+05	C			
1	P/PCB	Dieldrin	60-57-1	B2	7					1.10E+00	C		1.37E+06		4.85E+01	C		3.61E-02	
1	P/PCB	Endosulfan	115-29-7		7					3.70E+03	NC		7.43E+04		2.28E+04	NC			
1	P/PCB	Endosulfan sulfate	1031-07-8		7					3.70E+03	NC							8.80E+01	
1	P/PCB	Endrin	72-20-8	D	7					1.80E+02	NC		6.31E+05		9.67E+03	NC		9.92E-01	
1	P/PCB	Endrin aldehyde	7421-93-4		7					1.80E+02	NC				1.01E+04	NC		4.40E+00	
1	P/PCB	Endrin ketone	53494-70-5		7					1.80E+02	NC								
1	P/PCB	Heptachlor	76-44-8	B2	7					3.80E+00	C		2.51E+06		1.58E+02	C		2.26E+01	
1	P/PCB	Heptachlor epoxide	1024-57-3	B2	7					1.90E+00	C		1.68E+06		5.28E+02	C		6.66E-01	
1	P/PCB	Methoxychlor	72-43-5	D	7					3.10E+03	NC		2.35E+08						
1	P/PCB	Toxaphene	8001-35-2	B2	7					1.60E+01	C		8.29E+07		2.12E+04	C		3.09E+01	
1	INORG	Arsenic	7440-38-2	A	22	22	5.50E+00	1.07E+01	1.50E+01	1.60E+01	C							2.92E+01	
1	INORG	Barium	7440-39-3	D	15	15	3.26E+01	1.99E+02	8.29E+01	6.70E+04	NC	1.7E-03						1.65E+03	7.0E-02
1	INORG	Cadmium	7440-43-9	B1	14				1.41E-01	4.50E+02	NC							7.52E+00	
1	INORG	Chromium (total)	7440-47-3		14	14	7.50E+00	1.68E+01	1.93E+01	2.50E+03	NC							4.00E+01	
1	INORG	Copper	7440-50-8	D	8	8	9.80E+00	1.97E+01	2.59E+01	4.10E+04	NC							9.15E+02	
1	INORG	Lead	7439-92-1	B2	14	14	1.12E+01	4.82E+01	1.81E+01	7.50E+02	NC	4.0E-02						2.70E+02	1.1E-01
1	INORG	Mercury	7439-97-6	D	14	1	1.20E-01	1.20E-01		1.36E+01	NC	8.8E-03	2.17E+03	5.5E-05	3.80E+01	NC	3.2E-03	4.00E+01	3.0E-03
1	INORG	Selenium	7782-49-2	D	14	1	8.00E-01	8.00E-01	3.18E-01	5.10E+03	NC	9.4E-05						2.00E+01	2.4E-02
1	INORG	Silver	7440-22-4	D	14					5.10E+03	NC							7.20E+01	
1	INORG	Zinc	7440-66-6	D	8	8	3.10E+01	5.83E+01	7.20E+01	3.10E+05	NC							1.37E+04	
1	HERB	2,4-D	94-75-7		7					7.70E+03	NC		1.61E+09					2.80E+01	
1	HERB	2,4,5-T	93-76-5		7					6.20E+03	NC		7.48E+09					1.48E+02	
1	HERB	2,4,5-TP	93-72-1		7					4.90E+03	NC							2.00E+01	

Table 12: On-Facility Soil Screening Results - AOI 1
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Industrial Criteria (TR=1E-5 & HQ=1) (mg/kg)	Ratio of Site-Related Max Detect to Industrial Criteria	Occupational Soil Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to Occ Soil Vol Indoor Air Criteria	Industrial Soil Volatilization to Indoor Air Criteria (TR=1E-5 & HQ =1) (mg/kg)	Ratio of Max Detect to Ind Soil Vol Ind Air Criteria	Migration to GW (based on Drinking Water) (TR = 1E-5) Criteria (mg/kg)	Ratio of Site-Related Max Detect to MtGW Criteria
	Notes:																
	The Screening Criteria for Pyrene were used as surrogates for Phenanthrene and Benzo(g,h,i)perylene.																
	The Screening Criteria for Phenol were used as surrogates for Phenols (total).																
	The Screening Criteria for Naphthalene were used as surrogates for 2-Methylnaphthalene.																
	The Screening Criteria for cis-1,2-Dichloroethene were used as surrogates for 1,2-Dichloroethene (total).																
	The Screening Criteria for Chromium VI was used as a surrogate for Chromium (total).																
	The concentrations for the Methylphenol (2, 3, & 4) were summed before comparing to the Screening Criteria for 4-Methylphenol.																
	The concentrations for all PCB isomers were summed before comparing to Polychlorinated biphenyls (PCBs) for cancer effects																
	and Aroclor 1254 for noncancer effects.																
	The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.																
	The concentrations for the Chlordane isomers (alpha and gamma) were summed before comparing to the Screening Criteria.																
	The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.																
	The Screening Criteria for Mercury was calculated by ENVIRON to account for the vapor inhalation pathway using:																
	EPA Region 9 equations, RfC from IRIS, and chemical properties from EPA's Soil Screening Guidance.																
	The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.																
	For the Ratio of Max Site-Related Detect to Industrial Criteria the ratios of metals concentrations to the screening criteria include only site-related contributions																
	For the Ratio of Max Site-Related Detect to Migration to Ground Water Criteria the ratios of metals concentrations to the screening criteria include only site-related contributions																
	c - The Screening Criterion is based on cancer risk.																
	nc - The Screening Criterion is based on noncancer effects.																
	Chem Group - Chemical Group																
	Carc Class - EPA Weight-of-Evidence Cancer Classification																

Table 13: On-Facility Unconsolidated Unit Water Screening Results - AOI 1
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria	Occupational GW Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to OCC GW Vol to Indoor Air Criteria	Industrial GW Volatilization to Indoor Air (TR=E-5 or HQ=1) (mg/L)		Ratio of Max Detect to Industrial GW Vol to Indoor Air Criteria
1	VOC	Acetone	67-64-1	T	ID	2				6.26E+03	NC		4.98E+07		9.55E+04	NC	
1	VOC	Benzene	71-43-2	T	A	4	2	2.20E-04	5.10E-04	4.53E+00	C	1.1E-04	3.65E+03	1.4E-07	5.99E+00	C	8.5E-05
1	VOC	Bromodichloromethane	75-27-4	T	B2	4				3.20E+00	C				4.91E+00	C	
1	VOC	Bromoform	75-25-2	T	B2	4				6.78E+01	C		2.61E+04		1.94E+02	C	
1	VOC	Bromomethane	74-83-9	T	D	4				3.01E+00	NC		3.81E+03		7.16E+00	NC	
1	VOC	2-Butanone	78-93-3	T	ID	3				8.04E+03	NC		9.47E+06		1.17E+05	NC	
1	VOC	Carbon Disulfide	75-15-0	T		4				3.49E+02	NC		2.43E+04		7.97E+02	NC	
1	VOC	Carbon Tetrachloride	56-23-5	T	B2	4	2	1.30E-03	3.20E-03	2.93E+00	C	1.1E-03	5.67E+04	5.6E-08	2.46E+00	C	1.3E-03
1	VOC	Chlorobenzene	108-90-7	T	D	4				3.65E+01	NC		5.03E+05		1.26E+02	NC	
1	VOC	Chloroethane	75-00-3	T		4				2.09E+03	C		2.00E+06		1.12E+04	NC	
1	VOC	Chloroform	67-66-3	T	B2	2				2.11E+00	C		6.01E+04		2.19E+00	C	
1	VOC	Chloromethane	74-87-3	T	D	4				4.00E+01	NC		1.39E+05		1.77E+02	NC	
1	VOC	Cumene	98-82-8	T	D	4				1.89E+02	NC		1.68E+05		4.01E+02	NC	
1	VOC	Cyclohexane	110-82-7	T	ID	4	2	5.90E-04	1.90E-03	3.39E+03	NC	5.6E-07	7.00E+05	2.7E-09	5.84E+03	NC	3.3E-07
1	VOC	1,2-Dibromo-3-chloropropane	96-12-8	T	B2	4				3.21E-01	NC				2.28E+00	NC	
1	VOC	Dibromochloromethane	124-48-1	T	C	4				2.83E+00	C				6.15E+00	C	
1	VOC	1,2-Dibromoethane	106-93-4	T	B2	4				9.11E-02	C				5.16E-01	C	
1	VOC	1,2-Dichlorobenzene	95-50-1	T	D	4				1.35E+02	NC		2.90E+05		5.63E+02	NC	
1	VOC	1,3-Dichlorobenzene	541-73-1	T	D	4				8.18E+01	NC				3.36E+02	NC	
1	VOC	1,4-Dichlorobenzene	106-46-7	T	C	4				6.78E+00	C		7.97E+05		1.15E+01	C	
1	VOC	Dichlorodifluoromethane	75-71-8	T		4				1.34E+02	NC		3.46E+06		2.04E+02	NC	
1	VOC	1,1-Dichloroethane	75-34-3	T	C	4				3.00E+02	NC		4.46E+05		8.14E+02	NC	
1	VOC	1,2-Dichloroethane	107-06-2	T	B2	4				1.81E+00	C		8.35E+04		3.24E+00	C	
1	VOC	1,1-Dichloroethene	75-35-4	T	C	4				1.16E+02	NC		1.56E+04		2.30E+02	NC	
1	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	4	2	2.20E-03	6.10E-03	2.11E+01	NC	2.9E-04	9.22E+05	6.6E-09	5.94E+01	NC	1.0E-04
1	VOC	trans-1,2-Dichloroethene	156-60-5	T		4				4.12E+01	NC		7.13E+05		9.19E+01	NC	
1	VOC	1,2-Dichloropropane	78-87-5	T	B2	4	2	8.60E-04	7.30E-03	2.72E+00	NC	2.7E-03	5.40E+05	1.4E-08	9.01E+00	NC	8.1E-04
1	VOC	1,3-Dichloropropene (total)	542-75-6	T	B2	4				9.00E+00	C		4.18E+03		9.41E+00	C	
1	VOC	Ethyl Benzene	100-41-4	T	D	4	1	4.50E-04	4.50E-04	4.18E+02	NC	1.1E-06	5.59E+05	8.0E-10	1.88E+03	NC	2.4E-07
1	VOC	2-Hexanone	591-78-6	T		4				3.29E+00	NC		1.69E+05		3.01E+00	NC	
1	VOC	Methyl Acetate	79-20-9	T		4				7.84E+04	NC		2.06E+08		1.72E+06	NC	
1	VOC	Methyl tert-butyl ether	1634-04-4	T		4				4.15E+02	C		5.04E+05		1.14E+03	C	
1	VOC	4-Methyl-2-pentanone	108-10-1	T	ID	4				3.43E+03	NC		3.43E+06		3.66E+04	NC	
1	VOC	Methylcyclohexane	108-87-2	T		4	2	2.50E-04	7.70E-04	1.83E+03	NC	4.2E-07	1.30E+06	5.9E-10	2.84E+03	NC	2.7E-07
1	VOC	Methylene Chloride	75-09-2	T	B2	4				8.29E+01	C		1.15E+05		1.16E+02	C	
1	VOC	Styrene	100-42-5	T		4				5.41E+02	NC		7.14E+05		2.45E+03	NC	
1	VOC	1,1,2,2-Tetrachloroethane	79-34-5	T	C	4				1.19E+00	C		1.55E+05		3.13E+00	C	
1	VOC	Tetrachloroethene	127-18-4	T	C-B2	4	3	1.60E-04	8.20E-02	1.33E+01	C	6.2E-03	7.14E+05	1.1E-07	1.41E+01	C	5.8E-03
1	VOC	Toluene	108-88-3	T	D	4	4	5.70E-04	1.50E-03	2.26E+02	NC	6.6E-06	9.12E+05	1.6E-09	7.07E+02	NC	2.1E-06
1	VOC	1,2,4-Trichlorobenzene	120-82-1	T	D	4				4.23E+01	NC				7.51E+02	NC	
1	VOC	1,1,1-Trichloroethane	71-55-6	T	D	4				1.37E+03	NC		1.89E+06		3.19E+03	NC	
1	VOC	1,1,2-Trichloroethane	79-00-5	T	C	4				3.35E+00	C		1.08E+05		6.14E+00	C	
1	VOC	Trichloroethene	79-01-6	T	C-B2	4	3	9.40E-04	7.20E-02	2.50E+01	C	2.9E-03	5.73E+05	1.3E-07	2.57E+01	C	2.8E-03
1	VOC	Trichlorofluoromethane	75-69-4	T		4				4.83E+02	NC		3.88E+06		7.09E+02	NC	

Table 13: On-Facility Unconsolidated Unit Water Screening Results - AOI 1
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria	Occupational GW Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to OCC GW Vol to Indoor Air Criteria	Industrial GW Volatilization to Indoor Air (TR=E-5 or HQ=1) (mg/L)		Ratio of Max Detect to Industrial GW Vol to Indoor Air Criteria
1	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	T		4				2.43E+04	NC		5.00E+06		2.88E+04	NC	
1	VOC	Vinyl Chloride	75-01-4	T	A	4				1.94E+00	C		1.70E+03		3.10E+00	C	
1	VOC	Xylenes (total)	1330-20-7	T	ID	4	1	8.30E-04	8.30E-04	6.28E+01	NC	1.3E-05	5.27E+05	1.6E-09	1.77E+02	NC	4.7E-06

Notes:

The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.

The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.

The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.

c - The Screening Criterion is based on cancer risk.

nc - The Screening Criterion is based on noncancer effects.

Chem Group - Chemical Group

Meas Basis - Measured Basis; T = Total, D = Dissolved

Carc Class - EPA Weight-of-Evidence Cancer Classification

Table 14: On-Facility Soil Screening Results - AOI 2N
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Industrial Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect Detect to Industrial Criteria	Occupational Soil Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to Occ Soil Vol Indoor Air Criteria	Industrial Soil Volatilization to Indoor Air Criteria (TR=1E-5 & HQ =1) (mg/kg)		Ratio of Max Detect to Ind Soil Vol Ind Air Criteria	Migration to GW (based on Drinking Water) (TR = 1E-5) Criteria (mg/kg)	Ratio of Site-Related Max Detect to MtGW Criteria
2N	VOC	Acetone	67-64-1	ID	61	16	2.70E-03	2.10E-02		6.00E+03	NC	3.5E-06	1.35E+06	1.6E-08	2.59E+03	NC	8.1E-06	1.48E+03	1.4E-05
2N	VOC	Benzene	71-43-2	A	67					1.30E+01	C		1.41E+02		2.31E-01	C		2.00E+00	
2N	VOC	Bromodichloromethane	75-27-4	B2	67					1.80E+01	C				3.27E-01	C		3.20E+01	
2N	VOC	Bromoform	75-25-2	B2	67					2.20E+03	C		3.31E+03		2.46E+01	C		3.20E+01	
2N	VOC	Bromomethane	74-83-9	D	67					1.30E+01	NC		4.52E+01		8.49E-02	NC		2.04E+01	
2N	VOC	2-Butanone	78-93-3	ID	66	9	8.50E-04	8.90E-03		2.70E+04	NC	3.3E-07	4.08E+05	2.2E-08	5.05E+03	NC	1.8E-06	8.80E+03	1.0E-06
2N	VOC	Carbon Disulfide	75-15-0		67	3	6.20E-04	1.50E-03		1.20E+03	NC	1.3E-06	2.64E+02	5.7E-06	8.65E+00	NC	1.7E-04	1.48E+03	1.0E-06
2N	VOC	Carbon Tetrachloride	56-23-5	B2	67					5.50E+00	C		1.49E+03		6.44E-02	C		2.00E+00	
2N	VOC	Chlorobenzene	108-90-7	D	67					5.30E+02	NC		7.74E+04		1.94E+01	NC		4.00E+01	
2N	VOC	Chloroethane	75-00-3		67					6.50E+01	C		2.77E+04		1.55E+02	NC		6.00E+03	
2N	VOC	Chloroform	67-66-3	B2	67					1.20E+01	NC		2.29E+03		8.34E-02	C		3.20E+01	
2N	VOC	Chloromethane	74-87-3	D	67					2.70E+01	C		8.05E+02		1.02E+00	NC		2.08E+01	
2N	VOC	Cumene	98-82-8	D	58					2.00E+03	NC		3.12E+03		7.44E+00	NC			
2N	VOC	Cyclohexane	110-82-7	ID	58					3.20E+04	NC								
2N	VOC	1,2-Dibromo-3-chloropropane	96-12-8	B2	58					6.50E+00	NC				1.48E+00	NC		8.00E-02	
2N	VOC	Dibromochloromethane	124-48-1	C	67					2.60E+01	C				5.63E-01	C		3.20E+01	
2N	VOC	1,2-Dibromoethane	106-93-4	B2	58					2.80E-01	C				5.34E-02	C		2.00E-02	
2N	VOC	1,2-Dichlorobenzene	95-50-1	D	66					4.10E+03	NC		1.78E+05		3.47E+02	NC		2.40E+02	
2N	VOC	1,3-Dichlorobenzene	541-73-1	D	66					6.30E+01	NC				4.09E+02	NC		1.32E+01	
2N	VOC	1,4-Dichlorobenzene	106-46-7	C	66					7.90E+01	C		4.18E+05		6.04E+00	C		3.00E+01	
2N	VOC	Dichlorodifluoromethane	75-71-8		58					3.10E+02	NC		1.89E+04		1.11E+00	NC		2.92E+03	
2N	VOC	1,1-Dichloroethane	75-34-3	C	67					1.70E+03	NC		1.05E+04		1.92E+01	NC		1.48E+03	
2N	VOC	1,2-Dichloroethane	107-06-2	B2	67					6.00E+00	C		3.50E+03		1.36E-01	C		2.00E+00	
2N	VOC	1,1-Dichloroethene	75-35-4	C	67	1	2.10E-03	2.10E-03		4.10E+02	NC	5.1E-06	2.23E+02	9.4E-06	3.29E+00	NC	6.4E-04	2.80E+00	7.5E-04
2N	VOC	1,2-Dichloroethene (total)	540-59-0		9					1.50E+02	NC		1.95E+04		1.14E+00	NC		1.48E+02	
2N	VOC	cis-1,2-Dichloroethene	156-59-2	D	67	9	4.40E-04	6.90E-02		1.50E+02	NC	4.6E-04	3.07E+04	2.2E-06	1.98E+00	NC	3.5E-02	2.80E+01	2.5E-03
2N	VOC	trans-1,2-Dichloroethene	156-60-5		67	1	1.00E-03	1.00E-03		2.30E+02	NC	4.3E-06	1.96E+04	5.1E-08	2.53E+00	NC	4.0E-04	4.00E+01	2.5E-05
2N	VOC	1,2-Dichloropropane	78-87-5	B2	67	1	2.20E-03	2.20E-03		7.40E+00	C	3.0E-04	2.30E+04	9.6E-08	3.84E-01	NC	5.7E-03	2.00E+00	1.1E-03
2N	VOC	1,3-Dichloropropene (total)	542-75-6	B2	67					1.80E+01	C		5.84E+01		1.31E-01	C		2.68E+00	
2N	VOC	Ethyl Benzene	100-41-4	D	67					7.40E+03	NC		7.45E+04		2.50E+02	NC		2.80E+02	
2N	VOC	n-Hexane	110-54-3		9					4.00E+02	NC								
2N	VOC	2-Hexanone	591-78-6		67														
2N	VOC	Methyl Acetate	79-20-9		58	2	5.60E-02	6.30E-02		9.20E+04	NC	6.8E-07						1.48E+04	4.3E-06
2N	VOC	Methyl tert-butyl ether	1634-04-4		58					1.60E+03	C							8.00E+01	
2N	VOC	4-Methyl-2-pentanone	108-10-1	ID	67	3	9.90E-04	9.30E-03		2.80E+03	NC	3.3E-06	2.64E+05	3.5E-08	2.83E+03	NC	3.3E-06	1.16E+03	8.0E-06
2N	VOC	Methylcyclohexane	108-87-2		58					8.70E+03	NC								
2N	VOC	Methylene Chloride	75-09-2	B2	67	11	3.60E-03	2.70E-01		2.10E+02	C	1.3E-03	2.66E+03	1.0E-04	2.66E+00	C	1.0E-01	2.00E+00	1.4E-01
2N	VOC	Styrene	100-42-5		67					1.80E+04	NC		4.38E+05		1.50E+03	NC		4.00E+01	
2N	VOC	1,1,2,2-Tetrachloroethane	79-34-5	C	67					9.30E+00	C		3.64E+04		7.34E-01	C		1.36E+00	
2N	VOC	Tetrachloroethene	127-18-4	C-B2	67	20	7.30E-04	4.00E+02		3.40E+01	C	**1.2E+01**	2.30E+04	1.7E-02	4.53E-01	C	**8.8E+02**	2.00E+00	**2.0E+02**
2N	VOC	Toluene	108-88-3	D	67	35	2.60E-04	6.50E-02		2.20E+03	NC	3.0E-05	7.86E+04	8.3E-07	6.09E+01	NC	1.1E-03	4.00E+02	1.6E-04
2N	VOC	1,2,4-Trichlorobenzene	120-82-1	D	66	1	9.90E-04	9.90E-04		5.60E+03	NC	1.8E-07			1.35E+03	NC	7.3E-07	2.80E+01	3.5E-05
2N	VOC	1,1,1-Trichloroethane	71-55-6	D	67					6.90E+03	NC		5.06E+04		8.55E+01	NC		8.00E+01	
2N	VOC	1,1,2-Trichloroethane	79-00-5	C	67					1.60E+01	C		1.00E+04		5.68E-01	C		2.00E+00	
2N	VOC	Trichloroethene	79-01-6	C-B2	67	13	4.20E-04	1.20E+01		6.12E+01	C	2.0E-01	3.36E+04	3.6E-04	1.50E+00	C	**8.0E+00**	2.00E+00	**6.0E+00**
2N	VOC	Trichlorofluoromethane	75-69-4		58					1.30E+03	NC		4.77E+04		8.70E+00	NC		4.40E+03	
2N	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1		58					6.90E+04	NC		9.28E+04		5.35E+02	NC			
2N	VOC	Vinyl Chloride	75-01-4	A	67	2	8.40E-04	2.40E-03		7.50E+00	C	3.2E-04	1.42E+01	1.7E-04	2.59E-02	C	9.3E-02	8.00E-01	3.0E-03
2N	VOC	Xylenes (total)	1330-20-7	ID	67	2	1.10E-03	1.50E-03		9.00E+02	NC	1.7E-06	9.25E+04	1.6E-08	3.10E+01	NC	4.8E-05		
2N	SVOC	Acenaphthene	83-32-9		22					2.90E+04	NC				5.11E+04	NC			
2N	SVOC	Acenaphthylene	208-96-8	D	22					2.90E+04	NC				2.43E+04	NC			
2N	SVOC	Anthracene	120-12-7	D	22					2.40E+05	NC								
2N	SVOC	Benzo(a)anthracene	56-55-3	B2	22	1	7.30E-03	7.30E-03		2.10E+01	C	3.5E-04			8.49E+04	C	8.6E-08		
2N	SVOC	Benzo(a)pyrene	50-32-8	B2	22					2.10E+00	C				1.52E+05	C			

Table 14: On-Facility Soil Screening Results - AOI 2N
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Industrial Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect Detect to Industrial Criteria	Occupational Soil Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to Occ Soil Vol Indoor Air Criteria	Industrial Soil Volatilization to Indoor Air Criteria (TR=1E-5 & HQ =1) (mg/kg)		Ratio of Max Detect to Ind Soil Vol Ind Air Criteria	Migration to GW (based on Drinking Water) (TR = 1E-5) Criteria (mg/kg)	Ratio of Site-Related Max Detect to MtGW Criteria
2N	SVOC	Benzo(b)fluoranthene	205-99-2	B2	22	1	1.30E-02	1.30E-02		2.10E+01	C	6.2E-04			8.09E+03	C	1.6E-06		
2N	SVOC	Benzo(g,h,i)perylene	191-24-2	D	22					2.90E+04	NC				6.46E+09	NC			
2N	SVOC	Benzo(k)fluoranthene	207-08-9	B2	22	1	5.30E-03	5.30E-03		2.10E+02	C	2.5E-05			1.08E+07	C	4.9E-10		
2N	SVOC	bis(2-Chloroethoxy)methane	111-91-1	D	8														
2N	SVOC	bis(2-Chloroethyl) ether	111-44-4	B2	8					5.50E+00	C		1.23E+05		5.22E-01	C		2.44E-01	
2N	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	8					1.20E+03	C		2.71E+12		5.53E+09	C		3.62E+03	
2N	SVOC	4-Bromophenyl-phenyl ether	101-55-3	D	8														
2N	SVOC	Butylbenzylphthalate	85-68-7	C	8					1.20E+05	NC				1.76E+08	NC			
2N	SVOC	Carbazole	86-74-8	B2	8					8.60E+02	C				5.73E+06	C		1.36E+01	
2N	SVOC	4-Chloro-3-methylphenol	59-50-7		8														
2N	SVOC	4-Chloroaniline	106-47-8		8					2.50E+03	NC				1.60E+04	NC		6.00E+01	
2N	SVOC	2-Chloronaphthalene	91-58-7		8					2.30E+04	NC				2.28E+04	NC			
2N	SVOC	2-Chlorophenol	95-57-8		8					2.40E+02	NC				9.37E+01	NC		7.20E+01	
2N	SVOC	4-Chlorophenyl-phenyl ether	7005-72-3		8														
2N	SVOC	Chrysene	218-01-9	B2	22	1	8.90E-03	8.90E-03		2.10E+03	C	4.2E-06			3.06E+05	C	2.9E-08		
2N	SVOC	Dibenz(a,h)anthracene	53-70-3	B2	22					2.10E+00	C				1.83E+07	C		1.40E+01	
2N	SVOC	Dibenzofuran	132-64-9	D	8					3.10E+03	NC							6.00E+01	
2N	SVOC	3,3'-Dichlorobenzidine	91-94-1	B2	8					3.80E+01	C				2.08E+05	C		6.00E-01	
2N	SVOC	2,4-Dichlorophenol	120-83-2		8					1.80E+03	NC				2.70E+03	NC		4.40E+01	
2N	SVOC	Diethylphthalate	84-66-2	D	8					4.90E+05	NC		1.20E+07		9.83E+06	NC		1.16E+04	
2N	SVOC	2,4-Dimethylphenol	105-67-9		8					1.20E+04	NC				3.97E+04	NC		2.92E+02	
2N	SVOC	Dimethylphthalate	131-11-3	D	8					6.20E+06	NC		7.00E+06						
2N	SVOC	Di-n-butylphthalate	84-74-2	D	8					6.20E+04	NC		6.44E+11						
2N	SVOC	4,6-Dinitro-2-methylphenol	534-52-1		8								4.19E+05		1.07E+03	NC			
2N	SVOC	2,4-Dinitrophenol	51-28-5		8					1.20E+03	NC							2.92E+01	
2N	SVOC	2,4-Dinitrotoluene	121-14-2	B2	8					1.20E+03	NC							2.92E+01	
2N	SVOC	2,6-Dinitrotoluene	606-20-2	B2	8					6.20E+02	NC				7.73E+01	C		1.48E+01	
2N	SVOC	Di-n-octylphthalate	117-84-0		8					2.50E+04	NC								
2N	SVOC	Fluoranthene	206-44-0	D	22	2	1.40E-02	5.00E-02		2.20E+04	NC	2.3E-06			5.01E+06	NC	1.0E-08		
2N	SVOC	Fluorene	86-73-7	D	22					2.60E+04	NC				1.62E+05	NC			
2N	SVOC	Hexachlorobenzene	118-74-1	B2	8					1.10E+01	C		3.03E+02		1.35E+01	C		2.20E+00	
2N	SVOC	Hexachlorobutadiene	87-68-3	C	8					1.80E+02	NC		5.10E+03		4.45E+01	C		1.85E+01	
2N	SVOC	Hexachlorocyclopentadiene	77-47-4	E	8					3.70E+03	NC		3.12E+03		8.17E+00	NC		4.00E+02	
2N	SVOC	Hexachloroethane	67-72-1	C	8					6.20E+02	NC		2.31E+04		2.36E+01	C		1.48E+01	
2N	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	B2	22	1	8.50E-03	8.50E-03		2.10E+01	C	4.0E-04			1.59E+06	C	5.3E-09		
2N	SVOC	Isophorone	78-59-1	C	8					1.80E+04	C		4.00E+06					2.84E+02	
2N	SVOC	1-Methylnaphthalene	90-12-0		14														
2N	SVOC	2-Methylnaphthalene	91-57-6	ID	22					1.90E+02	NC							2.92E+02	
2N	SVOC	Methylphenol (total)	1319-77-3		8					3.10E+03	NC		8.43E+06		9.79E+04	NC		7.20E+01	
2N	SVOC	Naphthalene	91-20-3	C	22					1.90E+02	NC		7.53E+05		6.60E+01	NC		2.92E+02	
2N	SVOC	2-Nitroaniline	88-74-4		8					1.80E+01	NC							4.00E-01	
2N	SVOC	3-Nitroaniline	99-09-2	C	8														
2N	SVOC	4-Nitroaniline	100-01-6	C	8														
2N	SVOC	Nitrobenzene	98-95-3	D	8					1.00E+02	NC		5.27E+04		3.08E+01	NC		7.20E+00	
2N	SVOC	2-Nitrophenol	88-75-5		8														
2N	SVOC	4-Nitrophenol	100-02-7		8														
2N	SVOC	N-Nitrosodiphenylamine	86-30-6	B2	8					3.50E+03	C							5.60E+01	
2N	SVOC	N-Nitroso-di-n-propylamine	621-64-7	B2	8					2.50E+00	C				9.71E-01	C		3.84E-02	
2N	SVOC	2,2'-oxybis(1-Chloropropane)	108-60-1	C	8					7.40E+01	C							3.84E+00	
2N	SVOC	Pentachlorophenol	87-86-5	B2	8					9.00E+01	C		4.42E+07		1.05E+05	C		4.00E-01	
2N	SVOC	Phenanthrene	85-01-8	D	22					2.90E+04	NC				3.40E+05	NC			
2N	SVOC	Phenol	108-95-2	ID	8					3.70E+05	NC		5.91E+06					8.80E+03	
2N	SVOC	Pyrene	129-00-0	D	22	6	9.60E-03	4.90E-02		2.90E+04	NC	1.7E-06			5.41E+06	NC	9.1E-09		
2N	SVOC	2,4,5-Trichlorophenol	95-95-4		8					6.20E+04	NC							1.48E+03	

Table 14: On-Facility Soil Screening Results - AOI 2N
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Industrial Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect Detect to Industrial Criteria	Occupational Soil Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to Occ Soil Vol Indoor Air Criteria	Industrial Soil Volatilization to Indoor Air Criteria (TR=1E-5 & HQ =1) (mg/kg)		Ratio of Max Detect to Ind Soil Vol Ind Air Criteria	Migration to GW (based on Drinking Water) (TR = 1E-5) Criteria (mg/kg)	Ratio of Site-Related Max Detect to MtGW Criteria
2N	SVOC	2,4,6-Trichlorophenol	88-06-2	B2	8					6.20E+01	NC				2.41E+03	C		1.48E+00	
2N	P/PCB	PCBs (total)	1336-36-3	B2	8					7.40E+00	C		2.80E+05		4.00E+01	C		6.18E+00	
2N	P/PCB	Aldrin	309-00-2	B2	8					1.00E+00	C		1.38E+07		4.61E+02	C		3.92E+00	
2N	P/PCB	alpha-BHC	319-84-6	B2	8					3.60E+00	C				1.01E+01	C		4.40E-02	
2N	P/PCB	beta-BHC	319-85-7	C	8					1.30E+01	C				4.98E+02	C		1.48E-01	
2N	P/PCB	delta-BHC	319-86-8	D	8														
2N	P/PCB	gamma-BHC	58-89-9	B2-C	8					1.70E+01	C		1.47E+05		3.23E+01	C		8.00E-02	
2N	P/PCB	Chlordane (total)	57-74-9	B2	8								4.78E+06		3.91E+03	C		9.61E+00	
2N	P/PCB	4,4'-DDD	72-54-8	B2	8					1.00E+02	C				5.63E+05	C		1.12E+02	
2N	P/PCB	4,4'-DDE	72-55-9	B2	8					7.00E+01	C				3.42E+05	C		3.58E+02	
2N	P/PCB	4,4'-DDT	50-29-3	B2	8					7.00E+01	C		1.24E+09		5.24E+05	C			
2N	P/PCB	Dieldrin	60-57-1	B2	8					1.10E+00	C		1.37E+06		4.85E+01	C		3.61E-02	
2N	P/PCB	Endosulfan	115-29-7		8					3.70E+03	NC		7.43E+04		2.28E+04	NC			
2N	P/PCB	Endosulfan sulfate	1031-07-8		8					3.70E+03	NC							8.80E+01	
2N	P/PCB	Endrin	72-20-8	D	8					1.80E+02	NC		6.31E+05		9.67E+03	NC		9.92E-01	
2N	P/PCB	Endrin aldehyde	7421-93-4		8					1.80E+02	NC				1.01E+04	NC		4.40E+00	
2N	P/PCB	Endrin ketone	53494-70-5		8					1.80E+02	NC								
2N	P/PCB	Heptachlor	76-44-8	B2	8					3.80E+00	C		2.51E+06		1.58E+02	C		2.26E+01	
2N	P/PCB	Heptachlor epoxide	1024-57-3	B2	8					1.90E+00	C		1.68E+06		5.28E+02	C		6.66E-01	
2N	P/PCB	Methoxychlor	72-43-5	D	8					3.10E+03	NC		2.35E+08						
2N	P/PCB	Toxaphene	8001-35-2	B2	8					1.60E+01	C		8.29E+07		2.12E+04	C		3.09E+01	
2N	INORG	Arsenic	7440-38-2	A	24	24	2.80E+00	1.17E+01	1.50E+01	1.60E+01	C							2.92E+01	
2N	INORG	Barium	7440-39-3	D	20	20	2.95E+01	1.08E+02	8.29E+01	6.70E+04	NC	3.7E-04						1.65E+03	1.5E-02
2N	INORG	Cadmium	7440-43-9	B1	20				1.41E-01	4.50E+02	NC							7.52E+00	
2N	INORG	Chromium (total)	7440-47-3		20	20	4.00E+00	2.32E+01	1.93E+01	2.50E+03	NC	1.6E-03						4.00E+01	9.9E-02
2N	INORG	Copper	7440-50-8	D	4	4	9.60E+00	1.66E+01	2.59E+01	4.10E+04	NC							9.15E+02	
2N	INORG	Lead	7439-92-1	B2	20	20	3.70E+00	1.47E+01	1.81E+01	7.50E+02	NC							2.70E+02	
2N	INORG	Mercury	7439-97-6	D	20	1	1.00E-01	1.00E-01		1.36E+01	NC	7.3E-03	2.17E+03	4.6E-05	3.80E+01	NC	2.6E-03	4.00E+01	2.5E-03
2N	INORG	Selenium	7782-49-2	D	20	2	6.50E-01	7.30E-01	3.18E-01	5.10E+03	NC	8.1E-05						2.00E+01	2.1E-02
2N	INORG	Silver	7440-22-4	D	20					5.10E+03	NC							7.20E+01	
2N	INORG	Zinc	7440-66-6	D	4	4	3.43E+01	8.98E+01	7.20E+01	3.10E+05	NC	5.7E-05						1.37E+04	1.3E-03
2N	HERB	2,4-D	94-75-7		8					7.70E+03	NC		1.61E+09					2.80E+01	
2N	HERB	2,4,5-T	93-76-5		8					6.20E+03	NC		7.48E+09					1.48E+02	
2N	HERB	2,4,5-TP	93-72-1		8					4.90E+03	NC							2.00E+01	

Table 14: On-Facility Soil Screening Results - AOI 2N
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Industrial Criteria (TR=1E-5 & HQ=1) (mg/kg)	Ratio of Site-Related Max Detect Detect to Industrial Criteria	Occupational Soil Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to Occ Soil Vol Indoor Air Criteria	Industrial Soil Volatilization to Indoor Air Criteria (TR=1E-5 & HQ =1) (mg/kg)	Ratio of Max Detect to Ind Soil Vol Ind Air Criteria	Migration to GW (based on Drinking Water) (TR = 1E-5) Criteria (mg/kg)	Ratio of Site-Related Max Detect to MtGW Criteria
	Notes:																
	The Screening Criteria for Pyrene were used as surrogates for Phenanthrene and Benzo(g,h,i)perylene.																
	The Screening Criteria for Phenol were used as surrogates for Phenols (total).																
	The Screening Criteria for Naphthalene were used as surrogates for 2-Methylnaphthalene.																
	The Screening Criteria for cis-1,2-Dichloroethene were used as surrogates for 1,2-Dichloroethene (total).																
	The Screening Criteria for Chromium VI was used as a surrogate for Chromium (total).																
	The concentrations for the Methylphenol (2, 3, & 4) were summed before comparing to the Screening Criteria for 4-Methylphenol.																
	The concentrations for all PCB isomers were summed before comparing to Polychlorinated biphenyls (PCBs) for cancer effects																
	and Aroclor 1254 for noncancer effects.																
	The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.																
	The concentrations for the Chlordane isomers (alpha and gamma) were summed before comparing to the Screening Criteria.																
	The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.																
	The Screening Criteria for Mercury was calculated by ENVIRON to account for the vapor inhalation pathway using:																
	EPA Region 9 equations, RfC from IRIS, and chemical properties from EPA's Soil Screening Guidance.																
	The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.																
	For the Ratio of Max Site-Related Detect to Industrial Criteria the ratios of metals concentrations to the screening criteria include only site-related contributions																
	For the Ratio of Max Site-Related Detect to Migration to Ground Water Criteria the ratios of metals concentrations to the screening criteria include only site-related contributions																
	c - The Screening Criterion is based on cancer risk.																
	nc - The Screening Criterion is based on noncancer effects.																
	Chem Group - Chemical Group																
	Carc Class - EPA Weight-of-Evidence Cancer Classification																

Table 15a: On-Facility Unconsolidated Unit Water Screening Results - AOI 2N
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria	Occupational GW Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to OCC GW Vol to Indoor Air Criteria	Industrial GW Volatilization to Indoor Air (TR=E-5 or HQ=1) (mg/L)		Ratio of Max Detect to Industrial GW Vol to Indoor Air Criteria
2N	VOC	Acetone	67-64-1	T	ID	3				6.26E+03	NC		4.98E+07		9.55E+04	NC	
2N	VOC	Benzene	71-43-2	T	A	7	2	2.70E-04	3.80E-04	4.53E+00	C	8.4E-05	3.65E+03	1.0E-07	5.99E+00	C	6.3E-05
2N	VOC	Bromodichloromethane	75-27-4	T	B2	7				3.20E+00	C				4.91E+00	C	
2N	VOC	Bromoform	75-25-2	T	B2	7				6.78E+01	C		2.61E+04		1.94E+02	C	
2N	VOC	Bromomethane	74-83-9	T	D	7				3.01E+00	NC		3.81E+03		7.16E+00	NC	
2N	VOC	2-Butanone	78-93-3	T	ID	6				8.04E+03	NC		9.47E+06		1.17E+05	NC	
2N	VOC	Carbon Disulfide	75-15-0	T		7				3.49E+02	NC		2.43E+04		7.97E+02	NC	
2N	VOC	Carbon Tetrachloride	56-23-5	T	B2	7				2.93E+00	C		5.67E+04		2.46E+00	C	
2N	VOC	Chlorobenzene	108-90-7	T	D	7				3.65E+01	NC		5.03E+05		1.26E+02	NC	
2N	VOC	Chloroethane	75-00-3	T		7				2.09E+03	C		2.00E+06		1.12E+04	NC	
2N	VOC	Chloroform	67-66-3	T	B2	7				2.11E+00	C		6.01E+04		2.19E+00	C	
2N	VOC	Chloromethane	74-87-3	T	D	7				4.00E+01	NC		1.39E+05		1.77E+02	NC	
2N	VOC	Cumene	98-82-8	T	D	7				1.89E+02	NC		1.68E+05		4.01E+02	NC	
2N	VOC	Cyclohexane	110-82-7	T	ID	7	2	3.50E-04	3.60E-04	3.39E+03	NC	1.1E-07	7.00E+05	5.1E-10	5.84E+03	NC	6.2E-08
2N	VOC	1,2-Dibromo-3-chloropropane	96-12-8	T	B2	7				3.21E-01	NC				2.28E+00	NC	
2N	VOC	Dibromochloromethane	124-48-1	T	C	7				2.83E+00	C				6.15E+00	C	
2N	VOC	1,2-Dibromoethane	106-93-4	T	B2	7				9.11E-02	C				5.16E-01	C	
2N	VOC	1,2-Dichlorobenzene	95-50-1	T	D	7				1.35E+02	NC		2.90E+05		5.63E+02	NC	
2N	VOC	1,3-Dichlorobenzene	541-73-1	T	D	7				8.18E+01	NC				3.36E+02	NC	
2N	VOC	1,4-Dichlorobenzene	106-46-7	T	C	7				6.78E+00	C		7.97E+05		1.15E+01	C	
2N	VOC	Dichlorodifluoromethane	75-71-8	T		7				1.34E+02	NC		3.46E+06		2.04E+02	NC	
2N	VOC	1,1-Dichloroethane	75-34-3	T	C	7				3.00E+02	NC		4.46E+05		8.14E+02	NC	
2N	VOC	1,2-Dichloroethane	107-06-2	T	B2	7				1.81E+00	C		8.35E+04		3.24E+00	C	
2N	VOC	1,1-Dichloroethene	75-35-4	T	C	7				1.16E+02	NC		1.56E+04		2.30E+02	NC	
2N	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	7				2.11E+01	NC		9.22E+05		5.94E+01	NC	
2N	VOC	trans-1,2-Dichloroethene	156-60-5	T		7				4.12E+01	NC		7.13E+05		9.19E+01	NC	
2N	VOC	1,2-Dichloropropane	78-87-5	T	B2	7	1	3.00E-03	3.00E-03	2.72E+00	NC	1.1E-03	5.40E+05	5.6E-09	9.01E+00	NC	3.3E-04
2N	VOC	1,3-Dichloropropene (total)	542-75-6	T	B2	7				9.00E+00	C		4.18E+03		9.41E+00	C	
2N	VOC	Ethyl Benzene	100-41-4	T	D	7	2	2.30E-04	2.40E-04	4.18E+02	NC	5.7E-07	5.59E+05	4.3E-10	1.88E+03	NC	1.3E-07
2N	VOC	2-Hexanone	591-78-6	T		7				3.29E+00	NC		1.69E+05		3.01E+00	NC	
2N	VOC	Methyl Acetate	79-20-9	T		7				7.84E+04	NC		2.06E+08		1.72E+06	NC	
2N	VOC	Methyl tert-butyl ether	1634-04-4	T		7				4.15E+02	C		5.04E+05		1.14E+03	C	
2N	VOC	4-Methyl-2-pentanone	108-10-1	T	ID	7				3.43E+03	NC		3.43E+06		3.66E+04	NC	
2N	VOC	Methylcyclohexane	108-87-2	T		7	1	3.70E-04	3.70E-04	1.83E+03	NC	2.0E-07	1.30E+06	2.8E-10	2.84E+03	NC	1.3E-07
2N	VOC	Methylene Chloride	75-09-2	T	B2	7				8.29E+01	C		1.15E+05		1.16E+02	C	
2N	VOC	Styrene	100-42-5	T		7				5.41E+02	NC		7.14E+05		2.45E+03	NC	
2N	VOC	1,1,2,2-Tetrachloroethane	79-34-5	T	C	7				1.19E+00	C		1.55E+05		3.13E+00	C	
2N	VOC	Tetrachloroethene	127-18-4	T	C-B2	7	6	5.50E-03	1.60E+00	1.33E+01	C	1.2E-01	7.14E+05	2.2E-06	1.41E+01	C	1.1E-01
2N	VOC	Toluene	108-88-3	T	D	7	4	4.90E-04	8.90E-04	2.26E+02	NC	3.9E-06	9.12E+05	9.8E-10	7.07E+02	NC	1.3E-06
2N	VOC	1,2,4-Trichlorobenzene	120-82-1	T	D	7				4.23E+01	NC				7.51E+02	NC	
2N	VOC	1,1,1-Trichloroethane	71-55-6	T	D	7				1.37E+03	NC		1.89E+06		3.19E+03	NC	
2N	VOC	1,1,2-Trichloroethane	79-00-5	T	C	7				3.35E+00	C		1.08E+05		6.14E+00	C	
2N	VOC	Trichloroethene	79-01-6	T	C-B2	7	6	1.00E-03	2.40E-01	2.50E+01	C	9.6E-03	5.73E+05	4.2E-07	2.57E+01	C	9.4E-03
2N	VOC	Trichlorofluoromethane	75-69-4	T		7				4.83E+02	NC		3.88E+06		7.09E+02	NC	
2N	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	T		7	2	7.50E-04	2.80E-03	2.43E+04	NC	1.2E-07	5.00E+06	5.6E-10	2.88E+04	NC	9.7E-08
2N	VOC	Vinyl Chloride	75-01-4	T	A	7				1.94E+00	C		1.70E+03		3.10E+00	C	
2N	VOC	Xylenes (total)	1330-20-7	T	ID	7				6.28E+01	NC		5.27E+05		1.77E+02	NC	

Table 15a: On-Facility Unconsolidated Unit Water Screening Results - AOI 2N
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria	Occupational GW Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to OCC GW Vol to Indoor Air Criteria	Industrial GW Volatilization to Indoor Air (TR=E-5 or HQ=1) (mg/L)		Ratio of Max Detect to Industrial GW Vol to Indoor Air Criteria
Notes:																	
The Screening Criteria for cis-1,2-Dichloroethene were used as surrogates for 1,2-Dichloroethene (total).																	
The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.																	
The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.																	
The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.																	
c - The Screening Criterion is based on cancer risk.																	
nc - The Screening Criterion is based on noncancer effects.																	
Chem Group - Chemical Group																	
Meas Basis - Measured Basis; T = Total, D = Dissolved																	
Carc Class - EPA Weight-of-Evidence Cancer Classification																	

Table 15b: On-Facility Storm Sewer Backfill Screening Results - AOI 2N
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria	Occupational GW Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to OCC GW Vol to Indoor Air Criteria	Industrial GW Volatilization to Indoor Air (TR=E-5 or HQ=1) (mg/L)		Ratio of Max Detect to Industrial GW Vol to Indoor Air Criteria
2N	VOC	Acetone	67-64-1	T	ID	22	4	1.40E-02	1.70E+00	6.26E+03	NC	2.7E-04	4.98E+07	3.4E-08	9.55E+04	NC	1.8E-05
2N	VOC	Benzene	71-43-2	T	A	23				4.53E+00	C		3.65E+03		5.99E+00	C	
2N	VOC	Bromodichloromethane	75-27-4	T	B2	23				3.20E+00	C				4.91E+00	C	
2N	VOC	Bromoform	75-25-2	T	B2	23				6.78E+01	C		2.61E+04		1.94E+02	C	
2N	VOC	Bromomethane	74-83-9	T	D	23				3.01E+00	NC		3.81E+03		7.16E+00	NC	
2N	VOC	2-Butanone	78-93-3	T	ID	23	1	1.40E-01	1.40E-01	8.04E+03	NC	1.7E-05	9.47E+06	1.5E-08	1.17E+05	NC	1.2E-06
2N	VOC	Carbon Disulfide	75-15-0	T		23	1	6.50E-03	6.50E-03	3.49E+02	NC	1.9E-05	2.43E+04	2.7E-07	7.97E+02	NC	8.2E-06
2N	VOC	Carbon Tetrachloride	56-23-5	T	B2	23				2.93E+00	C		5.67E+04		2.46E+00	C	
2N	VOC	Chlorobenzene	108-90-7	T	D	23				3.65E+01	NC		5.03E+05		1.26E+02	NC	
2N	VOC	Chloroethane	75-00-3	T		23				2.09E+03	C		2.00E+06		1.12E+04	NC	
2N	VOC	Chloroform	67-66-3	T	B2	23				2.11E+00	C		6.01E+04		2.19E+00	C	
2N	VOC	Chloromethane	74-87-3	T	D	23				4.00E+01	NC		1.39E+05		1.77E+02	NC	
2N	VOC	Cumene	98-82-8	T	D	6				1.89E+02	NC		1.68E+05		4.01E+02	NC	
2N	VOC	Cyclohexane	110-82-7	T	ID	6				3.39E+03	NC		7.00E+05		5.84E+03	NC	
2N	VOC	1,2-Dibromo-3-chloropropane	96-12-8	T	B2	6				3.21E-01	NC				2.28E+00	NC	
2N	VOC	Dibromochloromethane	124-48-1	T	C	23				2.83E+00	C				6.15E+00	C	
2N	VOC	1,2-Dibromoethane	106-93-4	T	B2	6				9.11E-02	C				5.16E-01	C	
2N	VOC	1,2-Dichlorobenzene	95-50-1	T	D	7				1.35E+02	NC		2.90E+05		5.63E+02	NC	
2N	VOC	1,3-Dichlorobenzene	541-73-1	T	D	7				8.18E+01	NC				3.36E+02	NC	
2N	VOC	1,4-Dichlorobenzene	106-46-7	T	C	7				6.78E+00	C		7.97E+05		1.15E+01	C	
2N	VOC	Dichlorodifluoromethane	75-71-8	T		6				1.34E+02	NC		3.46E+06		2.04E+02	NC	
2N	VOC	1,1-Dichloroethane	75-34-3	T	C	23				3.00E+02	NC		4.46E+05		8.14E+02	NC	
2N	VOC	1,2-Dichloroethane	107-06-2	T	B2	23				1.81E+00	C		8.35E+04		3.24E+00	C	
2N	VOC	1,1-Dichloroethene	75-35-4	T	C	23				1.16E+02	NC		1.56E+04		2.30E+02	NC	
2N	VOC	1,2-Dichloroethene (total)	540-59-0	T		17	4	6.40E-03	6.70E-02	1.87E+01	NC	3.6E-03	7.11E+05	9.4E-08	4.14E+01	NC	1.6E-03
2N	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	23	12	6.10E-03	2.40E-01	2.11E+01	NC	1.1E-02	9.22E+05	2.6E-07	5.94E+01	NC	4.0E-03
2N	VOC	trans-1,2-Dichloroethene	156-60-5	T		23	1	5.30E-04	5.30E-04	4.12E+01	NC	1.3E-05	7.13E+05	7.4E-10	9.19E+01	NC	5.8E-06
2N	VOC	1,2-Dichloropropane	78-87-5	T	B2	23	2	1.60E-03	1.80E-03	2.72E+00	NC	6.6E-04	5.40E+05	3.3E-09	9.01E+00	NC	2.0E-04
2N	VOC	1,3-Dichloropropene (total)	542-75-6	T	B2	23				9.00E+00	C		4.18E+03		9.41E+00	C	
2N	VOC	Ethyl Benzene	100-41-4	T	D	23				4.18E+02	NC		5.59E+05		1.88E+03	NC	
2N	VOC	n-Hexane	110-54-3	T		17	1	1.20E-03	1.20E-03	1.21E+02	NC	1.0E-05					
2N	VOC	2-Hexanone	591-78-6	T		23				3.29E+00	NC		1.69E+05		3.01E+00	NC	
2N	VOC	Methyl Acetate	79-20-9	T		6				7.84E+04	NC		2.06E+08		1.72E+06	NC	
2N	VOC	Methyl tert-butyl ether	1634-04-4	T		6				4.15E+02	C		5.04E+05		1.14E+03	C	
2N	VOC	4-Methyl-2-pentanone	108-10-1	T	ID	23				3.43E+03	NC		3.43E+06		3.66E+04	NC	
2N	VOC	Methylcyclohexane	108-87-2	T		6				1.83E+03	NC		1.30E+06		2.84E+03	NC	
2N	VOC	Methylene Chloride	75-09-2	T	B2	23	1	1.80E-02	1.80E-02	8.29E+01	C	2.2E-04	1.15E+05	1.6E-07	1.16E+02	C	1.6E-04
2N	VOC	Styrene	100-42-5	T		23				5.41E+02	NC		7.14E+05		2.45E+03	NC	
2N	VOC	1,1,2,2-Tetrachloroethane	79-34-5	T	C	23				1.19E+00	C		1.55E+05		3.13E+00	C	
2N	VOC	Tetrachloroethene	127-18-4	T	C-B2	23	22	9.20E-03	9.00E+00	1.33E+01	C	6.8E-01	7.14E+05	1.3E-05	1.41E+01	C	6.4E-01
2N	VOC	Toluene	108-88-3	T	D	23				2.26E+02	NC		9.12E+05		7.07E+02	NC	
2N	VOC	1,2,4-Trichlorobenzene	120-82-1	T	D	7				4.23E+01	NC				7.51E+02	NC	
2N	VOC	1,1,1-Trichloroethane	71-55-6	T	D	23				1.37E+03	NC		1.89E+06		3.19E+03	NC	
2N	VOC	1,1,2-Trichloroethane	79-00-5	T	C	23				3.35E+00	C		1.08E+05		6.14E+00	C	

Table 15b: On-Facility Storm Sewer Backfill Screening Results - AOI 2N
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria	Occupational GW Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to OCC GW Vol to Indoor Air Criteria	Industrial GW Volatilization to Indoor Air (TR=E-5 or HQ=1) (mg/L)		Ratio of Max Detect to Industrial GW Vol to Indoor Air Criteria
2N	VOC	Trichloroethene	79-01-6	T	C-B2	23	9	4.70E-03	1.20E-01	2.50E+01	C	4.8E-03	5.73E+05	2.1E-07	2.57E+01	C	4.7E-03
2N	VOC	Trichlorofluoromethane	75-69-4	T		6				4.83E+02	NC		3.88E+06		7.09E+02	NC	
2N	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	T		9				2.43E+04	NC		5.00E+06		2.88E+04	NC	
2N	VOC	Vinyl Chloride	75-01-4	T	A	23				1.94E+00	C		1.70E+03		3.10E+00	C	
2N	VOC	Xylenes (total)	1330-20-7	T	ID	23				6.28E+01	NC		5.27E+05		1.77E+02	NC	
2N	SVOC	Acenaphthene	83-32-9	T		3				1.46E+02	NC				2.77E+03	NC	
2N	SVOC	Acenaphthylene	208-96-8	T	D	3				6.87E+01	NC				1.77E+03	NC	
2N	SVOC	Acetophenone	98-86-2	T	D	1				2.21E+03	NC		3.80E+06		3.95E+04	NC	
2N	SVOC	Anthracene	120-12-7	T	D	3				7.21E+02	NC						
2N	SVOC	Atrazine	1912-24-9	T	C	1				1.66E+01	C		5.28E+08		6.80E+04	C	
2N	SVOC	Benzaldehyde	100-52-7	T		1				1.18E+03	NC				1.90E+04	NC	
2N	SVOC	Benzo(a)anthracene	56-55-3	T	B2	3				5.53E-02	C				5.15E+01	C	
2N	SVOC	Benzo(a)pyrene	50-32-8	T	B2	3				3.48E-03	C				3.63E+01	C	
2N	SVOC	Benzo(b)fluoranthene	205-99-2	T	B2	3				2.90E-02	C				3.14E+00	C	
2N	SVOC	Benzo(g,h,i)perylene	191-24-2	T	D	3				6.17E+00	NC				1.08E+06	NC	
2N	SVOC	Benzo(k)fluoranthene	207-08-9	T	B2	3				3.04E-01	C				2.65E+03	C	
2N	SVOC	Biphenyl	92-52-4	T	D	1				9.52E+01	NC						
2N	SVOC	bis(2-Chloroethoxy)methane	111-91-1	T	D	2											
2N	SVOC	bis(2-Chloroethyl) ether	111-44-4	T	B2	2				1.02E+00	C		1.44E+06		6.10E+00	C	
2N	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	T	B2	2				9.08E-01	C		4.28E+07		8.74E+04	C	
2N	SVOC	4-Bromophenyl-phenyl ether	101-55-3	T	D	2											
2N	SVOC	Butylbenzylphthalate	85-68-7	T	C	2				7.24E+02	NC				1.06E+06	NC	
2N	SVOC	Caprolactam	105-60-2	T		1				1.95E+05	NC		1.34E+08		6.87E+07	NC	
2N	SVOC	Carbazole	86-74-8	T	B2	2				3.32E+01	C				3.20E+05	C	
2N	SVOC	4-Chloro-3-methylphenol	59-50-7	T		2											
2N	SVOC	4-Chloroaniline	106-47-8	T		2				3.02E+02	NC				5.03E+04	NC	
2N	SVOC	2-Chloronaphthalene	91-58-7	T		2				1.57E+02	NC				2.05E+03	NC	
2N	SVOC	2-Chlorophenol	95-57-8	T		2				1.49E+01	NC				1.07E+02	NC	
2N	SVOC	4-Chlorophenyl-phenyl ether	7005-72-3	T		2											
2N	SVOC	Chrysene	218-01-9	T	B2	3				5.13E+00	C				3.34E+02	C	
2N	SVOC	Dibenz(a,h)anthracene	53-70-3	T	B2	3				3.24E-03	C				9.64E+02	C	
2N	SVOC	Dibenzofuran	132-64-9	T	D	2				7.43E+00	NC				9.86E+02	NC	
2N	SVOC	3,3'-Dichlorobenzidine	91-94-1	T	B2	2				2.85E+00	C				4.99E+04	C	
2N	SVOC	2,4-Dichlorophenol	120-83-2	T		2				4.90E+01	NC				4.81E+03	NC	
2N	SVOC	Diethylphthalate	84-66-2	T	D	2				4.67E+04	NC		1.13E+07		9.26E+06	NC	
2N	SVOC	2,4-Dimethylphenol	105-67-9	T		2				6.26E+02	NC				4.26E+04	NC	
2N	SVOC	Dimethylphthalate	131-11-3	T	D	2							3.65E+07				
2N	SVOC	Di-n-butylphthalate	84-74-2	T	D	2				4.63E+02	NC		3.20E+09				
2N	SVOC	4,6-Dinitro-2-methylphenol	534-52-1	T		2				3.25E+00	NC		3.67E+05		9.37E+02	NC	
2N	SVOC	2,4-Dinitrophenol	51-28-5	T		2				3.26E+02	NC						
2N	SVOC	2,4-Dinitrotoluene	121-14-2	T	B2	2				9.84E+00	C						
2N	SVOC	2,6-Dinitrotoluene	606-20-2	T	B2	2				9.17E+00	C				2.71E+02	C	
2N	SVOC	Di-n-octylphthalate	117-84-0	T		2				3.94E+00	NC						
2N	SVOC	Fluoranthene	206-44-0	T	D	3				4.50E+01	NC				1.49E+04	NC	

Table 15b: On-Facility Storm Sewer Backfill Screening Results - AOI 2N
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria	Occupational GW Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to OCC GW Vol to Indoor Air Criteria	Industrial GW Volatilization to Indoor Air (TR=E-5 or HQ=1) (mg/L)		Ratio of Max Detect to Industrial GW Vol to Indoor Air Criteria
2N	SVOC	Fluorene	86-73-7	T	D	3				9.95E+01	NC				3.98E+03	NC	
2N	SVOC	Hexachlorobenzene	118-74-1	T	B2	2				2.58E-02	C		5.57E+00		2.47E-01	C	
2N	SVOC	Hexachlorobutadiene	87-68-3	T	C	2				6.12E-01	NC		3.44E+02		2.99E+00	C	
2N	SVOC	Hexachlorocyclopentadiene	77-47-4	T	E	2				1.99E-01	NC		1.54E+02		4.04E-01	NC	
2N	SVOC	Hexachloroethane	67-72-1	T	C	2				8.00E+00	NC		4.61E+04		4.71E+01	C	
2N	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	T	B2	3				3.28E-02	C				1.54E+02	C	
2N	SVOC	Isophorone	78-59-1	T	C	2				7.89E+03	C		1.82E+07				
2N	SVOC	1-Methylnaphthalene	90-12-0	T		1											
2N	SVOC	2-Methylnaphthalene	91-57-6	T	ID	3				2.38E+00	NC				1.43E+01	NC	
2N	SVOC	Methylphenol (total)	1319-77-3	T		2				2.59E+03	NC		1.96E+07		2.28E+05	NC	
2N	SVOC	Naphthalene	91-20-3	T	C	3				2.55E+00	NC		1.93E+05		1.69E+01	NC	
2N	SVOC	2-Nitroaniline	88-74-4	T		2				3.11E-01	NC				3.63E+00	NC	
2N	SVOC	3-Nitroaniline	99-09-2	T	C	2				4.30E+01	NC						
2N	SVOC	4-Nitroaniline	100-01-6	T	C	2				4.55E+02	NC		1.77E+09		1.72E+06	NC	
2N	SVOC	Nitrobenzene	98-95-3	T	D	2				6.57E+00	NC		1.83E+05		1.07E+02	NC	
2N	SVOC	2-Nitrophenol	88-75-5	T		2											
2N	SVOC	4-Nitrophenol	100-02-7	T		2				6.65E+02	NC				5.66E+07	NC	
2N	SVOC	N-Nitrosodiphenylamine	86-30-6	T	B2	2				3.11E+02	C						
2N	SVOC	N-Nitroso-di-n-propylamine	621-64-7	T	B2	2				6.70E-01	C				7.75E+00	C	
2N	SVOC	2,2'-oxybis(1-Chloropropane)	108-60-1	T	C	2				8.63E+00	C						
2N	SVOC	Pentachlorophenol	87-86-5	T	B2	2				1.21E+00	C		1.44E+07		3.43E+04	C	
2N	SVOC	Phenanthrene	85-01-8	T	D	3				7.06E+01	NC				7.57E+03	NC	
2N	SVOC	Phenol	108-95-2	T	ID	2				3.09E+04	NC		3.54E+07				
2N	SVOC	Pyrene	129-00-0	T	D	3				3.47E+01	NC				1.64E+04	NC	
2N	SVOC	2,4,5-Trichlorophenol	95-95-4	T		2				7.24E+02	NC						
2N	SVOC	2,4,6-Trichlorophenol	88-06-2	T	B2	2				9.76E-01	NC				1.85E+03	C	
2N	P/PCB	PCBs (total)	1336-36-3	T	B2	1				1.09E-02	NC		7.93E+02		1.13E-01	C	
2N	P/PCB	Aldrin	309-00-2	T	B2	1				1.61E-03	C		3.88E+03		1.29E-01	C	
2N	P/PCB	alpha-BHC	319-84-6	T	B2	1				1.20E-01	C				3.47E+00	C	
2N	P/PCB	beta-BHC	319-85-7	T	C	1				5.63E-01	C				1.39E+02	C	
2N	P/PCB	delta-BHC	319-86-8	T	D	1											
2N	P/PCB	gamma-BHC	58-89-9	T	B2-C	1				6.15E-01	C		5.92E+04		1.30E+01	C	
2N	P/PCB	Chlordane (total)	57-74-9	T	B2	1				1.92E-01	C		2.29E+04		1.88E+01	C	
2N	P/PCB	4,4'-DDD	72-54-8	T	B2	1				2.07E-01	C				2.12E+02	C	
2N	P/PCB	4,4'-DDE	72-55-9	T	B2	1				5.26E-02	C				3.48E+01	C	
2N	P/PCB	4,4'-DDT	50-29-3	T	B2	1				1.08E-01	C		2.06E+05		8.70E+01	C	
2N	P/PCB	Dieldrin	60-57-1	T	B2	1				1.26E-02	C		3.08E+04		1.10E+00	C	
2N	P/PCB	Endosulfan	115-29-7	T		1				8.06E+01	NC		1.71E+04		5.24E+03	NC	
2N	P/PCB	Endosulfan sulfate	1031-07-8	T		1				2.50E+01	NC				1.14E+02	NC	
2N	P/PCB	Endrin	72-20-8	T	D	1				1.40E+00	NC		2.34E+04		3.59E+02	NC	
2N	P/PCB	Endrin aldehyde	7421-93-4	T		1				5.40E-01	NC				4.67E+03	NC	
2N	P/PCB	Endrin ketone	53494-70-5	T		1											
2N	P/PCB	Heptachlor	76-44-8	T	B2	1				1.04E-02	C		2.47E+03		1.55E-01	C	
2N	P/PCB	Heptachlor epoxide	1024-57-3	T	B2	1				3.29E-02	C		9.20E+03		2.89E+00	C	

Table 15b: On-Facility Storm Sewer Backfill Screening Results - AOI 2N
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria	Occupational GW Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to OCC GW Vol to Indoor Air Criteria	Industrial GW Volatilization to Indoor Air (TR=E-5 or HQ=1) (mg/L)		Ratio of Max Detect to Industrial GW Vol to Indoor Air Criteria
2N	P/PCB	Methoxychlor	72-43-5	T	D	1				1.58E+01	NC		1.05E+06				
2N	P/PCB	Toxaphene	8001-35-2	T	B2	1				1.96E-01	C		1.52E+05		3.87E+01	C	
2N	INORG	Arsenic	7440-38-2	T	A	2				1.44E+01	C						
2N	INORG	Barium	7440-39-3	T	D	2				2.15E+04	NC						
2N	INORG	Cadmium	7440-43-9	T	B1	2				3.08E+02	NC						
2N	INORG	Chromium (total)	7440-47-3	T		3	1	6.80E-03	6.80E-03	9.23E+02	NC	7.4E-06					
2N	INORG	Copper	7440-50-8	T	D	1	1	3.20E-03	3.20E-03	1.23E+04	NC	2.6E-07					
2N	INORG	Lead	7439-92-1	T	B2	2											
2N	INORG	Mercury	7439-97-6	T	D	2				2.65E-01	NC		4.53E+01		7.94E-01	NC	
2N	INORG	Selenium	7782-49-2	T	D	2				1.54E+03	NC						
2N	INORG	Silver	7440-22-4	T	D	2				1.83E+03	NC						
2N	INORG	Zinc	7440-66-6	T	D	1				1.10E+05	NC						
2N	HERB	2,4-D	94-75-7	T		1							6.45E+08				
2N	HERB	2,4,5-T	93-76-5	T		1							7.37E+08				
2N	HERB	2,4,5-TP	93-72-1	T		1											

Notes:

The Screening Criteria for cis-1,2-Dichloroethene were used as surrogates for 1,2-Dichloroethene (total).

The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.

The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.

The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.

c - The Screening Criterion is based on cancer risk.

nc - The Screening Criterion is based on noncancer effects.

Chem Group - Chemical Group

Meas Basis - Measured Basis; T = Total, D = Dissolved

Carc Class - EPA Weight-of-Evidence Cancer Classification

Table 15c: On-Facility Sanitary Sewer Backfill Screening Results - AOI 2N
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria	Occupational GW Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to OCC GW Vol to Indoor Air Criteria	Industrial GW Volatilization to Indoor Air (TR=E-5 or HQ=1) (mg/L)		Ratio of Max Detect to Industrial GW Vol to Indoor Air Criteria
2N	VOC	Acetone	67-64-1	T	ID	9				6.26E+03	NC		4.98E+07		9.55E+04	NC	
2N	VOC	Benzene	71-43-2	T	A	9				4.53E+00	C		3.65E+03		5.99E+00	C	
2N	VOC	Bromodichloromethane	75-27-4	T	B2	9				3.20E+00	C				4.91E+00	C	
2N	VOC	Bromoform	75-25-2	T	B2	9				6.78E+01	C		2.61E+04		1.94E+02	C	
2N	VOC	Bromomethane	74-83-9	T	D	9				3.01E+00	NC		3.81E+03		7.16E+00	NC	
2N	VOC	2-Butanone	78-93-3	T	ID	9				8.04E+03	NC		9.47E+06		1.17E+05	NC	
2N	VOC	Carbon Disulfide	75-15-0	T		9				3.49E+02	NC		2.43E+04		7.97E+02	NC	
2N	VOC	Carbon Tetrachloride	56-23-5	T	B2	9				2.93E+00	C		5.67E+04		2.46E+00	C	
2N	VOC	Chlorobenzene	108-90-7	T	D	9				3.65E+01	NC		5.03E+05		1.26E+02	NC	
2N	VOC	Chloroethane	75-00-3	T		9				2.09E+03	C		2.00E+06		1.12E+04	NC	
2N	VOC	Chloroform	67-66-3	T	B2	9				2.11E+00	C		6.01E+04		2.19E+00	C	
2N	VOC	Chloromethane	74-87-3	T	D	9				4.00E+01	NC		1.39E+05		1.77E+02	NC	
2N	VOC	Cumene	98-82-8	T	D	6				1.89E+02	NC		1.68E+05		4.01E+02	NC	
2N	VOC	Cyclohexane	110-82-7	T	ID	6				3.39E+03	NC		7.00E+05		5.84E+03	NC	
2N	VOC	1,2-Dibromo-3-chloropropane	96-12-8	T	B2	6				3.21E-01	NC				2.28E+00	NC	
2N	VOC	Dibromochloromethane	124-48-1	T	C	9				2.83E+00	C				6.15E+00	C	
2N	VOC	1,2-Dibromoethane	106-93-4	T	B2	6				9.11E-02	C				5.16E-01	C	
2N	VOC	1,2-Dichlorobenzene	95-50-1	T	D	6				1.35E+02	NC		2.90E+05		5.63E+02	NC	
2N	VOC	1,3-Dichlorobenzene	541-73-1	T	D	6				8.18E+01	NC				3.36E+02	NC	
2N	VOC	1,4-Dichlorobenzene	106-46-7	T	C	6				6.78E+00	C		7.97E+05		1.15E+01	C	
2N	VOC	Dichlorodifluoromethane	75-71-8	T		6				1.34E+02	NC		3.46E+06		2.04E+02	NC	
2N	VOC	1,1-Dichloroethane	75-34-3	T	C	9				3.00E+02	NC		4.46E+05		8.14E+02	NC	
2N	VOC	1,2-Dichloroethane	107-06-2	T	B2	9				1.81E+00	C		8.35E+04		3.24E+00	C	
2N	VOC	1,1-Dichloroethene	75-35-4	T	C	9				1.16E+02	NC		1.56E+04		2.30E+02	NC	
2N	VOC	1,2-Dichloroethene (total)	540-59-0	T		3				1.87E+01	NC		7.11E+05		4.14E+01	NC	
2N	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	9				2.11E+01	NC		9.22E+05		5.94E+01	NC	
2N	VOC	trans-1,2-Dichloroethene	156-60-5	T		9				4.12E+01	NC		7.13E+05		9.19E+01	NC	
2N	VOC	1,2-Dichloropropane	78-87-5	T	B2	9				2.72E+00	NC		5.40E+05		9.01E+00	NC	
2N	VOC	1,3-Dichloropropene (total)	542-75-6	T	B2	9				9.00E+00	C		4.18E+03		9.41E+00	C	
2N	VOC	Ethyl Benzene	100-41-4	T	D	9				4.18E+02	NC		5.59E+05		1.88E+03	NC	
2N	VOC	n-Hexane	110-54-3	T		3				1.21E+02	NC						
2N	VOC	2-Hexanone	591-78-6	T		9				3.29E+00	NC		1.69E+05		3.01E+00	NC	
2N	VOC	Methyl Acetate	79-20-9	T		6				7.84E+04	NC		2.06E+08		1.72E+06	NC	
2N	VOC	Methyl tert-butyl ether	1634-04-4	T		6				4.15E+02	C		5.04E+05		1.14E+03	C	
2N	VOC	4-Methyl-2-pentanone	108-10-1	T	ID	9				3.43E+03	NC		3.43E+06		3.66E+04	NC	
2N	VOC	Methylcyclohexane	108-87-2	T		6				1.83E+03	NC		1.30E+06		2.84E+03	NC	
2N	VOC	Methylene Chloride	75-09-2	T	B2	9	1	1.40E-03	1.40E-03	8.29E+01	C	1.7E-05	1.15E+05	1.2E-08	1.16E+02	C	1.2E-05
2N	VOC	Styrene	100-42-5	T		9				5.41E+02	NC		7.14E+05		2.45E+03	NC	
2N	VOC	1,1,2,2-Tetrachloroethane	79-34-5	T	C	9				1.19E+00	C		1.55E+05		3.13E+00	C	
2N	VOC	Tetrachloroethene	127-18-4	T	C-B2	9	6	2.80E-04	5.40E-04	1.33E+01	C	4.1E-05	7.14E+05	7.6E-10	1.41E+01	C	3.8E-05
2N	VOC	Toluene	108-88-3	T	D	9	2	1.20E-03	1.60E-03	2.26E+02	NC	7.1E-06	9.12E+05	1.8E-09	7.07E+02	NC	2.3E-06
2N	VOC	1,2,4-Trichlorobenzene	120-82-1	T	D	6				4.23E+01	NC				7.51E+02	NC	
2N	VOC	1,1,1-Trichloroethane	71-55-6	T	D	9				1.37E+03	NC		1.89E+06		3.19E+03	NC	
2N	VOC	1,1,2-Trichloroethane	79-00-5	T	C	9				3.35E+00	C		1.08E+05		6.14E+00	C	

Table 15c: On-Facility Sanitary Sewer Backfill Screening Results - AOI 2N
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria	Occupational GW Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to OCC GW Vol to Indoor Air Criteria	Industrial GW Volatilization to Indoor Air (TR=E-5 or HQ=1) (mg/L)		Ratio of Max Detect to Industrial GW Vol to Indoor Air Criteria
2N	VOC	Trichloroethene	79-01-6	T	C-B2	9	9	2.40E-03	4.60E-03	2.50E+01	C	1.8E-04	5.73E+05	8.0E-09	2.57E+01	C	1.8E-04
2N	VOC	Trichlorofluoromethane	75-69-4	T		6				4.83E+02	NC		3.88E+06		7.09E+02	NC	
2N	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	T		7				2.43E+04	NC		5.00E+06		2.88E+04	NC	
2N	VOC	Vinyl Chloride	75-01-4	T	A	9				1.94E+00	C		1.70E+03		3.10E+00	C	
2N	VOC	Xylenes (total)	1330-20-7	T	ID	9				6.28E+01	NC		5.27E+05		1.77E+02	NC	
2N	SVOC	Acenaphthene	83-32-9	T		4				1.46E+02	NC				2.77E+03	NC	
2N	SVOC	Acenaphthylene	208-96-8	T	D	4				6.87E+01	NC				1.77E+03	NC	
2N	SVOC	Acetophenone	98-86-2	T	D	2				2.21E+03	NC		3.80E+06		3.95E+04	NC	
2N	SVOC	Anthracene	120-12-7	T	D	4				7.21E+02	NC						
2N	SVOC	Atrazine	1912-24-9	T	C	2				1.66E+01	C		5.28E+08		6.80E+04	C	
2N	SVOC	Benzaldehyde	100-52-7	T		2				1.18E+03	NC				1.90E+04	NC	
2N	SVOC	Benzo(a)anthracene	56-55-3	T	B2	4				5.53E-02	C				5.15E+01	C	
2N	SVOC	Benzo(a)pyrene	50-32-8	T	B2	4				3.48E-03	C				3.63E+01	C	
2N	SVOC	Benzo(b)fluoranthene	205-99-2	T	B2	4				2.90E-02	C				3.14E+00	C	
2N	SVOC	Benzo(g,h,i)perylene	191-24-2	T	D	4				6.17E+00	NC				1.08E+06	NC	
2N	SVOC	Benzo(k)fluoranthene	207-08-9	T	B2	4				3.04E-01	C				2.65E+03	C	
2N	SVOC	Biphenyl	92-52-4	T	D	2				9.52E+01	NC						
2N	SVOC	bis(2-Chloroethoxy)methane	111-91-1	T	D	2											
2N	SVOC	bis(2-Chloroethyl) ether	111-44-4	T	B2	2				1.02E+00	C		1.44E+06		6.10E+00	C	
2N	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	T	B2	2	1	8.70E-03	8.70E-03	9.08E-01	C	9.6E-03	4.28E+07	2.0E-10	8.74E+04	C	9.9E-08
2N	SVOC	4-Bromophenyl-phenyl ether	101-55-3	T	D	2											
2N	SVOC	Butylbenzylphthalate	85-68-7	T	C	2				7.24E+02	NC				1.06E+06	NC	
2N	SVOC	Caprolactam	105-60-2	T		2				1.95E+05	NC		1.34E+08		6.87E+07	NC	
2N	SVOC	Carbazole	86-74-8	T	B2	2				3.32E+01	C				3.20E+05	C	
2N	SVOC	4-Chloro-3-methylphenol	59-50-7	T		2											
2N	SVOC	4-Chloroaniline	106-47-8	T		2				3.02E+02	NC				5.03E+04	NC	
2N	SVOC	2-Chloronaphthalene	91-58-7	T		2				1.57E+02	NC				2.05E+03	NC	
2N	SVOC	2-Chlorophenol	95-57-8	T		2				1.49E+01	NC				1.07E+02	NC	
2N	SVOC	4-Chlorophenyl-phenyl ether	7005-72-3	T		2											
2N	SVOC	Chrysene	218-01-9	T	B2	4				5.13E+00	C				3.34E+02	C	
2N	SVOC	Dibenz(a,h)anthracene	53-70-3	T	B2	4				3.24E-03	C				9.64E+02	C	
2N	SVOC	Dibenzofuran	132-64-9	T	D	2				7.43E+00	NC				9.86E+02	NC	
2N	SVOC	3,3'-Dichlorobenzidine	91-94-1	T	B2	2				2.85E+00	C				4.99E+04	C	
2N	SVOC	2,4-Dichlorophenol	120-83-2	T		2				4.90E+01	NC				4.81E+03	NC	
2N	SVOC	Diethylphthalate	84-66-2	T	D	2				4.67E+04	NC		1.13E+07		9.26E+06	NC	
2N	SVOC	2,4-Dimethylphenol	105-67-9	T		2				6.26E+02	NC				4.26E+04	NC	
2N	SVOC	Dimethylphthalate	131-11-3	T	D	2							3.65E+07				
2N	SVOC	Di-n-butylphthalate	84-74-2	T	D	2				4.63E+02	NC		3.20E+09				
2N	SVOC	4,6-Dinitro-2-methylphenol	534-52-1	T		2				3.25E+00	NC		3.67E+05		9.37E+02	NC	
2N	SVOC	2,4-Dinitrophenol	51-28-5	T		2				3.26E+02	NC						
2N	SVOC	2,4-Dinitrotoluene	121-14-2	T	B2	2				9.84E+00	C						
2N	SVOC	2,6-Dinitrotoluene	606-20-2	T	B2	2				9.17E+00	C				2.71E+02	C	
2N	SVOC	Di-n-octylphthalate	117-84-0	T		2				3.94E+00	NC						
2N	SVOC	Fluoranthene	206-44-0	T	D	4				4.50E+01	NC				1.49E+04	NC	

Table 15c: On-Facility Sanitary Sewer Backfill Screening Results - AOI 2N
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria	Occupational GW Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to OCC GW Vol to Indoor Air Criteria	Industrial GW Volatilization to Indoor Air (TR=E-5 or HQ=1) (mg/L)		Ratio of Max Detect to Industrial GW Vol to Indoor Air Criteria
2N	SVOC	Fluorene	86-73-7	T	D	4				9.95E+01	NC				3.98E+03	NC	
2N	SVOC	Hexachlorobenzene	118-74-1	T	B2	2				2.58E-02	C		5.57E+00		2.47E-01	C	
2N	SVOC	Hexachlorobutadiene	87-68-3	T	C	2				6.12E-01	NC		3.44E+02		2.99E+00	C	
2N	SVOC	Hexachlorocyclopentadiene	77-47-4	T	E	2				1.99E-01	NC		1.54E+02		4.04E-01	NC	
2N	SVOC	Hexachloroethane	67-72-1	T	C	2				8.00E+00	NC		4.61E+04		4.71E+01	C	
2N	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	T	B2	4				3.28E-02	C				1.54E+02	C	
2N	SVOC	Isophorone	78-59-1	T	C	2				7.89E+03	C		1.82E+07				
2N	SVOC	1-Methylnaphthalene	90-12-0	T		1											
2N	SVOC	2-Methylnaphthalene	91-57-6	T	ID	3				2.38E+00	NC				1.43E+01	NC	
2N	SVOC	Methylphenol (total)	1319-77-3	T		2				2.59E+03	NC		1.96E+07		2.28E+05	NC	
2N	SVOC	Naphthalene	91-20-3	T	C	4				2.55E+00	NC		1.93E+05		1.69E+01	NC	
2N	SVOC	2-Nitroaniline	88-74-4	T		2				3.11E-01	NC				3.63E+00	NC	
2N	SVOC	3-Nitroaniline	99-09-2	T	C	2				4.30E+01	NC						
2N	SVOC	4-Nitroaniline	100-01-6	T	C	2				4.55E+02	NC		1.77E+09		1.72E+06	NC	
2N	SVOC	Nitrobenzene	98-95-3	T	D	2				6.57E+00	NC		1.83E+05		1.07E+02	NC	
2N	SVOC	2-Nitrophenol	88-75-5	T		2											
2N	SVOC	4-Nitrophenol	100-02-7	T		2				6.65E+02	NC				5.66E+07	NC	
2N	SVOC	N-Nitrosodiphenylamine	86-30-6	T	B2	2				3.11E+02	C						
2N	SVOC	N-Nitroso-di-n-propylamine	621-64-7	T	B2	2				6.70E-01	C				7.75E+00	C	
2N	SVOC	2,2'-oxybis(1-Chloropropane)	108-60-1	T	C	2				8.63E+00	C						
2N	SVOC	Pentachlorophenol	87-86-5	T	B2	2				1.21E+00	C		1.44E+07		3.43E+04	C	
2N	SVOC	Phenanthrene	85-01-8	T	D	4				7.06E+01	NC				7.57E+03	NC	
2N	SVOC	Phenol	108-95-2	T	ID	2				3.09E+04	NC		3.54E+07				
2N	SVOC	Pyrene	129-00-0	T	D	4				3.47E+01	NC				1.64E+04	NC	
2N	SVOC	2,4,5-Trichlorophenol	95-95-4	T		2				7.24E+02	NC						
2N	SVOC	2,4,6-Trichlorophenol	88-06-2	T	B2	2				9.76E-01	NC				1.85E+03	C	
2N	INORG	Arsenic	7440-38-2	T	A	2				1.44E+01	C						
2N	INORG	Barium	7440-39-3	T	D	2				2.15E+04	NC						
2N	INORG	Cadmium	7440-43-9	T	B1	2				3.08E+02	NC						
2N	INORG	Chromium (total)	7440-47-3	T		3	1	1.20E-02	1.20E-02	9.23E+02	NC	1.3E-05					
2N	INORG	Copper	7440-50-8	T	D	1	1	2.60E-03	2.60E-03	1.23E+04	NC	2.1E-07					
2N	INORG	Lead	7439-92-1	T	B2	2											
2N	INORG	Mercury	7439-97-6	T	D	2				2.65E-01	NC		4.53E+01		7.94E-01	NC	
2N	INORG	Selenium	7782-49-2	T	D	2				1.54E+03	NC						
2N	INORG	Silver	7440-22-4	T	D	2				1.83E+03	NC						
2N	INORG	Zinc	7440-66-6	T	D	1				1.10E+05	NC						

Notes:

The Screening Criteria for cis-1,2-Dichloroethene were used as surrogates for 1,2-Dichloroethene (total).

The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.

The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.

The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.

c - The Screening Criterion is based on cancer risk.

Table 15c: On-Facility Sanitary Sewer Backfill Screening Results - AOI 2N
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria	Occupational GW Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to OCC GW Vol to Indoor Air Criteria	Industrial GW Volatilization to Indoor Air (TR=E-5 or HQ=1) (mg/L)		Ratio of Max Detect to Industrial GW Vol to Indoor Air Criteria
nc - The Screening Criterion is based on noncancer effects.																	
Chem Group - Chemical Group																	
Meas Basis - Measured Basis; T = Total, D = Dissolved																	
Carc Class - EPA Weight-of-Evidence Cancer Classification																	

Table 16: On-Facility Soil Screening Results - AOI 2S
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Industrial Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect to Industrial Criteria	Occupational Soil Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to Occ Soil Vol Indoor Air Criteria	Industrial Soil Volatilization to Indoor Air Criteria (TR=1E-5 & HQ =1) (mg/kg)		Ratio of Max Detect to Ind Soil Vol Ind Air Criteria	Migration to GW (based on Drinking Water) (TR = 1E-5) Criteria (mg/kg)	Ratio of Site-Related Max Detect to MtGW Criteria
2S	VOC	Acetone	67-64-1	ID	209	46	4.70E-03	6.80E-01		6.00E+03	NC	1.1E-04	1.35E+06	5.0E-07	2.59E+03	NC	2.6E-04	1.48E+03	4.6E-04
2S	VOC	Benzene	71-43-2	A	217	10	3.10E-04	2.40E-03		1.30E+01	C	1.8E-04	1.41E+02	1.7E-05	2.31E-01	C	1.0E-02	2.00E+00	1.2E-03
2S	VOC	Bromodichloromethane	75-27-4	B2	217					1.80E+01	C				3.27E-01	C		3.20E+01	
2S	VOC	Bromoform	75-25-2	B2	217					2.20E+03	C		3.31E+03		2.46E+01	C		3.20E+01	
2S	VOC	Bromomethane	74-83-9	D	217					1.30E+01	NC		4.52E+01		8.49E-02	NC		2.04E+01	
2S	VOC	2-Butanone	78-93-3	ID	214	15	1.40E-03	3.76E-01		2.70E+04	NC	1.4E-05	4.08E+05	9.2E-07	5.05E+03	NC	7.4E-05	8.80E+03	4.3E-05
2S	VOC	Carbon Disulfide	75-15-0		217	3	1.40E-03	2.40E-03		1.20E+03	NC	2.0E-06	2.64E+02	9.1E-06	8.65E+00	NC	2.8E-04	1.48E+03	1.6E-06
2S	VOC	Carbon Tetrachloride	56-23-5	B2	217					5.50E+00	C		1.49E+03		6.44E-02	C		2.00E+00	
2S	VOC	Chlorobenzene	108-90-7	D	217					5.30E+02	NC		7.74E+04		1.94E+01	NC		4.00E+01	
2S	VOC	Chloroethane	75-00-3		217					6.50E+01	C		2.77E+04		1.55E+02	NC		6.00E+03	
2S	VOC	Chloroform	67-66-3	B2	217					1.20E+01	NC		2.29E+03		8.34E-02	C		3.20E+01	
2S	VOC	Chloromethane	74-87-3	D	217	1	2.90E-02	2.90E-02		2.70E+01	C	1.1E-03	8.05E+02	3.6E-05	1.02E+00	NC	2.8E-02	2.08E+01	1.4E-03
2S	VOC	Cumene	98-82-8	D	140	10	6.50E-04	1.70E-01		2.00E+03	NC	8.5E-05	3.12E+03	5.4E-05	7.44E+00	NC	2.3E-02		
2S	VOC	Cyclohexane	110-82-7	ID	140	2	7.70E-04	2.00E-03		3.20E+04	NC	6.3E-08							
2S	VOC	1,2-Dibromo-3-chloropropane	96-12-8	B2	140					6.50E+00	NC				1.48E+00	NC		8.00E-02	
2S	VOC	Dibromochloromethane	124-48-1	C	217					2.60E+01	C				5.63E-01	C		3.20E+01	
2S	VOC	1,2-Dibromoethane	106-93-4	B2	140					2.80E-01	C				5.34E-02	C		2.00E-02	
2S	VOC	1,2-Dichlorobenzene	95-50-1	D	154	3	2.20E-03	7.20E-03		4.10E+03	NC	1.8E-06	1.78E+05	4.0E-08	3.47E+02	NC	2.1E-05	2.40E+02	3.0E-05
2S	VOC	1,3-Dichlorobenzene	541-73-1	D	154					6.30E+01	NC				4.09E+02	NC		1.32E+01	
2S	VOC	1,4-Dichlorobenzene	106-46-7	C	154					7.90E+01	C		4.18E+05		6.04E+00	C		3.00E+01	
2S	VOC	Dichlorodifluoromethane	75-71-8		140	2	3.60E-03	1.50E-01		3.10E+02	NC	4.8E-04	1.89E+04	8.0E-06	1.11E+00	NC	1.3E-01	2.92E+03	5.1E-05
2S	VOC	1,1-Dichloroethane	75-34-3	C	217	10	4.10E-04	9.85E-02		1.70E+03	NC	5.8E-05	1.05E+04	9.4E-06	1.92E+01	NC	5.1E-03	1.48E+03	6.7E-05
2S	VOC	1,2-Dichloroethane	107-06-2	B2	217					6.00E+00	C		3.50E+03		1.36E-01	C		2.00E+00	
2S	VOC	1,1-Dichloroethene	75-35-4	C	217	1	2.00E-03	2.00E-03		4.10E+02	NC	4.9E-06	2.23E+02	9.0E-06	3.29E+00	NC	6.1E-04	2.80E+00	7.1E-04
2S	VOC	1,2-Dichloroethene (total)	540-59-0		77	19	6.00E-03	7.80E+00		1.50E+02	NC	5.2E-02	1.95E+04	4.0E-04	1.14E+00	NC	**6.9E+00**	1.48E+02	5.3E-02
2S	VOC	cis-1,2-Dichloroethene	156-59-2	D	218	96	7.00E-04	2.20E+01		1.50E+02	NC	1.5E-01	3.07E+04	7.2E-04	1.98E+00	NC	**1.1E+01**	2.80E+01	7.9E-01
2S	VOC	trans-1,2-Dichloroethene	156-60-5		218	23	7.10E-04	2.10E-01		2.30E+02	NC	9.1E-04	1.96E+04	1.1E-05	2.53E+00	NC	8.3E-02	4.00E+01	5.3E-03
2S	VOC	1,2-Dichloropropane	78-87-5	B2	217	12	8.90E-04	9.79E-02		7.40E+00	C	1.3E-02	2.30E+04	4.3E-06	3.84E-01	NC	2.6E-01	2.00E+00	4.9E-02
2S	VOC	1,3-Dichloropropene (total)	542-75-6	B2	217					1.80E+01	C		5.84E+01		1.31E-01	C		2.68E+00	
2S	VOC	Ethyl Benzene	100-41-4	D	217	7	4.20E-04	2.70E-01		7.40E+03	NC	3.6E-05	7.45E+04	3.6E-06	2.50E+02	NC	1.1E-03	2.80E+02	9.6E-04
2S	VOC	n-Hexane	110-54-3		77					4.00E+02	NC								
2S	VOC	2-Hexanone	591-78-6		217	1	1.00E-03	1.00E-03											
2S	VOC	Methyl Acetate	79-20-9		140	2	8.50E-02	9.30E-02		9.20E+04	NC	1.0E-06						1.48E+04	6.3E-06
2S	VOC	Methyl tert-butyl ether	1634-04-4		140					1.60E+03	C							8.00E+01	
2S	VOC	4-Methyl-2-pentanone	108-10-1	ID	217	7	2.00E-03	2.23E-01		2.80E+03	NC	8.0E-05	2.64E+05	8.4E-07	2.83E+03	NC	7.9E-05	1.16E+03	1.9E-04
2S	VOC	Methylcyclohexane	108-87-2		140	4	6.20E-04	2.70E-03		8.70E+03	NC	3.1E-07							
2S	VOC	Methylene Chloride	75-09-2	B2	218	26	1.00E-03	2.30E+00		2.10E+02	C	1.1E-02	2.66E+03	8.7E-04	2.66E+00	C	8.6E-01	2.00E+00	**1.2E+00**
2S	VOC	Styrene	100-42-5		217					1.80E+04	NC		4.38E+05		1.50E+03	NC		4.00E+01	
2S	VOC	1,1,2,2-Tetrachloroethane	79-34-5	C	217					9.30E+00	C		3.64E+04		7.34E-01	C		1.36E+00	
2S	VOC	Tetrachloroethene	127-18-4	C-B2	218	113	6.50E-04	1.10E+03		3.40E+01	C	**3.2E+01**	2.30E+04	4.8E-02	4.53E-01	C	**2.4E+03**	2.00E+00	**5.5E+02**
2S	VOC	Toluene	108-88-3	D	217	60	2.90E-04	3.00E-01		2.20E+03	NC	1.4E-04	7.86E+04	3.8E-06	6.09E+01	NC	4.9E-03	4.00E+02	7.5E-04
2S	VOC	1,2,4-Trichlorobenzene	120-82-1	D	154	2	3.50E-04	6.00E-04		5.60E+03	NC	1.1E-07			1.35E+03	NC	4.4E-07	2.80E+01	2.1E-05
2S	VOC	1,1,1-Trichloroethane	71-55-6	D	217					6.90E+03	NC		5.06E+04		8.55E+01	NC		8.00E+01	
2S	VOC	1,1,2-Trichloroethane	79-00-5	C	217					1.60E+01	C		1.00E+04		5.68E-01	C		2.00E+00	
2S	VOC	Trichloroethene	79-01-6	C-B2	218	86	5.30E-04	4.00E+01		6.12E+01	C	6.5E-01	3.36E+04	1.2E-03	1.50E+00	C	**2.7E+01**	2.00E+00	**2.0E+01**
2S	VOC	Trichlorofluoromethane	75-69-4		140					1.30E+03	NC		4.77E+04		8.70E+00	NC		4.40E+03	
2S	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1		141	37	1.60E-03	1.20E+03		6.90E+04	NC	1.7E-02	9.28E+04	1.3E-02	5.35E+02	NC	**2.2E+00**		
2S	VOC	Vinyl Chloride	75-01-4	A	217	35	1.40E-03	1.00E+00		7.50E+00	C	1.3E-01	1.42E+01	7.0E-02	2.59E-02	C	**3.9E+01**	8.00E-01	**1.3E+00**
2S	VOC	Xylenes (total)	1330-20-7	ID	217	8	1.40E-03	1.60E+00		9.00E+02	NC	1.8E-03	9.25E+04	1.7E-05	3.10E+01	NC	5.2E-02		
2S	SVOC	Acenaphthene	83-32-9		184	1	9.30E-02	9.30E-02		2.90E+04	NC	3.2E-06			5.11E+04	NC	1.8E-06		
2S	SVOC	Acenaphthylene	208-96-8	D	184	9	3.30E-02	2.40E+00		2.90E+04	NC	8.3E-05			2.43E+04	NC	9.9E-05		
2S	SVOC	Acetophenone	98-86-2	D	24								7.73E+05		8.04E+03	NC			
2S	SVOC	Anthracene	120-12-7	D	184	3	8.10E-03	4.40E-02		2.40E+05	NC	1.8E-07							
2S	SVOC	Atrazine	1912-24-9	C	24					7.80E+01	C							1.20E+00	
2S	SVOC	Benzaldehyde	100-52-7		24					6.20E+04	NC							1.48E+03	
2S	SVOC	Benzo(a)anthracene	56-55-3	B2	184	30	5.60E-03	5.60E+00		2.10E+01	C	2.7E-01			8.49E+04	C	6.6E-05		
2S	SVOC	Benzo(a)pyrene	50-32-8	B2	184	26	5.40E-03	5.60E+00		2.10E+00	C	**2.7E+00**			1.52E+05	C	3.7E-05		
2S	SVOC	Benzo(b)fluoranthene	205-99-2	B2	184	36	1.80E-03	5.40E+00		2.10E+01	C	2.6E-01			8.09E+03	C	6.7E-04		
2S	SVOC	Benzo(g,h,i)perylene	191-24-2	D	184	20	5.50E-03	1.60E+00		2.90E+04	NC	5.5E-05			6.46E+09	NC	2.5E-10		
2S	SVOC	Benzo(k)fluoranthene	207-08-9	B2	184	39	1.90E-03	2.20E+00		2.10E+02	C	1.0E-02			1.08E+07	C	2.0E-07		
2S	SVOC	Biphenyl	92-52-4	D	24					2.30E+04	NC								

Table 16: On-Facility Soil Screening Results - AOI 2S
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Industrial Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect to Industrial Criteria	Occupational Soil Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to Occ Soil Vol Indoor Air Criteria	Industrial Soil Volatilization to Indoor Air Criteria (TR=1E-5 & HQ =1) (mg/kg)		Ratio of Max Detect to Ind Soil Vol Ind Air Criteria	Migration to GW (based on Drinking Water) (TR = 1E-5) Criteria (mg/kg)	Ratio of Site-Related Max Detect to MtGW Criteria
2S	SVOC	bis(2-Chloroethoxy)methane	111-91-1	D	38														
2S	SVOC	bis(2-Chloroethyl) ether	111-44-4	B2	38					5.50E+00	C		1.23E+05		5.22E-01	C		2.44E-01	
2S	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	38	9	6.90E-02	3.30E+00		1.20E+03	C	2.8E-03	2.71E+12	1.2E-12	5.53E+09	C	6.0E-10	3.62E+03	9.1E-04
2S	SVOC	4-Bromophenyl-phenyl ether	101-55-3	D	38														
2S	SVOC	Butylbenzylphthalate	85-68-7	C	38					1.20E+05	NC				1.76E+08	NC			
2S	SVOC	Caprolactam	105-60-2		24					3.10E+05	NC							7.20E+03	
2S	SVOC	Carbazole	86-74-8	B2	38					8.60E+02	C				5.73E+06	C		1.36E+01	
2S	SVOC	4-Chloro-3-methylphenol	59-50-7		38														
2S	SVOC	4-Chloroaniline	106-47-8		38					2.50E+03	NC				1.60E+04	NC		6.00E+01	
2S	SVOC	2-Chloronaphthalene	91-58-7		38					2.30E+04	NC				2.28E+04	NC			
2S	SVOC	2-Chlorophenol	95-57-8		38					2.40E+02	NC				9.37E+01	NC		7.20E+01	
2S	SVOC	4-Chlorophenyl-phenyl ether	7005-72-3		38														
2S	SVOC	Chrysene	218-01-9	B2	184	35	7.50E-04	6.00E+00		2.10E+03	C	2.9E-03			3.06E+05	C	2.0E-05		
2S	SVOC	Dibenz(a,h)anthracene	53-70-3	B2	184	8	6.20E-03	2.40E+00		2.10E+00	C	1.1E+00			1.83E+07	C	1.3E-07	1.40E+01	1.7E-01
2S	SVOC	Dibenzofuran	132-64-9	D	38					3.10E+03	NC							6.00E+01	
2S	SVOC	3,3'-Dichlorobenzidine	91-94-1	B2	38					3.80E+01	C				2.08E+05	C		6.00E-01	
2S	SVOC	2,4-Dichlorophenol	120-83-2		38					1.80E+03	NC				2.70E+03	NC		4.40E+01	
2S	SVOC	Diethylphthalate	84-66-2	D	38					4.90E+05	NC		1.20E+07		9.83E+06	NC		1.16E+04	
2S	SVOC	2,4-Dimethylphenol	105-67-9		38					1.20E+04	NC				3.97E+04	NC		2.92E+02	
2S	SVOC	Dimethylphthalate	131-11-3	D	38					6.20E+06	NC		7.00E+06						
2S	SVOC	Di-n-butylphthalate	84-74-2	D	38	1	8.20E-02	8.20E-02		6.20E+04	NC	1.3E-06	6.44E+11	1.3E-13					
2S	SVOC	4,6-Dinitro-2-methylphenol	534-52-1		38								4.19E+05		1.07E+03	NC			
2S	SVOC	2,4-Dinitrophenol	51-28-5		38					1.20E+03	NC							2.92E+01	
2S	SVOC	2,4-Dinitrotoluene	121-14-2	B2	38					1.20E+03	NC							2.92E+01	
2S	SVOC	2,6-Dinitrotoluene	606-20-2	B2	38					6.20E+02	NC				7.73E+01	C		1.48E+01	
2S	SVOC	Di-n-octylphthalate	117-84-0		38	1	6.60E-02	6.60E-02		2.50E+04	NC	2.6E-06							
2S	SVOC	Fluoranthene	206-44-0	D	184	44	1.10E-03	1.70E+01		2.20E+04	NC	7.7E-04			5.01E+06	NC	3.4E-06		
2S	SVOC	Fluorene	86-73-7	D	184	3	8.40E-03	3.60E-02		2.60E+04	NC	1.4E-06			1.62E+05	NC	2.2E-07		
2S	SVOC	Hexachlorobenzene	118-74-1	B2	38					1.10E+01	C		3.03E+02		1.35E+01	C		2.20E+00	
2S	SVOC	Hexachlorobutadiene	87-68-3	C	38					1.80E+02	NC		5.10E+03		4.45E+01	C		1.85E+01	
2S	SVOC	Hexachlorocyclopentadiene	77-47-4	E	38					3.70E+03	NC		3.12E+03		8.17E+00	NC		4.00E+02	
2S	SVOC	Hexachloroethane	67-72-1	C	38					6.20E+02	NC		2.31E+04		2.36E+01	C		1.48E+01	
2S	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	B2	184	28	5.60E-03	3.50E+00		2.10E+01	C	1.7E-01			1.59E+06	C	2.2E-06		
2S	SVOC	Isophorone	78-59-1	C	38					1.80E+04	C		4.00E+06					2.84E+02	
2S	SVOC	1-Methylnaphthalene	90-12-0		131														
2S	SVOC	2-Methylnaphthalene	91-57-6	ID	171	1	2.30E+01	2.30E+01		1.90E+02	NC	1.2E-01						2.92E+02	7.9E-02
2S	SVOC	Methylphenol (total)	1319-77-3		38					3.10E+03	NC		8.43E+06		9.79E+04	NC		7.20E+01	
2S	SVOC	Naphthalene	91-20-3	C	184	7	4.50E-03	3.20E+00		1.90E+02	NC	1.7E-02	7.53E+05	4.2E-06	6.60E+01	NC	4.9E-02	2.92E+02	1.1E-02
2S	SVOC	2-Nitroaniline	88-74-4		38					1.80E+01	NC							4.00E-01	
2S	SVOC	3-Nitroaniline	99-09-2	C	38														
2S	SVOC	4-Nitroaniline	100-01-6	C	38														
2S	SVOC	Nitrobenzene	98-95-3	D	38					1.00E+02	NC		5.27E+04		3.08E+01	NC		7.20E+00	
2S	SVOC	2-Nitrophenol	88-75-5		38														
2S	SVOC	4-Nitrophenol	100-02-7		38														
2S	SVOC	N-Nitrosodiphenylamine	86-30-6	B2	38					3.50E+03	C							5.60E+01	
2S	SVOC	N-Nitroso-di-n-propylamine	621-64-7	B2	38					2.50E+00	C				9.71E-01	C		3.84E-02	
2S	SVOC	2,2'-oxybis(1-Chloropropane)	108-60-1	C	38					7.40E+01	C							3.84E+00	
2S	SVOC	Pentachlorophenol	87-86-5	B2	38					9.00E+01	C		4.42E+07		1.05E+05	C		4.00E-01	
2S	SVOC	Phenanthrene	85-01-8	D	184	18	2.50E-03	1.90E+01		2.90E+04	NC	6.6E-04			3.40E+05	NC	5.6E-05		
2S	SVOC	Phenol	108-95-2	ID	38					3.70E+05	NC		5.91E+06					8.80E+03	
2S	SVOC	Pyrene	129-00-0	D	184	68	4.50E-03	2.10E+01		2.90E+04	NC	7.2E-04			5.41E+06	NC	3.9E-06		
2S	SVOC	2,4,5-Trichlorophenol	95-95-4		38					6.20E+04	NC							1.48E+03	
2S	SVOC	2,4,6-Trichlorophenol	88-06-2	B2	38					6.20E+01	NC				2.41E+03	C		1.48E+00	
2S	P/PCB	PCBs (total)	1336-36-3	B2	12					7.40E+00	C		2.80E+05		4.00E+01	C		6.18E+00	
2S	P/PCB	Aldrin	309-00-2	B2	1					1.00E+00	C		1.38E+07		4.61E+02	C		3.92E+00	
2S	P/PCB	alpha-BHC	319-84-6	B2	1					3.60E+00	C				1.01E+01	C		4.40E-02	
2S	P/PCB	beta-BHC	319-85-7	C	1					1.30E+01	C				4.98E+02	C		1.48E-01	
2S	P/PCB	delta-BHC	319-86-8	D	1														
2S	P/PCB	gamma-BHC	58-89-9	B2-C	1					1.70E+01	C		1.47E+05		3.23E+01	C		8.00E-02	
2S	P/PCB	Chlordane (total)	57-74-9	B2	1								4.78E+06		3.91E+03	C		9.61E+00	
2S	P/PCB	4,4'-DDD	72-54-8	B2	1					1.00E+02	C				5.63E+05	C		1.12E+02	

Table 16: On-Facility Soil Screening Results - AOI 2S
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Industrial Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect to Industrial Criteria	Occupational Soil Volatilization to Indoor Air Criteria (mg/kg)	Ratio of Max Detect to Occ Soil Vol Indoor Air Criteria	Industrial Soil Volatilization to Indoor Air Criteria (TR=1E-5 & HQ =1) (mg/kg)		Ratio of Max Detect to Ind Soil Vol Ind Air Criteria	Migration to GW (based on Drinking Water) (TR = 1E-5) Criteria (mg/kg)	Ratio of Site-Related Max Detect to MtGW Criteria
2S	P/PCB	4,4'-DDE	72-55-9	B2	1					7.00E+01	C				3.42E+05	C		3.58E+02	
2S	P/PCB	4,4'-DDT	50-29-3	B2	1					7.00E+01	C		1.24E+09		5.24E+05	C			
2S	P/PCB	Dieldrin	60-57-1	B2	1					1.10E+00	C		1.37E+06		4.85E+01	C		3.61E-02	
2S	P/PCB	Endosulfan	115-29-7		1					3.70E+03	NC		7.43E+04		2.28E+04	NC			
2S	P/PCB	Endosulfan sulfate	1031-07-8		1					3.70E+03	NC							8.80E+01	
2S	P/PCB	Endrin	72-20-8	D	1					1.80E+02	NC		6.31E+05		9.67E+03	NC		9.92E-01	
2S	P/PCB	Endrin aldehyde	7421-93-4		1					1.80E+02	NC				1.01E+04	NC		4.40E+00	
2S	P/PCB	Endrin ketone	53494-70-5		1					1.80E+02	NC								
2S	P/PCB	Heptachlor	76-44-8	B2	1					3.80E+00	C		2.51E+06		1.58E+02	C		2.26E+01	
2S	P/PCB	Heptachlor epoxide	1024-57-3	B2	1					1.90E+00	C		1.68E+06		5.28E+02	C		6.66E-01	
2S	P/PCB	Methoxychlor	72-43-5	D	1					3.10E+03	NC		2.35E+08						
2S	P/PCB	Toxaphene	8001-35-2	B2	1					1.60E+01	C		8.29E+07		2.12E+04	C		3.09E+01	
2S	INORG	Arsenic	7440-38-2	A	180	180	1.10E+00	2.53E+01	1.50E+01	1.60E+01	C	6.4E-01						2.92E+01	3.5E-01
2S	INORG	Barium	7440-39-3	D	141	136	1.22E+01	1.66E+02	8.29E+01	6.70E+04	NC	1.2E-03						1.65E+03	5.0E-02
2S	INORG	Cadmium	7440-43-9	B1	141	11	3.70E-02	1.60E+00	1.41E-01	4.50E+02	NC	3.2E-03						7.52E+00	1.9E-01
2S	INORG	Chromium (total)	7440-47-3		141	141	4.00E+00	2.23E+01	1.93E+01	2.50E+03	NC	1.2E-03						4.00E+01	7.6E-02
2S	INORG	Copper	7440-50-8	D	46	46	4.10E+00	2.87E+01	2.59E+01	4.10E+04	NC	6.8E-05						9.15E+02	3.1E-03
2S	INORG	Lead	7439-92-1	B2	142	142	1.20E+00	1.02E+02	1.81E+01	7.50E+02	NC	1.1E-01						2.70E+02	3.1E-01
2S	INORG	Mercury	7439-97-6	D	141	8	2.30E-02	5.50E-01		1.36E+01	NC	4.0E-02	2.17E+03	2.5E-04	3.80E+01	NC	1.4E-02	4.00E+01	1.4E-02
2S	INORG	Selenium	7782-49-2	D	141	12	5.00E-01	9.30E-01	3.18E-01	5.10E+03	NC	1.2E-04						2.00E+01	3.1E-02
2S	INORG	Silver	7440-22-4	D	141					5.10E+03	NC							7.20E+01	
2S	INORG	Zinc	7440-66-6	D	46	46	8.30E+00	8.92E+01	7.20E+01	3.10E+05	NC	5.5E-05						1.37E+04	1.3E-03
2S	HERB	2,4-D	94-75-7		1					7.70E+03	NC		1.61E+09					2.80E+01	
2S	HERB	2,4,5-T	93-76-5		1					6.20E+03	NC		7.48E+09					1.48E+02	
2S	HERB	2,4,5-TP	93-72-1		1					4.90E+03	NC							2.00E+01	

Notes:

The Screening Criteria for Pyrene were used as surrogates for Phenanthrene and Benzo(g,h,i)perylene.

The Screening Criteria for Phenol were used as surrogates for Phenols (total).

The Screening Criteria for Naphthalene were used as surrogates for 2-Methylnaphthalene.

The Screening Criteria for cis-1,2-Dichloroethene were used as surrogates for 1,2-Dichloroethene (total).

The Screening Criteria for Chromium VI was used as a surrogate for Chromium (total).

The concentrations for the Methylphenol (2, 3, & 4) were summed before comparing to the Screening Criteria for 4-Methylphenol.

The concentrations for all PCB isomers were summed before comparing to Polychlorinated biphenyls (PCBs) for cancer effects and Aroclor 1254 for noncancer effects.

The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.

The concentrations for the Chlordane isomers (alpha and gamma) were summed before comparing to the Screening Criteria.

The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.

The Screening Criteria for Mercury was calculated by ENVIRON to account for the vapor inhalation pathway using: EPA Region 9 equations, RfC from IRIS, and chemical properties from EPA's Soil Screening Guidance.

The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.

For the Ratio of Max Site-Related Detect to Industrial Criteria the ratios of metals concentrations to the screening criteria include only site-related contributions

For the Ratio of Max Site-Related Detect to Migration to Ground Water Criteria the ratios of metals concentrations to the screening criteria include only site-related contributions

c - The Screening Criterion is based on cancer risk.

nc - The Screening Criterion is based on noncancer effects.

Chem Group - Chemical Group

Carc Class - EPA Weight-of-Evidence Cancer Classification

Table 17a: On-Facility Unconsolidated Unit Water Screening Results - AOI 2S
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria	Occupational GW Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to OCC GW Vol to Indoor Air Criteria	Industrial GW Volatilization to Indoor Air (TR=E-5 or HQ=1) (mg/L)		Ratio of Max Detect to Industrial GW Vol to Indoor Air Criteria
2S	VOC	Acetone	67-64-1	T	ID	1				6.26E+03	NC		4.98E+07		9.55E+04	NC	
2S	VOC	Benzene	71-43-2	T	A	3	2	3.70E-04	6.40E-04	4.53E+00	C	1.4E-04	3.65E+03	1.8E-07	5.99E+00	C	1.1E-04
2S	VOC	Bromodichloromethane	75-27-4	T	B2	3				3.20E+00	C				4.91E+00	C	
2S	VOC	Bromoform	75-25-2	T	B2	3				6.78E+01	C		2.61E+04		1.94E+02	C	
2S	VOC	Bromomethane	74-83-9	T	D	3				3.01E+00	NC		3.81E+03		7.16E+00	NC	
2S	VOC	2-Butanone	78-93-3	T	ID	1				8.04E+03	NC		9.47E+06		1.17E+05	NC	
2S	VOC	Carbon Disulfide	75-15-0	T		3				3.49E+02	NC		2.43E+04		7.97E+02	NC	
2S	VOC	Carbon Tetrachloride	56-23-5	T	B2	3				2.93E+00	C		5.67E+04		2.46E+00	C	
2S	VOC	Chlorobenzene	108-90-7	T	D	3				3.65E+01	NC		5.03E+05		1.26E+02	NC	
2S	VOC	Chloroethane	75-00-3	T		3				2.09E+03	C		2.00E+06		1.12E+04	NC	
2S	VOC	Chloroform	67-66-3	T	B2	2				2.11E+00	C		6.01E+04		2.19E+00	C	
2S	VOC	Chloromethane	74-87-3	T	D	3				4.00E+01	NC		1.39E+05		1.77E+02	NC	
2S	VOC	Cumene	98-82-8	T	D	3				1.89E+02	NC		1.68E+05		4.01E+02	NC	
2S	VOC	Cyclohexane	110-82-7	T	ID	3	1	4.30E-04	4.30E-04	3.39E+03	NC	1.3E-07	7.00E+05	6.1E-10	5.84E+03	NC	7.4E-08
2S	VOC	1,2-Dibromo-3-chloropropane	96-12-8	T	B2	3				3.21E-01	NC				2.28E+00	NC	
2S	VOC	Dibromochloromethane	124-48-1	T	C	3				2.83E+00	C				6.15E+00	C	
2S	VOC	1,2-Dibromoethane	106-93-4	T	B2	3				9.11E-02	C				5.16E-01	C	
2S	VOC	1,2-Dichlorobenzene	95-50-1	T	D	3				1.35E+02	NC		2.90E+05		5.63E+02	NC	
2S	VOC	1,3-Dichlorobenzene	541-73-1	T	D	3				8.18E+01	NC				3.36E+02	NC	
2S	VOC	1,4-Dichlorobenzene	106-46-7	T	C	3				6.78E+00	C		7.97E+05		1.15E+01	C	
2S	VOC	Dichlorodifluoromethane	75-71-8	T		3				1.34E+02	NC		3.46E+06		2.04E+02	NC	
2S	VOC	1,1-Dichloroethane	75-34-3	T	C	3				3.00E+02	NC		4.46E+05		8.14E+02	NC	
2S	VOC	1,2-Dichloroethane	107-06-2	T	B2	3				1.81E+00	C		8.35E+04		3.24E+00	C	
2S	VOC	1,1-Dichloroethene	75-35-4	T	C	3				1.16E+02	NC		1.56E+04		2.30E+02	NC	
2S	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	3	2	4.90E-03	3.50E-02	2.11E+01	NC	1.7E-03	9.22E+05	3.8E-08	5.94E+01	NC	5.9E-04
2S	VOC	trans-1,2-Dichloroethene	156-60-5	T		3				4.12E+01	NC		7.13E+05		9.19E+01	NC	
2S	VOC	1,2-Dichloropropane	78-87-5	T	B2	3				2.72E+00	NC		5.40E+05		9.01E+00	NC	
2S	VOC	1,3-Dichloropropene (total)	542-75-6	T	B2	3				9.00E+00	C		4.18E+03		9.41E+00	C	
2S	VOC	Ethyl Benzene	100-41-4	T	D	3	2	2.10E-04	3.20E-04	4.18E+02	NC	7.7E-07	5.59E+05	5.7E-10	1.88E+03	NC	1.7E-07
2S	VOC	2-Hexanone	591-78-6	T		3				3.29E+00	NC		1.69E+05		3.01E+00	NC	
2S	VOC	Methyl Acetate	79-20-9	T		3				7.84E+04	NC		2.06E+08		1.72E+06	NC	
2S	VOC	Methyl tert-butyl ether	1634-04-4	T		3				4.15E+02	C		5.04E+05		1.14E+03	C	
2S	VOC	4-Methyl-2-pentanone	108-10-1	T	ID	3				3.43E+03	NC		3.43E+06		3.66E+04	NC	
2S	VOC	Methylcyclohexane	108-87-2	T		3	2	5.70E-04	6.10E-04	1.83E+03	NC	3.3E-07	1.30E+06	4.7E-10	2.84E+03	NC	2.1E-07
2S	VOC	Methylene Chloride	75-09-2	T	B2	3				8.29E+01	C		1.15E+05		1.16E+02	C	
2S	VOC	Styrene	100-42-5	T		3				5.41E+02	NC		7.14E+05		2.45E+03	NC	
2S	VOC	1,1,2,2-Tetrachloroethane	79-34-5	T	C	3				1.19E+00	C		1.55E+05		3.13E+00	C	
2S	VOC	Tetrachloroethene	127-18-4	T	C-B2	3	3	5.70E-03	1.30E-02	1.33E+01	C	9.8E-04	7.14E+05	1.8E-08	1.41E+01	C	9.2E-04
2S	VOC	Toluene	108-88-3	T	D	3	2	9.90E-04	1.50E-03	2.26E+02	NC	6.6E-06	9.12E+05	1.6E-09	7.07E+02	NC	2.1E-06
2S	VOC	1,2,4-Trichlorobenzene	120-82-1	T	D	3				4.23E+01	NC				7.51E+02	NC	
2S	VOC	1,1,1-Trichloroethane	71-55-6	T	D	3				1.37E+03	NC		1.89E+06		3.19E+03	NC	
2S	VOC	1,1,2-Trichloroethane	79-00-5	T	C	3				3.35E+00	C		1.08E+05		6.14E+00	C	
2S	VOC	Trichloroethene	79-01-6	T	C-B2	3	2	3.00E-03	1.20E+00	2.50E+01	C	4.8E-02	5.73E+05	2.1E-06	2.57E+01	C	4.7E-02
2S	VOC	Trichlorofluoromethane	75-69-4	T		3				4.83E+02	NC		3.88E+06		7.09E+02	NC	
2S	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	T		3	2	2.80E-04	9.60E-04	2.43E+04	NC	4.0E-08	5.00E+06	1.9E-10	2.88E+04	NC	3.3E-08
2S	VOC	Vinyl Chloride	75-01-4	T	A	3				1.94E+00	C		1.70E+03		3.10E+00	C	
2S	VOC	Xylenes (total)	1330-20-7	T	ID	3	2	6.20E-04	8.90E-04	6.28E+01	NC	1.4E-05	5.27E+05	1.7E-09	1.77E+02	NC	5.0E-06

Table 17a: On-Facility Unconsolidated Unit Water Screening Results - AOI 2S
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria	Occupational GW Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to OCC GW Vol to Indoor Air Criteria	Industrial GW Volatilization to Indoor Air (TR=E-5 or HQ=1) (mg/L)		Ratio of Max Detect to Industrial GW Vol to Indoor Air Criteria
Notes:																	
The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.																	
The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.																	
The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.																	
c - The Screening Criterion is based on cancer risk.																	
nc - The Screening Criterion is based on noncancer effects.																	
Chem Group - Chemical Group																	
Meas Basis - Measured Basis; T = Total, D = Dissolved																	
Carc Class - EPA Weight-of-Evidence Cancer Classification																	

Table 17b: On-Facility Storm Sewer Backfill Water Screening Results - AOI 2S
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria	Occupational GW Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to OCC GW Vol to Indoor Air Criteria	Industrial GW Volatilization to Indoor Air (TR=E-5 or HQ=1) (mg/L)		Ratio of Max Detect to Industrial GW Vol to Indoor Air Criteria
2S	VOC	Acetone	67-64-1	T	ID	11	7	2.20E-02	1.70E+00	6.26E+03	NC	2.7E-04	4.98E+07	3.4E-08	9.55E+04	NC	1.8E-05
2S	VOC	Benzene	71-43-2	T	A	11				4.53E+00	C		3.65E+03		5.99E+00	C	
2S	VOC	Bromodichloromethane	75-27-4	T	B2	11				3.20E+00	C				4.91E+00	C	
2S	VOC	Bromoform	75-25-2	T	B2	11				6.78E+01	C		2.61E+04		1.94E+02	C	
2S	VOC	Bromomethane	74-83-9	T	D	11				3.01E+00	NC		3.81E+03		7.16E+00	NC	
2S	VOC	2-Butanone	78-93-3	T	ID	11	3	3.20E-02	1.50E-01	8.04E+03	NC	1.9E-05	9.47E+06	1.6E-08	1.17E+05	NC	1.3E-06
2S	VOC	Carbon Disulfide	75-15-0	T		11	1	4.60E-03	4.60E-03	3.49E+02	NC	1.3E-05	2.43E+04	1.9E-07	7.97E+02	NC	5.8E-06
2S	VOC	Carbon Tetrachloride	56-23-5	T	B2	11				2.93E+00	C		5.67E+04		2.46E+00	C	
2S	VOC	Chlorobenzene	108-90-7	T	D	11				3.65E+01	NC		5.03E+05		1.26E+02	NC	
2S	VOC	Chloroethane	75-00-3	T		11				2.09E+03	C		2.00E+06		1.12E+04	NC	
2S	VOC	Chloroform	67-66-3	T	B2	11	1	2.10E-02	2.10E-02	2.11E+00	C	9.9E-03	6.01E+04	3.5E-07	2.19E+00	C	9.6E-03
2S	VOC	Chloromethane	74-87-3	T	D	11				4.00E+01	NC		1.39E+05		1.77E+02	NC	
2S	VOC	Dibromochloromethane	124-48-1	T	C	11				2.83E+00	C				6.15E+00	C	
2S	VOC	1,1-Dichloroethane	75-34-3	T	C	11				3.00E+02	NC		4.46E+05		8.14E+02	NC	
2S	VOC	1,2-Dichloroethane	107-06-2	T	B2	11				1.81E+00	C		8.35E+04		3.24E+00	C	
2S	VOC	1,1-Dichloroethene	75-35-4	T	C	11				1.16E+02	NC		1.56E+04		2.30E+02	NC	
2S	VOC	1,2-Dichloroethene (total)	540-59-0	T		11	6	7.10E-03	1.70E+00	1.87E+01	NC	9.1E-02	7.11E+05	2.4E-06	4.14E+01	NC	4.1E-02
2S	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	11	7	6.80E-03	1.70E+00	2.11E+01	NC	8.0E-02	9.22E+05	1.8E-06	5.94E+01	NC	2.9E-02
2S	VOC	trans-1,2-Dichloroethene	156-60-5	T		11				4.12E+01	NC		7.13E+05		9.19E+01	NC	
2S	VOC	1,2-Dichloropropane	78-87-5	T	B2	11				2.72E+00	NC		5.40E+05		9.01E+00	NC	
2S	VOC	1,3-Dichloropropene (total)	542-75-6	T	B2	11				9.00E+00	C		4.18E+03		9.41E+00	C	
2S	VOC	Ethyl Benzene	100-41-4	T	D	11				4.18E+02	NC		5.59E+05		1.88E+03	NC	
2S	VOC	n-Hexane	110-54-3	T		11				1.21E+02	NC						
2S	VOC	2-Hexanone	591-78-6	T		11				3.29E+00	NC		1.69E+05		3.01E+00	NC	
2S	VOC	4-Methyl-2-pentanone	108-10-1	T	ID	11				3.43E+03	NC		3.43E+06		3.66E+04	NC	
2S	VOC	Methylene Chloride	75-09-2	T	B2	11				8.29E+01	C		1.15E+05		1.16E+02	C	
2S	VOC	Styrene	100-42-5	T		11				5.41E+02	NC		7.14E+05		2.45E+03	NC	
2S	VOC	1,1,2,2-Tetrachloroethane	79-34-5	T	C	11				1.19E+00	C		1.55E+05		3.13E+00	C	
2S	VOC	Tetrachloroethene	127-18-4	T	C-B2	11	8	3.40E-03	6.90E+00	1.33E+01	C	5.2E-01	7.14E+05	9.7E-06	1.41E+01	C	4.9E-01
2S	VOC	Toluene	108-88-3	T	D	11				2.26E+02	NC		9.12E+05		7.07E+02	NC	
2S	VOC	1,1,1-Trichloroethane	71-55-6	T	D	11				1.37E+03	NC		1.89E+06		3.19E+03	NC	
2S	VOC	1,1,2-Trichloroethane	79-00-5	T	C	11				3.35E+00	C		1.08E+05		6.14E+00	C	
2S	VOC	Trichloroethene	79-01-6	T	C-B2	11	5	4.20E-03	3.70E-01	2.50E+01	C	1.5E-02	5.73E+05	6.5E-07	2.57E+01	C	1.4E-02
2S	VOC	Vinyl Chloride	75-01-4	T	A	11				1.94E+00	C		1.70E+03		3.10E+00	C	
2S	VOC	Xylenes (total)	1330-20-7	T	ID	11				6.28E+01	NC		5.27E+05		1.77E+02	NC	

Notes:

The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.

The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.

The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.

c - The Screening Criterion is based on cancer risk.

nc - The Screening Criterion is based on noncancer effects.

Chem Group - Chemical Group

Meas Basis - Measured Basis; T = Total, D = Dissolved

Carc Class - EPA Weight-of-Evidence Cancer Classification

Table 18: Sewer Water Screening Results - AOI 2S
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)		Ratio of Max Detect to DW Criteria	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria
2S	VOC	Acetone	67-64-1	T	ID	12				3.70E+00	NC		6.26E+03	NC	
2S	VOC	Benzene	71-43-2	T	A	12				5.00E-03	C		4.53E+00	C	
2S	VOC	Bromodichloromethane	75-27-4	T	B2	12				8.00E-02	C		3.20E+00	C	
2S	VOC	Bromoform	75-25-2	T	B2	12				8.00E-02	C		6.78E+01	C	
2S	VOC	Bromomethane	74-83-9	T	D	12				5.10E-02	NC		3.01E+00	NC	
2S	VOC	2-Butanone	78-93-3	T	ID	12				2.20E+01	NC		8.04E+03	NC	
2S	VOC	Carbon Disulfide	75-15-0	T		12				3.70E+00	NC		3.49E+02	NC	
2S	VOC	Carbon Tetrachloride	56-23-5	T	B2	12				5.00E-03	C		2.93E+00	C	
2S	VOC	Chlorobenzene	108-90-7	T	D	12				1.00E-01	NC		3.65E+01	NC	
2S	VOC	Chloroethane	75-00-3	T		12				1.50E+01	NC		2.09E+03	C	
2S	VOC	Chloroform	67-66-3	T	B2	12				8.00E-02	NC		2.11E+00	C	
2S	VOC	Chloromethane	74-87-3	T	D	12				5.20E-02	C		4.00E+01	NC	
2S	VOC	Dibromochloromethane	124-48-1	T	C	12				8.00E-02	C		2.83E+00	C	
2S	VOC	1,1-Dichloroethane	75-34-3	T	C	12				3.70E+00	NC		3.00E+02	NC	
2S	VOC	1,2-Dichloroethane	107-06-2	T	B2	12				5.00E-03	C		1.81E+00	C	
2S	VOC	1,1-Dichloroethene	75-35-4	T	C	12				7.00E-03	NC		1.16E+02	NC	
2S	VOC	1,2-Dichloroethene (total)	540-59-0	T		12	12	4.80E-03	2.20E-01	3.70E-01	NC	5.9E-01	1.87E+01	NC	1.2E-02
2S	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	12	12	4.80E-03	2.20E-01	7.00E-02	NC	**3.1E+00**	2.11E+01	NC	1.0E-02
2S	VOC	trans-1,2-Dichloroethene	156-60-5	T		12				1.00E-01	NC		4.12E+01	NC	
2S	VOC	1,2-Dichloropropane	78-87-5	T	B2	12				5.00E-03	C		2.72E+00	NC	
2S	VOC	1,3-Dichloropropene (total)	542-75-6	T	B2	12				6.70E-03	C		9.00E+00	C	
2S	VOC	Ethyl Benzene	100-41-4	T	D	12				7.00E-01	NC		4.18E+02	NC	
2S	VOC	n-Hexane	110-54-3	T		12				2.20E+00	NC		1.21E+02	NC	
2S	VOC	2-Hexanone	591-78-6	T		12							3.29E+00	NC	
2S	VOC	4-Methyl-2-pentanone	108-10-1	T	ID	12				2.90E+00	NC		3.43E+03	NC	
2S	VOC	Methylene Chloride	75-09-2	T	B2	12				5.00E-03	C		8.29E+01	C	
2S	VOC	Styrene	100-42-5	T		12				1.00E-01	NC		5.41E+02	NC	
2S	VOC	1,1,2,2-Tetrachloroethane	79-34-5	T	C	12				3.40E-03	C		1.19E+00	C	
2S	VOC	Tetrachloroethene	127-18-4	T	C-B2	12	12	8.20E-03	9.30E-02	5.00E-03	C	**1.9E+01**	1.33E+01	C	7.0E-03
2S	VOC	Toluene	108-88-3	T	D	12				1.00E+00	NC		2.26E+02	NC	
2S	VOC	1,1,1-Trichloroethane	71-55-6	T	D	12				2.00E-01	NC		1.37E+03	NC	
2S	VOC	1,1,2-Trichloroethane	79-00-5	T	C	12				5.00E-03	C		3.35E+00	C	
2S	VOC	Trichloroethene	79-01-6	T	C-B2	12	12	2.80E-03	4.90E-02	5.00E-03	C	**9.8E+00**	2.50E+01	C	2.0E-03
2S	VOC	Vinyl Chloride	75-01-4	T	A	12	1	4.10E-03	4.10E-03	2.00E-03	C	**2.1E+00**	1.94E+00	C	2.1E-03
2S	VOC	Xylenes (total)	1330-20-7	T	ID	12				1.00E+01	NC		6.28E+01	NC	

Notes:

The Screening Criteria for cis-1,2-Dichloroethene were used as surrogates for 1,2-Dichloroethene (total).

The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.

The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.

The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.

c - The Screening Criterion is based on cancer risk.

nc - The Screening Criterion is based on noncancer effects.

Chem Group - Chemical Group

Meas Basis - Measured Basis; T = Total, D = Dissolved

Carc Class - EPA Weight-of-Evidence Cancer Classification

Table 19: Off-Facility Soil Screening Results - AOI 3
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Residential Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect to Residential Criteria	Industrial Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect to Industrial Criteria	MTGW (based on Drinking Water) (TR = 1E-5) Criteria (mg/kg)	Ratio of Site-Related Max Detect to MTGW Criteria
3	VOC	Carbon Tetrachloride	56-23-5	B2	13					2.20E+00	NC		5.50E+00	C		2.00E+00	
3	VOC	Chlorobenzene	108-90-7	D	13					1.50E+02	NC		5.30E+02	NC		4.00E+01	
3	VOC	Chloroethane	75-00-3		13					3.00E+01	C		6.50E+01	C		6.00E+03	
3	VOC	Chloroform	67-66-3	B2	13					3.60E+00	NC		1.20E+01	NC		3.20E+01	
3	VOC	Acetone	67-64-1	ID	13	3	6.20E-03	1.13E-02		1.60E+03	NC	7.0E-06	6.00E+03	NC	1.9E-06	1.48E+03	7.60E-06
3	VOC	Benzene	71-43-2	A	13					6.00E+00	C		1.30E+01	C		2.00E+00	
3	VOC	Bromodichloromethane	75-27-4	B2	13					8.20E+00	C		1.80E+01	C		3.20E+01	
3	VOC	Bromoform	75-25-2	B2	13					6.20E+02	C		2.20E+03	C		3.20E+01	
3	VOC	Bromomethane	74-83-9	D	13					3.90E+00	NC		1.30E+01	NC		2.04E+01	
3	VOC	2-Butanone	78-93-3	ID	13	1	1.90E-03	1.90E-03		7.30E+03	NC	2.6E-07	2.70E+04	NC	7.0E-08	8.80E+03	2.16E-07
3	VOC	Carbon Disulfide	75-15-0		13	1	1.30E-03	1.30E-03		3.60E+02	NC	3.6E-06	1.20E+03	NC	1.1E-06	1.48E+03	8.78E-07
3	VOC	Chloromethane	74-87-3	D	13					1.20E+01	C		2.70E+01	C		2.08E+01	
3	VOC	Cumene	98-82-8	D	13					5.70E+02	NC		2.00E+03	NC			
3	VOC	Cyclohexane	110-82-7	ID	13					9.50E+03	NC		3.20E+04	NC			
3	VOC	1,2-Dibromo-3-chloropropane	96-12-8	B2	13					1.50E+00	NC		6.50E+00	NC		8.00E-02	
3	VOC	Dibromochloromethane	124-48-1	C	13					1.10E+01	C		2.60E+01	C		3.20E+01	
3	VOC	1,2-Dibromoethane	106-93-4	B2	13					6.90E-02	C		2.80E-01	C		2.00E-02	
3	VOC	1,2-Dichlorobenzene	95-50-1	D	13					1.10E+03	NC		4.10E+03	NC		2.40E+02	
3	VOC	1,3-Dichlorobenzene	541-73-1	D	13					1.60E+01	NC		6.30E+01	NC		1.32E+01	
3	VOC	1,4-Dichlorobenzene	106-46-7	C	13					3.50E+01	C		7.90E+01	C		3.00E+01	
3	VOC	Dichlorodifluoromethane	75-71-8		13					9.40E+01	NC		3.10E+02	NC		2.92E+03	
3	VOC	1,1-Dichloroethane	75-34-3	C	13	1	1.70E-03	1.70E-03		5.10E+02	NC	3.3E-06	1.70E+03	NC	1.0E-06	1.48E+03	1.15E-06
3	VOC	1,2-Dichloroethane	107-06-2	B2	13					2.80E+00	C		6.00E+00	C		2.00E+00	
3	VOC	1,1-Dichloroethene	75-35-4	C	13					1.20E+02	NC		4.10E+02	NC		2.80E+00	
3	VOC	cis-1,2-Dichloroethene	156-59-2	D	13	1	2.53E-03	2.53E-03		4.30E+01	NC	5.9E-05	1.50E+02	NC	1.7E-05	2.80E+01	9.02E-05
3	VOC	trans-1,2-Dichloroethene	156-60-5		13					7.00E+01	NC		2.30E+02	NC		4.00E+01	
3	VOC	1,2-Dichloropropane	78-87-5	B2	13	1	2.15E-03	2.15E-03		3.40E+00	C	6.3E-04	7.40E+00	C	2.9E-04	2.00E+00	1.08E-03
3	VOC	1,3-Dichloropropene (total)	542-75-6	B2	13					7.80E+00	C		1.80E+01	C		2.68E+00	
3	VOC	Ethyl Benzene	100-41-4	D	13					1.90E+03	NC		7.40E+03	NC		2.80E+02	
3	VOC	2-Hexanone	591-78-6		13												
3	VOC	Methyl Acetate	79-20-9		13	2	2.40E-03	4.00E-03		2.20E+04	NC	1.8E-07	9.20E+04	NC	4.3E-08	1.48E+04	2.70E-07
3	VOC	Methyl tert-butyl ether	1634-04-4		13					6.20E+02	C		1.60E+03	C		8.00E+01	
3	VOC	4-Methyl-2-pentanone	108-10-1	ID	13					7.90E+02	NC		2.80E+03	NC		1.16E+03	
3	VOC	Methylcyclohexane	108-87-2		13					2.60E+03	NC		8.70E+03	NC			
3	VOC	Methylene Chloride	75-09-2	B2	13	13	3.05E-03	1.10E-02		9.10E+01	C	1.2E-04	2.10E+02	C	5.2E-05	2.00E+00	5.50E-03
3	VOC	Styrene	100-42-5		13					4.40E+03	NC		1.80E+04	NC		4.00E+01	
3	VOC	1,1,2,2-Tetrachloroethane	79-34-5	C	13					4.10E+00	C		9.30E+00	C		1.36E+00	
3	VOC	Tetrachloroethene	127-18-4	C-B2	13	1	2.89E-01	2.89E-01		1.50E+01	C	1.9E-02	3.40E+01	C	8.5E-03	2.00E+00	1.44E-01
3	VOC	Toluene	108-88-3	D	13	11	5.80E-04	1.60E-03		6.60E+02	NC	2.4E-06	2.20E+03	NC	7.3E-07	4.00E+02	4.00E-06
3	VOC	1,2,4-Trichlorobenzene	120-82-1	D	13					6.50E+02	NC		5.60E+03	NC		2.80E+01	
3	VOC	1,1,1-Trichloroethane	71-55-6	D	13					2.00E+03	NC		6.90E+03	NC		8.00E+01	
3	VOC	1,1,2-Trichloroethane	79-00-5	C	13					7.30E+00	C		1.60E+01	C		2.00E+00	
3	VOC	Trichloroethene	79-01-6	C-B2	13	1	8.15E-02	8.15E-02		2.32E+01	NC	3.5E-03	6.12E+01	C	1.3E-03	2.00E+00	4.08E-02
3	VOC	Trichlorofluoromethane	75-69-4		13					3.90E+02	NC		1.30E+03	NC		4.40E+03	
3	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1		13	1	1.15E-01	1.15E-01		2.10E+04	NC	5.5E-06	6.90E+04	NC	1.7E-06		
3	VOC	Vinyl Chloride	75-01-4	A	13					7.90E-01	C		7.50E+00	C		8.00E-01	
3	VOC	Xylenes (total)	1330-20-7	ID	13					2.80E+02	NC		9.00E+02	NC			
3	SVOC	Acenaphthene	83-32-9		2					3.70E+03	NC		2.90E+04	NC			
3	SVOC	Acenaphthylene	208-96-8	D	2					2.30E+03	NC		2.90E+04	NC			
3	SVOC	Acetophenone	98-86-2	D	1												
3	SVOC	Anthracene	120-12-7	D	2					2.20E+04	NC		2.40E+05	NC			

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Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Residential Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect to Residential Criteria	Industrial Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect to Industrial Criteria	MTGW (based on Drinking Water) (TR = 1E-5) Criteria (mg/kg)	Ratio of Site-Related Max Detect to MTGW Criteria
3	SVOC	Atrazine	1912-24-9	C	1					2.20E+01	C		7.80E+01	C		1.20E+00	
3	SVOC	Benzaldehyde	100-52-7		1					6.10E+03	NC		6.20E+04	NC		1.48E+03	
3	SVOC	Benzo(a)anthracene	56-55-3	B2	2					6.20E+00	C		2.10E+01	C			
3	SVOC	Benzo(a)pyrene	50-32-8	B2	2					6.20E-01	C		2.10E+00	C			
3	SVOC	Benzo(b)fluoranthene	205-99-2	B2	2					6.20E+00	C		2.10E+01	C			
3	SVOC	Benzo(g,h,i)perylene	191-24-2	D	2					2.30E+03	NC		2.90E+04	NC			
3	SVOC	Benzo(k)fluoranthene	207-08-9	B2	2					6.20E+01	C		2.10E+02	C			
3	SVOC	Biphenyl	92-52-4	D	1					3.00E+03	NC		2.30E+04	NC			
3	SVOC	bis(2-Chloroethoxy)methane	111-91-1	D	1												
3	SVOC	bis(2-Chloroethyl) ether	111-44-4	B2	1					2.10E+00	C		5.50E+00	C		2.44E-01	
3	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	1					3.50E+02	C		1.20E+03	C		3.62E+03	
3	SVOC	4-Bromophenyl-phenyl ether	101-55-3	D	1												
3	SVOC	Butylbenzylphthalate	85-68-7	C	1					1.20E+04	NC		1.20E+05	NC			
3	SVOC	Caprolactam	105-60-2		1	1	1.80E-02	1.80E-02		3.10E+04	NC	5.8E-07	3.10E+05	NC	5.8E-08	7.20E+03	2.50E-06
3	SVOC	Carbazole	86-74-8	B2	1					2.40E+02	C		8.60E+02	C		1.36E+01	
3	SVOC	4-Chloro-3-methylphenol	59-50-7		1												
3	SVOC	4-Chloroaniline	106-47-8		1					2.40E+02	NC		2.50E+03	NC		6.00E+01	
3	SVOC	2-Chloronaphthalene	91-58-7		1					4.90E+03	NC		2.30E+04	NC			
3	SVOC	2-Chlorophenol	95-57-8		1					6.30E+01	NC		2.40E+02	NC		7.20E+01	
3	SVOC	4-Chlorophenyl-phenyl ether	7005-72-3		1												
3	SVOC	Chrysene	218-01-9	B2	2					6.20E+02	C		2.10E+03	C			
3	SVOC	Dibenz(a,h)anthracene	53-70-3	B2	2					6.20E-01	C		2.10E+00	C		1.40E+01	
3	SVOC	Dibenzofuran	132-64-9	D	1					2.90E+02	NC		3.10E+03	NC		6.00E+01	
3	SVOC	3,3'-Dichlorobenzidine	91-94-1	B2	1					1.10E+01	C		3.80E+01	C		6.00E-01	
3	SVOC	2,4-Dichlorophenol	120-83-2		1					1.80E+02	NC		1.80E+03	NC		4.40E+01	
3	SVOC	Diethylphthalate	84-66-2	D	1					4.90E+04	NC		4.90E+05	NC		1.16E+04	
3	SVOC	2,4-Dimethylphenol	105-67-9		1					1.20E+03	NC		1.20E+04	NC		2.92E+02	
3	SVOC	Dimethylphthalate	131-11-3	D	1					6.10E+05	NC		6.20E+06	NC			
3	SVOC	Di-n-butylphthalate	84-74-2	D	1					6.10E+03	NC		6.20E+04	NC			
3	SVOC	4,6-Dinitro-2-methylphenol	534-52-1		1												
3	SVOC	2,4-Dinitrophenol	51-28-5		1					1.20E+02	NC		1.20E+03	NC		2.92E+01	
3	SVOC	2,4-Dinitrotoluene	121-14-2	B2	1					1.20E+02	NC		1.20E+03	NC		2.92E+01	
3	SVOC	2,6-Dinitrotoluene	606-20-2	B2	1					6.10E+01	NC		6.20E+02	NC		1.48E+01	
3	SVOC	Di-n-octylphthalate	117-84-0		1					2.40E+03	NC		2.50E+04	NC			
3	SVOC	Fluoranthene	206-44-0	D	2					2.30E+03	NC		2.20E+04	NC			
3	SVOC	Fluorene	86-73-7	D	2					2.70E+03	NC		2.60E+04	NC			
3	SVOC	Hexachlorobenzene	118-74-1	B2	1					3.00E+00	C		1.10E+01	C		2.20E+00	
3	SVOC	Hexachlorobutadiene	87-68-3	C	1					1.80E+01	NC		1.80E+02	NC		1.85E+01	
3	SVOC	Hexachlorocyclopentadiene	77-47-4	E	1					3.70E+02	NC		3.70E+03	NC		4.00E+02	
3	SVOC	Hexachloroethane	67-72-1	C	1					6.10E+01	NC		6.20E+02	NC		1.48E+01	
3	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	B2	2					6.20E+00	C		2.10E+01	C			
3	SVOC	Isophorone	78-59-1	C	1					5.10E+03	C		1.80E+04	C		2.84E+02	
3	SVOC	1-Methylnaphthalene	90-12-0		1												
3	SVOC	2-Methylnaphthalene	91-57-6	ID	2					5.60E+01	NC		1.90E+02	NC		2.92E+02	
3	SVOC	Methylphenol (total)	1319-77-3		1					3.10E+02	NC		3.10E+03	NC		7.20E+01	
3	SVOC	Naphthalene	91-20-3	C	2					5.60E+01	NC		1.90E+02	NC		2.92E+02	
3	SVOC	2-Nitroaniline	88-74-4		1					1.80E+00	NC		1.80E+01	NC		4.00E-01	
3	SVOC	3-Nitroaniline	99-09-2	C	1												
3	SVOC	4-Nitroaniline	100-01-6	C	1												
3	SVOC	Nitrobenzene	98-95-3	D	1					2.00E+01	NC		1.00E+02	NC		7.20E+00	
3	SVOC	2-Nitrophenol	88-75-5		1												

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Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Residential Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect to Residential Criteria	Industrial Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect to Industrial Criteria	MTGW (based on Drinking Water) (TR = 1E-5) Criteria (mg/kg)	Ratio of Site-Related Max Detect to MTGW Criteria
3	SVOC	4-Nitrophenol	100-02-7		1												
3	SVOC	N-Nitrosodiphenylamine	86-30-6	B2	1					9.90E+02	C		3.50E+03	C		5.60E+01	
3	SVOC	N-Nitroso-di-n-propylamine	621-64-7	B2	1					7.00E-01	C		2.50E+00	C		3.84E-02	
3	SVOC	2,2'-oxybis(1-Chloropropane)	108-60-1	C	1					2.90E+01	C		7.40E+01	C		3.84E+00	
3	SVOC	Pentachlorophenol	87-86-5	B2	1					3.00E+01	C		9.00E+01	C		4.00E-01	
3	SVOC	Phenanthrene	85-01-8	D	2					2.30E+03	NC		2.90E+04	NC			
3	SVOC	Phenol	108-95-2	ID	1					3.70E+04	NC		3.70E+05	NC		8.80E+03	
3	SVOC	Pyrene	129-00-0	D	2					2.30E+03	NC		2.90E+04	NC			
3	SVOC	2,4,5-Trichlorophenol	95-95-4		1					6.10E+03	NC		6.20E+04	NC		1.48E+03	
3	SVOC	2,4,6-Trichlorophenol	88-06-2	B2	1					6.10E+00	NC		6.20E+01	NC		1.48E+00	
3	INORG	Arsenic	7440-38-2	A	3	3	6.10E+00	9.70E+00	1.50E+01	3.90E+00	C		1.60E+01	C		2.92E+01	
3	INORG	Barium	7440-39-3	D	3	3	3.15E+01	6.40E+01	8.29E+01	5.40E+03	NC		6.70E+04	NC		1.65E+03	
3	INORG	Cadmium	7440-43-9	B1	3	2	2.10E-01	3.00E-01	1.41E-01	3.70E+01	NC	4.3E-03	4.50E+02	NC	3.5E-04	7.52E+00	2.12E-02
3	INORG	Chromium (total)	7440-47-3		3	3	8.10E+00	1.13E+01	1.93E+01	2.20E+02	NC		2.50E+03	NC		4.00E+01	
3	INORG	Copper	7440-50-8	D	2	2	1.40E+01	1.58E+01	2.59E+01	3.10E+03	NC		4.10E+04	NC		9.15E+02	
3	INORG	Lead	7439-92-1	B2	4	4	6.90E+00	2.35E+01	1.81E+01	4.00E+02	NC	1.4E-02	7.50E+02	NC	7.2E-03	2.70E+02	2.00E-02
3	INORG	Mercury	7439-97-6	D	1					3.67E+00	NC		1.36E+01	NC		4.00E+01	
3	INORG	Selenium	7782-49-2	D	3				3.18E-01	3.90E+02	NC		5.10E+03	NC		2.00E+01	

Notes:

The Screening Criteria for Pyrene were used as surrogates for Phenanthrene and Benzo(g,h,i)perylene.

The Screening Criteria for Phenol were used as surrogates for Phenols (total).

The Screening Criteria for Naphthalene were used as surrogates for 2-Methylnaphthalene.

The Screening Criteria for cis-1,2-Dichloroethene were used as surrogates for 1,2-Dichloroethene (total).

The Screening Criteria for Chromium VI was used as a surrogate for Chromium (total).

The concentrations for the Methylphenol (2, 3, & 4) were summed before comparing to the Screening Criteria for 4-Methylphenol.

The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.

The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.

The Screening Criteria for Mercury was calculated by ENVIRON to account for the vapor inhalation pathway using:
EPA Region 9 equations, RfC from IRIS, and chemical properties from EPA's Soil Screening Guidance.

The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.

For the Ratio of Max Site-Related Detect to Residential Criteria the ratios of metals concentrations to the screening criteria include only site-related contributions

For the Ratio of Max Site-Related Detect to Industrial Criteria the ratios of metals concentrations to the screening criteria include only site-related contributions

For the Ratio of Max Site-Related Detect to Migration to Ground Water Criteria the ratios of metals concentrations to the screening criteria include only site-related contributions

c - The Screening Criterion is based on cancer risk.

nc - The Screening Criterion is based on noncancer effects.

Chem Group - Chemical Group

Carc Class - EPA Weight-of-Evidence Cancer Classification

Table 20: Off-Facility Unconsolidated Unit Screening Results - AOI 3
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria	Residential GW Volatilization to Indoor Air (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to GW Vol Indoor Air Criteria
3	VOC	Acetone	67-64-1	T	ID	4				6.26E+03	NC		4.83E+04	NC	
3	VOC	Benzene	71-43-2	T	A	5	3	2.90E-04	3.50E-04	4.53E+00	C	7.7E-05	2.13E+00	C	1.6E-04
3	VOC	Bromodichloromethane	75-27-4	T	B2	5				3.20E+00	C		1.65E+00	C	
3	VOC	Bromoform	75-25-2	T	B2	5				6.78E+01	C		5.62E+01	C	
3	VOC	Bromomethane	74-83-9	T	D	5				3.01E+00	NC		3.04E+00	NC	
3	VOC	2-Butanone	78-93-3	T	ID	4				8.04E+03	NC		5.67E+04	NC	
3	VOC	Carbon Disulfide	75-15-0	T		5				3.49E+02	NC		3.41E+02	NC	
3	VOC	Carbon Tetrachloride	56-23-5	T	B2	5				2.93E+00	C		8.73E-01	C	
3	VOC	Chlorobenzene	108-90-7	T	D	5				3.65E+01	NC		5.37E+01	NC	
3	VOC	Chloroethane	75-00-3	T		5				2.09E+03	C		4.90E+03	NC	
3	VOC	Chloroform	67-66-3	T	B2	5				2.11E+00	C		7.88E-01	C	
3	VOC	Chloromethane	74-87-3	T	D	5				4.00E+01	NC		7.57E+01	NC	
3	VOC	Cumene	98-82-8	T	D	5				1.89E+02	NC		1.77E+02	NC	
3	VOC	Cyclohexane	110-82-7	T	ID	5	1	3.50E-04	3.50E-04	3.39E+03	NC	1.0E-07	2.53E+03	NC	1.4E-07
3	VOC	1,2-Dibromo-3-chloropropane	96-12-8	T	B2	5				3.21E-01	NC		1.05E+00	NC	
3	VOC	Dibromochloromethane	124-48-1	T	C	5				2.83E+00	C		1.91E+00	C	
3	VOC	1,2-Dibromoethane	106-93-4	T	B2	5				9.11E-02	C		1.90E-01	C	
3	VOC	1,2-Dichlorobenzene	95-50-1	T	D	5				1.35E+02	NC		2.41E+02	NC	
3	VOC	1,3-Dichlorobenzene	541-73-1	T	D	5				8.18E+01	NC		1.43E+02	NC	
3	VOC	1,4-Dichlorobenzene	106-46-7	T	C	5				6.78E+00	C		4.09E+00	C	
3	VOC	Dichlorodifluoromethane	75-71-8	T		5				1.34E+02	NC		8.91E+01	NC	
3	VOC	1,1-Dichloroethane	75-34-3	T	C	5				3.00E+02	NC		3.47E+02	NC	
3	VOC	1,2-Dichloroethane	107-06-2	T	B2	5				1.81E+00	C		1.21E+00	C	
3	VOC	1,1-Dichloroethene	75-35-4	T	C	5				1.16E+02	NC		9.82E+01	NC	
3	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	5				2.11E+01	NC		2.54E+01	NC	
3	VOC	trans-1,2-Dichloroethene	156-60-5	T		5				4.12E+01	NC		3.90E+01	NC	
3	VOC	1,2-Dichloropropane	78-87-5	T	B2	5				2.72E+00	NC		3.86E+00	NC	
3	VOC	1,3-Dichloropropene (total)	542-75-6	T	B2	5				9.00E+00	C		3.32E+00	C	
3	VOC	Ethyl Benzene	100-41-4	T	D	5				4.18E+02	NC		7.97E+02	NC	
3	VOC	2-Hexanone	591-78-6	T		5				3.29E+00	NC		1.52E+00	NC	
3	VOC	Methyl Acetate	79-20-9	T		5				7.84E+04	NC		8.61E+05	NC	
3	VOC	Methyl tert-butyl ether	1634-04-4	T		5				4.15E+02	C		4.28E+02	C	
3	VOC	4-Methyl-2-pentanone	108-10-1	T	ID	5				3.43E+03	NC		1.67E+04	NC	
3	VOC	Methylcyclohexane	108-87-2	T		5	1	3.30E-04	3.30E-04	1.83E+03	NC	1.8E-07	1.24E+03	NC	2.7E-07
3	VOC	Methylene Chloride	75-09-2	T	B2	5				8.29E+01	C		4.22E+01	C	
3	VOC	Styrene	100-42-5	T		5				5.41E+02	NC		1.04E+03	NC	
3	VOC	1,1,2,2-Tetrachloroethane	79-34-5	T	C	5				1.19E+00	C		1.16E+00	C	
3	VOC	Tetrachloroethene	127-18-4	T	C-B2	5	1	3.10E-04	3.10E-04	1.33E+01	C	2.3E-05	4.98E+00	C	6.2E-05
3	VOC	Toluene	108-88-3	T	D	5	3	2.10E-04	7.10E-04	2.26E+02	NC	3.1E-06	3.01E+02	NC	2.4E-06
3	VOC	1,2,4-Trichlorobenzene	120-82-1	T	D	5				4.23E+01	NC		3.03E+02	NC	
3	VOC	1,1,1-Trichloroethane	71-55-6	T	D	5				1.37E+03	NC		1.36E+03	NC	
3	VOC	1,1,2-Trichloroethane	79-00-5	T	C	5				3.35E+00	C		2.24E+00	C	
3	VOC	Trichloroethene	79-01-6	T	C-B2	5				2.50E+01	C		9.09E+00	C	
3	VOC	Trichlorofluoromethane	75-69-4	T		5				4.83E+02	NC		3.05E+02	NC	
3	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	T		5				2.43E+04	NC		1.26E+04	NC	
3	VOC	Vinyl Chloride	75-01-4	T	A	5				1.94E+00	C		1.10E+00	C	
3	VOC	Xylenes (total)	1330-20-7	T	ID	5				6.28E+01	NC		7.52E+01	NC	

Table 20: Off-Facility Unconsolidated Unit Screening Results - AOI 3
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria	Residential GW Volatilization to Indoor Air (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to GW Vol Indoor Air Criteria
Notes:															
The Screening Criteria for cis-1,2-Dichloroethene were used as surrogates for 1,2-Dichloroethene (total).															
The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.															
The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.															
The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.															
c - The Screening Criterion is based on cancer risk.															
nc - The Screening Criterion is based on noncancer effects.															
Chem Group - Chemical Group															
Meas Basis - Measured Basis; T = Total, D = Dissolved															
Carc Class - EPA Weight-of-Evidence Cancer Classification															

Table 21: Off-Facility Soil Screening Results - AOI 3A
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Residential Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect to Residential Criteria	Industrial Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect to Industrial Criteria	MTGW (based on Drinking Water) (TR = 1E-5) Criteria (mg/kg)	Ratio of Site-Related Max Detect to MTGW Criteria
3A	VOC	Acetone	67-64-1	ID	70	13	2.90E-03	3.81E-01		1.60E+03	NC	2.4E-04	6.00E+03	NC	6.3E-05	1.48E+03	2.57E-04
3A	VOC	Benzene	71-43-2	A	85	1	2.50E-04	2.50E-04		6.00E+00	C	4.2E-05	1.30E+01	C	1.9E-05	2.00E+00	1.25E-04
3A	VOC	Bromodichloromethane	75-27-4	B2	85					8.20E+00	C		1.80E+01	C		3.20E+01	
3A	VOC	Bromoform	75-25-2	B2	85					6.20E+02	C		2.20E+03	C		3.20E+01	
3A	VOC	Bromomethane	74-83-9	D	85					3.90E+00	NC		1.30E+01	NC		2.04E+01	
3A	VOC	2-Butanone	78-93-3	ID	83	5	8.50E-04	3.76E-01		7.30E+03	NC	5.2E-05	2.70E+04	NC	1.4E-05	8.80E+03	4.28E-05
3A	VOC	Carbon Disulfide	75-15-0		85	4	4.00E-04	1.40E-03		3.60E+02	NC	3.9E-06	1.20E+03	NC	1.2E-06	1.48E+03	9.46E-07
3A	VOC	Carbon Tetrachloride	56-23-5	B2	85	1	1.40E-01	1.40E-01		2.20E+00	NC	6.4E-02	5.50E+00	C	2.5E-02	2.00E+00	7.00E-02
3A	VOC	Chlorobenzene	108-90-7	D	85					1.50E+02	NC		5.30E+02	NC		4.00E+01	
3A	VOC	Chloroethane	75-00-3		85					3.00E+01	C		6.50E+01	C		6.00E+03	
3A	VOC	Chloroform	67-66-3	B2	85	1	2.40E-02	2.40E-02		3.60E+00	NC	6.7E-03	1.20E+01	NC	2.0E-03	3.20E+01	7.50E-04
3A	VOC	Chloromethane	74-87-3	D	85	1	2.90E-02	2.90E-02		1.20E+01	C	2.4E-03	2.70E+01	C	1.1E-03	2.08E+01	1.39E-03
3A	VOC	Cumene	98-82-8	D	73					5.70E+02	NC		2.00E+03	NC			
3A	VOC	Cyclohexane	110-82-7	ID	73					9.50E+03	NC		3.20E+04	NC			
3A	VOC	1,2-Dibromo-3-chloropropane	96-12-8	B2	73					1.50E+00	NC		6.50E+00	NC		8.00E-02	
3A	VOC	Dibromochloromethane	124-48-1	C	85					1.10E+01	C		2.60E+01	C		3.20E+01	
3A	VOC	1,2-Dibromoethane	106-93-4	B2	73					6.90E-02	C		2.80E-01	C		2.00E-02	
3A	VOC	1,2-Dichlorobenzene	95-50-1	D	75					1.10E+03	NC		4.10E+03	NC		2.40E+02	
3A	VOC	1,3-Dichlorobenzene	541-73-1	D	75	1	1.67E-03	1.67E-03		1.60E+01	NC	1.0E-04	6.30E+01	NC	2.7E-05	1.32E+01	1.27E-04
3A	VOC	1,4-Dichlorobenzene	106-46-7	C	75	2	3.50E-04	1.68E-03		3.50E+01	C	4.8E-05	7.90E+01	C	2.1E-05	3.00E+01	5.58E-05
3A	VOC	Dichlorodifluoromethane	75-71-8		73					9.40E+01	NC		3.10E+02	NC		2.92E+03	
3A	VOC	1,1-Dichloroethane	75-34-3	C	85	2	1.70E-03	9.85E-02		5.10E+02	NC	1.9E-04	1.70E+03	NC	5.8E-05	1.48E+03	6.65E-05
3A	VOC	1,2-Dichloroethane	107-06-2	B2	85					2.80E+00	C		6.00E+00	C		2.00E+00	
3A	VOC	1,1-Dichloroethene	75-35-4	C	85	1	2.10E-03	2.10E-03		1.20E+02	NC	1.8E-05	4.10E+02	NC	5.1E-06	2.80E+00	7.50E-04
3A	VOC	1,2-Dichloroethene (total)	540-59-0		12					4.30E+01	NC		1.50E+02	NC		1.48E+02	
3A	VOC	cis-1,2-Dichloroethene	156-59-2	D	85	11	7.40E-04	4.92E-02		4.30E+01	NC	1.1E-03	1.50E+02	NC	3.3E-04	2.80E+01	1.76E-03
3A	VOC	trans-1,2-Dichloroethene	156-60-5		85	3	9.90E-04	1.50E-03		7.00E+01	NC	2.1E-05	2.30E+02	NC	6.5E-06	4.00E+01	3.75E-05
3A	VOC	1,2-Dichloropropane	78-87-5	B2	85	6	1.30E-03	9.79E-02		3.40E+00	C	2.9E-02	7.40E+00	C	1.3E-02	2.00E+00	4.90E-02
3A	VOC	1,3-Dichloropropene (total)	542-75-6	B2	85					7.80E+00	C		1.80E+01	C		2.68E+00	
3A	VOC	Ethyl Benzene	100-41-4	D	85					1.90E+03	NC		7.40E+03	NC		2.80E+02	
3A	VOC	n-Hexane	110-54-3		12					1.20E+02	NC		4.00E+02	NC			
3A	VOC	2-Hexanone	591-78-6		85												
3A	VOC	Methyl Acetate	79-20-9		73	1	6.30E-02	6.30E-02		2.20E+04	NC	2.9E-06	9.20E+04	NC	6.8E-07	1.48E+04	4.26E-06
3A	VOC	Methyl tert-butyl ether	1634-04-4		73					6.20E+02	C		1.60E+03	C		8.00E+01	
3A	VOC	4-Methyl-2-pentanone	108-10-1	ID	85	1	2.20E-03	2.20E-03		7.90E+02	NC	2.8E-06	2.80E+03	NC	7.9E-07	1.16E+03	1.90E-06
3A	VOC	Methylcyclohexane	108-87-2		73					2.60E+03	NC		8.70E+03	NC			
3A	VOC	Methylene Chloride	75-09-2	B2	84	23	3.05E-03	2.70E-01		9.10E+01	C	3.0E-03	2.10E+02	C	1.3E-03	2.00E+00	1.35E-01
3A	VOC	Styrene	100-42-5		85					4.40E+03	NC		1.80E+04	NC		4.00E+01	
3A	VOC	1,1,2,2-Tetrachloroethane	79-34-5	C	85					4.10E+00	C		9.30E+00	C		1.36E+00	
3A	VOC	Tetrachloroethene	127-18-4	C-B2	85	28	8.70E-04	4.00E+02		1.50E+01	C	**2.7E+01**	3.40E+01	C	**1.2E+01**	2.00E+00	**2.00E+02**
3A	VOC	Toluene	108-88-3	D	84	55	3.10E-04	9.81E-02		6.60E+02	NC	1.5E-04	2.20E+03	NC	4.5E-05	4.00E+02	2.45E-04
3A	VOC	1,2,4-Trichlorobenzene	120-82-1	D	75					6.50E+02	NC		5.60E+03	NC		2.80E+01	
3A	VOC	1,1,1-Trichloroethane	71-55-6	D	85					2.00E+03	NC		6.90E+03	NC		8.00E+01	
3A	VOC	1,1,2-Trichloroethane	79-00-5	C	85					7.30E+00	C		1.60E+01	C		2.00E+00	
3A	VOC	Trichloroethene	79-01-6	C-B2	85	17	4.20E-04	1.20E+01		2.32E+01	NC	5.2E-01	6.12E+01	C	2.0E-01	2.00E+00	**6.00E+00**
3A	VOC	Trichlorofluoromethane	75-69-4		73					3.90E+02	NC		1.30E+03	NC		4.40E+03	
3A	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1		73	4	2.08E-03	2.30E+00		2.10E+04	NC	1.1E-04	6.90E+04	NC	3.3E-05		
3A	VOC	Vinyl Chloride	75-01-4	A	85	1	2.60E-03	2.60E-03		7.90E-01	C	3.3E-03	7.50E+00	C	3.5E-04	8.00E-01	3.25E-03
3A	VOC	Xylenes (total)	1330-20-7	ID	85	1	1.50E-03	1.50E-03		2.80E+02	NC	5.4E-06	9.00E+02	NC	1.7E-06		
3A	SVOC	Acenaphthene	83-32-9		27					3.70E+03	NC		2.90E+04	NC			
3A	SVOC	Acenaphthylene	208-96-8	D	27	5	3.80E-02	4.40E-01		2.30E+03	NC	1.9E-04	2.90E+04	NC	1.5E-05		

Table 21: Off-Facility Soil Screening Results - AOI 3A
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Residential Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect to Residential Criteria	Industrial Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect to Industrial Criteria	MTGW (based on Drinking Water) (TR = 1E-5) Criteria (mg/kg)	Ratio of Site-Related Max Detect to MTGW Criteria
3A	SVOC	Acetophenone	98-86-2	D	8												
3A	SVOC	Anthracene	120-12-7	D	27	4	8.10E-03	2.50E-01		2.20E+04	NC	1.1E-05	2.40E+05	NC	1.0E-06		
3A	SVOC	Atrazine	1912-24-9	C	8					2.20E+01	C		7.80E+01	C		1.20E+00	
3A	SVOC	Benzaldehyde	100-52-7		8					6.10E+03	NC		6.20E+04	NC		1.48E+03	
3A	SVOC	Benzo(a)anthracene	56-55-3	B2	27	9	8.90E-03	2.40E+00		6.20E+00	C	3.9E-01	2.10E+01	C	1.1E-01		
3A	SVOC	Benzo(a)pyrene	50-32-8	B2	27	10	9.00E-03	3.30E+00		6.20E-01	C	**5.3E+00**	2.10E+00	C	**1.6E+00**		
3A	SVOC	Benzo(b)fluoranthene	205-99-2	B2	27	11	5.80E-03	4.10E+00		6.20E+00	C	6.6E-01	2.10E+01	C	2.0E-01		
3A	SVOC	Benzo(g,h,i)perylene	191-24-2	D	27	8	1.10E-02	2.10E+00		2.30E+03	NC	9.1E-04	2.90E+04	NC	7.2E-05		
3A	SVOC	Benzo(k)fluoranthene	207-08-9	B2	27	11	3.20E-03	2.10E+00		6.20E+01	C	3.4E-02	2.10E+02	C	1.0E-02		
3A	SVOC	Biphenyl	92-52-4	D	8					3.00E+03	NC		2.30E+04	NC			
3A	SVOC	bis(2-Chloroethoxy)methane	111-91-1	D	10												
3A	SVOC	bis(2-Chloroethyl) ether	111-44-4	B2	10					2.10E+00	C		5.50E+00	C		2.44E-01	
3A	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	B2	10	1	1.90E-01	1.90E-01		3.50E+02	C	5.4E-04	1.20E+03	C	1.6E-04	3.62E+03	5.24E-05
3A	SVOC	4-Bromophenyl-phenyl ether	101-55-3	D	10												
3A	SVOC	Butylbenzylphthalate	85-68-7	C	10					1.20E+04	NC		1.20E+05	NC			
3A	SVOC	Caprolactam	105-60-2		8					3.10E+04	NC		3.10E+05	NC		7.20E+03	
3A	SVOC	Carbazole	86-74-8	B2	10	1	1.80E-01	1.80E-01		2.40E+02	C	7.5E-04	8.60E+02	C	2.1E-04	1.36E+01	1.32E-02
3A	SVOC	4-Chloro-3-methylphenol	59-50-7		10												
3A	SVOC	4-Chloroaniline	106-47-8		10					2.40E+02	NC		2.50E+03	NC		6.00E+01	
3A	SVOC	2-Chloronaphthalene	91-58-7		10					4.90E+03	NC		2.30E+04	NC			
3A	SVOC	2-Chlorophenol	95-57-8		10					6.30E+01	NC		2.40E+02	NC		7.20E+01	
3A	SVOC	4-Chlorophenyl-phenyl ether	7005-72-3		10												
3A	SVOC	Chrysene	218-01-9	B2	27	11	5.10E-03	3.00E+00		6.20E+02	C	4.8E-03	2.10E+03	C	1.4E-03		
3A	SVOC	Dibenz(a,h)anthracene	53-70-3	B2	27	6	1.00E-02	9.00E-01		6.20E-01	C	**1.5E+00**	2.10E+00	C	4.3E-01	1.40E+01	6.44E-02
3A	SVOC	Dibenzofuran	132-64-9	D	10					2.90E+02	NC		3.10E+03	NC		6.00E+01	
3A	SVOC	3,3'-Dichlorobenzidine	91-94-1	B2	10					1.10E+01	C		3.80E+01	C		6.00E-01	
3A	SVOC	2,4-Dichlorophenol	120-83-2		10					1.80E+02	NC		1.80E+03	NC		4.40E+01	
3A	SVOC	Diethylphthalate	84-66-2	D	10					4.90E+04	NC		4.90E+05	NC		1.16E+04	
3A	SVOC	2,4-Dimethylphenol	105-67-9		10	1	1.50E-01	1.50E-01		1.20E+03	NC	1.3E-04	1.20E+04	NC	1.3E-05	2.92E+02	5.14E-04
3A	SVOC	Dimethylphthalate	131-11-3	D	10					6.10E+05	NC		6.20E+06	NC			
3A	SVOC	Di-n-butylphthalate	84-74-2	D	10					6.10E+03	NC		6.20E+04	NC			
3A	SVOC	4,6-Dinitro-2-methylphenol	534-52-1		10												
3A	SVOC	2,4-Dinitrophenol	51-28-5		10					1.20E+02	NC		1.20E+03	NC		2.92E+01	
3A	SVOC	2,4-Dinitrotoluene	121-14-2	B2	10					1.20E+02	NC		1.20E+03	NC		2.92E+01	
3A	SVOC	2,6-Dinitrotoluene	606-20-2	B2	10					6.10E+01	NC		6.20E+02	NC		1.48E+01	
3A	SVOC	Di-n-octylphthalate	117-84-0		10	1	1.60E-01	1.60E-01		2.40E+03	NC	6.7E-05	2.50E+04	NC	6.4E-06		
3A	SVOC	Fluoranthene	206-44-0	D	27	12	1.25E-03	5.60E+00		2.30E+03	NC	2.4E-03	2.20E+04	NC	2.5E-04		
3A	SVOC	Fluorene	86-73-7	D	27					2.70E+03	NC		2.60E+04	NC			
3A	SVOC	Hexachlorobenzene	118-74-1	B2	10					3.00E+00	C		1.10E+01	C		2.20E+00	
3A	SVOC	Hexachlorobutadiene	87-68-3	C	10					1.80E+01	NC		1.80E+02	NC		1.85E+01	
3A	SVOC	Hexachlorocyclopentadiene	77-47-4	E	10					3.70E+02	NC		3.70E+03	NC		4.00E+02	
3A	SVOC	Hexachloroethane	67-72-1	C	10					6.10E+01	NC		6.20E+02	NC		1.48E+01	
3A	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	B2	27	10	6.60E-03	1.90E+00		6.20E+00	C	3.1E-01	2.10E+01	C	9.0E-02		
3A	SVOC	Isophorone	78-59-1	C	10					5.10E+03	C		1.80E+04	C		2.84E+02	
3A	SVOC	1-Methylnaphthalene	90-12-0		13												
3A	SVOC	2-Methylnaphthalene	91-57-6	ID	25					5.60E+01	NC		1.90E+02	NC		2.92E+02	
3A	SVOC	Methylphenol (total)	1319-77-3		10	1	2.60E-02	2.60E-02		3.10E+02	NC	8.4E-05	3.10E+03	NC	8.4E-06	7.20E+01	3.61E-04
3A	SVOC	Naphthalene	91-20-3	C	27	1	1.90E-01	1.90E-01		5.60E+01	NC	3.4E-03	1.90E+02	NC	1.0E-03	2.92E+02	6.51E-04
3A	SVOC	2-Nitroaniline	88-74-4		10					1.80E+00	NC		1.80E+01	NC		4.00E-01	
3A	SVOC	3-Nitroaniline	99-09-2	C	10												
3A	SVOC	4-Nitroaniline	100-01-6	C	10												

Table 21: Off-Facility Soil Screening Results - AOI 3A
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Residential Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect to Residential Criteria	Industrial Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect to Industrial Criteria	MTGW (based on Drinking Water) (TR = 1E-5) Criteria (mg/kg)	Ratio of Site-Related Max Detect to MTGW Criteria
3A	SVOC	Nitrobenzene	98-95-3	D	10					2.00E+01	NC		1.00E+02	NC		7.20E+00	
3A	SVOC	2-Nitrophenol	88-75-5		10												
3A	SVOC	4-Nitrophenol	100-02-7		10												
3A	SVOC	N-Nitrosodiphenylamine	86-30-6	B2	10					9.90E+02	C		3.50E+03	C		5.60E+01	
3A	SVOC	N-Nitroso-di-n-propylamine	621-64-7	B2	10					7.00E-01	C		2.50E+00	C		3.84E-02	
3A	SVOC	2,2'-oxybis(1-Chloropropane)	108-60-1	C	10					2.90E+01	C		7.40E+01	C		3.84E+00	
3A	SVOC	Pentachlorophenol	87-86-5	B2	10					3.00E+01	C		9.00E+01	C		4.00E-01	
3A	SVOC	Phenanthrene	85-01-8	D	27	5	3.40E-02	1.80E+00		2.30E+03	NC	7.8E-04	2.90E+04	NC	6.2E-05		
3A	SVOC	Phenol	108-95-2	ID	10					3.70E+04	NC		3.70E+05	NC		8.80E+03	
3A	SVOC	Pyrene	129-00-0	D	27	16	1.00E-02	5.60E+00		2.30E+03	NC	2.4E-03	2.90E+04	NC	1.9E-04		
3A	SVOC	2,4,5-Trichlorophenol	95-95-4		10					6.10E+03	NC		6.20E+04	NC		1.48E+03	
3A	SVOC	2,4,6-Trichlorophenol	88-06-2	B2	10					6.10E+00	NC		6.20E+01	NC		1.48E+00	
3A	P/PCB	PCBs (total)	1336-36-3	B2	2					1.10E+00	NC		7.40E+00	C		6.18E+00	
3A	P/PCB	Aldrin	309-00-2	B2	2					2.90E-01	C		1.00E+00	C		3.92E+00	
3A	P/PCB	alpha-BHC	319-84-6	B2	2					9.00E-01	C		3.60E+00	C		4.40E-02	
3A	P/PCB	beta-BHC	319-85-7	C	2					3.20E+00	C		1.30E+01	C		1.48E-01	
3A	P/PCB	delta-BHC	319-86-8	D	2												
3A	P/PCB	gamma-BHC	58-89-9	B2-C	2					4.40E+00	C		1.70E+01	C		8.00E-02	
3A	P/PCB	Chlordane (total)	57-74-9	B2	2											9.61E+00	
3A	P/PCB	4,4'-DDD	72-54-8	B2	2					2.40E+01	C		1.00E+02	C		1.12E+02	
3A	P/PCB	4,4'-DDE	72-55-9	B2	2					1.70E+01	C		7.00E+01	C		3.58E+02	
3A	P/PCB	4,4'-DDT	50-29-3	B2	2					1.70E+01	C		7.00E+01	C			
3A	P/PCB	Dieldrin	60-57-1	B2	2					3.00E-01	C		1.10E+00	C		3.61E-02	
3A	P/PCB	Endosulfan	115-29-7		2					3.70E+02	NC		3.70E+03	NC			
3A	P/PCB	Endosulfan sulfate	1031-07-8		2					3.70E+02	NC		3.70E+03	NC		8.80E+01	
3A	P/PCB	Endrin	72-20-8	D	2					1.80E+01	NC		1.80E+02	NC		9.92E-01	
3A	P/PCB	Endrin aldehyde	7421-93-4		2					1.80E+01	NC		1.80E+02	NC		4.40E+00	
3A	P/PCB	Endrin ketone	53494-70-5		2					1.80E+01	NC		1.80E+02	NC			
3A	P/PCB	Heptachlor	76-44-8	B2	2					1.10E+00	C		3.80E+00	C		2.26E+01	
3A	P/PCB	Heptachlor epoxide	1024-57-3	B2	2					5.30E-01	C		1.90E+00	C		6.66E-01	
3A	P/PCB	Methoxychlor	72-43-5	D	2					3.10E+02	NC		3.10E+03	NC			
3A	P/PCB	Toxaphene	8001-35-2	B2	2					4.40E+00	C		1.60E+01	C		3.09E+01	
3A	INORG	Arsenic	7440-38-2	A	23	23	1.10E+00	1.62E+01	1.50E+01	3.90E+00	C	3.1E-01	1.60E+01	C	7.6E-02	2.92E+01	4.15E-02
3A	INORG	Barium	7440-39-3	D	16	16	2.83E+01	1.09E+02	8.29E+01	5.40E+03	NC	4.8E-03	6.70E+04	NC	3.9E-04	1.65E+03	1.58E-02
3A	INORG	Cadmium	7440-43-9	B1	15				1.41E-01	3.70E+01	NC		4.50E+02	NC		7.52E+00	
3A	INORG	Chromium (total)	7440-47-3		15	15	6.80E+00	1.87E+01	1.93E+01	2.20E+02	NC		2.50E+03	NC		4.00E+01	
3A	INORG	Copper	7440-50-8	D	6	6	8.40E+00	2.24E+01	2.59E+01	3.10E+03	NC		4.10E+04	NC		9.15E+02	
3A	INORG	Lead	7439-92-1	B2	15	15	6.50E+00	1.02E+02	1.81E+01	4.00E+02	NC	2.1E-01	7.50E+02	NC	1.1E-01	2.70E+02	3.11E-01
3A	INORG	Mercury	7439-97-6	D	15	2	3.90E-02	1.30E-01		3.67E+00	NC	3.5E-02	1.36E+01	NC	9.5E-03	4.00E+01	3.25E-03
3A	INORG	Selenium	7782-49-2	D	15	4	5.00E-01	7.40E-01	3.18E-01	3.90E+02	NC	1.1E-03	5.10E+03	NC	8.3E-05	2.00E+01	2.11E-02
3A	INORG	Silver	7440-22-4	D	15					3.90E+02	NC		5.10E+03	NC		7.20E+01	
3A	INORG	Zinc	7440-66-6	D	6	6	3.10E+01	5.87E+01	7.20E+01	2.30E+04	NC		3.10E+05	NC		1.37E+04	

Notes:

The Screening Criteria for Pyrene were used as surrogates for Phenanthrene and Benzo(g,h,i)perylene.

The Screening Criteria for Phenol were used as surrogates for Phenols (total).

The Screening Criteria for Naphthalene were used as surrogates for 2-Methylnaphthalene.

The Screening Criteria for cis-1,2-Dichloroethene were used as surrogates for 1,2-Dichloroethene (total).

The Screening Criteria for Chromium VI was used as a surrogate for Chromium (total).

The concentrations for the Methylphenol (2, 3, & 4) were summed before comparing to the Screening Criteria for 4-Methylphenol.

The concentrations for all PCB isomers were summed before comparing to Polychlorinated biphenyls (PCBs) for cancer effects

Table 21: Off-Facility Soil Screening Results - AOI 3A
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Residential Criteria (TR=1E-5 & HQ=1) (mg/kg)	Ratio of Site-Related Max Detect to Residential Criteria	Industrial Criteria (TR=1E-5 & HQ=1) (mg/kg)	Ratio of Site-Related Max Detect to Industrial Criteria	MTGW (based on Drinking Water) (TR = 1E-5) Criteria (mg/kg)	Ratio of Site-Related Max Detect to MTGW Criteria
	and Aroclor 1254 for noncancer effects.														
	The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.														
	The concentrations for the Chlordane isomers (alpha and gamma) were summed before comparing to the Screening Criteria.														
	The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.														
	The Screening Criteria for Mercury was calculated by ENVIRON to account for the vapor inhalation pathway using:														
	EPA Region 9 equations, RfC from IRIS, and chemical properties from EPA's Soil Screening Guidance.														
	The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.														
	For the Ratio of Max Site-Related Detect to Residential Criteria the ratios of metals concentrations to the screening criteria include only site-related contributions														
	For the Ratio of Max Site-Related Detect to Industrial Criteria the ratios of metals concentrations to the screening criteria include only site-related contributions														
	For the Ratio of Max Site-Related Detect to Migration to Ground Water Criteria the ratios of metals concentrations to the screening criteria include only site-related contributions														
	c - The Screening Criterion is based on cancer risk.														
	nc - The Screening Criterion is based on noncancer effects.														
	Chem Group - Chemical Group														
	Carc Class - EPA Weight-of-Evidence Cancer Classification														

Table 22a: Off-Facility Unconsolidated Unit Screening Results - AOI 3A
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria
3A	VOC	Acetone	67-64-1	T	ID	11	1	1.80E-02	1.80E-02	6.26E+03	NC	2.9E-06
3A	VOC	Benzene	71-43-2	T	A	29	20	2.00E-04	6.50E-04	4.53E+00	C	1.4E-04
3A	VOC	Bromodichloromethane	75-27-4	T	B2	29				3.20E+00	C	
3A	VOC	Bromoform	75-25-2	T	B2	29				6.78E+01	C	
3A	VOC	Bromomethane	74-83-9	T	D	29				3.01E+00	NC	
3A	VOC	2-Butanone	78-93-3	T	ID	20				8.04E+03	NC	
3A	VOC	Carbon Disulfide	75-15-0	T		29				3.49E+02	NC	
3A	VOC	Carbon Tetrachloride	56-23-5	T	B2	29				2.93E+00	C	
3A	VOC	Chlorobenzene	108-90-7	T	D	29				3.65E+01	NC	
3A	VOC	Chloroethane	75-00-3	T		29				2.09E+03	C	
3A	VOC	Chloroform	67-66-3	T	B2	27				2.11E+00	C	
3A	VOC	Chloromethane	74-87-3	T	D	29				4.00E+01	NC	
3A	VOC	Cumene	98-82-8	T	D	26				1.89E+02	NC	
3A	VOC	Cyclohexane	110-82-7	T	ID	26	15	3.50E-04	6.20E-04	3.39E+03	NC	1.8E-07
3A	VOC	1,2-Dibromo-3-chloropropane	96-12-8	T	B2	26				3.21E-01	NC	
3A	VOC	Dibromochloromethane	124-48-1	T	C	29				2.83E+00	C	
3A	VOC	1,2-Dibromoethane	106-93-4	T	B2	26				9.11E-02	C	
3A	VOC	1,2-Dichlorobenzene	95-50-1	T	D	28				1.35E+02	NC	
3A	VOC	1,3-Dichlorobenzene	541-73-1	T	D	28				8.18E+01	NC	
3A	VOC	1,4-Dichlorobenzene	106-46-7	T	C	28				6.78E+00	C	
3A	VOC	Dichlorodifluoromethane	75-71-8	T		26				1.34E+02	NC	
3A	VOC	1,1-Dichloroethane	75-34-3	T	C	29				3.00E+02	NC	
3A	VOC	1,2-Dichloroethane	107-06-2	T	B2	29				1.81E+00	C	
3A	VOC	1,1-Dichloroethene	75-35-4	T	C	29				1.16E+02	NC	
3A	VOC	1,2-Dichloroethene (total)	540-59-0	T		3				1.87E+01	NC	
3A	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	29	1	4.90E-03	4.90E-03	2.11E+01	NC	2.3E-04
3A	VOC	trans-1,2-Dichloroethene	156-60-5	T		29				4.12E+01	NC	
3A	VOC	1,2-Dichloropropane	78-87-5	T	B2	29	1	3.00E-03	3.00E-03	2.72E+00	NC	1.1E-03
3A	VOC	1,3-Dichloropropene (total)	542-75-6	T	B2	29				9.00E+00	C	
3A	VOC	Ethyl Benzene	100-41-4	T	D	29	14	1.90E-04	4.50E-04	4.18E+02	NC	1.1E-06
3A	VOC	n-Hexane	110-54-3	T		3				1.21E+02	NC	
3A	VOC	2-Hexanone	591-78-6	T		29				3.29E+00	NC	
3A	VOC	Methyl Acetate	79-20-9	T		26				7.84E+04	NC	
3A	VOC	Methyl tert-butyl ether	1634-04-4	T		26				4.15E+02	C	
3A	VOC	4-Methyl-2-pentanone	108-10-1	T	ID	29				3.43E+03	NC	
3A	VOC	Methylcyclohexane	108-87-2	T		26	19	2.40E-04	7.70E-04	1.83E+03	NC	4.2E-07
3A	VOC	Methylene Chloride	75-09-2	T	B2	29				8.29E+01	C	
3A	VOC	Styrene	100-42-5	T		29				5.41E+02	NC	
3A	VOC	1,1,2,2-Tetrachloroethane	79-34-5	T	C	29				1.19E+00	C	
3A	VOC	Tetrachloroethene	127-18-4	T	C-B2	29	16	2.80E-04	1.60E+00	1.33E+01	C	1.2E-01
3A	VOC	Toluene	108-88-3	T	D	29	23	3.60E-04	1.50E-03	2.26E+02	NC	6.6E-06
3A	VOC	1,2,4-Trichlorobenzene	120-82-1	T	D	28	1	1.80E-04	1.80E-04	4.23E+01	NC	4.3E-06
3A	VOC	1,1,1-Trichloroethane	71-55-6	T	D	29				1.37E+03	NC	
3A	VOC	1,1,2-Trichloroethane	79-00-5	T	C	29				3.35E+00	C	
3A	VOC	Trichloroethene	79-01-6	T	C-B2	29	10	3.60E-04	2.40E-01	2.50E+01	C	9.6E-03
3A	VOC	Trichlorofluoromethane	75-69-4	T		26				4.83E+02	NC	
3A	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	T		26	4	7.50E-04	2.80E-03	2.43E+04	NC	1.2E-07
3A	VOC	Vinyl Chloride	75-01-4	T	A	29				1.94E+00	C	

Table 22a: Off-Facility Unconsolidated Unit Screening Results - AOI 3A
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria
3A	VOC	Xylenes (total)	1330-20-7	T	ID	29	6	5.40E-04	8.30E-04	6.28E+01	NC	1.3E-05
3A	SVOC	Acenaphthene	83-32-9	T		2				1.46E+02	NC	
3A	SVOC	Acenaphthylene	208-96-8	T	D	2				6.87E+01	NC	
3A	SVOC	Anthracene	120-12-7	T	D	2				7.21E+02	NC	
3A	SVOC	Benzo(a)anthracene	56-55-3	T	B2	2				5.53E-02	C	
3A	SVOC	Benzo(a)pyrene	50-32-8	T	B2	2				3.48E-03	C	
3A	SVOC	Benzo(b)fluoranthene	205-99-2	T	B2	2				2.90E-02	C	
3A	SVOC	Benzo(g,h,i)perylene	191-24-2	T	D	2				6.17E+00	NC	
3A	SVOC	Benzo(k)fluoranthene	207-08-9	T	B2	2				3.04E-01	C	
3A	SVOC	bis(2-Chloroethoxy)methane	111-91-1	T	D	2						
3A	SVOC	bis(2-Chloroethyl) ether	111-44-4	T	B2	2				1.02E+00	C	
3A	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	T	B2	2				9.08E-01	C	
3A	SVOC	4-Bromophenyl-phenyl ether	101-55-3	T	D	2						
3A	SVOC	Butylbenzylphthalate	85-68-7	T	C	2				7.24E+02	NC	
3A	SVOC	Carbazole	86-74-8	T	B2	2				3.32E+01	C	
3A	SVOC	4-Chloro-3-methylphenol	59-50-7	T		2						
3A	SVOC	4-Chloroaniline	106-47-8	T		2				3.02E+02	NC	
3A	SVOC	2-Chloronaphthalene	91-58-7	T		2				1.57E+02	NC	
3A	SVOC	2-Chlorophenol	95-57-8	T		2				1.49E+01	NC	
3A	SVOC	4-Chlorophenyl-phenyl ether	7005-72-3	T		2						
3A	SVOC	Chrysene	218-01-9	T	B2	2				5.13E+00	C	
3A	SVOC	Dibenz(a,h)anthracene	53-70-3	T	B2	2				3.24E-03	C	
3A	SVOC	Dibenzofuran	132-64-9	T	D	2				7.43E+00	NC	
3A	SVOC	3,3'-Dichlorobenzidine	91-94-1	T	B2	2				2.85E+00	C	
3A	SVOC	2,4-Dichlorophenol	120-83-2	T		2				4.90E+01	NC	
3A	SVOC	Diethylphthalate	84-66-2	T	D	2				4.67E+04	NC	
3A	SVOC	2,4-Dimethylphenol	105-67-9	T		2				6.26E+02	NC	
3A	SVOC	Dimethylphthalate	131-11-3	T	D	2						
3A	SVOC	Di-n-butylphthalate	84-74-2	T	D	2				4.63E+02	NC	
3A	SVOC	4,6-Dinitro-2-methylphenol	534-52-1	T		2				3.25E+00	NC	
3A	SVOC	2,4-Dinitrophenol	51-28-5	T		2				3.26E+02	NC	
3A	SVOC	2,4-Dinitrotoluene	121-14-2	T	B2	2				9.84E+00	C	
3A	SVOC	2,6-Dinitrotoluene	606-20-2	T	B2	2				9.17E+00	C	
3A	SVOC	Di-n-octylphthalate	117-84-0	T		2				3.94E+00	NC	
3A	SVOC	Fluoranthene	206-44-0	T	D	2				4.50E+01	NC	
3A	SVOC	Fluorene	86-73-7	T	D	2				9.95E+01	NC	
3A	SVOC	Hexachlorobenzene	118-74-1	T	B2	2				2.58E-02	C	
3A	SVOC	Hexachlorobutadiene	87-68-3	T	C	2				6.12E-01	NC	
3A	SVOC	Hexachlorocyclopentadiene	77-47-4	T	E	2				1.99E-01	NC	
3A	SVOC	Hexachloroethane	67-72-1	T	C	2				8.00E+00	NC	
3A	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	T	B2	2				3.28E-02	C	
3A	SVOC	Isophorone	78-59-1	T	C	2				7.89E+03	C	
3A	SVOC	2-Methylnaphthalene	91-57-6	T	ID	2				2.38E+00	NC	
3A	SVOC	Methylphenol (total)	1319-77-3	T		2				2.59E+03	NC	
3A	SVOC	Naphthalene	91-20-3	T	C	2				2.55E+00	NC	
3A	SVOC	2-Nitroaniline	88-74-4	T		2				3.11E-01	NC	
3A	SVOC	3-Nitroaniline	99-09-2	T	C	2				4.30E+01	NC	
3A	SVOC	4-Nitroaniline	100-01-6	T	C	2				4.55E+02	NC	

Table 22a: Off-Facility Unconsolidated Unit Screening Results - AOI 3A
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria
3A	SVOC	Nitrobenzene	98-95-3	T	D	2				6.57E+00	NC	
3A	SVOC	2-Nitrophenol	88-75-5	T		2						
3A	SVOC	4-Nitrophenol	100-02-7	T		2				6.65E+02	NC	
3A	SVOC	N-Nitrosodiphenylamine	86-30-6	T	B2	2				3.11E+02	C	
3A	SVOC	N-Nitroso-di-n-propylamine	621-64-7	T	B2	2				6.70E-01	C	
3A	SVOC	2,2'-oxybis(1-Chloropropane)	108-60-1	T	C	2				8.63E+00	C	
3A	SVOC	Pentachlorophenol	87-86-5	T	B2	2				1.21E+00	C	
3A	SVOC	Phenanthrene	85-01-8	T	D	2				7.06E+01	NC	
3A	SVOC	Phenol	108-95-2	T	ID	2				3.09E+04	NC	
3A	SVOC	Pyrene	129-00-0	T	D	2				3.47E+01	NC	
3A	SVOC	2,4,5-Trichlorophenol	95-95-4	T		2				7.24E+02	NC	
3A	SVOC	2,4,6-Trichlorophenol	88-06-2	T	B2	2				9.76E-01	NC	
3A	P/PCB	PCBs (total)	1336-36-3	T	B2	2				1.09E-02	NC	
3A	P/PCB	Aldrin	309-00-2	T	B2	2				1.61E-03	C	
3A	P/PCB	alpha-BHC	319-84-6	T	B2	2				1.20E-01	C	
3A	P/PCB	beta-BHC	319-85-7	T	C	2				5.63E-01	C	
3A	P/PCB	delta-BHC	319-86-8	T	D	2						
3A	P/PCB	gamma-BHC	58-89-9	T	B2-C	2				6.15E-01	C	
3A	P/PCB	Chlordane (total)	57-74-9	T	B2	2				1.92E-01	C	
3A	P/PCB	4,4'-DDD	72-54-8	T	B2	2				2.07E-01	C	
3A	P/PCB	4,4'-DDE	72-55-9	T	B2	2				5.26E-02	C	
3A	P/PCB	4,4'-DDT	50-29-3	T	B2	2				1.08E-01	C	
3A	P/PCB	Dieldrin	60-57-1	T	B2	2				1.26E-02	C	
3A	P/PCB	Endosulfan	115-29-7	T		2				8.06E+01	NC	
3A	P/PCB	Endosulfan sulfate	1031-07-8	T		2				2.50E+01	NC	
3A	P/PCB	Endrin	72-20-8	T	D	2				1.40E+00	NC	
3A	P/PCB	Endrin aldehyde	7421-93-4	T		2				5.40E-01	NC	
3A	P/PCB	Endrin ketone	53494-70-5	T		2						
3A	P/PCB	Heptachlor	76-44-8	T	B2	2				1.04E-02	C	
3A	P/PCB	Heptachlor epoxide	1024-57-3	T	B2	2				3.29E-02	C	
3A	P/PCB	Methoxychlor	72-43-5	T	D	2				1.58E+01	NC	
3A	P/PCB	Toxaphene	8001-35-2	T	B2	2				1.96E-01	C	

Table 22a: Off-Facility Unconsolidated Unit Screening Results - AOI 3A
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)	Ratio of Max Detect to Construction Worker GW Contact Criteria
Notes:											
The Screening Criteria for Pyrene were used as surrogates for Phenanthrene and Benzo(g,h,i)perylene.											
The Screening Criteria for Phenol were used as surrogates for Phenols (total).											
The Screening Criteria for Naphthalene were used as surrogates for 2-Methylnaphthalene.											
The Screening Criteria for cis-1,2-Dichloroethene were used as surrogates for 1,2-Dichloroethene (total).											
The concentrations for the Methylphenol (2, 3, & 4) were summed before comparing to the Screening Criteria for 4-Methylphenol.											
The concentrations for all PCB isomers were summed before comparing to Polychlorinated biphenyls (PCBs) for cancer effects											
and Aroclor 1254 for noncancer effects.											
The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.											
The concentrations for the Chlordane isomers (alpha and gamma) were summed before comparing to the Screening Criteria.											
The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.											
The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.											
c - The Screening Criterion is based on cancer risk.											
nc - The Screening Criterion is based on noncancer effects.											
Chem Group - Chemical Group											
Meas Basis - Measured Basis; T = Total, D = Dissolved											
Carc Class - EPA Weight-of-Evidence Cancer Classification											

Table 22b: Off-Facility Storm Sewer Backfill Water Screening Results - AOI 3A
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria
3A	VOC	Acetone	67-64-1	T	ID	1	1	7.90E-03	7.90E-03	6.26E+03	NC	1.3E-06
3A	VOC	Acetone	67-64-1	T	ID	4				6.26E+03	NC	
3A	VOC	Benzene	71-43-2	T	A	1				4.53E+00	C	
3A	VOC	Benzene	71-43-2	T	A	5				4.53E+00	C	
3A	VOC	Bromodichloromethane	75-27-4	T	B2	1				3.20E+00	C	
3A	VOC	Bromodichloromethane	75-27-4	T	B2	5				3.20E+00	C	
3A	VOC	Bromoform	75-25-2	T	B2	1				6.78E+01	C	
3A	VOC	Bromoform	75-25-2	T	B2	5				6.78E+01	C	
3A	VOC	Bromomethane	74-83-9	T	D	1				3.01E+00	NC	
3A	VOC	Bromomethane	74-83-9	T	D	5				3.01E+00	NC	
3A	VOC	2-Butanone	78-93-3	T	ID	1				8.04E+03	NC	
3A	VOC	2-Butanone	78-93-3	T	ID	4				8.04E+03	NC	
3A	VOC	Carbon Disulfide	75-15-0	T		1				3.49E+02	NC	
3A	VOC	Carbon Disulfide	75-15-0	T		5				3.49E+02	NC	
3A	VOC	Carbon Tetrachloride	56-23-5	T	B2	1				2.93E+00	C	
3A	VOC	Carbon Tetrachloride	56-23-5	T	B2	5				2.93E+00	C	
3A	VOC	Chlorobenzene	108-90-7	T	D	1				3.65E+01	NC	
3A	VOC	Chlorobenzene	108-90-7	T	D	5				3.65E+01	NC	
3A	VOC	Chloroethane	75-00-3	T		1				2.09E+03	C	
3A	VOC	Chloroethane	75-00-3	T		5				2.09E+03	C	
3A	VOC	Chloroform	67-66-3	T	B2	1				2.11E+00	C	
3A	VOC	Chloroform	67-66-3	T	B2	5				2.11E+00	C	
3A	VOC	Chloromethane	74-87-3	T	D	1				4.00E+01	NC	
3A	VOC	Chloromethane	74-87-3	T	D	5				4.00E+01	NC	
3A	VOC	Cumene	98-82-8	T	D	1				1.89E+02	NC	
3A	VOC	Cumene	98-82-8	T	D	5				1.89E+02	NC	
3A	VOC	Cyclohexane	110-82-7	T	ID	1				3.39E+03	NC	
3A	VOC	Cyclohexane	110-82-7	T	ID	5				3.39E+03	NC	
3A	VOC	1,2-Dibromo-3-chloropropane	96-12-8	T	B2	1				3.21E-01	NC	
3A	VOC	1,2-Dibromo-3-chloropropane	96-12-8	T	B2	5				3.21E-01	NC	
3A	VOC	Dibromochloromethane	124-48-1	T	C	1				2.83E+00	C	
3A	VOC	Dibromochloromethane	124-48-1	T	C	5				2.83E+00	C	
3A	VOC	1,2-Dibromoethane	106-93-4	T	B2	1				9.11E-02	C	
3A	VOC	1,2-Dibromoethane	106-93-4	T	B2	5				9.11E-02	C	
3A	VOC	1,2-Dichlorobenzene	95-50-1	T	D	1				1.35E+02	NC	
3A	VOC	1,2-Dichlorobenzene	95-50-1	T	D	5				1.35E+02	NC	
3A	VOC	1,3-Dichlorobenzene	541-73-1	T	D	1				8.18E+01	NC	
3A	VOC	1,3-Dichlorobenzene	541-73-1	T	D	5				8.18E+01	NC	
3A	VOC	1,4-Dichlorobenzene	106-46-7	T	C	1				6.78E+00	C	
3A	VOC	1,4-Dichlorobenzene	106-46-7	T	C	5				6.78E+00	C	
3A	VOC	Dichlorodifluoromethane	75-71-8	T		1				1.34E+02	NC	
3A	VOC	Dichlorodifluoromethane	75-71-8	T		5				1.34E+02	NC	
3A	VOC	1,1-Dichloroethane	75-34-3	T	C	1				3.00E+02	NC	
3A	VOC	1,1-Dichloroethane	75-34-3	T	C	5				3.00E+02	NC	
3A	VOC	1,2-Dichloroethane	107-06-2	T	B2	1				1.81E+00	C	
3A	VOC	1,2-Dichloroethane	107-06-2	T	B2	5				1.81E+00	C	
3A	VOC	1,1-Dichloroethene	75-35-4	T	C	1				1.16E+02	NC	
3A	VOC	1,1-Dichloroethene	75-35-4	T	C	5				1.16E+02	NC	

Table 22b: Off-Facility Storm Sewer Backfill Water Screening Results - AOI 3A
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria
3A	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	1				2.11E+01	NC	
3A	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	5	3	3.50E-04	4.70E-04	2.11E+01	NC	2.2E-05
3A	VOC	trans-1,2-Dichloroethene	156-60-5	T		1				4.12E+01	NC	
3A	VOC	trans-1,2-Dichloroethene	156-60-5	T		5				4.12E+01	NC	
3A	VOC	1,2-Dichloropropane	78-87-5	T	B2	1				2.72E+00	NC	
3A	VOC	1,2-Dichloropropane	78-87-5	T	B2	5				2.72E+00	NC	
3A	VOC	1,3-Dichloropropene (total)	542-75-6	T	B2	1				9.00E+00	C	
3A	VOC	1,3-Dichloropropene (total)	542-75-6	T	B2	5				9.00E+00	C	
3A	VOC	Ethyl Benzene	100-41-4	T	D	1				4.18E+02	NC	
3A	VOC	Ethyl Benzene	100-41-4	T	D	5				4.18E+02	NC	
3A	VOC	2-Hexanone	591-78-6	T		1				3.29E+00	NC	
3A	VOC	2-Hexanone	591-78-6	T		5				3.29E+00	NC	
3A	VOC	Methyl Acetate	79-20-9	T		1				7.84E+04	NC	
3A	VOC	Methyl Acetate	79-20-9	T		5				7.84E+04	NC	
3A	VOC	Methyl tert-butyl ether	1634-04-4	T		1				4.15E+02	C	
3A	VOC	Methyl tert-butyl ether	1634-04-4	T		5				4.15E+02	C	
3A	VOC	4-Methyl-2-pentanone	108-10-1	T	ID	1				3.43E+03	NC	
3A	VOC	4-Methyl-2-pentanone	108-10-1	T	ID	5				3.43E+03	NC	
3A	VOC	Methylcyclohexane	108-87-2	T		1				1.83E+03	NC	
3A	VOC	Methylcyclohexane	108-87-2	T		5				1.83E+03	NC	
3A	VOC	Methylene Chloride	75-09-2	T	B2	1				8.29E+01	C	
3A	VOC	Methylene Chloride	75-09-2	T	B2	5				8.29E+01	C	
3A	VOC	Styrene	100-42-5	T		1				5.41E+02	NC	
3A	VOC	Styrene	100-42-5	T		5				5.41E+02	NC	
3A	VOC	1,1,2,2-Tetrachloroethane	79-34-5	T	C	1				1.19E+00	C	
3A	VOC	1,1,2,2-Tetrachloroethane	79-34-5	T	C	5				1.19E+00	C	
3A	VOC	Tetrachloroethene	127-18-4	T	C-B2	1	1	5.15E-02	5.15E-02	1.33E+01	C	3.9E-03
3A	VOC	Tetrachloroethene	127-18-4	T	C-B2	5	5	1.00E-03	2.30E-03	1.33E+01	C	1.7E-04
3A	VOC	Toluene	108-88-3	T	D	1	1	5.25E-04	5.25E-04	2.26E+02	NC	2.3E-06
3A	VOC	Toluene	108-88-3	T	D	5	1	2.20E-04	2.20E-04	2.26E+02	NC	9.7E-07
3A	VOC	1,2,4-Trichlorobenzene	120-82-1	T	D	1				4.23E+01	NC	
3A	VOC	1,2,4-Trichlorobenzene	120-82-1	T	D	5				4.23E+01	NC	
3A	VOC	1,1,1-Trichloroethane	71-55-6	T	D	1				1.37E+03	NC	
3A	VOC	1,1,1-Trichloroethane	71-55-6	T	D	5				1.37E+03	NC	
3A	VOC	1,1,2-Trichloroethane	79-00-5	T	C	1				3.35E+00	C	
3A	VOC	1,1,2-Trichloroethane	79-00-5	T	C	5				3.35E+00	C	
3A	VOC	Trichloroethene	79-01-6	T	C-B2	1	1	2.90E-03	2.90E-03	2.50E+01	C	1.2E-04
3A	VOC	Trichloroethene	79-01-6	T	C-B2	5	5	6.30E-04	1.30E-03	2.50E+01	C	5.2E-05
3A	VOC	Trichlorofluoromethane	75-69-4	T		1				4.83E+02	NC	
3A	VOC	Trichlorofluoromethane	75-69-4	T		5				4.83E+02	NC	
3A	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	T		1				2.43E+04	NC	
3A	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	T		5	1	3.70E-04	3.70E-04	2.43E+04	NC	1.5E-08
3A	VOC	Vinyl Chloride	75-01-4	T	A	1				1.94E+00	C	
3A	VOC	Vinyl Chloride	75-01-4	T	A	5				1.94E+00	C	
3A	VOC	Xylenes (total)	1330-20-7	T	ID	1				6.28E+01	NC	
3A	VOC	Xylenes (total)	1330-20-7	T	ID	5	1	6.20E-04	6.20E-04	6.28E+01	NC	9.9E-06

Table 22b: Off-Facility Storm Sewer Backfill Water Screening Results - AOI 3A
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria
Notes:												
The Screening Criteria for Pyrene were used as surrogates for Phenanthrene and Benzo(g,h,i)perylene.												
The Screening Criteria for Phenol were used as surrogates for Phenols (total).												
The Screening Criteria for Naphthalene were used as surrogates for 2-Methylnaphthalene.												
The Screening Criteria for cis-1,2-Dichloroethene were used as surrogates for 1,2-Dichloroethene (total).												
The concentrations for the Methylphenol (2, 3, & 4) were summed before comparing to the Screening Criteria for 4-Methylphenol.												
The concentrations for all PCB isomers were summed before comparing to Polychlorinated biphenyls (PCBs) for cancer effects												
and Aroclor 1254 for noncancer effects.												
The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.												
The concentrations for the Chlordane isomers (alpha and gamma) were summed before comparing to the Screening Criteria.												
The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.												
The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.												
c - The Screening Criterion is based on cancer risk.												
nc - The Screening Criterion is based on noncancer effects.												
Chem Group - Chemical Group												
Meas Basis - Measured Basis; T = Total, D = Dissolved												
Carc Class - EPA Weight-of-Evidence Cancer Classification												

Table 23: Sewer Water Screening Results - AOI 3A
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)		Ratio of Max Detect to DW Criteria	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria	Res Nonpotable Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res Nonpotable Contact Crtieria
3A	VOC	Acetone	67-64-1	T	ID	16	1	2.00E-02	2.00E-02	3.70E+00	NC	5.4E-03	6.26E+03	NC	3.2E-06	7.94E+03	NC	2.5E-06
3A	VOC	Benzene	71-43-2	T	A	18				5.00E-03	C		4.53E+00	C		9.55E-01	C	
3A	VOC	Bromodichloromethane	75-27-4	T	B2	18				8.00E-02	C		3.20E+00	C		1.51E+00	C	
3A	VOC	Bromoform	75-25-2	T	B2	18				8.00E-02	C		6.78E+01	C		1.27E+01	C	
3A	VOC	Bromomethane	74-83-9	T	D	18				5.10E-02	NC		3.01E+00	NC		1.75E+01	NC	
3A	VOC	2-Butanone	78-93-3	T	ID	17				2.20E+01	NC		8.04E+03	NC		5.52E+03	NC	
3A	VOC	Carbon Disulfide	75-15-0	T		17				3.70E+00	NC		3.49E+02	NC		1.17E+03	NC	
3A	VOC	Carbon Tetrachloride	56-23-5	T	B2	18				5.00E-03	C		2.93E+00	C		3.13E-01	C	
3A	VOC	Chlorobenzene	108-90-7	T	D	18				1.00E-01	NC		3.65E+01	NC		2.21E+02	NC	
3A	VOC	Chloroethane	75-00-3	T		18				1.50E+01	NC		2.09E+03	C		3.76E+01	C	
3A	VOC	2-Chloroethylvinyl ether	110-75-8	T		1												
3A	VOC	Chloroform	67-66-3	T	B2	18				8.00E-02	NC		2.11E+00	C		5.53E+01	C	
3A	VOC	Chloromethane	74-87-3	T	D	18				5.20E-02	C		4.00E+01	NC		4.51E+03	NC	
3A	VOC	Cumene	98-82-8	T	D	1				3.70E+00	NC		1.89E+02	NC		8.31E+02	NC	
3A	VOC	Cyclohexane	110-82-7	T	ID	1				2.10E+02	NC		3.39E+03	NC		3.21E+05	NC	
3A	VOC	1,2-Dibromo-3-chloropropane	96-12-8	T	B2	1				2.00E-04	C		3.21E-01	NC		4.65E-02	C	
3A	VOC	Dibromochloromethane	124-48-1	T	C	18				8.00E-02	C		2.83E+00	C		1.21E+00	C	
3A	VOC	1,2-Dibromoethane	106-93-4	T	B2	1				5.00E-05	C		9.11E-02	C		1.73E-03	C	
3A	VOC	1,2-Dichlorobenzene	95-50-1	T	D	3				6.00E-01	NC		1.35E+02	NC		8.34E+02	NC	
3A	VOC	1,3-Dichlorobenzene	541-73-1	T	D	3				3.30E-02	NC		8.18E+01	NC		3.25E+02	NC	
3A	VOC	1,4-Dichlorobenzene	106-46-7	T	C	3				7.50E-02	C		6.78E+00	C		6.08E-01	C	
3A	VOC	Dichlorodifluoromethane	75-71-8	T		1				7.30E+00	NC		1.34E+02	NC		1.72E+03	NC	
3A	VOC	1,1-Dichloroethane	75-34-3	T	C	18				3.70E+00	NC		3.00E+02	NC		1.19E+03	NC	
3A	VOC	1,2-Dichloroethane	107-06-2	T	B2	17				5.00E-03	C		1.81E+00	C		1.30E+00	C	
3A	VOC	1,1-Dichloroethene	75-35-4	T	C	18				7.00E-03	NC		1.16E+02	NC		5.93E+02	NC	
3A	VOC	1,2-Dichloroethene (total)	540-59-0	T		16	9	1.50E-03	3.20E-02	3.70E-01	NC	8.6E-02	1.87E+01	NC	1.7E-03	1.12E+02	NC	2.9E-04
3A	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	16	10	1.50E-03	3.10E-02	7.00E-02	NC	4.4E-01	2.11E+01	NC	1.5E-03	1.22E+02	NC	2.6E-04
3A	VOC	trans-1,2-Dichloroethene	156-60-5	T		18				1.00E-01	NC		4.12E+01	NC		2.48E+02	NC	
3A	VOC	1,2-Dichloropropane	78-87-5	T	B2	18				5.00E-03	C		2.72E+00	NC		1.15E+00	C	
3A	VOC	1,3-Dichloropropene (total)	542-75-6	T	B2	18				6.70E-03	C		9.00E+00	C		7.80E-01	C	
3A	VOC	Ethyl Benzene	100-41-4	T	D	18				7.00E-01	NC		4.18E+02	NC		9.81E+02	NC	
3A	VOC	n-Hexane	110-54-3	T		16				2.20E+00	NC		1.21E+02	NC		2.76E+02	NC	
3A	VOC	2-Hexanone	591-78-6	T		17							3.29E+00	NC		6.95E+03	NC	
3A	VOC	Methyl Acetate	79-20-9	T		1				3.70E+01	NC		7.84E+04	NC		4.24E+03	NC	
3A	VOC	Methyl tert-butyl ether	1634-04-4	T		1				2.00E-01	C		4.15E+02	C		4.18E+01	C	
3A	VOC	4-Methyl-2-pentanone	108-10-1	T	ID	17				2.90E+00	NC		3.43E+03	NC		1.48E+05	NC	
3A	VOC	Methylcyclohexane	108-87-2	T		1				3.10E+01	NC		1.83E+03	NC		1.58E+05	NC	
3A	VOC	Methylene Chloride	75-09-2	T	B2	17				5.00E-03	C		8.29E+01	C		1.91E+01	C	
3A	VOC	n-Hexane Extractable Material	HEXEEXTMAT	T		1												
3A	VOC	Styrene	100-42-5	T		17				1.00E-01	NC		5.41E+02	NC		1.53E+03	NC	
3A	VOC	1,1,2,2-Tetrachloroethane	79-34-5	T	C	18				3.40E-03	C		1.19E+00	C		3.13E-01	C	
3A	VOC	Tetrachloroethene	127-18-4	T	C-B2	17	13	8.20E-03	5.60E-01	5.00E-03	C	**1.1E+02**	1.33E+01	C	4.2E-02	9.01E-01	C	6.2E-01
3A	VOC	Toluene	108-88-3	T	D	18				1.00E+00	NC		2.26E+02	NC		1.58E+03	NC	
3A	VOC	1,2,4-Trichlorobenzene	120-82-1	T	D	2				7.00E-02	NC		4.23E+01	NC		1.14E+02	NC	
3A	VOC	1,1,1-Trichloroethane	71-55-6	T	D	18				2.00E-01	NC		1.37E+03	NC		2.41E+03	NC	
3A	VOC	1,1,2-Trichloroethane	79-00-5	T	C	18				5.00E-03	C		3.35E+00	C		1.38E+00	C	
3A	VOC	Trichloroethene	79-01-6	T	C-B2	17	10	1.10E-03	9.60E-03	5.00E-03	C	**1.9E+00**	2.50E+01	C	3.8E-04	3.33E+00	C	2.9E-03
3A	VOC	Trichlorofluoromethane	75-69-4	T		2				1.10E+01	NC		4.83E+02	NC		2.41E+03	NC	

Table 23: Sewer Water Screening Results - AOI 3A
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)		Ratio of Max Detect to DW Criteria	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria	Res Nonpotable Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res Nonpotable Contact Crtieria
3A	VOC	1,1,2-Trichloro-1,2,2-trifluoroetha	76-13-1	T		3				1.10E+03	NC		2.43E+04	NC		4.52E+01	NC	
3A	VOC	Vinyl Chloride	75-01-4	T	A	17				2.00E-03	C		1.94E+00	C		7.34E-02	C	
3A	VOC	Xylenes (total)	1330-20-7	T	ID	17				1.00E+01	NC		6.28E+01	NC		1.14E+03	NC	
3A	SVOC	Acenaphthene	83-32-9	T		2				2.20E+00	NC		1.46E+02	NC		5.25E+02	NC	
3A	SVOC	Acenaphthylene	208-96-8	T	D	2	1	1.50E-02	1.50E-02	1.10E+00	NC	1.4E-02	6.87E+01	NC	2.2E-04	2.70E+02	NC	5.6E-05
3A	SVOC	Anthracene	120-12-7	T	D	2				1.10E+01	NC		7.21E+02	NC		3.42E+02	NC	
3A	SVOC	Benzo(a)anthracene	56-55-3	T	B2	2				9.20E-04	C		5.53E-02	C		5.30E-04	C	
3A	SVOC	Benzo(a)pyrene	50-32-8	T	B2	2				2.00E-04	C		3.48E-03	C		3.01E-05	C	
3A	SVOC	Benzo(b)fluoranthene	205-99-2	T	B2	2	1	1.70E-04	1.70E-04	9.20E-04	C	1.8E-01	2.90E-02	C	5.9E-03	4.84E-04	C	3.5E-01
3A	SVOC	Benzo(g,h,i)perylene	191-24-2	T	D	2	1	1.60E-04	1.60E-04	1.10E+00	NC	1.5E-04	6.17E+00	NC	2.6E-05	7.63E+01	NC	2.1E-06
3A	SVOC	Benzo(k)fluoranthene	207-08-9	T	B2	2	1	7.20E-05	7.20E-05	9.20E-03	C	7.8E-03	3.04E-01	C	2.4E-04	2.56E-03	C	2.8E-02
3A	SVOC	bis(2-Chloroethoxy)methane	111-91-1	T	D	1												
3A	SVOC	bis(2-Chloroethyl) ether	111-44-4	T	B2	1				6.10E-04	C		1.02E+00	C		9.71E-02	C	
3A	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	T	B2	1				6.00E-03	C		9.08E-01	C		7.48E-03	C	
3A	SVOC	4-Bromophenyl-phenyl ether	101-55-3	T	D	1												
3A	SVOC	Butylbenzylphthalate	85-68-7	T	C	1				7.30E+00	NC		7.24E+02	NC		3.14E+02	NC	
3A	SVOC	4-Chloro-3-methylphenol	59-50-7	T		1												
3A	SVOC	2-Chloronaphthalene	91-58-7	T		1				2.90E+00	NC		1.57E+02	NC		6.75E+02	NC	
3A	SVOC	2-Chlorophenol	95-57-8	T		1				1.80E-01	NC		1.49E+01	NC		5.52E+01	NC	
3A	SVOC	4-Chlorophenyl-phenyl ether	7005-72-3	T		1												
3A	SVOC	Chrysene	218-01-9	T	B2	2	1	1.30E-04	1.30E-04	9.20E-02	C	1.4E-03	5.13E+00	C	2.5E-05	8.92E-02	C	1.5E-03
3A	SVOC	Dibenz(a,h)anthracene	53-70-3	T	B2	2				9.20E-05	C		3.24E-03	C		2.66E-05	C	
3A	SVOC	3,3'-Dichlorobenzidine	91-94-1	T	B2	1				1.50E-03	C		2.85E+00	C		2.20E-02	C	
3A	SVOC	2,4-Dichlorophenol	120-83-2	T		1				1.10E-01	NC		4.90E+01	NC		1.53E+01	NC	
3A	SVOC	Diethylphthalate	84-66-2	T	D	1				2.90E+01	NC		4.67E+04	NC		1.41E+03	NC	
3A	SVOC	2,4-Dimethylphenol	105-67-9	T		1				7.30E-01	NC		6.26E+02	NC		1.01E+02	NC	
3A	SVOC	Dimethylphthalate	131-11-3	T	D	1				3.70E+02	NC							
3A	SVOC	Di-n-butylphthalate	84-74-2	T	D	1				3.70E+00	NC		4.63E+02	NC		3.29E+02	NC	
3A	SVOC	4,6-Dinitro-2-methylphenol	534-52-1	T		1							3.25E+00	NC		4.67E-01	NC	
3A	SVOC	2,4-Dinitrophenol	51-28-5	T		1				7.30E-02	NC		3.26E+02	NC		9.35E+00	NC	
3A	SVOC	2,4-Dinitrotoluene	121-14-2	T	B2	1				7.30E-02	NC		9.84E+00	C		6.18E-02	C	
3A	SVOC	2,6-Dinitrotoluene	606-20-2	T	B2	1				3.70E-02	NC		9.17E+00	C		7.10E-02	C	
3A	SVOC	Di-n-octylphthalate	117-84-0	T		1				1.50E+00	NC		3.94E+00	NC		7.45E+01	NC	
3A	SVOC	Fluoranthene	206-44-0	T	D	2	1	3.80E-04	3.80E-04	1.50E+00	NC	2.5E-04	4.50E+01	NC	8.4E-06	2.04E+02	NC	1.9E-06
3A	SVOC	Fluorene	86-73-7	T	D	2				1.50E+00	NC		9.95E+01	NC		3.23E+02	NC	
3A	SVOC	Hexachlorobenzene	118-74-1	T	B2	1				1.00E-03	C		2.58E-02	C		5.70E-04	C	
3A	SVOC	Hexachlorobutadiene	87-68-3	T	C	1				8.60E-03	C		6.12E-01	NC		5.20E-02	C	
3A	SVOC	Hexachloroethane	67-72-1	T	C	1				3.70E-02	NC		8.00E+00	NC		7.47E-01	C	
3A	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	T	B2	2				9.20E-04	C		3.28E-02	C		2.81E-04	C	
3A	SVOC	Isophorone	78-59-1	T	C	1				7.10E-01	C		7.89E+03	C		6.27E+01	C	
3A	SVOC	1-Methylnaphthalene	90-12-0	T		1												
3A	SVOC	2-Methylnaphthalene	91-57-6	T	ID	1				7.30E-01	NC		2.38E+00	NC		3.49E+01	NC	
3A	SVOC	Naphthalene	91-20-3	T	C	2				7.30E-01	NC		2.55E+00	NC		8.99E+01	NC	
3A	SVOC	Nitrobenzene	98-95-3	T	D	1				1.80E-02	NC		6.57E+00	NC		4.05E+00	NC	
3A	SVOC	2-Nitrophenol	88-75-5	T		1												
3A	SVOC	4-Nitrophenol	100-02-7	T		1							6.65E+02	NC		3.68E+01	NC	
3A	SVOC	N-Nitroso-di-n-propylamine	621-64-7	T	B2	1				9.60E-05	C		6.70E-01	C		8.80E-03	C	
3A	SVOC	2,2'-oxybis(1-Chloropropane)	108-60-1	T	C	1				9.60E-03	C		8.63E+00	C		3.03E-01	C	

Table 23: Sewer Water Screening Results - AOI 3A
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)		Ratio of Max Detect to DW Criteria	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria	Res Nonpotable Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res Nonpotable Contact Crtieria
3A	SVOC	Pentachlorophenol	87-86-5	T	B2	1				1.00E-03	C		1.21E+00	C		9.88E-03	C	
3A	SVOC	Phenanthrene	85-01-8	T	D	2				1.10E+00	NC		7.06E+01	NC		1.98E+02	NC	
3A	SVOC	Phenol	108-95-2	T	ID	1				2.20E+01	NC		3.09E+04	NC		1.26E+03	NC	
3A	SVOC	Pyrene	129-00-0	T	D	2	1	3.70E-04	3.70E-04	1.10E+00	NC	3.4E-04	3.47E+01	NC	1.1E-05	1.55E+02	NC	2.4E-06
3A	SVOC	2,4,6-Trichlorophenol	88-06-2	T	B2	1				3.70E-03	NC		9.76E-01	NC		5.76E-01	NC	
3A	P/PCB	PCBs (total)	1336-36-3	T	B2	1				5.00E-04	C		1.09E-02	NC		4.21E-04	C	
3A	INORG	Arsenic	7440-38-2	T	A	1				5.00E-02	C		1.44E+01	C		5.77E-02	C	
3A	INORG	Barium	7440-39-3	T	D	1				2.00E+00	NC		2.15E+04	NC		2.60E+02	NC	
3A	INORG	Cadmium	7440-43-9	T	B1	1				5.00E-03	NC		3.08E+02	NC		3.71E+00	NC	
3A	INORG	Chromium (total)	7440-47-3	T		1				1.00E-01	NC		9.23E+02	NC		1.11E+01	NC	
3A	INORG	Copper	7440-50-8	T	D	1				1.30E+00	NC		1.23E+04	NC		1.48E+02	NC	
3A	INORG	Lead	7439-92-1	T	B2	1				1.50E-02								
3A	INORG	Manganese	7439-96-5	T	D	1				8.80E-01	NC		4.31E+04	NC		5.19E+02	NC	
3A	INORG	Mercury	7439-97-6	T	D	1				2.00E-03			2.65E-01	NC		2.67E+00	NC	
3A	INORG	Molybdenum	7439-98-7	T		1				1.80E-01	NC		1.54E+03	NC		1.85E+01	NC	
3A	INORG	Selenium	7782-49-2	T	D	1				5.00E-02	NC		1.54E+03	NC		1.85E+01	NC	
3A	INORG	Silver	7440-22-4	T	D	1				1.80E-01	NC		1.83E+03	NC		2.01E+01	NC	
3A	INORG	Zinc	7440-66-6	T	D	1				1.10E+01	NC		1.10E+05	NC		1.21E+03	NC	

Notes:

The Screening Criteria for Pyrene were used as surrogates for Phenanthrene and Benzo(g,h,i)perylene.

The Screening Criteria for Phenol were used as surrogates for Phenols (total).

The Screening Criteria for Naphthalene were used as surrogates for 2-Methylnaphthalene.

The Screening Criteria for cis-1,2-Dichloroethene were used as surrogates for 1,2-Dichloroethene (total).

The Screening Criteria for Chromium VI was used as a surrogate for Chromium (total).

The concentrations for the Methylphenol (2, 3, & 4) were summed before comparing to the Screening Criteria for 4-Methylphenol.

The concentrations for all PCB isomers were summed before comparing to Polychlorinated biphenyls (PCBs) for cancer effects and Aroclor 1254 for noncancer effects.

The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.

The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.

The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.

c - The Screening Criterion is based on cancer risk.

nc - The Screening Criterion is based on noncancer effects.

Chem Group - Chemical Group

Meas Basis - Measured Basis; T = Total, D = Dissolved

Carc Class - EPA Weight-of-Evidence Cancer Classification

Table 24: Sediment Screening Results - AOI 4
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Residential Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Max Detect to Residential Criteria	Industrial Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect to Industrial Criteria
4	VOC	Acetone	67-64-1	ID	13	1	3.30E-02	3.30E-02		1.60E+03	NC	2.1E-05	6.00E+03	NC	5.5E-06
4	VOC	Benzene	71-43-2	A	13					6.00E+00	C		1.30E+01	C	
4	VOC	Bromodichloromethane	75-27-4	B2	13					8.20E+00	C		1.80E+01	C	
4	VOC	Bromoform	75-25-2	B2	13					6.20E+02	C		2.20E+03	C	
4	VOC	Bromomethane	74-83-9	D	13					3.90E+00	NC		1.30E+01	NC	
4	VOC	2-Butanone	78-93-3	ID	13					7.30E+03	NC		2.70E+04	NC	
4	VOC	Carbon Disulfide	75-15-0		13					3.60E+02	NC		1.20E+03	NC	
4	VOC	Carbon Tetrachloride	56-23-5	B2	13					2.20E+00	NC		5.50E+00	C	
4	VOC	Chlorobenzene	108-90-7	D	13					1.50E+02	NC		5.30E+02	NC	
4	VOC	Chloroethane	75-00-3		13					3.00E+01	C		6.50E+01	C	
4	VOC	Chloroform	67-66-3	B2	13					3.60E+00	NC		1.20E+01	NC	
4	VOC	Chloromethane	74-87-3	D	13					1.20E+01	C		2.70E+01	C	
4	VOC	Cumene	98-82-8	D	1					5.70E+02	NC		2.00E+03	NC	
4	VOC	Cyclohexane	110-82-7	ID	1					9.50E+03	NC		3.20E+04	NC	
4	VOC	1,2-Dibromo-3-chloropropane	96-12-8	B2	1					1.50E+00	NC		6.50E+00	NC	
4	VOC	Dibromochloromethane	124-48-1	C	13					1.10E+01	C		2.60E+01	C	
4	VOC	1,2-Dibromoethane	106-93-4	B2	1					6.90E-02	C		2.80E-01	C	
4	VOC	1,2-Dichlorobenzene	95-50-1	D	1					1.10E+03	NC		4.10E+03	NC	
4	VOC	1,3-Dichlorobenzene	541-73-1	D	1					1.60E+01	NC		6.30E+01	NC	
4	VOC	1,4-Dichlorobenzene	106-46-7	C	1					3.50E+01	C		7.90E+01	C	
4	VOC	Dichlorodifluoromethane	75-71-8		1					9.40E+01	NC		3.10E+02	NC	
4	VOC	1,1-Dichloroethane	75-34-3	C	13					5.10E+02	NC		1.70E+03	NC	
4	VOC	1,2-Dichloroethane	107-06-2	B2	13					2.80E+00	C		6.00E+00	C	
4	VOC	1,1-Dichloroethene	75-35-4	C	13					1.20E+02	NC		4.10E+02	NC	
4	VOC	1,2-Dichloroethene (total)	540-59-0		12	3	5.90E-03	3.90E-02		4.30E+01	NC	9.1E-04	1.50E+02	NC	2.6E-04
4	VOC	cis-1,2-Dichloroethene	156-59-2	D	13	4	5.00E-03	3.90E-02		4.30E+01	NC	9.1E-04	1.50E+02	NC	2.6E-04
4	VOC	trans-1,2-Dichloroethene	156-60-5		13					7.00E+01	NC		2.30E+02	NC	
4	VOC	1,2-Dichloropropane	78-87-5	B2	13					3.40E+00	C		7.40E+00	C	
4	VOC	1,3-Dichloropropene (total)	542-75-6	B2	13					7.80E+00	C		1.80E+01	C	
4	VOC	Ethyl Benzene	100-41-4	D	13					1.90E+03	NC		7.40E+03	NC	
4	VOC	n-Hexane	110-54-3		12					1.20E+02	NC		4.00E+02	NC	
4	VOC	2-Hexanone	591-78-6		13										
4	VOC	Methyl Acetate	79-20-9		1					2.20E+04	NC		9.20E+04	NC	
4	VOC	Methyl tert-butyl ether	1634-04-4		1					6.20E+02	C		1.60E+03	C	
4	VOC	4-Methyl-2-pentanone	108-10-1	ID	13					7.90E+02	NC		2.80E+03	NC	
4	VOC	Methylcyclohexane	108-87-2		1					2.60E+03	NC		8.70E+03	NC	
4	VOC	Methylene Chloride	75-09-2	B2	13					9.10E+01	C		2.10E+02	C	
4	VOC	Styrene	100-42-5		13					4.40E+03	NC		1.80E+04	NC	
4	VOC	1,1,2,2-Tetrachloroethane	79-34-5	C	13					4.10E+00	C		9.30E+00	C	
4	VOC	Tetrachloroethene	127-18-4	C-B2	13	5	3.00E-03	1.40E-02		1.50E+01	C	9.3E-04	3.40E+01	C	4.1E-04
4	VOC	Toluene	108-88-3	D	13					6.60E+02	NC		2.20E+03	NC	
4	VOC	1,2,4-Trichlorobenzene	120-82-1	D	1					6.50E+02	NC		5.60E+03	NC	
4	VOC	1,1,1-Trichloroethane	71-55-6	D	13					2.00E+03	NC		6.90E+03	NC	
4	VOC	1,1,2-Trichloroethane	79-00-5	C	13					7.30E+00	C		1.60E+01	C	
4	VOC	Trichloroethene	79-01-6	C-B2	13	2	6.80E-03	2.30E-02		2.32E+01	NC	9.9E-04	6.12E+01	C	3.8E-04
4	VOC	Trichlorofluoromethane	75-69-4		1					3.90E+02	NC		1.30E+03	NC	
4	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1		1					2.10E+04	NC		6.90E+04	NC	
4	VOC	Vinyl Chloride	75-01-4	A	13					7.90E-01	C		7.50E+00	C	

Table 24: Sediment Screening Results - AOI 4
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	Analyzed	Detected	Min Detected (mg/kg)	Max Detected (mg/kg)	Site Specific Background (mg/kg)	Residential Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Max Detect to Residential Criteria	Industrial Criteria (TR=1E-5 & HQ=1) (mg/kg)		Ratio of Site-Related Max Detect to Industrial Criteria
4	VOC	Xylenes (total)	1330-20-7	ID	13					2.80E+02	NC		9.00E+02	NC	
	Notes:														
	The Screening Criteria for cis-1,2-Dichloroethene were used as surrogates for 1,2-Dichloroethene (total).														
	The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.														
	The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.														
	The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.														
	c - The Screening Criterion is based on cancer risk.														
	nc - The Screening Criterion is based on noncancer effects.														
	Chem Group - Chemical Group														
	Carc Class - EPA Weight-of-Evidence Cancer Classification														

Table 25: Surface Water Screening Results - AOI 4
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)		Ratio of Max Detect to DW Criteria	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria	Residential Nonpotable Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res Nonpotable Contact Crtieria
4	VOC	Acetone	67-64-1	T	ID	33	6	7.80E-04	3.70E-02	3.70E+00	NC	1.0E-02	6.26E+03	NC	5.9E-06	7.94E+03	NC	4.7E-06
4	VOC	Benzene	71-43-2	T	A	33				5.00E-03	C		4.53E+00	C		9.55E-01	C	
4	VOC	Bromodichloromethane	75-27-4	T	B2	33				8.00E-02	C		3.20E+00	C		1.51E+00	C	
4	VOC	Bromoform	75-25-2	T	B2	33				8.00E-02	C		6.78E+01	C		1.27E+01	C	
4	VOC	Bromomethane	74-83-9	T	D	33				5.10E-02	NC		3.01E+00	NC		1.75E+01	NC	
4	VOC	2-Butanone	78-93-3	T	ID	33				2.20E+01	NC		8.04E+03	NC		5.52E+03	NC	
4	VOC	Carbon Disulfide	75-15-0	T		33	1	2.20E-04	2.20E-04	3.70E+00	NC	5.9E-05	3.49E+02	NC	6.3E-07	1.17E+03	NC	1.9E-07
4	VOC	Carbon Tetrachloride	56-23-5	T	B2	33				5.00E-03	C		2.93E+00	C		3.13E-01	C	
4	VOC	Chlorobenzene	108-90-7	T	D	33				1.00E-01	NC		3.65E+01	NC		2.21E+02	NC	
4	VOC	Chloroethane	75-00-3	T		33				1.50E+01	NC		2.09E+03	C		3.76E+01	C	
4	VOC	Chloroform	67-66-3	T	B2	33				8.00E-02	NC		2.11E+00	C		5.53E+01	C	
4	VOC	Chloromethane	74-87-3	T	D	33				5.20E-02	C		4.00E+01	NC		4.51E+03	NC	
4	VOC	Cumene	98-82-8	T	D	5				3.70E+00	NC		1.89E+02	NC		8.31E+02	NC	
4	VOC	Cyclohexane	110-82-7	T	ID	5				2.10E+02	NC		3.39E+03	NC		3.21E+05	NC	
4	VOC	1,2-Dibromo-3-chloropropane	96-12-8	T	B2	5				2.00E-04	C		3.21E-01	NC		4.65E-02	C	
4	VOC	Dibromochloromethane	124-48-1	T	C	33				8.00E-02	C		2.83E+00	C		1.21E+00	C	
4	VOC	1,2-Dibromoethane	106-93-4	T	B2	5				5.00E-05	C		9.11E-02	C		1.73E-03	C	
4	VOC	1,2-Dichlorobenzene	95-50-1	T	D	5				6.00E-01	NC		1.35E+02	NC		8.34E+02	NC	
4	VOC	1,3-Dichlorobenzene	541-73-1	T	D	5				3.30E-02	NC		8.18E+01	NC		3.25E+02	NC	
4	VOC	1,4-Dichlorobenzene	106-46-7	T	C	5				7.50E-02	C		6.78E+00	C		6.08E-01	C	
4	VOC	Dichlorodifluoromethane	75-71-8	T		5				7.30E+00	NC		1.34E+02	NC		1.72E+03	NC	
4	VOC	1,1-Dichloroethane	75-34-3	T	C	33				3.70E+00	NC		3.00E+02	NC		1.19E+03	NC	
4	VOC	1,2-Dichloroethane	107-06-2	T	B2	30				5.00E-03	C		1.81E+00	C		1.30E+00	C	
4	VOC	1,1-Dichloroethene	75-35-4	T	C	33				7.00E-03	NC		1.16E+02	NC		5.93E+02	NC	
4	VOC	1,2-Dichloroethene (total)	540-59-0	T		28	3	3.60E-04	1.20E-03	3.70E-01	NC	3.2E-03	1.87E+01	NC	6.4E-05	1.12E+02	NC	1.1E-05
4	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	33	9	3.10E-04	1.20E-03	7.00E-02	NC	1.7E-02	2.11E+01	NC	5.7E-05	1.22E+02	NC	9.9E-06
4	VOC	trans-1,2-Dichloroethene	156-60-5	T		33				1.00E-01	NC		4.12E+01	NC		2.48E+02	NC	
4	VOC	1,2-Dichloropropane	78-87-5	T	B2	33				5.00E-03	C		2.72E+00	NC		1.15E+00	C	
4	VOC	1,3-Dichloropropene (total)	542-75-6	T	B2	33				6.70E-03	C		9.00E+00	C		7.80E-01	C	
4	VOC	Ethyl Benzene	100-41-4	T	D	33				7.00E-01	NC		4.18E+02	NC		9.81E+02	NC	
4	VOC	n-Hexane	110-54-3	T		28				2.20E+00	NC		1.21E+02	NC		2.76E+02	NC	
4	VOC	2-Hexanone	591-78-6	T		33							3.29E+00	NC		6.95E+03	NC	
4	VOC	Methyl Acetate	79-20-9	T		5				3.70E+01	NC		7.84E+04	NC		4.24E+03	NC	
4	VOC	Methyl tert-butyl ether	1634-04-4	T		5				2.00E-01	C		4.15E+02	C		4.18E+01	C	
4	VOC	4-Methyl-2-pentanone	108-10-1	T	ID	33				2.90E+00	NC		3.43E+03	NC		1.48E+05	NC	
4	VOC	Methylcyclohexane	108-87-2	T		5				3.10E+01	NC		1.83E+03	NC		1.58E+05	NC	
4	VOC	Methylene Chloride	75-09-2	T	B2	33	1	5.20E-04	5.20E-04	5.00E-03	C	1.0E-01	8.29E+01	C	6.3E-06	1.91E+01	C	2.7E-05
4	VOC	Styrene	100-42-5	T		33				1.00E-01	NC		5.41E+02	NC		1.53E+03	NC	
4	VOC	1,1,2,2-Tetrachloroethane	79-34-5	T	C	33				3.40E-03	C		1.19E+00	C		3.13E-01	C	
4	VOC	Tetrachloroethene	127-18-4	T	C-B2	33	28	1.00E-03	7.50E-02	5.00E-03	C	**1.5E+01**	1.33E+01	C	5.7E-03	9.01E-01	C	8.3E-02
4	VOC	Toluene	108-88-3	T	D	33	1	2.30E-04	2.30E-04	1.00E+00	NC	2.3E-04	2.26E+02	NC	1.0E-06	1.58E+03	NC	1.5E-07
4	VOC	1,2,4-Trichlorobenzene	120-82-1	T	D	5				7.00E-02	NC		4.23E+01	NC		1.14E+02	NC	
4	VOC	1,1,1-Trichloroethane	71-55-6	T	D	33				2.00E-01	NC		1.37E+03	NC		2.41E+03	NC	
4	VOC	1,1,2-Trichloroethane	79-00-5	T	C	33				5.00E-03	C		3.35E+00	C		1.38E+00	C	
4	VOC	Trichloroethene	79-01-6	T	C-B2	33	7	4.00E-04	1.40E-03	5.00E-03	C	2.8E-01	2.50E+01	C	5.6E-05	3.33E+00	C	4.2E-04
4	VOC	Trichlorofluoromethane	75-69-4	T		5				1.10E+01	NC		4.83E+02	NC		2.41E+03	NC	
4	VOC	1,1,2-Trichloro-1,2,2-trifluoroe	76-13-1	T		15				1.10E+03	NC		2.43E+04	NC		4.52E+01	NC	
4	VOC	Vinyl Chloride	75-01-4	T	A	33				2.00E-03	C		1.94E+00	C		7.34E-02	C	
4	VOC	Xylenes (total)	1330-20-7	T	ID	33				1.00E+01	NC		6.28E+01	NC		1.14E+03	NC	

Table 25: Surface Water Screening Results - AOI 4
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)		Ratio of Max Detect to DW Criteria	Construction Worker GW Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Construction Worker GW Contact Criteria	Residential Nonpotable Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res Nonpotable Contact Crtieria
Notes:																		
The Screening Criteria for cis-1,2-Dichloroethene were used as surrogates for 1,2-Dichloroethene (total).																		
The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.																		
The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.																		
The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.																		
c - The Screening Criterion is based on cancer risk.																		
nc - The Screening Criterion is based on noncancer effects.																		
Chem Group - Chemical Group																		
Meas Basis - Measured Basis; T = Total, D = Dissolved																		
Carc Class - EPA Weight-of-Evidence Cancer Classification																		

Table 26a: On-Facility Cedarville Aquifer Monitoring Well Screening Results - AOI 5A
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)		Ratio of Max Detect to DW Criteria E-5	Occupational GW Volatilization to Indoor Air Criteria (mg/L)	Ratio of Max Detect to OCC GW Vol to Indoor Air Criteria	Industrial GW Volatilization to Indoor Air Criteria (TR=E-5 or HQ=1) (mg/L)		Ratio of Max Detect to Industrial GW Vol to Indoor Air Criteria	Res Nonpotable Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res Nonpotable Contact Criteria
5A	VOC	Acetone	67-64-1	T	ID	253	24	6.80E-04	1.30E+00	3.70E+00	NC	3.5E-01	4.98E+07	2.6E-08	9.55E+04	NC	1.4E-05	7.94E+03	NC	1.6E-04
5A	VOC	Benzene	71-43-2	T	A	258	9	2.20E-04	7.35E-03	5.00E-03	C	**1.5E+00**	3.65E+03	2.0E-06	5.99E+00	C	1.2E-03	9.55E-01	C	7.7E-03
5A	VOC	Bromodichloromethane	75-27-4	T	B2	257				8.00E-02	C				4.91E+00	C		1.51E+00	C	
5A	VOC	Bromoform	75-25-2	T	B2	257				8.00E-02	C		2.61E+04		1.94E+02	C		1.27E+01	C	
5A	VOC	Bromomethane	74-83-9	T	D	257	3	2.50E-04	1.20E-02	5.10E-02	NC	2.4E-01	3.81E+03	3.2E-06	7.16E+00	NC	1.7E-03	1.75E+01	NC	6.9E-04
5A	VOC	2-Butanone	78-93-3	T	ID	257	10	5.10E-04	2.60E-01	2.20E+01	NC	1.2E-02	9.47E+06	2.7E-08	1.17E+05	NC	2.2E-06	5.52E+03	NC	4.7E-05
5A	VOC	Carbon Disulfide	75-15-0	T		257	1	2.60E-03	2.60E-03	3.70E+00	NC	7.0E-04	2.43E+04	1.1E-07	7.97E+02	NC	3.3E-06	1.17E+03	NC	2.2E-06
5A	VOC	Carbon Tetrachloride	56-23-5	T	B2	257				5.00E-03	C		5.67E+04		2.46E+00	C		3.13E-01	C	
5A	VOC	Chlorobenzene	108-90-7	T	D	257				1.00E-01	NC		5.03E+05		1.26E+02	NC		2.21E+02	NC	
5A	VOC	Chloroethane	75-00-3	T		257				1.50E+01	NC		2.00E+06		1.12E+04	NC		3.76E+01	C	
5A	VOC	Chloroform	67-66-3	T	B2	257	1	1.30E-04	1.30E-04	8.00E-02	NC	1.6E-03	6.01E+04	2.2E-09	2.19E+00	C	5.9E-05	5.53E+01	C	2.4E-06
5A	VOC	Chloromethane	74-87-3	T	D	257	3	1.50E-04	5.55E-04	5.20E-02	C	1.1E-02	1.39E+05	4.0E-09	1.77E+02	NC	3.1E-06	4.51E+03	NC	1.2E-07
5A	VOC	Cumene	98-82-8	T	D	122				3.70E+00	NC		1.68E+05		4.01E+02	NC		8.31E+02	NC	
5A	VOC	Cyclohexane	110-82-7	T	ID	122				2.10E+02	NC		7.00E+05		5.84E+03	NC		3.21E+05	NC	
5A	VOC	1,2-Dibromo-3-chloropropane	96-12-8	T	B2	122				2.00E-04	C				2.28E+00	NC		4.65E-02	C	
5A	VOC	Dibromochloromethane	124-48-1	T	C	257				8.00E-02	C				6.15E+00	C		1.21E+00	C	
5A	VOC	1,2-Dibromoethane	106-93-4	T	B2	122				5.00E-05	C				5.16E-01	C		1.73E-03	C	
5A	VOC	1,2-Dichlorobenzene	95-50-1	T	D	130				6.00E-01	NC		2.90E+05		5.63E+02	NC		8.34E+02	NC	
5A	VOC	1,3-Dichlorobenzene	541-73-1	T	D	130				3.30E-02	NC				3.36E+02	NC		3.25E+02	NC	
5A	VOC	1,4-Dichlorobenzene	106-46-7	T	C	130				7.50E-02	C		7.97E+05		1.15E+01	C		6.08E-01	C	
5A	VOC	Dichlorodifluoromethane	75-71-8	T		122				7.30E+00	NC		3.46E+06		2.04E+02	NC		1.72E+03	NC	
5A	VOC	1,1-Dichloroethane	75-34-3	T	C	257				3.70E+00	NC		4.46E+05		8.14E+02	NC		1.19E+03	NC	
5A	VOC	1,2-Dichloroethane	107-06-2	T	B2	257				5.00E-03	C		8.35E+04		3.24E+00	C		1.30E+00	C	
5A	VOC	1,1-Dichloroethene	75-35-4	T	C	257				7.00E-03	NC		1.56E+04		2.30E+02	NC		5.93E+02	NC	
5A	VOC	1,2-Dichloroethene (total)	540-59-0	T		135	45	6.05E-04	2.60E-01	3.70E-01	NC	7.0E-01	7.11E+05	3.7E-07	4.14E+01	NC	6.3E-03	1.12E+02	NC	2.3E-03
5A	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	257	101	2.60E-04	2.50E-01	7.00E-02	NC	**3.6E+00**	9.22E+05	2.7E-07	5.94E+01	NC	4.2E-03	1.22E+02	NC	2.1E-03
5A	VOC	trans-1,2-Dichloroethene	156-60-5	T		257	3	2.80E-04	5.80E-03	1.00E-01	NC	5.8E-02	7.13E+05	8.1E-09	9.19E+01	NC	6.3E-05	2.48E+02	NC	2.3E-05
5A	VOC	1,2-Dichloropropane	78-87-5	T	B2	257	40	1.90E-04	8.10E-01	5.00E-03	C	**1.6E+02**	5.40E+05	1.5E-06	9.01E+00	NC	9.0E-02	1.15E+00	C	7.1E-01
5A	VOC	1,3-Dichloropropene (total)	542-75-6	T	B2	257				6.70E-03	C		4.18E+03		9.41E+00	C		7.80E-01	C	
5A	VOC	Ethyl Benzene	100-41-4	T	D	258				7.00E-01	NC		5.59E+05		1.88E+03	NC		9.81E+02	NC	
5A	VOC	n-Hexane	110-54-3	T		135				2.20E+00	NC							2.76E+02	NC	
5A	VOC	2-Hexanone	591-78-6	T		257							1.69E+05		3.01E+00	NC		6.95E+03	NC	
5A	VOC	Methyl Acetate	79-20-9	T		122				3.70E+01	NC		2.06E+08		1.72E+06	NC		4.24E+03	NC	
5A	VOC	Methyl tert-butyl ether	1634-04-4	T		122				2.00E-01	C		5.04E+05		1.14E+03	C		4.18E+01	C	
5A	VOC	4-Methyl-2-pentanone	108-10-1	T	ID	257				2.90E+00	NC		3.43E+06		3.66E+04	NC		1.48E+05	NC	
5A	VOC	Methylcyclohexane	108-87-2	T		122				3.10E+01	NC		1.30E+06		2.84E+03	NC		1.58E+05	NC	
5A	VOC	Methylene Chloride	75-09-2	T	B2	257	26	5.50E-04	2.40E-01	5.00E-03	C	**4.8E+01**	1.15E+05	2.1E-06	1.16E+02	C	2.1E-03	1.91E+01	C	1.3E-02
5A	VOC	Styrene	100-42-5	T		257				1.00E-01	NC		7.14E+05		2.45E+03	NC		1.53E+03	NC	
5A	VOC	1,1,2,2-Tetrachloroethane	79-34-5	T	C	257				3.40E-03	C		1.55E+05		3.13E+00	C		3.13E-01	C	
5A	VOC	Tetrachloroethene	127-18-4	T	C-B2	257	149	3.60E-04	4.40E+01	5.00E-03	C	**8.8E+03**	7.14E+05	6.2E-05	1.41E+01	C	**3.1E+00**	9.01E+01	C	**4.9E+01**
5A	VOC	Toluene	108-88-3	T	D	258	26	3.40E-04	4.90E-02	1.00E+00	NC	4.9E-02	9.12E+05	5.4E-08	7.07E+02	NC	6.9E-05	1.58E+03	NC	3.1E-05
5A	VOC	1,2,4-Trichlorobenzene	120-82-1	T	D	130	5	1.70E-04	7.45E-03	7.00E-02	NC	1.1E-01			7.51E+02	NC	9.9E-06	1.14E+02	NC	6.5E-05
5A	VOC	1,1,1-Trichloroethane	71-55-6	T	D	257				2.00E-01	NC		1.89E+06		3.19E+03	NC		2.41E+03	NC	
5A	VOC	1,1,2-Trichloroethane	79-00-5	T	C	257				5.00E-03	C		1.08E+05		6.14E+00	C		1.38E+00	C	
5A	VOC	Trichloroethene	79-01-6	T	C-B2	257	130	4.50E-04	2.20E+00	5.00E-03	C	**4.4E+02**	5.73E+05	3.8E-06	2.57E+01	C	8.6E-02	3.33E+00	C	6.6E-01
5A	VOC	Trichlorofluoromethane	75-69-4	T		122				1.10E+01	NC		3.88E+06		7.09E+02	NC		2.41E+03	NC	
5A	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	T		151	40	3.80E-04	3.70E+00	1.10E+03	NC	3.4E-03	5.00E+06	7.4E-07	2.88E+04	NC	1.3E-04	4.52E+01	NC	8.2E-02
5A	VOC	Vinyl Chloride	75-01-4	T	A	257	9	2.45E-04	3.70E-02	2.00E-03	C	**1.9E+01**	1.70E+03	2.2E-05	3.10E+00	C	1.2E-02	7.34E-02	C	5.0E-01
5A	VOC	Xylenes (total)	1330-20-7	T	ID	258				1.00E+01	NC		5.27E+05		1.77E+02	NC		1.14E+03	NC	
5A	SVOC	Acenaphthene	83-32-9	T		82				2.20E+00	NC				2.77E+03	NC		5.25E+02	NC	
5A	SVOC	Acenaphthylene	208-96-8	T	D	82	6	2.30E-03	1.65E-01	1.10E+00	NC	1.5E-01			1.77E+03	NC	9.3E-05	2.70E+02	NC	6.1E-04
5A	SVOC	Acetophenone	98-86-2	T	D	22							3.80E+06		3.95E+04	NC		6.65E+02	NC	

Table 26a: On-Facility Cedarville Aquifer Monitoring Well Screening Results - AOI 5A
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)		Ratio of Max Detect to DW Criteria E-5	Occupational GW Volatilization to Indoor Air Criteria (mg/L)	Ratio of Max Detect to OCC GW Vol to Indoor Air Criteria	Industrial GW Volatilization to Indoor Air Criteria (TR=E-5 or HQ=1) (mg/L)		Ratio of Max Detect to Industrial GW Vol to Indoor Air Criteria	Res Nonpotable Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res Nonpotable Contact Criteria
5A	SVOC	Anthracene	120-12-7	T	D	82				1.10E+01	NC							3.42E+02	NC	
5A	SVOC	Atrazine	1912-24-9	T	C	22				3.00E-03	C		5.28E+08		6.80E+04	C		1.16E-01	C	
5A	SVOC	Benzaldehyde	100-52-7	T		22				3.70E+00	NC				1.90E+04	NC		7.92E+02	NC	
5A	SVOC	Benzo(a)anthracene	56-55-3	T	B2	82				9.20E-04	C				5.15E+01	C		5.30E-04	C	
5A	SVOC	Benzo(a)pyrene	50-32-8	T	B2	82				2.00E-04	C				3.63E+01	C		3.01E-05	C	
5A	SVOC	Benzo(b)fluoranthene	205-99-2	T	B2	82				9.20E-04	C				3.14E+00	C		4.84E-04	C	
5A	SVOC	Benzo(g,h,i)perylene	191-24-2	T	D	82				1.10E+00	NC				1.08E+06	NC		7.63E+01	NC	
5A	SVOC	Benzo(k)fluoranthene	207-08-9	T	B2	82				9.20E-03	C				2.65E+03	C		2.56E-03	C	
5A	SVOC	Biphenyl	92-52-4	T	D	22				1.80E+00	NC							4.83E+00	NC	
5A	SVOC	bis(2-Chloroethoxy)methane	111-91-1	T	D	30														
5A	SVOC	bis(2-Chloroethyl) ether	111-44-4	T	B2	30				6.10E-04	C		1.44E+06		6.10E+00	C		9.71E-02	C	
5A	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	T	B2	30	6	3.00E-03	6.80E-02	6.00E-03	C	**1.1E+01**	4.28E+07	1.6E-09	8.74E+04	C	7.8E-07	7.48E-03	C	**9.1E+00**
5A	SVOC	4-Bromophenyl-phenyl ether	101-55-3	T	D	30														
5A	SVOC	Butylbenzylphthalate	85-68-7	T	C	30				7.30E+00	NC				1.06E+06	NC		3.14E+02	NC	
5A	SVOC	Caprolactam	105-60-2	T		22				1.80E+01	NC		1.34E+08		6.87E+07	NC		2.25E+03	NC	
5A	SVOC	Carbazole	86-74-8	T	B2	30				3.40E-02	C				3.20E+05	C		2.64E-01	C	
5A	SVOC	4-Chloro-3-methylphenol	59-50-7	T		30														
5A	SVOC	4-Chloroaniline	106-47-8	T		30				1.50E-01	NC				5.03E+04	NC		1.87E+01	NC	
5A	SVOC	2-Chloronaphthalene	91-58-7	T		30				2.90E+00	NC				2.05E+03	NC		6.75E+02	NC	
5A	SVOC	2-Chlorophenol	95-57-8	T		30				1.80E-01	NC				1.07E+02	NC		5.52E+01	NC	
5A	SVOC	4-Chlorophenyl-phenyl ether	7005-72-3	T		30														
5A	SVOC	Chrysene	218-01-9	T	B2	82				9.20E-02	C				3.34E+02	C		8.92E-02	C	
5A	SVOC	Dibenz(a,h)anthracene	53-70-3	T	B2	82				9.20E-05	C				9.64E+02	C		2.66E-05	C	
5A	SVOC	Dibenzofuran	132-64-9	T	D	30				1.50E-01	NC				9.86E+02	NC		1.19E+01	NC	
5A	SVOC	3,3'-Dichlorobenzidine	91-94-1	T	B2	30				1.50E-03	C				4.99E+04	C		2.20E-02	C	
5A	SVOC	2,4-Dichlorophenol	120-83-2	T		30				1.10E-01	NC				4.81E+03	NC		1.53E+01	NC	
5A	SVOC	Diethylphthalate	84-66-2	T	D	30	1	1.00E-03	1.00E-03	2.90E+01	NC	3.4E-05	1.13E+07	8.8E-11	9.26E+06	NC	1.1E-10	1.41E+03	NC	7.1E-07
5A	SVOC	2,4-Dimethylphenol	105-67-9	T		30				7.30E-01	NC				4.26E+04	NC		1.01E+02	NC	
5A	SVOC	Dimethylphthalate	131-11-3	T	D	30				3.70E+02	NC		3.65E+07							
5A	SVOC	Di-n-butylphthalate	84-74-2	T	D	30	2	1.50E-03	1.50E-03	3.70E+00	NC	4.1E-04	3.20E+09	4.7E-13				3.29E+02	NC	4.6E-06
5A	SVOC	4,6-Dinitro-2-methylphenol	534-52-1	T		30							3.67E+05		9.37E+02	NC		4.67E-01	NC	
5A	SVOC	2,4-Dinitrophenol	51-28-5	T		30				7.30E-02	NC							9.35E+00	NC	
5A	SVOC	2,4-Dinitrotoluene	121-14-2	T	B2	30				7.30E-02	NC							6.18E-02	C	
5A	SVOC	2,6-Dinitrotoluene	606-20-2	T	B2	30				3.70E-02	NC				2.71E+02	C		7.10E-02	C	
5A	SVOC	Di-n-octylphthalate	117-84-0	T		30				1.50E+00	NC							7.45E+01	NC	
5A	SVOC	Fluoranthene	206-44-0	T	D	82				1.50E+00	NC				1.49E+04	NC		2.04E+02	NC	
5A	SVOC	Fluorene	86-73-7	T	D	82				1.50E+00	NC				3.98E+03	NC		3.23E+02	NC	
5A	SVOC	Hexachlorobenzene	118-74-1	T	B2	30				1.00E-03	C		5.57E+00		2.47E-01	C		5.70E-04	C	
5A	SVOC	Hexachlorobutadiene	87-68-3	T	C	30				8.60E-03	C		3.44E+02		2.99E+00	C		5.20E-02	C	
5A	SVOC	Hexachlorocyclopentadiene	77-47-4	T	E	30				5.00E-02	NC		1.54E+02		4.04E-01	NC		8.86E+00	NC	
5A	SVOC	Hexachloroethane	67-72-1	T	C	30				3.70E-02	NC		4.61E+04		4.71E+01	C		7.47E-01	C	
5A	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	T	B2	82				9.20E-04	C				1.54E+02	C		2.81E-04	C	
5A	SVOC	Isophorone	78-59-1	T	C	30				7.10E-01	C		1.82E+07					6.27E+01	C	
5A	SVOC	1-Methylnaphthalene	90-12-0	T		42														
5A	SVOC	2-Methylnaphthalene	91-57-6	T	ID	72				7.30E-01	NC				1.43E+01	NC		3.49E+01	NC	
5A	SVOC	Methylphenol (total)	1319-77-3	T		30				1.80E-01	NC		1.96E+07		2.28E+05	NC		2.40E+02	NC	
5A	SVOC	Naphthalene	91-20-3	T	C	82				7.30E-01	NC		1.93E+05		1.69E+01	NC		8.99E+01	NC	
5A	SVOC	2-Nitroaniline	88-74-4	T		30				1.00E-03	NC				3.63E+00	NC		9.78E+00	NC	
5A	SVOC	3-Nitroaniline	99-09-2	T	C	30												7.52E-01	NC	
5A	SVOC	4-Nitroaniline	100-01-6	T	C	30							1.77E+09		1.72E+06	NC		2.88E+00	C	
5A	SVOC	Nitrobenzene	98-95-3	T	D	30				1.80E-02	NC		1.83E+05		1.07E+02	NC		4.05E+00	NC	
5A	SVOC	2-Nitrophenol	88-75-5	T		30														

Table 26a: On-Facility Cedarville Aquifer Monitoring Well Screening Results - AOI 5A
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)		Ratio of Max Detect to DW Criteria E-5	Occupational GW Volatilization to Indoor Air Criteria (mg/L)	Ratio of Max Detect to OCC GW Vol to Indoor Air Criteria	Industrial GW Volatilization to Indoor Air Criteria (TR=E-5 or HQ=1) (mg/L)		Ratio of Max Detect to Industrial GW Vol to Indoor Air Criteria	Res Nonpotable Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res Nonpotable Contact Criteria
5A	SVOC	4-Nitrophenol	100-02-7	T		30									5.66E+07	NC		3.68E+01	NC	
5A	SVOC	N-Nitrosodiphenylamine	86-30-6	T	B2	30				1.40E-01	C							2.78E+00	C	
5A	SVOC	N-Nitroso-di-n-propylamine	621-64-7	T	B2	30				9.60E-05	C				7.75E+00	C		8.80E-03	C	
5A	SVOC	2,2'-oxybis(1-Chloropropane)	108-60-1	T	C	30				9.60E-03	C							3.03E-01	C	
5A	SVOC	Pentachlorophenol	87-86-5	T	B2	30				1.00E-03	C		1.44E+07		3.43E+04	C		9.88E-03	C	
5A	SVOC	Phenanthrene	85-01-8	T	D	82				1.10E+00	NC				7.57E+03	NC		1.98E+02	NC	
5A	SVOC	Phenol	108-95-2	T	ID	30				2.20E+01	NC		3.54E+07					1.26E+03	NC	
5A	SVOC	Pyrene	129-00-0	T	D	82	1	1.70E-04	1.70E-04	1.10E+00	NC	1.5E-04			1.64E+04	NC	1.0E-08	1.55E+02	NC	1.1E-06
5A	SVOC	2,4,5-Trichlorophenol	95-95-4	T		30				3.70E+00	NC							4.20E+02	NC	
5A	SVOC	2,4,6-Trichlorophenol	88-06-2	T	B2	30				3.70E-03	NC				1.85E+03	C		5.76E-01	NC	
5A	P/PCB	PCBs (total)	1336-36-3	T	B2	8				5.00E-04	C		7.93E+02		1.13E-01	C		4.21E-04	C	
5A	P/PCB	Aldrin	309-00-2	T	B2	8				4.00E-05	C		3.88E+03		1.29E-01	C		2.68E-05	C	
5A	P/PCB	alpha-BHC	319-84-6	T	B2	8				1.10E-04	C				3.47E+00	C		1.59E-03	C	
5A	P/PCB	beta-BHC	319-85-7	T	C	8				3.70E-04	C				1.39E+02	C		4.61E-03	C	
5A	P/PCB	delta-BHC	319-86-8	T	D	8														
5A	P/PCB	gamma-BHC	58-89-9	T	B2-C	8				2.00E-04	C		5.92E+04		1.30E+01	C		9.75E-03	C	
5A	P/PCB	Chlordane (total)	57-74-9	T	B2	8				2.00E-03			2.29E+04		1.88E+01	C		2.61E-03	C	
5A	P/PCB	4,4'-DDD	72-54-8	T	B2	8				2.80E-03	C				2.12E+02	C		1.86E-03	C	
5A	P/PCB	4,4'-DDE	72-55-9	T	B2	8				2.00E-03	C				3.48E+01	C		5.93E-04	C	
5A	P/PCB	4,4'-DDT	50-29-3	T	B2	8				2.00E-03	C		2.06E+05		8.70E+01	C		1.03E-03	C	
5A	P/PCB	Dieldrin	60-57-1	T	B2	8				4.20E-05	C		3.08E+04		1.10E+00	C		1.42E-04	C	
5A	P/PCB	Endosulfan	115-29-7	T		8				2.20E-01	NC		1.71E+04		5.24E+03	NC		3.21E+01	NC	
5A	P/PCB	Endosulfan sulfate	1031-07-8	T		8				2.20E-01	NC				1.14E+02	NC		5.54E+01	NC	
5A	P/PCB	Endrin	72-20-8	T	D	8				2.00E-03	NC		2.34E+04		3.59E+02	NC		1.55E+00	NC	
5A	P/PCB	Endrin aldehyde	7421-93-4	T		8				1.10E-02	NC				4.67E+03	NC		1.39E+00	NC	
5A	P/PCB	Endrin ketone	53494-70-5	T		8				1.10E-02	NC									
5A	P/PCB	Heptachlor	76-44-8	T	B2	8				4.00E-04	C		2.47E+03		1.55E-01	C		2.23E-04	C	
5A	P/PCB	Heptachlor epoxide	1024-57-3	T	B2	8				2.00E-04	C		9.20E+03		2.89E+00	C		3.44E-04	C	
5A	P/PCB	Methoxychlor	72-43-5	T	D	8				4.00E-02	NC		1.05E+06					2.97E+01	NC	
5A	P/PCB	Orthophosphate	14265-44-2	T		6														
5A	P/PCB	Toxaphene	8001-35-2	T	B2	8				3.00E-03	C		1.52E+05		3.87E+01	C		1.84E-03	C	
5A	INORG	Arsenic	7440-38-2	T	A	59	2	1.10E-02	1.40E-02	5.00E-02	C	2.8E-01						5.77E-02	C	2.4E-01
5A	INORG	Barium	7440-39-3	T	D	59	7	2.00E-01	2.80E-01	2.00E+00	NC	1.4E-01						2.60E+02	NC	1.1E-03
5A	INORG	Cadmium	7440-43-9	T	B1	59				5.00E-03	NC							3.71E+00	NC	
5A	INORG	Chromium (total)	7440-47-3	D		1				1.00E-01	NC							1.11E+01	NC	
5A	INORG	Chromium (total)	7440-47-3	T		84	13	1.80E-03	1.50E-01	1.00E-01	NC	**1.5E+00**						1.11E+01	NC	1.3E-02
5A	INORG	Chromium III	16065-83-1	D	D	33	12	3.20E-02	5.00E-01	5.50E+01	NC	9.1E-03						5.56E+03	NC	9.0E-05
5A	INORG	Chromium III	16065-83-1	T	D	38	25	1.00E-03	5.60E-01	5.50E+01	NC	1.0E-02						5.56E+03	NC	1.0E-04
5A	INORG	Chromium VI	18540-29-9	D	A	37	2	3.00E-02	5.00E-02	1.00E-01	NC	5.0E-01						9.32E+00	NC	5.4E-03
5A	INORG	Chromium VI	18540-29-9	T	A	38	11	2.00E-02	2.00E-02	1.00E-01	NC	2.0E-01						9.32E+00	NC	2.1E-03
5A	INORG	Copper	7440-50-8	T	D	17	9	1.80E-03	1.18E-02	1.30E+00	NC	9.0E-03						1.48E+02	NC	7.9E-05
5A	INORG	Iron	7439-89-6	D	D	52	3	1.10E-01	7.40E-01	1.10E+01	NC	6.7E-02						1.11E+03	NC	6.6E-04
5A	INORG	Iron	7439-89-6	T	D	46	42	1.20E-01	2.09E+01	1.10E+01	NC	**1.9E+00**						1.11E+03	NC	1.9E-02
5A	INORG	Lead	7439-92-1	T	B2	59				1.50E-02										
5A	INORG	Manganese	7439-96-5	D	D	52	42	1.80E-02	1.81E+03	8.80E-01	NC	**2.1E+03**						5.19E+02	NC	**3.5E+00**
5A	INORG	Manganese	7439-96-5	T	D	46	44	3.00E-02	2.24E+03	8.80E-01	NC	**2.5E+03**						5.19E+02	NC	**4.3E+00**
5A	INORG	Mercury	7439-97-6	T	D	59				2.00E-03			4.53E+01		7.94E-01	NC		2.67E+00	NC	
5A	INORG	Nitrate	14797-55-8	T		18	17	1.40E-01	1.82E+01	1.00E+01		**1.8E+00**						5.94E+03	NC	3.1E-03
5A	INORG	Nitrite	14797-65-0	T		6				1.00E+00								3.71E+02	NC	
5A	INORG	Potassium	7440-09-7	D		34	34	6.10E+00	5.66E+03											
5A	INORG	Potassium	7440-09-7	T		46	45	5.80E+00	5.57E+03											
5A	INORG	Selenium	7782-49-2	T	D	59	5	5.60E-03	1.50E-02	5.00E-02	NC	3.0E-01						1.85E+01	NC	8.1E-04

Table 26a: On-Facility Cedarville Aquifer Monitoring Well Screening Results - AOI 5A
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)		Ratio of Max Detect to DW Criteria E-5	Occupational GW Volatilization to Indoor Air Criteria (mg/L)	Ratio of Max Detect to OCC GW Vol to Indoor Air Criteria	Industrial GW Volatilization to Indoor Air Criteria (TR=E-5 or HQ=1) (mg/L)		Ratio of Max Detect to Industrial GW Vol to Indoor Air Criteria	Res Nonpotable Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res Nonpotable Contact Criteria
5A	INORG	Silver	7440-22-4	T	D	59				1.80E-01	NC							2.01E+01	NC	
5A	INORG	Zinc	7440-66-6	T	D	17				1.10E+01	NC							1.21E+03	NC	
5A	HERB	2,4-D	94-75-7	T		8				7.00E-02	NC		6.45E+08							
5A	HERB	2,4,5-T	93-76-5	T		8				3.70E-01	NC		7.37E+08							
5A	HERB	2,4,5-TP	93-72-1	T		8				5.00E-02	NC									
Notes:																				
The Screening Criteria for Pyrene were used as surrogates for Phenanthrene and Benzo(g,h,i)perylene.																				
The Screening Criteria for Phenol were used as surrogates for Phenols (total).																				
The Screening Criteria for Naphthalene were used as surrogates for 2-Methylnaphthalene.																				
The Screening Criteria for cis-1,2-Dichloroethene were used as surrogates for 1,2-Dichloroethene (total).																				
The Screening Criteria for Chromium VI was used as a surrogate for Chromium (total).																				
The concentrations for the Methylphenol (2, 3, & 4) were summed before comparing to the Screening Criteria for 4-Methylphenol.																				
The concentrations for all PCB isomers were summed before comparing to Polychlorinated biphenyls (PCBs) for cancer effects																				
and Aroclor 1254 for noncancer effects.																				
The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.																				
The concentrations for the Chlordane isomers (alpha and gamma) were summed before comparing to the Screening Criteria.																				
The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.																				
The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.																				
c - The Screening Criterion is based on cancer risk.																				
nc - The Screening Criterion is based on noncancer effects.																				
Chem Group - Chemical Group																				
Meas Basis - Measured Basis; T = Total, D = Dissolved																				
Carc Class - EPA Weight-of-Evidence Cancer Classification																				

Table 26b: On-Facility Cedarville Aquifer Direct Push Screening Results - AOI 5A
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)		Ratio of Max Detect to DW Criteria E-5	Occupational GW Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to OCC GW Vol to Indoor Air Criteria	Industrial GW Volatilization to Indoor Air (TR=E-5 or HQ=1) (mg/L)		Ratio of Max Detect to Industrial GW Vol to Indoor Air Criteria	Res Nonpotable Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res Nonpotable Contact Crtieria
5A	VOC	Acetone	67-64-1	T	ID	43	4	5.80E-03	3.60E-01	3.70E+00	NC	9.7E-02	4.98E+07	7.2E-09	9.55E+04	NC	3.8E-06	7.94E+03	NC	4.5E-05
5A	VOC	Benzene	71-43-2	T	A	43	9	2.30E-04	1.40E-03	5.00E-03	C	2.8E-01	3.65E+03	3.8E-07	5.99E+00	C	2.3E-04	9.55E-01	C	1.5E-03
5A	VOC	Bromodichloromethane	75-27-4	T	B2	43				8.00E-02	C				4.91E+00	C		1.51E+00	C	
5A	VOC	Bromoform	75-25-2	T	B2	43				8.00E-02	C		2.61E+04		1.94E+02	C		1.27E+01	C	
5A	VOC	Bromomethane	74-83-9	T	D	43				5.10E-02	NC		3.81E+03		7.16E+00	NC		1.75E+01	NC	
5A	VOC	2-Butanone	78-93-3	T	ID	43	1	9.90E-04	9.90E-04	2.20E+01	NC	4.5E-05	9.47E+06	1.0E-10	1.17E+05	NC	8.4E-09	5.52E+03	NC	1.8E-07
5A	VOC	Carbon Disulfide	75-15-0	T		43	2	1.90E-04	4.20E-04	3.70E+00	NC	1.1E-04	2.43E+04	1.7E-08	7.97E+02	NC	5.3E-07	1.17E+03	NC	3.6E-07
5A	VOC	Carbon Tetrachloride	56-23-5	T	B2	43				5.00E-03	C		5.67E+04		2.46E+00	C		3.13E-01	C	
5A	VOC	Chlorobenzene	108-90-7	T	D	43				1.00E-01	NC		5.03E+05		1.26E+02	NC		2.21E+02	NC	
5A	VOC	Chloroethane	75-00-3	T		43				1.50E+01	NC		2.00E+06		1.12E+04	NC		3.76E+01	C	
5A	VOC	Chloroform	67-66-3	T	B2	43				8.00E-02	NC		6.01E+04		2.19E+00	C		5.53E+01	C	
5A	VOC	Chloromethane	74-87-3	T	D	43				5.20E-02	C		1.39E+05		1.77E+02	NC		4.51E+03	NC	
5A	VOC	Cumene	98-82-8	T	D	4	1	4.10E-04	4.10E-04	3.70E+00	NC	1.1E-04	1.68E+05	2.4E-09	4.01E+02	NC	1.0E-06	8.31E+02	NC	4.9E-07
5A	VOC	Cyclohexane	110-82-7	T	ID	4	4	4.60E-04	1.30E-03	2.10E+02	NC	6.2E-06	7.00E+05	1.9E-09	5.84E+03	NC	2.2E-07	3.21E+05	NC	4.1E-09
5A	VOC	1,2-Dibromo-3-chloropropane	96-12-8	T	B2	4				2.00E-04	C				2.28E+00	NC		4.65E-02	C	
5A	VOC	Dibromochloromethane	124-48-1	T	C	43				8.00E-02	C				6.15E+00	C		1.21E+00	C	
5A	VOC	1,2-Dibromoethane	106-93-4	T	B2	4				5.00E-05	C				5.16E-01	C		1.73E-03	C	
5A	VOC	1,2-Dichlorobenzene	95-50-1	T	D	4				6.00E-01	NC		2.90E+05		5.63E+02	NC		8.34E+02	NC	
5A	VOC	1,3-Dichlorobenzene	541-73-1	T	D	4				3.30E-02	NC				3.36E+02	NC		3.25E+02	NC	
5A	VOC	1,4-Dichlorobenzene	106-46-7	T	C	4				7.50E-02	C		7.97E+05		1.15E+01	C		6.08E-01	C	
5A	VOC	Dichlorodifluoromethane	75-71-8	T		4				7.30E+00	NC		3.46E+06		2.04E+02	NC		1.72E+03	NC	
5A	VOC	1,1-Dichloroethane	75-34-3	T	C	43	5	2.90E-04	1.90E+00	3.70E+00	NC	5.1E-01	4.46E+05	4.3E-06	8.14E+02	NC	2.3E-03	1.19E+03	NC	1.6E-03
5A	VOC	1,2-Dichloroethane	107-06-2	T	B2	19				5.00E-03	C		8.35E+04		3.24E+00	C		1.30E+00	C	
5A	VOC	1,1-Dichloroethene	75-35-4	T	C	43	1	3.40E-04	3.40E-04	7.00E-03	NC	4.9E-02	1.56E+04	2.2E-08	2.30E+02	NC	1.5E-06	5.93E+02	NC	5.7E-07
5A	VOC	1,2-Dichloroethene (total)	540-59-0	T		39	27	5.80E-04	1.70E+01	3.70E-01	NC	**4.6E+01**	7.11E+05	2.4E-05	4.14E+01	NC	4.1E-01	1.12E+02	NC	1.5E-01
5A	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	43	31	2.70E-04	1.70E+01	7.00E-02	NC	**2.4E+02**	9.22E+05	1.8E-05	5.94E+01	NC	2.9E-01	1.22E+02	NC	1.4E-01
5A	VOC	trans-1,2-Dichloroethene	156-60-5	T		43	9	1.00E-04	3.30E-03	1.00E-01	NC	3.3E-02	7.13E+05	4.6E-09	9.19E+01	NC	3.6E-05	2.48E+02	NC	1.3E-05
5A	VOC	1,2-Dichloropropane	78-87-5	T	B2	43	19	2.10E-04	2.10E-01	5.00E-03	C	**4.2E+01**	5.40E+05	3.9E-07	9.01E+00	NC	2.3E-02	1.15E+00	C	1.8E-01
5A	VOC	1,3-Dichloropropene (total)	542-75-6	T	B2	43				6.70E-03	C		4.18E+03		9.41E+00	C		7.80E-01	C	
5A	VOC	Ethyl Benzene	100-41-4	T	D	43	4	1.90E-04	9.20E-04	7.00E-01	NC	1.3E-03	5.59E+05	1.6E-09	1.88E+03	NC	4.9E-07	9.81E+02	NC	9.4E-07
5A	VOC	n-Hexane	110-54-3	T		39	1	3.10E-04	3.10E-04	2.20E+00	NC	1.4E-04						2.76E+02	NC	1.1E-06
5A	VOC	2-Hexanone	591-78-6	T		43							1.69E+05		3.01E+00	NC		6.95E+03	NC	
5A	VOC	Methyl Acetate	79-20-9	T		4				3.70E+01	NC		2.06E+08		1.72E+06	NC		4.24E+03	NC	
5A	VOC	Methyl tert-butyl ether	1634-04-4	T		4				2.00E-01	C		5.04E+05		1.14E+03	C		4.18E+01	C	
5A	VOC	4-Methyl-2-pentanone	108-10-1	T	ID	43				2.90E+00	NC		3.43E+06		3.66E+04	NC		1.48E+05	NC	
5A	VOC	Methylcyclohexane	108-87-2	T		4	4	4.40E-04	1.40E-03	3.10E+01	NC	4.5E-05	1.30E+06	1.1E-09	2.84E+03	NC	4.9E-07	1.58E+05	NC	8.8E-09
5A	VOC	Methylene Chloride	75-09-2	T	B2	43	20	7.50E-04	2.60E+00	5.00E-03	C	**5.2E+02**	1.15E+05	2.3E-05	1.16E+02	C	2.3E-02	1.91E+01	C	1.4E-01
5A	VOC	Styrene	100-42-5	T		43				1.00E-01	NC		7.14E+05		2.45E+03	NC		1.53E+03	NC	
5A	VOC	1,1,2,2-Tetrachloroethane	79-34-5	T	C	43				3.40E-03	C		1.55E+05		3.13E+00	C		3.13E-01	C	
5A	VOC	Tetrachloroethene	127-18-4	T	C-B2	43	26	5.20E-04	1.60E+02	5.00E-03	C	**3.2E+04**	7.14E+05	2.2E-04	1.41E+01	C	**1.1E+01**	9.01E-01	C	**1.8E+02**
5A	VOC	Toluene	108-88-3	T	D	43	11	2.40E-04	4.10E-03	1.00E+00	NC	4.1E-03	9.12E+05	4.5E-09	7.07E+02	NC	5.8E-06	1.58E+03	NC	2.6E-06
5A	VOC	1,2,4-Trichlorobenzene	120-82-1	T	D	4				7.00E-02	NC				7.51E+02	NC		1.14E+02	NC	
5A	VOC	1,1,1-Trichloroethane	71-55-6	T	D	43	1	1.00E+00	1.00E+00	2.00E-01	NC	**5.0E+00**	1.89E+06	5.3E-07	3.19E+03	NC	3.1E-04	2.41E+03	NC	4.2E-04
5A	VOC	1,1,2-Trichloroethane	79-00-5	T	C	43				5.00E-03	C		1.08E+05		6.14E+00	C		1.38E+00	C	
5A	VOC	Trichloroethene	79-01-6	T	C-B2	43	32	3.00E-04	4.70E+00	5.00E-03	C	**9.4E+02**	5.73E+05	8.2E-06	2.57E+01	C	1.8E-01	3.33E+00	C	**1.4E+00**
5A	VOC	Trichlorofluoromethane	75-69-4	T		4				1.10E+01	NC		3.88E+06		7.09E+02	NC		2.41E+03	NC	
5A	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	T		4	1	7.50E-03	7.50E-03	1.10E+03	NC	6.8E-06	5.00E+06	1.5E-09	2.88E+04	NC	2.6E-07	4.52E+01	NC	1.7E-04
5A	VOC	Vinyl Chloride	75-01-4	T	A	43	6	2.60E-04	7.60E-01	2.00E-03	C	**3.8E+02**	1.70E+03	4.5E-04	3.10E+00	C	2.5E-01	7.34E-02	C	**1.0E+01**
5A	VOC	Xylenes (total)	1330-20-7	T	ID	43	6	6.50E-04	5.50E-03	1.00E+01	NC	5.5E-04	5.27E+05	1.0E-08	1.77E+02	NC	3.1E-05	1.14E+03	NC	4.8E-06
5A	INORG	Iron	7439-89-6	T	D	3	1	1.70E-01	1.70E-01	1.10E+01	NC	1.5E-02						1.11E+03	NC	1.5E-04
5A	INORG	Magnesium	7439-95-4	T		3	3	3.99E+01	4.57E+01									3.60E+04	NC	1.3E-03
5A	INORG	Manganese	7439-96-5	T	D	3	1	3.30E-02	3.30E-02	8.80E-01	NC	3.8E-02						5.19E+02	NC	6.4E-05

Table 26b: On-Facility Cedarville Aquifer Direct Push Screening Results - AOI 5A
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)	Ratio of Max Detect to DW Criteria E-5	Occupational GW Volatilization to Indoor Air (mg/L)	Ratio of Max Detect to OCC GW Vol to Indoor Air Criteria	Industrial GW Volatilization to Indoor Air (TR=E-5 or HQ=1) (mg/L)	Ratio of Max Detect to Industrial GW Vol to Indoor Air Criteria	Res Nonpotable Contact Criteria (TR=E-5 & HQ=1) (mg/L)	Ratio of Max Detect to Res Nonpotable Contact Crtieria
Notes:																	
The Screening Criteria for cis-1,2-Dichloroethene were used as surrogates for 1,2-Dichloroethene (total).																	
The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.																	
The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.																	
The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.																	
c - The Screening Criterion is based on cancer risk.																	
nc - The Screening Criterion is based on noncancer effects.																	
Chem Group - Chemical Group																	
Meas Basis - Measured Basis; T = Total, D = Dissolved																	
Carc Class - EPA Weight-of-Evidence Cancer Classification																	

Table 27a.: Off-Facility Cedarville Aquifer Monitoring Well Screening Results - AOI 5B
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)		Ratio of Max Detect to DW Criteria	Residential GW Volaltilization to Indoor Air Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res GW Vol Indoor Air Criteria	Residential Nonpotable Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res Nonpotable Contact Criteria
5B	VOC	Acetone	67-64-1	T	ID	183	32	6.80E-04	5.50E-03	3.70E+00	NC	1.5E-03	4.83E+04	NC	1.1E-07	7.94E+03	NC	6.9E-07
5B	VOC	Benzene	71-43-2	T	A	189	3	3.40E-04	5.80E-04	5.00E-03	C	1.2E-01	2.13E+00	C	2.7E-04	9.55E-01	C	6.1E-04
5B	VOC	Bromodichloromethane	75-27-4	T	B2	189	9	3.15E-04	2.20E-03	8.00E-02	C	2.8E-02	1.65E+00	C	1.3E-03	1.51E+00	C	1.5E-03
5B	VOC	Bromoform	75-25-2	T	B2	189				8.00E-02	C		5.62E+01	C		1.27E+01	C	
5B	VOC	Bromomethane	74-83-9	T	D	189				5.10E-02	NC		3.04E+00	NC		1.75E+01	NC	
5B	VOC	2-Butanone	78-93-3	T	ID	189	2	5.00E-04	4.63E-03	2.20E+01	NC	2.1E-04	5.67E+04	NC	8.2E-08	5.52E+03	NC	8.4E-07
5B	VOC	Carbon Disulfide	75-15-0	T		189	4	2.40E-04	6.20E-04	3.70E+00	NC	1.7E-04	3.41E+02	NC	1.8E-06	1.17E+03	NC	5.3E-07
5B	VOC	Carbon Tetrachloride	56-23-5	T	B2	189				5.00E-03	C		8.73E-01	C		3.13E-01	C	
5B	VOC	Chlorobenzene	108-90-7	T	D	189				1.00E-01	NC		5.37E+01	NC		2.21E+02	NC	
5B	VOC	Chloroethane	75-00-3	T		189				1.50E+01	NC		4.90E+03	NC		3.76E+01	C	
5B	VOC	Chloroform	67-66-3	T	B2	189	14	2.10E-04	1.50E-03	8.00E-02	NC	1.9E-02	7.88E-01	C	1.9E-03	5.53E+01	C	2.7E-05
5B	VOC	Chloromethane	74-87-3	T	D	189	6	1.70E-04	1.30E-03	5.20E-02	C	2.5E-02	7.57E+01	NC	1.7E-05	4.51E+03	NC	2.9E-07
5B	VOC	Cumene	98-82-8	T	D	140				3.70E+00	NC		1.77E+02	NC		8.31E+02	NC	
5B	VOC	Cyclohexane	110-82-7	T	ID	140	6	1.70E-04	9.30E-04	2.10E+02	NC	4.4E-06	2.53E+03	NC	3.7E-07	3.21E+05	NC	2.9E-09
5B	VOC	1,2-Dibromo-3-chloropropane	96-12-8	T	B2	140				2.00E-04	C		1.05E+00	NC		4.65E-02	C	
5B	VOC	Dibromochloromethane	124-48-1	T	C	189	6	3.30E-04	1.30E-03	8.00E-02	C	1.6E-02	1.91E+00	C	6.8E-04	1.21E+00	C	1.1E-03
5B	VOC	1,2-Dibromoethane	106-93-4	T	B2	140				5.00E-05	C		1.90E-01	C		1.73E-03	C	
5B	VOC	1,2-Dichlorobenzene	95-50-1	T	D	140				6.00E-01	NC		2.41E+02	NC		8.34E+02	NC	
5B	VOC	1,3-Dichlorobenzene	541-73-1	T	D	140				3.30E-02	NC		1.43E+02	NC		3.25E+02	NC	
5B	VOC	1,4-Dichlorobenzene	106-46-7	T	C	140				7.50E-02	C		4.09E+00	C		6.08E-01	C	
5B	VOC	Dichlorodifluoromethane	75-71-8	T		140				7.30E+00	NC		8.91E+01	NC		1.72E+03	NC	
5B	VOC	1,1-Dichloroethane	75-34-3	T	C	189	23	3.30E-04	4.40E-03	3.70E+00	NC	1.2E-03	3.47E+02	NC	1.3E-05	1.19E+03	NC	3.7E-06
5B	VOC	1,2-Dichloroethane	107-06-2	T	B2	189				5.00E-03	C		1.21E+00	C		1.30E+00	C	
5B	VOC	1,1-Dichloroethene	75-35-4	T	C	189				7.00E-03	NC		9.82E+01	NC		5.93E+02	NC	
5B	VOC	1,2-Dichloroethene (total)	540-59-0	T		49	17	1.00E-03	9.20E-03	3.70E-01	NC	2.5E-02	1.76E+01	NC	5.2E-04	1.12E+02	NC	8.2E-05
5B	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	189	51	3.90E-04	1.00E-02	7.00E-02	NC	1.4E-01	2.54E+01	NC	3.9E-04	1.22E+02	NC	8.2E-05
5B	VOC	trans-1,2-Dichloroethene	156-60-5	T		189				1.00E-01	NC		3.90E+01	NC		2.48E+02	NC	
5B	VOC	1,2-Dichloropropane	78-87-5	T	B2	189	5	9.50E-04	1.60E-03	5.00E-03	C	3.2E-01	3.86E+00	NC	4.1E-04	1.15E+00	C	1.4E-03
5B	VOC	1,3-Dichloropropene (total)	542-75-6	T	B2	189				6.70E-03	C		3.32E+00	C		7.80E-01	C	
5B	VOC	Ethyl Benzene	100-41-4	T	D	189				7.00E-01	NC		7.97E+02	NC		9.81E+02	NC	
5B	VOC	n-Hexane	110-54-3	T		49				2.20E+00	NC					2.76E+02	NC	
5B	VOC	2-Hexanone	591-78-6	T		189							1.52E+00	NC		6.95E+03	NC	
5B	VOC	Methyl Acetate	79-20-9	T		140				3.70E+01	NC		8.61E+05	NC		4.24E+03	NC	
5B	VOC	Methyl tert-butyl ether	1634-04-4	T		140				2.00E-01	C		4.28E+02	C		4.18E+01	C	
5B	VOC	4-Methyl-2-pentanone	108-10-1	T	ID	189				2.90E+00	NC		1.67E+04	NC		1.48E+05	NC	
5B	VOC	Methylcyclohexane	108-87-2	T		140	5	7.30E-04	1.20E-03	3.10E+01	NC	3.9E-05	1.24E+03	NC	9.6E-07	1.58E+05	NC	7.6E-09
5B	VOC	Methylene Chloride	75-09-2	T	B2	189	5	6.00E-04	5.90E-03	5.00E-03	C	**1.2E+00**	4.22E+01	C	1.4E-04	1.91E+01	C	3.1E-04
5B	VOC	Styrene	100-42-5	T		189				1.00E-01	NC		1.04E+03	NC		1.53E+03	NC	
5B	VOC	1,1,2,2-Tetrachloroethane	79-34-5	T	C	189				3.40E-03	C		1.16E+00	C		3.13E-01	C	
5B	VOC	Tetrachloroethene	127-18-4	T	C-B2	189	79	1.80E-04	1.20E-01	5.00E-03	C	**2.4E+01**	4.98E+00	C	2.4E-02	9.01E-01	C	1.3E-01
5B	VOC	Toluene	108-88-3	T	D	189	11	2.00E-04	1.00E-03	1.00E+00	NC	1.0E-03	3.01E+02	NC	3.3E-06	1.58E+03	NC	6.3E-07
5B	VOC	1,2,4-Trichlorobenzene	120-82-1	T	D	140				7.00E-02	NC		3.03E+02	NC		1.14E+02	NC	
5B	VOC	1,1,1-Trichloroethane	71-55-6	T	D	189	16	1.90E-04	3.10E-03	2.00E-01	NC	1.6E-02	1.36E+03	NC	2.3E-06	2.41E+03	NC	1.3E-06
5B	VOC	1,1,2-Trichloroethane	79-00-5	T	C	189				5.00E-03	C		2.24E+00	C		1.38E+00	C	
5B	VOC	Trichloroethene	79-01-6	T	C-B2	189	66	2.50E-04	4.40E-02	5.00E-03	C	**8.8E+00**	9.09E+00	C	4.8E-03	3.33E+00	C	1.3E-02
5B	VOC	Trichlorofluoromethane	75-69-4	T		140				1.10E+01	NC		3.05E+02	NC		2.41E+03	NC	
5B	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	T		161	59	3.40E-04	2.80E-01	1.10E+03	NC	2.5E-04	1.26E+04	NC	2.2E-05	4.52E+01	NC	6.2E-03
5B	VOC	Vinyl Chloride	75-01-4	T	A	189				2.00E-03	C		1.10E+00	C		7.34E-02	C	
5B	VOC	Xylenes (total)	1330-20-7	T	ID	189				1.00E+01	NC		7.52E+01	NC		1.14E+03	NC	
5B	SVOC	Acenaphthene	83-32-9	T		17				2.20E+00	NC		1.16E+03	NC		5.25E+02	NC	
5B	SVOC	Acenaphthylene	208-96-8	T	D	17				1.10E+00	NC		7.50E+02	NC		2.70E+02	NC	
5B	SVOC	Acetophenone	98-86-2	T	D	7							1.90E+04	NC		6.65E+02	NC	

Table 27a.: Off-Facility Cedarville Aquifer Monitoring Well Screening Results - AOI 5B
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)		Ratio of Max Detect to DW Criteria	Residential GW Volaltilization to Indoor Air Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res GW Vol Indoor Air Criteria	Residential Nonpotable Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res Nonpotable Contact Criteria
5B	SVOC	Anthracene	120-12-7	T	D	17	1	1.00E-04	1.00E-04	1.10E+01	NC	9.1E-06				3.42E+02	NC	2.9E-07
5B	SVOC	Atrazine	1912-24-9	T	C	7				3.00E-03	C		3.14E+04	C		1.16E-01	C	
5B	SVOC	Benzaldehyde	100-52-7	T		7				3.70E+00	NC		8.93E+03	NC		7.92E+02	NC	
5B	SVOC	Benzo(a)anthracene	56-55-3	T	B2	17				9.20E-04	C		1.90E+01	C		5.30E-04	C	
5B	SVOC	Benzo(a)pyrene	50-32-8	T	B2	17				2.00E-04	C		1.29E+01	C		3.01E-05	C	
5B	SVOC	Benzo(b)fluoranthene	205-99-2	T	B2	17				9.20E-04	C		9.59E-01	C		4.84E-04	C	
5B	SVOC	Benzo(g,h,i)perylene	191-24-2	T	D	17				1.10E+00	NC		4.03E+05	NC		7.63E+01	NC	
5B	SVOC	Benzo(k)fluoranthene	207-08-9	T	B2	17				9.20E-03	C		7.76E+02	C		2.56E-03	C	
5B	SVOC	Biphenyl	92-52-4	T	D	7				1.80E+00	NC					4.83E+00	NC	
5B	SVOC	bis(2-Chloroethoxy)methane	111-91-1	T	D	7												
5B	SVOC	bis(2-Chloroethyl) ether	111-44-4	T	B2	7				6.10E-04	C		2.37E+00	C		9.71E-02	C	
5B	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	T	B2	7				6.00E-03	C		3.07E+04	C		7.48E-03	C	
5B	SVOC	4-Bromophenyl-phenyl ether	101-55-3	T	D	7												
5B	SVOC	Butylbenzylphthalate	85-68-7	T	C	7				7.30E+00	NC		3.34E+05	NC		3.14E+02	NC	
5B	SVOC	Caprolactam	105-60-2	T		7				1.80E+01	NC		3.62E+07	NC		2.25E+03	NC	
5B	SVOC	Carbazole	86-74-8	T	B2	7				3.40E-02	C		1.39E+05	C		2.64E-01	C	
5B	SVOC	4-Chloro-3-methylphenol	59-50-7	T		7												
5B	SVOC	4-Chloroaniline	106-47-8	T		7				1.50E-01	NC		2.26E+04	NC		1.87E+01	NC	
5B	SVOC	2-Chloronaphthalene	91-58-7	T		7				2.90E+00	NC		8.74E+02	NC		6.75E+02	NC	
5B	SVOC	2-Chlorophenol	95-57-8	T		7				1.80E-01	NC		4.58E+01	NC		5.52E+01	NC	
5B	SVOC	4-Chlorophenyl-phenyl ether	7005-72-3	T		7												
5B	SVOC	Chrysene	218-01-9	T	B2	17				9.20E-02	C		1.04E+02	C		8.92E-02	C	
5B	SVOC	Dibenz(a,h)anthracene	53-70-3	T	B2	17				9.20E-05	C		3.97E+02	C		2.66E-05	C	
5B	SVOC	Dibenzofuran	132-64-9	T	D	7				1.50E-01	NC		3.67E+02	NC		1.19E+01	NC	
5B	SVOC	3,3'-Dichlorobenzidine	91-94-1	T	B2	7				1.50E-03	C		2.35E+04	C		2.20E-02	C	
5B	SVOC	2,4-Dichlorophenol	120-83-2	T		7				1.10E-01	NC		1.92E+03	NC		1.53E+01	NC	
5B	SVOC	Diethylphthalate	84-66-2	T	D	7				2.90E+01	NC		3.45E+06	NC		1.41E+03	NC	
5B	SVOC	2,4-Dimethylphenol	105-67-9	T		7				7.30E-01	NC		1.95E+04	NC		1.01E+02	NC	
5B	SVOC	Dimethylphthalate	131-11-3	T	D	7				3.70E+02	NC							
5B	SVOC	Di-n-butylphthalate	84-74-2	T	D	7				3.70E+00	NC					3.29E+02	NC	
5B	SVOC	4,6-Dinitro-2-methylphenol	534-52-1	T		7							4.32E+02	NC		4.67E-01	NC	
5B	SVOC	2,4-Dinitrophenol	51-28-5	T		7				7.30E-02	NC					9.35E+00	NC	
5B	SVOC	2,4-Dinitrotoluene	121-14-2	T	B2	7				7.30E-02	NC					6.18E-02	C	
5B	SVOC	2,6-Dinitrotoluene	606-20-2	T	B2	7				3.70E-02	NC		8.97E+01	C		7.10E-02	C	
5B	SVOC	Di-n-octylphthalate	117-84-0	T		7				1.50E+00	NC					7.45E+01	NC	
5B	SVOC	Fluoranthene	206-44-0	T	D	17	1	2.20E-04	2.20E-04	1.50E+00	NC	1.5E-04	5.72E+03	NC	3.8E-08	2.04E+02	NC	1.1E-06
5B	SVOC	Fluorene	86-73-7	T	D	17	1	1.60E-04	1.60E-04	1.50E+00	NC	1.1E-04	1.61E+03	NC	9.9E-08	3.23E+02	NC	4.9E-07
5B	SVOC	Hexachlorobenzene	118-74-1	T	B2	7				1.00E-03	C		8.71E-02	C		5.70E-04	C	
5B	SVOC	Hexachlorobutadiene	87-68-3	T	C	7				8.60E-03	C		1.05E+00	C		5.20E-02	C	
5B	SVOC	Hexachlorocyclopentadiene	77-47-4	T	E	7				5.00E-02	NC		1.68E-01	NC		8.86E+00	NC	
5B	SVOC	Hexachloroethane	67-72-1	T	C	7				3.70E-02	NC		1.26E+01	C		7.47E-01	C	
5B	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	T	B2	17				9.20E-04	C		4.20E+01	C		2.81E-04	C	
5B	SVOC	Isophorone	78-59-1	T	C	7				7.10E-01	C					6.27E+01	C	
5B	SVOC	1-Methylnaphthalene	90-12-0	T		3												
5B	SVOC	2-Methylnaphthalene	91-57-6	T	ID	10				7.30E-01	NC		6.47E+00	NC		3.49E+01	NC	
5B	SVOC	Methylphenol (total)	1319-77-3	T		7				1.80E-01	NC		1.10E+05	NC		2.40E+02	NC	
5B	SVOC	Naphthalene	91-20-3	T	C	17				7.30E-01	NC		7.32E+00	NC		8.99E+01	NC	
5B	SVOC	2-Nitroaniline	88-74-4	T		7				1.00E-03	NC		1.52E+00	NC		9.78E+00	NC	
5B	SVOC	3-Nitroaniline	99-09-2	T	C	7										7.52E-01	NC	
5B	SVOC	4-Nitroaniline	100-01-6	T	C	7							9.72E+05	NC		2.88E+00	C	
5B	SVOC	Nitrobenzene	98-95-3	T	D	7				1.80E-02	NC		5.05E+01	NC		4.05E+00	NC	
5B	SVOC	2-Nitrophenol	88-75-5	T		7												

Table 27a.: Off-Facility Cedarville Aquifer Monitoring Well Screening Results - AOI 5B
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)		Ratio of Max Detect to DW Criteria	Residential GW Volaltilization to Indoor Air Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res GW Vol Indoor Air Criteria	Residential Nonpotable Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res Nonpotable Contact Criteria
5B	SVOC	4-Nitrophenol	100-02-7	T		7							1.63E+07	NC		3.68E+01	NC	
5B	SVOC	N-Nitrosodiphenylamine	86-30-6	T	B2	7				1.40E-01	C					2.78E+00	C	
5B	SVOC	N-Nitroso-di-n-propylamine	621-64-7	T	B2	7				9.60E-05	C		2.91E+00	C		8.80E-03	C	
5B	SVOC	2,2'-oxybis(1-Chloropropane)	108-60-1	T	C	7				9.60E-03	C					3.03E-01	C	
5B	SVOC	Pentachlorophenol	87-86-5	T	B2	7				1.00E-03	C		1.46E+04	C		9.88E-03	C	
5B	SVOC	Phenanthrene	85-01-8	T	D	17	1	4.10E-04	4.10E-04	1.10E+00	NC	3.7E-04	2.99E+03	NC	1.4E-07	1.98E+02	NC	2.1E-06
5B	SVOC	Phenol	108-95-2	T	ID	7				2.20E+01	NC					1.26E+03	NC	
5B	SVOC	Pyrene	129-00-0	T	D	17	1	1.70E-04	1.70E-04	1.10E+00	NC	1.5E-04	6.11E+03	NC	2.8E-08	1.55E+02	NC	1.1E-06
5B	SVOC	2,4,5-Trichlorophenol	95-95-4	T		7				3.70E+00	NC					4.20E+02	NC	
5B	SVOC	2,4,6-Trichlorophenol	88-06-2	T	B2	7				3.70E-03	NC		6.01E+02	C		5.76E-01	NC	
5B	INORG	Arsenic	7440-38-2	D	A	1				5.00E-02	C					5.77E-02	C	
5B	INORG	Arsenic	7440-38-2	T	A	9				5.00E-02	C					5.77E-02	C	
5B	INORG	Barium	7440-39-3	D	D	1	1	3.40E-01	3.40E-01	2.00E+00	NC	1.7E-01				2.60E+02	NC	1.3E-03
5B	INORG	Barium	7440-39-3	T	D	9				2.00E+00	NC					2.60E+02	NC	
5B	INORG	Cadmium	7440-43-9	D	B1	1				5.00E-03	NC					3.71E+00	NC	
5B	INORG	Cadmium	7440-43-9	T	B1	9				5.00E-03	NC					3.71E+00	NC	
5B	INORG	Chromium (total)	7440-47-3	D		1				1.00E-01	NC					1.11E+01	NC	
5B	INORG	Chromium (total)	7440-47-3	T		16	1	1.90E-03	1.90E-03	1.00E-01	NC	1.9E-02				1.11E+01	NC	1.7E-04
5B	INORG	Copper	7440-50-8	T	D	7				1.30E+00	NC					1.48E+02	NC	
5B	INORG	Iron	7439-89-6	D	D	3				1.10E+01	NC					1.11E+03	NC	
5B	INORG	Lead	7439-92-1	D	B2	1	1	7.90E-03	7.90E-03	1.50E-02		5.3E-01						
5B	INORG	Lead	7439-92-1	T	B2	9				1.50E-02								
5B	INORG	Manganese	7439-96-5	D	D	3				8.80E-01	NC					5.19E+02	NC	
5B	INORG	Mercury	7439-97-6	D	D	1				2.00E-03			3.29E-01	NC		2.67E+00	NC	
5B	INORG	Mercury	7439-97-6	T	D	9				2.00E-03			3.29E-01	NC		2.67E+00	NC	
5B	INORG	Nitrate	14797-55-8	T		3	3	1.20E-01	3.90E+00	1.00E+01		3.9E-01				5.94E+03	NC	6.6E-04
5B	INORG	Selenium	7782-49-2	D	D	1				5.00E-02	NC					1.85E+01	NC	
5B	INORG	Selenium	7782-49-2	T	D	9	3	5.00E-03	5.90E-03	5.00E-02	NC	1.2E-01				1.85E+01	NC	3.2E-04
5B	INORG	Silver	7440-22-4	D	D	1				1.80E-01	NC					2.01E+01	NC	
5B	INORG	Silver	7440-22-4	T	D	9				1.80E-01	NC					2.01E+01	NC	
5B	INORG	Zinc	7440-66-6	T	D	7				1.10E+01	NC					1.21E+03	NC	

Table 27a.: Off-Facility Cedarville Aquifer Monitoring Well Screening Results - AOI 5B
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)	Ratio of Max Detect to DW Criteria	Residential GW Volaltilization to Indoor Air Criteria (TR=E-5 & HQ=1) (mg/L)	Ratio of Max Detect to Res GW Vol Indoor Air Criteria	Residential Nonpotable Contact Criteria (TR=E-5 & HQ=1) (mg/L)	Ratio of Max Detect to Res Nonpotable Contact Criteria
Notes:															
The Screening Criteria for Pyrene were used as surrogates for Phenanthrene and Benzo(g,h,i)perylene.															
The Screening Criteria for Phenol were used as surrogates for Phenols (total).															
The Screening Criteria for Naphthalene were used as surrogates for 2-Methylnaphthalene.															
The Screening Criteria for cis-1,2-Dichloroethene were used as surrogates for 1,2-Dichloroethene (total).															
The Screening Criteria for Chromium VI was used as a surrogate for Chromium (total).															
The concentrations for the Methylphenol (2, 3, & 4) were summed before comparing to the Screening Criteria for 4-Methylphenol.															
The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.															
The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.															
The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.															
c - The Screening Criterion is based on cancer risk.															
nc - The Screening Criterion is based on noncancer effects.															
Chem Group - Chemical Group															
Meas Basis - Measured Basis; T = Total, D = Dissolved															
Carc Class - EPA Weight-of-Evidence Cancer Classification															

Table 27b.: Off-Facility Cedarville Aquifer Direct Push Screening Results - AOI 5B
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)		Ratio of Max Detect to DW Criteria	Residential GW Volatilization to Indoor Air Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res GW Vol Indoor Air Criteria	Residential Nonpotable Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res Nonpotable Contact Criteria
5B	VOC	Acetone	67-64-1	T	ID	53	2	8.00E-03	1.30E-02	3.70E+00	NC	3.5E-03	4.83E+04	NC	2.7E-07	7.94E+03	NC	1.6E-06
5B	VOC	Benzene	71-43-2	T	A	81	47	1.20E-04	3.40E-03	5.00E-03	C	6.8E-01	2.13E+00	C	1.6E-03	9.55E-01	C	3.6E-03
5B	VOC	Bromodichloromethane	75-27-4	T	B2	81	4	5.60E-04	8.00E-04	8.00E-02	C	1.0E-02	1.65E+00	C	4.9E-04	1.51E+00	C	5.3E-04
5B	VOC	Bromoform	75-25-2	T	B2	81				8.00E-02	C		5.62E+01	C		1.27E+01	C	
5B	VOC	Bromomethane	74-83-9	T	D	81				5.10E-02	NC		3.04E+00	NC		1.75E+01	NC	
5B	VOC	2-Butanone	78-93-3	T	ID	65	3	5.10E-04	2.82E-03	2.20E+01	NC	1.3E-04	5.67E+04	NC	5.0E-08	5.52E+03	NC	5.1E-07
5B	VOC	Carbon Disulfide	75-15-0	T		81	3	1.10E-04	3.30E-03	3.70E+00	NC	8.9E-04	3.41E+02	NC	9.7E-06	1.17E+03	NC	2.8E-06
5B	VOC	Carbon Tetrachloride	56-23-5	T	B2	81	1	2.10E-04	2.10E-04	5.00E-03	C	4.2E-02	8.73E-01	C	2.4E-04	3.13E-01	C	6.7E-04
5B	VOC	Chlorobenzene	108-90-7	T	D	81				1.00E-01	NC		5.37E+01	NC		2.21E+02	NC	
5B	VOC	Chloroethane	75-00-3	T		81				1.50E+01	NC		4.90E+03	NC		3.76E+01	C	
5B	VOC	Chloroform	67-66-3	T	B2	79	4	6.10E-04	3.00E-03	8.00E-02	NC	3.8E-02	7.88E-01	C	3.8E-03	5.53E+01	C	5.4E-05
5B	VOC	Chloromethane	74-87-3	T	D	81	3	3.10E-04	4.60E-04	5.20E-02	C	8.8E-03	7.57E+01	NC	6.1E-06	4.51E+03	NC	1.0E-07
5B	VOC	Cumene	98-82-8	T	D	56	6	1.70E-04	5.30E-04	3.70E+00	NC	1.4E-04	1.77E+02	NC	3.0E-06	8.31E+02	NC	6.4E-07
5B	VOC	Cyclohexane	110-82-7	T	ID	56	18	3.40E-04	1.20E-03	2.10E+02	NC	5.7E-06	2.53E+03	NC	4.7E-07	3.21E+05	NC	3.7E-09
5B	VOC	1,2-Dibromo-3-chloropropane	96-12-8	T	B2	56				2.00E-04	C		1.05E+00	NC		4.65E-02	C	
5B	VOC	Dibromochloromethane	124-48-1	T	C	81				8.00E-02	C		1.91E+00	C		1.21E+00	C	
5B	VOC	1,2-Dibromoethane	106-93-4	T	B2	56				5.00E-05	C		1.90E-01	C		1.73E-03	C	
5B	VOC	1,2-Dichlorobenzene	95-50-1	T	D	58				6.00E-01	NC		2.41E+02	NC		8.34E+02	NC	
5B	VOC	1,3-Dichlorobenzene	541-73-1	T	D	58				3.30E-02	NC		1.43E+02	NC		3.25E+02	NC	
5B	VOC	1,4-Dichlorobenzene	106-46-7	T	C	58				7.50E-02	C		4.09E+00	C		6.08E-01	C	
5B	VOC	Dichlorodifluoromethane	75-71-8	T		56				7.30E+00	NC		8.91E+01	NC		1.72E+03	NC	
5B	VOC	1,1-Dichloroethane	75-34-3	T	C	81	9	1.50E-04	3.30E-03	3.70E+00	NC	8.9E-04	3.47E+02	NC	9.5E-06	1.19E+03	NC	2.8E-06
5B	VOC	1,2-Dichloroethane	107-06-2	T	B2	72				5.00E-03	C		1.21E+00	C		1.30E+00	C	
5B	VOC	1,1-Dichloroethene	75-35-4	T	C	81				7.00E-03	NC		9.82E+01	NC		5.93E+02	NC	
5B	VOC	1,2-Dichloroethene (total)	540-59-0	T		25	3	2.90E-04	4.60E-03	3.70E-01	NC	1.2E-02	1.76E+01	NC	2.6E-04	1.12E+02	NC	4.1E-05
5B	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	81	22	1.60E-04	5.80E-03	7.00E-02	NC	8.3E-02	2.54E+01	NC	2.3E-04	1.22E+02	NC	4.8E-05
5B	VOC	trans-1,2-Dichloroethene	156-60-5	T		81				1.00E-01	NC		3.90E+01	NC		2.48E+02	NC	
5B	VOC	1,2-Dichloropropane	78-87-5	T	B2	81	2	4.60E-04	2.30E-03	5.00E-03	C	4.6E-01	3.86E+00	NC	6.0E-04	1.15E+00	C	2.0E-03
5B	VOC	1,3-Dichloropropene (total)	542-75-6	T	B2	81				6.70E-03	C		3.32E+00	C		7.80E-01	C	
5B	VOC	Ethyl Benzene	100-41-4	T	D	81	15	1.90E-04	9.40E-04	7.00E-01	NC	1.3E-03	7.97E+02	NC	1.2E-06	9.81E+02	NC	9.6E-07
5B	VOC	n-Hexane	110-54-3	T		25	7	1.50E-04	4.35E-04	2.20E+00	NC	2.0E-04				2.76E+02	NC	1.6E-06
5B	VOC	2-Hexanone	591-78-6	T		81							1.52E+00	NC		6.95E+03	NC	
5B	VOC	Methyl Acetate	79-20-9	T		56				3.70E+01	NC		8.61E+05	NC		4.24E+03	NC	
5B	VOC	Methyl tert-butyl ether	1634-04-4	T		56				2.00E-01	C		4.28E+02	C		4.18E+01	C	
5B	VOC	4-Methyl-2-pentanone	108-10-1	T	ID	81	1	3.85E-04	3.85E-04	2.90E+00	NC	1.3E-04	1.67E+04	NC	2.3E-08	1.48E+05	NC	2.6E-09
5B	VOC	Methylcyclohexane	108-87-2	T		56	33	2.60E-04	1.40E-03	3.10E+01	NC	4.5E-05	1.24E+03	NC	1.1E-06	1.58E+05	NC	8.8E-09
5B	VOC	Methylene Chloride	75-09-2	T	B2	81	15	5.00E-04	4.20E-03	5.00E-03	C	8.4E-01	4.22E+01	C	1.0E-04	1.91E+01	C	2.2E-04
5B	VOC	Styrene	100-42-5	T		81				1.00E-01	NC		1.04E+03	NC		1.53E+03	NC	
5B	VOC	1,1,2,2-Tetrachloroethane	79-34-5	T	C	81				3.40E-03	C		1.16E+00	C		3.13E-01	C	
5B	VOC	Tetrachloroethene	127-18-4	T	C-B2	81	16	2.60E-04	2.00E-01	5.00E-03	C	**4.0E+01**	4.98E+00	C	4.0E-02	9.01E-01	C	2.2E-01
5B	VOC	Toluene	108-88-3	T	D	81	61	1.80E-04	5.10E-03	1.00E+00	NC	5.1E-03	3.01E+02	NC	1.7E-05	1.58E+03	NC	3.2E-06
5B	VOC	1,2,4-Trichlorobenzene	120-82-1	T	D	58	1	4.20E-04	4.20E-04	7.00E-02	NC	6.0E-03	3.03E+02	NC	1.4E-06	1.14E+02	NC	3.7E-06
5B	VOC	1,1,1-Trichloroethane	71-55-6	T	D	81	8	1.60E-04	4.80E-03	2.00E-01	NC	2.4E-02	1.36E+03	NC	3.5E-06	2.41E+03	NC	2.0E-06
5B	VOC	1,1,2-Trichloroethane	79-00-5	T	C	81				5.00E-03	C		2.24E+00	C		1.38E+00	C	
5B	VOC	Trichloroethene	79-01-6	T	C-B2	81	26	1.10E-04	2.60E-02	5.00E-03	C	**5.2E+00**	9.09E+00	C	2.9E-03	3.33E+00	C	7.8E-03
5B	VOC	Trichlorofluoromethane	75-69-4	T		56				1.10E+01	NC		3.05E+02	NC		2.41E+03	NC	
5B	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	T		56	18	1.00E-03	2.30E-01	1.10E+03	NC	2.1E-04	1.26E+04	NC	1.8E-05	4.52E+01	NC	5.1E-03
5B	VOC	Vinyl Chloride	75-01-4	T	A	81				2.00E-03	C		1.10E+00	C		7.34E-02	C	
5B	VOC	Xylenes (total)	1330-20-7	T	ID	81	14	4.80E-04	3.50E-03	1.00E+01	NC	3.5E-04	7.52E+01	NC	4.7E-05	1.14E+03	NC	3.1E-06
5B	SVOC	Acenaphthene	83-32-9	T		2				2.20E+00	NC		1.16E+03	NC		5.25E+02	NC	
5B	SVOC	Acenaphthylene	208-96-8	T	D	2				1.10E+00	NC		7.50E+02	NC		2.70E+02	NC	
5B	SVOC	Anthracene	120-12-7	T	D	2				1.10E+01	NC					3.42E+02	NC	

Table 27b.: Off-Facility Cedarville Aquifer Direct Push Screening Results - AOI 5B
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)		Ratio of Max Detect to DW Criteria	Residential GW Volatilization to Indoor Air Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res GW Vol Indoor Air Criteria	Residential Nonpotable Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res Nonpotable Contact Criteria
5B	SVOC	Benzo(a)anthracene	56-55-3	T	B2	2				9.20E-04	C		1.90E+01	C		5.30E-04	C	
5B	SVOC	Benzo(a)pyrene	50-32-8	T	B2	2				2.00E-04	C		1.29E+01	C		3.01E-05	C	
5B	SVOC	Benzo(b)fluoranthene	205-99-2	T	B2	2				9.20E-04	C		9.59E-01	C		4.84E-04	C	
5B	SVOC	Benzo(g,h,i)perylene	191-24-2	T	D	2				1.10E+00	NC		4.03E+05	NC		7.63E+01	NC	
5B	SVOC	Benzo(k)fluoranthene	207-08-9	T	B2	2				9.20E-03	C		7.76E+02	C		2.56E-03	C	
5B	SVOC	bis(2-Chloroethoxy)methane	111-91-1	T	D	2												
5B	SVOC	bis(2-Chloroethyl) ether	111-44-4	T	B2	2				6.10E-04	C		2.37E+00	C		9.71E-02	C	
5B	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	T	B2	2				6.00E-03	C		3.07E+04	C		7.48E-03	C	
5B	SVOC	4-Bromophenyl-phenyl ether	101-55-3	T	D	2												
5B	SVOC	Butylbenzylphthalate	85-68-7	T	C	2				7.30E+00	NC		3.34E+05	NC		3.14E+02	NC	
5B	SVOC	Carbazole	86-74-8	T	B2	2				3.40E-02	C		1.39E+05	C		2.64E-01	C	
5B	SVOC	4-Chloro-3-methylphenol	59-50-7	T		2												
5B	SVOC	4-Chloroaniline	106-47-8	T		2				1.50E-01	NC		2.26E+04	NC		1.87E+01	NC	
5B	SVOC	2-Chloronaphthalene	91-58-7	T		2				2.90E+00	NC		8.74E+02	NC		6.75E+02	NC	
5B	SVOC	2-Chlorophenol	95-57-8	T		2				1.80E-01	NC		4.58E+01	NC		5.52E+01	NC	
5B	SVOC	4-Chlorophenyl-phenyl ether	7005-72-3	T		2												
5B	SVOC	Chrysene	218-01-9	T	B2	2				9.20E-02	C		1.04E+02	C		8.92E-02	C	
5B	SVOC	Dibenz(a,h)anthracene	53-70-3	T	B2	2				9.20E-05	C		3.97E+02	C		2.66E-05	C	
5B	SVOC	Dibenzofuran	132-64-9	T	D	2				1.50E-01	NC		3.67E+02	NC		1.19E+01	NC	
5B	SVOC	3,3'-Dichlorobenzidine	91-94-1	T	B2	2				1.50E-03	C		2.35E+04	C		2.20E-02	C	
5B	SVOC	2,4-Dichlorophenol	120-83-2	T		2				1.10E-01	NC		1.92E+03	NC		1.53E+01	NC	
5B	SVOC	Diethylphthalate	84-66-2	T	D	2				2.90E+01	NC		3.45E+06	NC		1.41E+03	NC	
5B	SVOC	2,4-Dimethylphenol	105-67-9	T		2				7.30E-01	NC		1.95E+04	NC		1.01E+02	NC	
5B	SVOC	Dimethylphthalate	131-11-3	T	D	2				3.70E+02	NC							
5B	SVOC	Di-n-butylphthalate	84-74-2	T	D	2				3.70E+00	NC					3.29E+02	NC	
5B	SVOC	4,6-Dinitro-2-methylphenol	534-52-1	T		2							4.32E+02	NC		4.67E-01	NC	
5B	SVOC	2,4-Dinitrophenol	51-28-5	T		2				7.30E-02	NC					9.35E+00	NC	
5B	SVOC	2,4-Dinitrotoluene	121-14-2	T	B2	2				7.30E-02	NC					6.18E-02	C	
5B	SVOC	2,6-Dinitrotoluene	606-20-2	T	B2	2				3.70E-02	NC		8.97E+01	C		7.10E-02	C	
5B	SVOC	Di-n-octylphthalate	117-84-0	T		2				1.50E+00	NC					7.45E+01	NC	
5B	SVOC	Fluoranthene	206-44-0	T	D	2				1.50E+00	NC		5.72E+03	NC		2.04E+02	NC	
5B	SVOC	Fluorene	86-73-7	T	D	2				1.50E+00	NC		1.61E+03	NC		3.23E+02	NC	
5B	SVOC	Hexachlorobenzene	118-74-1	T	B2	2				1.00E-03	C		8.71E-02	C		5.70E-04	C	
5B	SVOC	Hexachlorobutadiene	87-68-3	T	C	2				8.60E-03	C		1.05E+00	C		5.20E-02	C	
5B	SVOC	Hexachlorocyclopentadiene	77-47-4	T	E	2				5.00E-02	NC		1.68E-01	NC		8.86E+00	NC	
5B	SVOC	Hexachloroethane	67-72-1	T	C	2				3.70E-02	NC		1.26E+01	C		7.47E-01	C	
5B	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	T	B2	2				9.20E-04	C		4.20E+01	C		2.81E-04	C	
5B	SVOC	Isophorone	78-59-1	T	C	2				7.10E-01	C					6.27E+01	C	
5B	SVOC	2-Methylnaphthalene	91-57-6	T	ID	2				7.30E-01	NC		6.47E+00	NC		3.49E+01	NC	
5B	SVOC	Methylphenol (total)	1319-77-3	T		2				1.80E-01	NC		1.10E+05	NC		2.40E+02	NC	
5B	SVOC	Naphthalene	91-20-3	T	C	2				7.30E-01	NC		7.32E+00	NC		8.99E+01	NC	
5B	SVOC	2-Nitroaniline	88-74-4	T		2				1.00E-03	NC		1.52E+00	NC		9.78E+00	NC	
5B	SVOC	3-Nitroaniline	99-09-2	T	C	2										7.52E-01	NC	
5B	SVOC	4-Nitroaniline	100-01-6	T	C	2							9.72E+05	NC		2.88E+00	C	
5B	SVOC	Nitrobenzene	98-95-3	T	D	2				1.80E-02	NC		5.05E+01	NC		4.05E+00	NC	
5B	SVOC	2-Nitrophenol	88-75-5	T		2												
5B	SVOC	4-Nitrophenol	100-02-7	T		2							1.63E+07	NC		3.68E+01	NC	
5B	SVOC	N-Nitrosodiphenylamine	86-30-6	T	B2	2				1.40E-01	C					2.78E+00	C	
5B	SVOC	N-Nitroso-di-n-propylamine	621-64-7	T	B2	2				9.60E-05	C		2.91E+00	C		8.80E-03	C	
5B	SVOC	2,2'-oxybis(1-Chloropropane)	108-60-1	T	C	2				9.60E-03	C					3.03E-01	C	
5B	SVOC	Pentachlorophenol	87-86-5	T	B2	2				1.00E-03	C		1.46E+04	C		9.88E-03	C	
5B	SVOC	Phenanthrene	85-01-8	T	D	2				1.10E+00	NC		2.99E+03	NC		1.98E+02	NC	

Table 27b.: Off-Facility Cedarville Aquifer Direct Push Screening Results - AOI 5B
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)		Ratio of Max Detect to DW Criteria	Residential GW Volatilization to Indoor Air Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res GW Vol Indoor Air Criteria	Residential Nonpotable Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res Nonpotable Contact Criteria
5B	SVOC	Phenol	108-95-2	T	ID	2				2.20E+01	NC					1.26E+03	NC	
5B	SVOC	Pyrene	129-00-0	T	D	2				1.10E+00	NC		6.11E+03	NC		1.55E+02	NC	
5B	SVOC	2,4,5-Trichlorophenol	95-95-4	T		2				3.70E+00	NC					4.20E+02	NC	
5B	SVOC	2,4,6-Trichlorophenol	88-06-2	T	B2	2				3.70E-03	NC		6.01E+02	C		5.76E-01	NC	
5B	P/PCB	PCBs (total)	1336-36-3	T	B2	2				5.00E-04	C		4.09E-02	C		4.21E-04	C	
5B	P/PCB	Aldrin	309-00-2	T	B2	2				4.00E-05	C		3.55E-02	C		2.68E-05	C	
5B	P/PCB	alpha-BHC	319-84-6	T	B2	2				1.10E-04	C		8.55E-01	C		1.59E-03	C	
5B	P/PCB	beta-BHC	319-85-7	T	C	2				3.70E-04	C		3.42E+01	C		4.61E-03	C	
5B	P/PCB	delta-BHC	319-86-8	T	D	2												
5B	P/PCB	gamma-BHC	58-89-9	T	B2-C	2				2.00E-04	C		3.23E+00	C		9.75E-03	C	
5B	P/PCB	Chlordane (total)	57-74-9	T	B2	2				2.00E-03			4.65E+00	C		2.61E-03	C	
5B	P/PCB	4,4'-DDD	72-54-8	T	B2	2				2.80E-03	C		5.55E+01	C		1.86E-03	C	
5B	P/PCB	4,4'-DDE	72-55-9	T	B2	2				2.00E-03	C		8.80E+00	C		5.93E-04	C	
5B	P/PCB	4,4'-DDT	50-29-3	T	B2	2				2.00E-03	C		2.12E+01	C		1.03E-03	C	
5B	P/PCB	Dieldrin	60-57-1	T	B2	2				4.20E-05	C		2.62E-01	C		1.42E-04	C	
5B	P/PCB	Endosulfan	115-29-7	T		2				2.20E-01	NC		1.44E+03	NC		3.21E+01	NC	
5B	P/PCB	Endosulfan sulfate	1031-07-8	T		2				2.20E-01	NC		4.53E+01	NC		5.54E+01	NC	
5B	P/PCB	Endrin	72-20-8	T	D	2				2.00E-03	NC		1.01E+02	NC		1.55E+00	NC	
5B	P/PCB	Endrin aldehyde	7421-93-4	T		2				1.10E-02	NC		1.55E+03	NC		1.39E+00	NC	
5B	P/PCB	Endrin ketone	53494-70-5	T		2				1.10E-02	NC							
5B	P/PCB	Heptachlor	76-44-8	T	B2	2				4.00E-04	C		4.66E-02	C		2.23E-04	C	
5B	P/PCB	Heptachlor epoxide	1024-57-3	T	B2	2				2.00E-04	C		6.99E-01	C		3.44E-04	C	
5B	P/PCB	Methoxychlor	72-43-5	T	D	2				4.00E-02	NC					2.97E+01	NC	
5B	P/PCB	Toxaphene	8001-35-2	T	B2	2				3.00E-03	C		8.77E+00	C		1.84E-03	C	

Notes:

The Screening Criteria for cis-1,2-Dichloroethene were used as surrogates for 1,2-Dichloroethene (total).

The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.

The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.

The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.

c - The Screening Criterion is based on cancer risk.

nc - The Screening Criterion is based on noncancer effects.

Chem Group - Chemical Group

Meas Basis - Measured Basis; T = Total, D = Dissolved

Carc Class - EPA Weight-of-Evidence Cancer Classification

Table 27c.: Off-Facility Well Water Screening Results - AOI 5B
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)		Ratio of Max Detect to DW Criteria	Residential GW Volaltilization to Indoor Air Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res GW Vol Indoor Air Criteria	Residential Nonpotable Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res Nonpotable Contact Criteria
5B	VOC	Acetone	67-64-1	T	ID	32	4	7.00E-04	3.05E-03	3.70E+00	NC	8.2E-04	4.83E+04	NC	6.3E-08	7.94E+03	NC	3.8E-07
5B	VOC	Benzene	71-43-2	T	A	32	1	2.10E-04	2.10E-04	5.00E-03	C	4.2E-02	2.13E+00	C	9.8E-05	9.55E-01	C	2.2E-04
5B	VOC	Bromodichloromethane	75-27-4	T	B2	32				8.00E-02	C		1.65E+00	C		1.51E+00	C	
5B	VOC	Bromoform	75-25-2	T	B2	32				8.00E-02	C		5.62E+01	C		1.27E+01	C	
5B	VOC	Bromomethane	74-83-9	T	D	32				5.10E-02	NC		3.04E+00	NC		1.75E+01	NC	
5B	VOC	2-Butanone	78-93-3	T	ID	32	4	4.40E-04	5.90E-04	2.20E+01	NC	2.7E-05	5.67E+04	NC	1.0E-08	5.52E+03	NC	1.1E-07
5B	VOC	Carbon Disulfide	75-15-0	T		32				3.70E+00	NC		3.41E+02	NC		1.17E+03	NC	
5B	VOC	Carbon Tetrachloride	56-23-5	T	B2	32				5.00E-03	C		8.73E-01	C		3.13E-01	C	
5B	VOC	Chlorobenzene	108-90-7	T	D	32				1.00E-01	NC		5.37E+01	NC		2.21E+02	NC	
5B	VOC	Chloroethane	75-00-3	T		32	1	3.40E-04	3.40E-04	1.50E+01	NC	2.3E-05	4.90E+03	NC	6.9E-08	3.76E+01	C	9.0E-06
5B	VOC	Chloroform	67-66-3	T	B2	32				8.00E-02	NC		7.88E-01	C		5.53E+01	C	
5B	VOC	Chloromethane	74-87-3	T	D	32				5.20E-02	C		7.57E+01	NC		4.51E+03	NC	
5B	VOC	Cumene	98-82-8	T	D	22				3.70E+00	NC		1.77E+02	NC		8.31E+02	NC	
5B	VOC	Cyclohexane	110-82-7	T	ID	22				2.10E+02	NC		2.53E+03	NC		3.21E+05	NC	
5B	VOC	1,2-Dibromo-3-chloropropane	96-12-8	T	B2	22				2.00E-04	C		1.05E+00	NC		4.65E-02	C	
5B	VOC	Dibromochloromethane	124-48-1	T	C	32				8.00E-02	C		1.91E+00	C		1.21E+00	C	
5B	VOC	1,2-Dibromoethane	106-93-4	T	B2	22				5.00E-05	C		1.90E-01	C		1.73E-03	C	
5B	VOC	1,2-Dichlorobenzene	95-50-1	T	D	22				6.00E-01	NC		2.41E+02	NC		8.34E+02	NC	
5B	VOC	1,3-Dichlorobenzene	541-73-1	T	D	22				3.30E-02	NC		1.43E+02	NC		3.25E+02	NC	
5B	VOC	1,4-Dichlorobenzene	106-46-7	T	C	22				7.50E-02	C		4.09E+00	C		6.08E-01	C	
5B	VOC	Dichlorodifluoromethane	75-71-8	T		22				7.30E+00	NC		8.91E+01	NC		1.72E+03	NC	
5B	VOC	1,1-Dichloroethane	75-34-3	T	C	32				3.70E+00	NC		3.47E+02	NC		1.19E+03	NC	
5B	VOC	1,2-Dichloroethane	107-06-2	T	B2	32				5.00E-03	C		1.21E+00	C		1.30E+00	C	
5B	VOC	1,1-Dichloroethene	75-35-4	T	C	32	2	5.40E-04	5.60E-04	7.00E-03	NC	8.0E-02	9.82E+01	NC	5.7E-06	5.93E+02	NC	9.4E-07
5B	VOC	1,2-Dichloroethene (total)	540-59-0	T		10				3.70E-01	NC		1.76E+01	NC		1.12E+02	NC	
5B	VOC	cis-1,2-Dichloroethene	156-59-2	T	D	32	1	1.20E-03	1.20E-03	7.00E-02	NC	1.7E-02	2.54E+01	NC	4.7E-05	1.22E+02	NC	9.9E-06
5B	VOC	trans-1,2-Dichloroethene	156-60-5	T		32				1.00E-01	NC		3.90E+01	NC		2.48E+02	NC	
5B	VOC	1,2-Dichloropropane	78-87-5	T	B2	32				5.00E-03	C		3.86E+00	NC		1.15E+00	C	
5B	VOC	1,3-Dichloropropene (total)	542-75-6	T	B2	32				6.70E-03	C		3.32E+00	C		7.80E-01	C	
5B	VOC	Ethyl Benzene	100-41-4	T	D	32	1	4.50E-04	4.50E-04	7.00E-01	NC	6.4E-04	7.97E+02	NC	5.6E-07	9.81E+02	NC	4.6E-07
5B	VOC	n-Hexane	110-54-3	T		10				2.20E+00	NC					2.76E+02	NC	
5B	VOC	2-Hexanone	591-78-6	T		32	1	6.60E-04	6.60E-04				1.52E+00	NC	4.4E-04	6.95E+03	NC	9.5E-08
5B	VOC	Methyl Acetate	79-20-9	T		22				3.70E+01	NC		8.61E+05	NC		4.24E+03	NC	
5B	VOC	Methyl tert-butyl ether	1634-04-4	T		22				2.00E-01	C		4.28E+02	C		4.18E+01	C	
5B	VOC	4-Methyl-2-pentanone	108-10-1	T	ID	32	1	1.00E-03	1.00E-03	2.90E+00	NC	3.4E-04	1.67E+04	NC	6.0E-08	1.48E+05	NC	6.7E-09
5B	VOC	Methylcyclohexane	108-87-2	T		22				3.10E+01	NC		1.24E+03	NC		1.58E+05	NC	
5B	VOC	Methylene Chloride	75-09-2	T	B2	32				5.00E-03	C		4.22E+01	C		1.91E+01	C	
5B	VOC	Styrene	100-42-5	T		32				1.00E-01	NC		1.04E+03	NC		1.53E+03	NC	
5B	VOC	1,1,2,2-Tetrachloroethane	79-34-5	T	C	32				3.40E-03	C		1.16E+00	C		3.13E-01	C	
5B	VOC	Tetrachloroethene	127-18-4	T	C-B2	32	4	1.10E-03	1.20E-02	5.00E-03	C	**2.4E+00**	4.98E+00	C	2.4E-03	9.01E-01	C	1.3E-02
5B	VOC	Toluene	108-88-3	T	D	32	5	2.60E-04	7.70E-03	1.00E+00	NC	7.7E-03	3.01E+02	NC	2.6E-05	1.58E+03	NC	4.9E-06
5B	VOC	1,2,4-Trichlorobenzene	120-82-1	T	D	22				7.00E-02	NC		3.03E+02	NC		1.14E+02	NC	
5B	VOC	1,1,1-Trichloroethane	71-55-6	T	D	32	2	3.00E-03	3.30E-03	2.00E-01	NC	1.7E-02	1.36E+03	NC	2.4E-06	2.41E+03	NC	1.4E-06
5B	VOC	1,1,2-Trichloroethane	79-00-5	T	C	32				5.00E-03	C		2.24E+00	C		1.38E+00	C	
5B	VOC	Trichloroethene	79-01-6	T	C-B2	32	4	6.50E-04	3.10E-03	5.00E-03	C	6.2E-01	9.09E+00	C	3.4E-04	3.33E+00	C	9.3E-04
5B	VOC	Trichlorofluoromethane	75-69-4	T		22				1.10E+01	NC		3.05E+02	NC		2.41E+03	NC	
5B	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	T		26	2	1.20E-02	3.30E-02	1.10E+03	NC	3.0E-05	1.26E+04	NC	2.6E-06	4.52E+01	NC	7.3E-04
5B	VOC	Vinyl Chloride	75-01-4	T	A	32				2.00E-03	C		1.10E+00	C		7.34E-02	C	
5B	VOC	Xylenes (total)	1330-20-7	T	ID	32	1	2.00E-03	2.00E-03	1.00E+01	NC	2.0E-04	7.52E+01	NC	2.7E-05	1.14E+03	NC	1.7E-06
5B	SVOC	Acenaphthene	83-32-9	T		3				2.20E+00	NC		1.16E+03	NC		5.25E+02	NC	
5B	SVOC	Acenaphthylene	208-96-8	T	D	3				1.10E+00	NC		7.50E+02	NC		2.70E+02	NC	
5B	SVOC	Acetophenone	98-86-2	T	D	3							1.90E+04	NC		6.65E+02	NC	

Table 27c.: Off-Facility Well Water Screening Results - AOI 5B
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)		Ratio of Max Detect to DW Criteria	Residential GW Volaltilization to Indoor Air Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res GW Vol Indoor Air Criteria	Residential Nonpotable Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res Nonpotable Contact Criteria
5B	SVOC	Anthracene	120-12-7	T	D	3				1.10E+01	NC					3.42E+02	NC	
5B	SVOC	Atrazine	1912-24-9	T	C	3				3.00E-03	C		3.14E+04	C		1.16E-01	C	
5B	SVOC	Benzaldehyde	100-52-7	T		3				3.70E+00	NC		8.93E+03	NC		7.92E+02	NC	
5B	SVOC	Benzo(a)anthracene	56-55-3	T	B2	3				9.20E-04	C		1.90E+01	C		5.30E-04	C	
5B	SVOC	Benzo(a)pyrene	50-32-8	T	B2	3				2.00E-04	C		1.29E+01	C		3.01E-05	C	
5B	SVOC	Benzo(b)fluoranthene	205-99-2	T	B2	3				9.20E-04	C		9.59E-01	C		4.84E-04	C	
5B	SVOC	Benzo(g,h,i)perylene	191-24-2	T	D	3				1.10E+00	NC		4.03E+05	NC		7.63E+01	NC	
5B	SVOC	Benzo(k)fluoranthene	207-08-9	T	B2	3				9.20E-03	C		7.76E+02	C		2.56E-03	C	
5B	SVOC	Biphenyl	92-52-4	T	D	3				1.80E+00	NC					4.83E+00	NC	
5B	SVOC	bis(2-Chloroethoxy)methane	111-91-1	T	D	3												
5B	SVOC	bis(2-Chloroethyl) ether	111-44-4	T	B2	3				6.10E-04	C		2.37E+00	C		9.71E-02	C	
5B	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	T	B2	3				6.00E-03	C		3.07E+04	C		7.48E-03	C	
5B	SVOC	4-Bromophenyl-phenyl ether	101-55-3	T	D	3												
5B	SVOC	Butylbenzylphthalate	85-68-7	T	C	3				7.30E+00	NC		3.34E+05	NC		3.14E+02	NC	
5B	SVOC	Caprolactam	105-60-2	T		3				1.80E+01	NC		3.62E+07	NC		2.25E+03	NC	
5B	SVOC	Carbazole	86-74-8	T	B2	3				3.40E-02	C		1.39E+05	C		2.64E-01	C	
5B	SVOC	4-Chloro-3-methylphenol	59-50-7	T		3												
5B	SVOC	4-Chloroaniline	106-47-8	T		3				1.50E-01	NC		2.26E+04	NC		1.87E+01	NC	
5B	SVOC	2-Chloronaphthalene	91-58-7	T		3				2.90E+00	NC		8.74E+02	NC		6.75E+02	NC	
5B	SVOC	2-Chlorophenol	95-57-8	T		3				1.80E-01	NC		4.58E+01	NC		5.52E+01	NC	
5B	SVOC	4-Chlorophenyl-phenyl ether	7005-72-3	T		3												
5B	SVOC	Chrysene	218-01-9	T	B2	3				9.20E-02	C		1.04E+02	C		8.92E-02	C	
5B	SVOC	Dibenz(a,h)anthracene	53-70-3	T	B2	3				9.20E-05	C		3.97E+02	C		2.66E-05	C	
5B	SVOC	Dibenzofuran	132-64-9	T	D	3				1.50E-01	NC		3.67E+02	NC		1.19E+01	NC	
5B	SVOC	3,3'-Dichlorobenzidine	91-94-1	T	B2	3				1.50E-03	C		2.35E+04	C		2.20E-02	C	
5B	SVOC	2,4-Dichlorophenol	120-83-2	T		3				1.10E-01	NC		1.92E+03	NC		1.53E+01	NC	
5B	SVOC	Diethylphthalate	84-66-2	T	D	3				2.90E+01	NC		3.45E+06	NC		1.41E+03	NC	
5B	SVOC	2,4-Dimethylphenol	105-67-9	T		3				7.30E-01	NC		1.95E+04	NC		1.01E+02	NC	
5B	SVOC	Dimethylphthalate	131-11-3	T	D	3				3.70E+02	NC							
5B	SVOC	Di-n-butylphthalate	84-74-2	T	D	3				3.70E+00	NC					3.29E+02	NC	
5B	SVOC	4,6-Dinitro-2-methylphenol	534-52-1	T		3							4.32E+02	NC		4.67E-01	NC	
5B	SVOC	2,4-Dinitrophenol	51-28-5	T		3				7.30E-02	NC					9.35E+00	NC	
5B	SVOC	2,4-Dinitrotoluene	121-14-2	T	B2	3				7.30E-02	NC					6.18E-02	C	
5B	SVOC	2,6-Dinitrotoluene	606-20-2	T	B2	3				3.70E-02	NC		8.97E+01	C		7.10E-02	C	
5B	SVOC	Di-n-octylphthalate	117-84-0	T		3				1.50E+00	NC					7.45E+01	NC	
5B	SVOC	Fluoranthene	206-44-0	T	D	3				1.50E+00	NC		5.72E+03	NC		2.04E+02	NC	
5B	SVOC	Fluorene	86-73-7	T	D	3				1.50E+00	NC		1.61E+03	NC		3.23E+02	NC	
5B	SVOC	Hexachlorobenzene	118-74-1	T	B2	3				1.00E-03	C		8.71E-02	C		5.70E-04	C	
5B	SVOC	Hexachlorobutadiene	87-68-3	T	C	3				8.60E-03	C		1.05E+00	C		5.20E-02	C	
5B	SVOC	Hexachlorocyclopentadiene	77-47-4	T	E	3				5.00E-02	NC		1.68E-01	NC		8.86E+00	NC	
5B	SVOC	Hexachloroethane	67-72-1	T	C	3				3.70E-02	NC		1.26E+01	C		7.47E-01	C	
5B	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	T	B2	3				9.20E-04	C		4.20E+01	C		2.81E-04	C	
5B	SVOC	Isophorone	78-59-1	T	C	3				7.10E-01	C					6.27E+01	C	
5B	SVOC	2-Methylnaphthalene	91-57-6	T	ID	3				7.30E-01	NC		6.47E+00	NC		3.49E+01	NC	
5B	SVOC	Methylphenol (total)	1319-77-3	T		3				1.80E-01	NC		1.10E+05	NC		2.40E+02	NC	
5B	SVOC	Naphthalene	91-20-3	T	C	3				7.30E-01	NC		7.32E+00	NC		8.99E+01	NC	
5B	SVOC	2-Nitroaniline	88-74-4	T		3				1.00E-03	NC		1.52E+00	NC		9.78E+00	NC	
5B	SVOC	3-Nitroaniline	99-09-2	T	C	3										7.52E-01	NC	
5B	SVOC	4-Nitroaniline	100-01-6	T	C	3							9.72E+05	NC		2.88E+00	C	
5B	SVOC	Nitrobenzene	98-95-3	T	D	3				1.80E-02	NC		5.05E+01	NC		4.05E+00	NC	
5B	SVOC	2-Nitrophenol	88-75-5	T		3												
5B	SVOC	4-Nitrophenol	100-02-7	T		3							1.63E+07	NC		3.68E+01	NC	

Table 27c.: Off-Facility Well Water Screening Results - AOI 5B
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Meas Basis	Carc Class	Analyzed	Detected	Min Detected (mg/L)	Max Detected (mg/L)	Drinking Water Criteria (MCL or TR=1E-5 & HQ=1) (mg/L)		Ratio of Max Detect to DW Criteria	Residential GW Volaltilization to Indoor Air Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res GW Vol Indoor Air Criteria	Residential Nonpotable Contact Criteria (TR=E-5 & HQ=1) (mg/L)		Ratio of Max Detect to Res Nonpotable Contact Criteria
5B	SVOC	N-Nitrosodiphenylamine	86-30-6	T	B2	3				1.40E-01	C					2.78E+00	C	
5B	SVOC	N-Nitroso-di-n-propylamine	621-64-7	T	B2	3				9.60E-05	C		2.91E+00	C		8.80E-03	C	
5B	SVOC	2,2'-oxybis(1-Chloropropane)	108-60-1	T	C	3				9.60E-03	C					3.03E-01	C	
5B	SVOC	Pentachlorophenol	87-86-5	T	B2	3				1.00E-03	C		1.46E+04	C		9.88E-03	C	
5B	SVOC	Phenanthrene	85-01-8	T	D	3				1.10E+00	NC		2.99E+03	NC		1.98E+02	NC	
5B	SVOC	Phenol	108-95-2	T	ID	3				2.20E+01	NC					1.26E+03	NC	
5B	SVOC	Pyrene	129-00-0	T	D	3				1.10E+00	NC		6.11E+03	NC		1.55E+02	NC	
5B	SVOC	2,4,5-Trichlorophenol	95-95-4	T		3				3.70E+00	NC					4.20E+02	NC	
5B	SVOC	2,4,6-Trichlorophenol	88-06-2	T	B2	3				3.70E-03	NC		6.01E+02	C		5.76E-01	NC	
5B	INORG	Arsenic	7440-38-2	T	A	2				5.00E-02	C					5.77E-02	C	
5B	INORG	Barium	7440-39-3	T	D	2				2.00E+00	NC					2.60E+02	NC	
5B	INORG	Cadmium	7440-43-9	T	B1	2				5.00E-03	NC					3.71E+00	NC	
5B	INORG	Chromium (total)	7440-47-3	T		5				1.00E-01	NC					1.11E+01	NC	
5B	INORG	Copper	7440-50-8	T	D	3	3	5.20E-03	6.40E-03	1.30E+00	NC	4.9E-03				1.48E+02	NC	4.3E-05
5B	INORG	Lead	7439-92-1	T	B2	2				1.50E-02								
5B	INORG	Mercury	7439-97-6	T	D	2				2.00E-03			3.29E-01	NC		2.67E+00	NC	
5B	INORG	Selenium	7782-49-2	T	D	2				5.00E-02	NC					1.85E+01	NC	
5B	INORG	Silver	7440-22-4	T	D	2				1.80E-01	NC					2.01E+01	NC	
5B	INORG	Zinc	7440-66-6	T	D	3	1	1.70E-02	1.70E-02	1.10E+01	NC	1.5E-03				1.21E+03	NC	1.4E-05

Notes:

The Screening Criteria for Pyrene were used as surrogates for Phenanthrene and Benzo(g,h,i)perylene.

The Screening Criteria for Phenol were used as surrogates for Phenols (total).

The Screening Criteria for Naphthalene were used as surrogates for 2-Methylnaphthalene.

The Screening Criteria for cis-1,2-Dichloroethene were used as surrogates for 1,2-Dichloroethene (total).

The Screening Criteria for Chromium VI was used as a surrogate for Chromium (total).

The concentrations for the Methylphenol (2, 3, & 4) were summed before comparing to the Screening Criteria for 4-Methylphenol.

The concentrations for the Xylene isomers (m/p and o) were summed before comparing to the Screening Criteria.

The concentrations for the 1,3-Dichloropropene isomers (cis and trans) were summed before comparing to the Screening Criteria.

The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.

c - The Screening Criterion is based on cancer risk.

nc - The Screening Criterion is based on noncancer effects.

Chem Group - Chemical Group

Meas Basis - Measured Basis; T = Total, D = Dissolved

Carc Class - EPA Weight-of-Evidence Cancer Classification

Table 28: On-Facility Indoor Air Screening Results
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	TCL/ TAL	APP IX	Analyzed	Detected	Min Detected (mg/m3)	Mean Detected (mg/m3)	Max Detected (mg/m3)	Exposure Limit (mg/m3)	Ratio of Max Conc to Exposure Limit	Indoor Air Criteria (TR=E-5 & HQ =1) (mg/m3)		Ratio of Max Detect to Indoor Air Criteria
2S	VOC	Acetone	67-64-1	ID	Y	Y	8	8	4.75E-02	2.00E-01	3.33E-01	2.4E+03	1.4E-04	5.5E+00	NC	6.0E-02
2S	VOC	Acetonitrile	75-05-8	D	N	Y	8					7.0E+01		1.1E-01	NC	
2S	VOC	Acrolein	107-02-8	ID	N	Y	8	2	1.47E-03	2.30E-03	3.21E-03	2.5E-01	1.3E-02	3.5E-05	NC	**9.2E+01**
2S	VOC	Acrylonitrile	107-13-1	B1	N	Y	8					4.3E+00		6.0E-04	C	
2S	VOC	Benzene	71-43-2	A	Y	Y	8	8	1.09E-03	2.00E-03	3.00E-03	3.2E+00	9.4E-04	5.2E-03	C	5.7E-01
2S	VOC	Benzyl chloride	100-44-7		N	N	8					5.0E+00		1.8E-02	NC	
2S	VOC	Bromodichloromethane	75-27-4	B2	Y	Y	8							2.3E-03	C	
2S	VOC	Bromoform	75-25-2	B2	Y	Y	8					5.0E+00		3.7E-02	C	
2S	VOC	Bromomethane	74-83-9	D	Y	Y	8					3.9E+00		8.8E-03	NC	
2S	VOC	1,3-Butadiene	106-99-0	HC	N	N	8					2.2E+00		1.4E-03	C	
2S	VOC	1-Butanol	71-36-3	D	N	N	8	3	2.73E-03	2.80E-03	2.88E-03	3.0E+02	9.6E-06	1.6E-02	NC	1.8E-01
2S	VOC	2-Butanone	78-93-3	ID	Y	Y	8	7	2.06E-03	5.40E-03	9.44E-03	5.9E+02	1.6E-05	8.8E+00	NC	1.1E-03
2S	VOC	Carbon Disulfide	75-15-0		Y	Y	8	3	7.16E-04	1.20E-03	1.81E-03	3.1E+01	5.8E-05	1.2E+00	NC	1.5E-03
2S	VOC	Carbon Tetrachloride	56-23-5	B2	Y	Y	8					6.3E+01		2.7E-03	C	
2S	VOC	3-Chloro-1-propene	107-05-1		N	Y	8					3.0E+00				
2S	VOC	Chlorobenzene	108-90-7	D	Y	Y	8					3.5E+02		1.1E-01	NC	
2S	VOC	Chlorodifluoromethane	75-45-6		N	N	8	8	3.32E-03	2.70E-02	4.28E-02					
2S	VOC	Chloroethane	75-00-3		Y	Y	8					2.6E+03		1.8E+01	NC	
2S	VOC	Chloroform	67-66-3	B2	Y	Y	8					4.9E+01		1.8E-03	C	
2S	VOC	Chloromethane	74-87-3	D	Y	Y	8	7	1.40E-03	1.50E-03	1.65E-03	1.0E+02	1.6E-05	1.6E-01	NC	1.0E-02
2S	VOC	Cumene	98-82-8	D	Y	N	8					2.5E+02		7.0E-01	NC	
2S	VOC	Cyclohexane	110-82-7	ID	Y	N	8	2	9.29E-04	1.00E-03	1.07E-03	1.1E+03	1.0E-06	1.1E+01	NC	1.0E-04
2S	VOC	Dibromochloromethane	124-48-1	C	Y	Y	8							1.7E-03	C	
2S	VOC	1,2-Dibromoethane	106-93-4	B2	Y	Y	8					3.5E-01		1.9E-04	C	
2S	VOC	Dibromomethane	74-95-3		N	Y	8									
2S	VOC	1,2-Dichlorobenzene	95-50-1	D	Y	Y	8					1.5E+02		3.5E-01	NC	
2S	VOC	1,3-Dichlorobenzene	541-73-1	D	Y	Y	8							2.5E-01	NC	
2S	VOC	1,4-Dichlorobenzene	106-46-7	C	Y	Y	8	6	1.56E-03	2.90E-03	3.67E-03	4.5E+02	8.1E-06	6.5E-03	C	5.6E-01
2S	VOC	Dichlorodifluoromethane	75-71-8		Y	Y	8	8	3.31E-03	4.50E-03	7.42E-03	5.0E+03	1.5E-06	3.5E-01	NC	2.1E-02
2S	VOC	1,1-Dichloroethane	75-34-3	C	Y	Y	8					4.0E+02		8.8E-01	NC	
2S	VOC	1,2-Dichloroethane	107-06-2	B2	Y	Y	8					4.0E+01		1.6E-03	C	
2S	VOC	1,1-Dichloroethene	75-35-4	C	Y	Y	8					2.0E+01		3.5E-01	NC	
2S	VOC	cis-1,2-Dichloroethene	156-59-2	D	Y	N	8	4	7.14E-04	1.90E-03	2.85E-03	7.9E+02	3.6E-06	6.1E-02	NC	4.7E-02
2S	VOC	trans-1,2-Dichloroethene	156-60-5		Y	Y	8					7.9E+02		1.2E-01	NC	
2S	VOC	1,2-Dichloropropane	78-87-5	B2	Y	Y	8					3.5E+02		7.0E-03	NC	
2S	VOC	1,3-Dichloropropene (total)	542-75-6	B2	Y	Y	8					4.5E+00		1.0E-02	C	
2S	VOC	Ethyl Benzene	100-41-4	D	Y	Y	8	1	8.25E-04	8.30E-04	8.25E-04	4.4E+02	1.9E-06	1.8E+00	NC	4.7E-04
2S	VOC	Freon 114	76-14-2		N	N	8					7.0E+03				
2S	VOC	n-Heptane	142-82-5		N	N	8	7	1.20E-03	1.40E-03	1.61E-03	2.0E+03	8.1E-07			
2S	VOC	n-Hexane	110-54-3		N	N	8	7	4.93E-04	2.20E-03	2.82E-03	1.8E+03	1.6E-06	3.7E-01	NC	7.7E-03
2S	VOC	2-Hexanone	591-78-6		Y	Y	8					4.1E+02		8.8E-03	NC	
2S	VOC	Methanol	67-56-1		N	N	8	8	1.44E-02	3.80E-02	9.44E-02	2.6E+02	3.6E-04	3.1E+00	NC	3.1E-02
2S	VOC	Methyl tert-butyl ether	1634-04-4		Y	N	8					1.8E+02		4.1E-01	C	
2S	VOC	4-Methyl-2-pentanone	108-10-1	ID	Y	Y	8	2	3.89E-02	4.00E-02	4.10E-02	4.1E+02	1.0E-04	5.3E+00	NC	7.8E-03
2S	VOC	Methylene Chloride	75-09-2	B2	Y	Y	8	1	1.67E-03	1.70E-03	1.67E-03	8.7E+01	1.9E-05	8.7E-02	C	1.9E-02
2S	VOC	n-Propylbenzene	103-65-1		N	N	8							2.5E-01	NC	
2S	VOC	Styrene	100-42-5		Y	Y	8					4.3E+02		1.8E+00	NC	
2S	VOC	1,1,2,2-Tetrachloroethane	79-34-5	C	Y	Y	8					3.5E+01		7.0E-04	C	
2S	VOC	Tetrachloroethene	127-18-4	C-B2	Y	Y	8	8	1.63E-03	4.30E-03	8.14E-03	6.8E+02	1.2E-05	1.3E-02	C	6.1E-01
2S	VOC	Toluene	108-88-3	D	Y	Y	8	8	4.15E-03	7.60E-03	1.81E-02	7.5E+02	2.4E-05	7.0E-01	NC	2.6E-02
2S	VOC	1,2,4-Trichlorobenzene	120-82-1	D	Y	Y	8							3.5E-01	NC	

Table 28: On-Facility Indoor Air Screening Results
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Carc Class	TCL/ TAL	APP IX	Analyzed	Detected	Min Detected (mg/m3)	Mean Detected (mg/m3)	Max Detected (mg/m3)	Exposure Limit (mg/m3)	Ratio of Max Conc to Exposure Limit	Indoor Air Criteria (TR=E-5 & HQ =1) (mg/m3)		Ratio of Max Detect to Indoor Air Criteria
2S	VOC	1,1,1-Trichloroethane	71-55-6	D	Y	Y	8	7	1.31E-03	1.50E-03	1.86E-03	1.9E+03	9.8E-07	3.9E+00	NC	4.8E-04
2S	VOC	1,1,2-Trichloroethane	79-00-5	C	Y	Y	8					4.5E+01		2.6E-03	C	
2S	VOC	Trichloroethene	79-01-6	C-B2	Y	Y	8	4	1.29E-03	1.70E-03	2.10E-03	5.4E+02	3.9E-06	2.4E-02	C	8.7E-02
2S	VOC	Trichlorofluoromethane	75-69-4		Y	Y	8	7	1.74E-03	2.10E-03	2.87E-03	5.6E+03	5.1E-07	1.2E+00	NC	2.3E-03
2S	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1		Y	N	8	2	1.53E-03	1.60E-03	1.76E-03	7.6E+03	2.3E-07	5.3E+01	NC	3.4E-05
2S	VOC	1,2,4-Trimethylbenzene	95-63-6		N	N	8	5	9.83E-04	1.40E-03	1.52E-03			1.0E-02	NC	1.5E-01
2S	VOC	1,3,5-Trimethylbenzene	108-67-8		N	N	8							1.0E-02	NC	
2S	VOC	Vinyl Acetate	108-05-4		N	Y	8	1	4.23E-03	4.20E-03	4.23E-03	3.5E+01	1.2E-04	3.5E-01	NC	1.2E-02
2S	VOC	Vinyl Chloride	75-01-4	A	Y	Y	8					2.6E+00		4.6E-03	C	
2S	VOC	Xylenes (total)	1330-20-7	ID	Y	Y	8	8	3.37E-03	2.20E-01	3.73E-01	4.4E+02	8.6E-04	1.8E-01	NC	**2.1E+00**
2S	SVOC	Hexachlorobutadiene	87-68-3	C	Y	Y	8					2.1E-01		1.9E-03	C	
2S	SVOC	Naphthalene	91-20-3	C	Y	Y	8					5.0E+01		5.3E-03	NC	
	Notes:															
	The Screening Criteria for Trichloroethene (TCE) are calculated using the USEPA Region 9 cancer and noncancer PRGs for TCE from November 2000 instead of those from October 2002.															
	c - The Screening Criterion is based on cancer risk.															
	nc - The Screening Criterion is based on noncancer effects.															
	Chem Group - Chemical Group															
	Carc Class - EPA Weight-of-Evidence Cancer Classification															

Table 29: Scenarios for Potential Human Exposure
Vernay Laboratories, Inc., Yellow Springs, Ohio

Exposure Area & Exposure Point(s)	Receptor Population	Exposure Route	Exposure Medium	Possible Currently	Possible in Future	Comments
			On-Facility			
Vernay Laboratories, Inc. -- 875 Dayton Street Facility	Routine Workers	ingestion and dermal contact	surface soil	Yes	Yes	The main (eastern) portion of the facility is covered with building and pavement. The largest unpaved area is in the unused western portion of the facility. Potential exposure of workers may occur at unpaved areas, and (in the future) at areas where pavement is removed. Potential inhalation exposures of workers may also occur due to vapor migration to ambient air and indoor air from VOCs in soil, subsurface water and Cedarville Aquifer ground water. Potential exposure may occur as part of routine activities and/or seasonal grass mowing (grass mowing occurs approximately ten times per year).
		inhalation	particulates in air from surface soil	Yes	Yes	
		inhalation	vapor released to ambient air from soil (surface and subsurface), subsurface water and Cedarville Aquifer ground water	Yes	Yes	
		inhalation	vapor intrusion to indoor air from soil (surface and subsurface), subsurface water and Cedarville Aquifer ground water	Yes	Yes	
	Trespassers	ingestion and dermal contact	surface soil	Yes	Yes	The facility is not fully fenced, therefore, trespassers may cross the property. The main (eastern) portion of the facility is covered with building and pavement. The largest unpaved area is in the unused western portion of the facility. Potential exposure of trespassers may occur at unpaved areas, and (in the future) at areas where pavement is removed. Potential inhalation exposures may also occur due to vapor migration to ambient air from VOCs in soil, subsurface water and Cedarville Aquifer ground water (in unpaved areas).
		inhalation	particulates in air from surface soil	Yes	Yes	
		inhalation	vapor released to ambient air from soil (surface and subsurface), subsurface water and Cedarville Aquifer groundwater	Yes	Yes	
	Construction Workers (occasional excavation/maintenance)	ingestion, dermal contact and inhalation	surface and subsurface soil	Yes	Yes	Potential exposure of Vernay maintenance workers is possible to soil and subsurface water and Cedarville Aquifer ground water during excavation activities; to subsurface water during maintenance in the utility tunnel; and to surface water during maintenance of the on-Facility sewer system. Current maintenance activities consist of quarterly inspections (15-20 minutes per inspections) of the utility tunnel and occasional repair of the sump pump in the tunnel as need. Excavation activities have been limited to four events in past 15 years, each limited to approximately 5 days or less. Thus, exposure frequency is conservatively assumed to be 5 days per year for Vernay maintenance worker.
		ingestion, dermal contact and inhalation	subsurface water, sewer backfill water, and Cedarville Aquifer ground water	Yes	Yes	
		ingestion, dermal contact and inhalation	surface water (storm sewer system)	Yes	Yes	
	Redevelopment Workers	ingestion, dermal contact and inhalation	surface and subsurface soil	No	Yes	Vernay has no current plans for building construction. Future commercial/industrial site use could include the construction of a new building.
		ingestion, dermal contact and inhalation	subsurface water, sewer backfill water and Cedarville Aquifer ground	No	Yes	

Table 29: Scenarios for Potential Human Exposure
Vernay Laboratories, Inc., Yellow Springs, Ohio

Exposure Area & Exposure Point(s)	Receptor Population	Exposure Route	Exposure Medium	Possible Currently	Possible in Future	Comments
Off-Facility						
Local Off-Facility Residential Area	Residents (child and adult)	ingestion, dermal contact and inhalation	Cedarville Aquifer ground water during potable household use	Yes	Yes	Residential areas border the facility to the east and south. Several of these residential properties have ground water wells. Potential exposure of residents may occur from potable and nonpotable (e.g., lawn watering) use; emissions from unpaved on-Facility soils vapor intrusion into indoor air from subsurface water; and Cedarville Aquifer ground water in areas where VOCs exist.
			Cedarville Aquifer ground water during nonpotable/outdoor use	Yes	Yes	
		Inhalation	vapor intrusion to indoor air from subsurface water and Cedarville Aquifer ground water	Yes	Yes	
		Inhalation	vapor and particulates in ambient air from soils on the facility	Yes	Yes	
	Recreator	ingestion, dermal contact and inhalation	surface water and sediments in Unnamed Creek	Yes	Yes	The Off-Facility Recreator scenario evaluates potential residential exposures to surface water and sediments in an Unnamed Creek located in the study area as described in detail in Appendix VI.
	Construction Workers (occasional excavation/maintenance)	ingestion, dermal contact and inhalation	subsurface water, sewer backfill water, and Cedarville Aquifer ground water	Yes	Yes	A municipal storm sewer line crosses the facility property and discharges to an Unnamed Creek northeast of the facility. Potential exposure of off-facility utility maintenance and construction workers is possible to subsurface water, sewer backfill water and Cedarville Aquifer ground water in excavations; to surface water in maintenance of the off-Facility storm sewer system; and in sediments and surface water in the Unnamed Creek .
		ingestion, dermal contact and inhalation	surface water and sediments	Yes	Yes	

Table 30 Bounding Estimates and High-End Cumulative Cancer Risk and Hazard Index for Routine Worker Exposure to On-Facility Soil Vernay Laboratories Inc. Yellow Springs, Ohio

	Bounding Estimates of Risk		Estimates of High-End Risk	
Area	**Industrial Cumulative**	**Industrial HI**	**Industrial Cumulative Risk**	**Industrial HI**
1	**7E-04**	**2E+01**	5E-05	5E-01
2N	1E-04	4E-01	NA	NA
2S	**4E-04**	**2E+00**	6E-05	1E+00
3	1E-07	1E-03	NA	NA
3A	1E-04	4E-01	NA	NA
4	8E-09	8E-04	NA	NA
Notes:				

1. Bounding estimates of cumulative cancer risk and HI are based on the maximum detected concentrations in any soil depth interval.

2. High-end cumulative risk estimates for soil are based on maximum soil concentrations at any depth interval or the 95% UCL on the mean for the constituents in soil at 0-15' depth interval that contributed most significantly to the cumulative risk estimate.

3. NA indicates that the bounding estimates were acceptable, therefore no high-end risks were calculated.

Table 31 Evaluation of Routine Worker Exposure to On-Facility Soil Via Vapor Intrusion
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Sum of Ratios of Soil Concentrations to Occupational Vapor Intrusion Criteria
1	2.71E-02
2N	1.33E-03
2S	1.35E-01
Notes:	
1.The evaulation is based on the maximum detected concentrations in surface or subsurface soil.	

Table 32 Evaluation of Routine Worker Exposure to On-Facility Subsurface Water or Cedarville Aquifer Ground Water Via Vapor Intrusion Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Sum of Ratios of Groundwater or Direct Push Water Concentrations to Occupational Vapor Intrusion Criteria
1	3.81E-07
2N	1.36E-05
2S	1.51E-05
5A	9.75E-05
Notes:	
1. The evaluation is based on the maximum detected concentrations in direct push or monitoring wells.	

Table 33 Bounding Estimates of Cumulative Cancer Risk and Hazard Index for Routine Worker Exposure to On-Facility Soil Via Vapor Intrustion
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Cumulative Risk	HI
1	**2E-04**	**1E+03**
2N	**5E-04**	1E+00
2S	**2E-02**	**8E+01**
Notes:		
1. Bounding estimates of cumulative cancer risk and HI are based on the maximum detected concentrations in surface or subsurface soil.		

Table 34 Bounding Estimates of Cumulative Cancer Risk and Hazard Index for Routine Worker to On-Facility Subsurface Water or Cedarville Aquifer Ground Water Via Vapor Intrusion		
Area	**Cumulative Cancer Risk**	**HI**
1	1E-07	1E-03
2N	6E-06	2E-02
2S	1E-04	1E+00
5A	1E-04	1E+00
Notes:		
1. Bounding estimates of cumulative cancer risk and HI are based on the maximum detected concentrations in direct push water or monitoring wells.		

Table 35a Evaluation of Routine Worker Exposure to On-Facility Air (Direct Measurement) - Occupational Criteria Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Sum of Ratios of Air Concentrations to Occupational Criteria
2S	1.55E-02
Notes:	
1. The evaluation is based on the maximum detected concentrations in direct measurement of indoor air.	

Table 35b Estimates of Cumulative Cancer Risk and Hazard Index for Routine Worker Exposure to On-Facility Indoor Air (Direct Measurement) Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Cumulative Risk	HI
2S	2E-05	**9E+01**
Notes:		
1. Bounding estimates of cumulative cancer risk and HI are based on the maximum detected concentrations in direct measurement of indoor air.		

Table 36 Bounding Estimates of Cumulative Cancer Risk and Hazard Index for Construction Worker Exposures to On-Facility Subsurface Water
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Cumulative Risk	HI
1	1E-07	4E-03
2N	7E-06	7E-02
2S - Subsurface Water	5E-06	2E-01
2S - Sewer Water	1E-07	2E-02
Notes:		
1. Bounding estimates of cumulative cancer risk and HI are based on the maximum detected concentrations in direct push water in sand seams or sewer backfill.		

Table 37 Bounding Estimates of Cumulative Cancer Risk and Hazard Index for Hypothetical Exposure of Off-Facility Residents to Subsurface Water or Cedarville Aquifer Ground Water Via Vapor Intrusion
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Cumulative Risk	HI
3	2E-08	1E-03
3A	3E-06	7E-03
5B	9E-08	1E-03
Notes:		
1. Bounding estimates of cumulative cancer risk and HI are based on the maximum detected concentrations in either direct push water or monitoring wells.		

Table 38 Bounding Estimates of Cumulative Cancer Risk and Hazard Index for Residential Exposures to On-Facility Cedarville Aquifer Ground Water via Vapor Intrusion Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Cumulative Risk	HI
5A	**3E-04**	**2E+00**
Notes:		
1. Bounding estimates of cumulative cancer risk and HI are based on the maximum detected concentrations in monitoring wells or direct push water.		

Table 39 Bounding Estimates of Cumulative Cancer Risk and Hazard Index for Construction Worker Exposure to Off-Facility Soil and Sediment Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Cumulative Risk	HI
3	1E-07	1E-03
3A	1E-04	4E-01
4	8E-09	8E-04
Notes:		
1. Bounding estimates of cumulative cancer risk and HI are based on the maximum detected concentrations in any depth interval.		
2. Routine Worker Exposure Cumulative Risk and HI were used as a surrogate for the Construction Worker Exposure.		

Table 40 Bounding Estimates of Cumulative Cancer Risk and Hazard Index for Construction Worker Exposures to Off-Facility Subsurface Water
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Cumulative Risk	HI
3	8E-10	3E-05
3A	1E-06	1E-02
Notes:		
1. Bounding estimates of cumulative cancer risk and HI are based on the maximum detected concentrations in direct push water.		

Table 41 Bounding Estimates of Cumulative Cancer Risk and Hazard Index for Construction Worker Exposures to Off-Facility Sewer Water or Surface Water Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Cumulative Risk	HI
3A	5E-07	7E-03
4	6E-08	6E-04
Notes:		
1. Bounding estimates of cumulative cancer risk and HI are based on the maximum detected concentrations in sewer water or surface water.		

Table 42 - Conceptual Site Model Describing the Potential for Exposures to Ecological Receptors
Vernay Laboratories, Inc., Yellow Springs, Ohio

Exposure Area	Exposure Medium	Potential Ecological Populations	Potential Exposure Routes	Complete Exposure Pathway? (1)		Comments
				Possible Current	Possible Future	
On-Facility						
Vernay Laboratories, Inc. -- 875 Dayton Street Facility	Surface soil	Song birds	direct contact; indirect contact via forage and prey consumption	No	No	At present, the property currently consists of paved parking lots and walkways, office and manufacturing buildings, and landscaped grounds. Landscaping includes grass lawns and perennial shrubbery. There is no surface water on-site. Contaminated ground water has not been identified beneath grass lawns. There is no evidence of small and large mammal or avian forage or habitat. The facility is bounded by roadways and an unrelated commercial facility. Future use of the property is anticipated to remain similar to existing conditions.
	Surface water and sediments	None	None	No	No	
	Air	None	None	No	No	
	Ground water	None	None	No	No	
Off-Facility						
Local Off-Facility Residential Area	Surface soil	None	None	No	No	Ground water from the site enters a subsurface roadside storm water pipe and discharges into an unnamed creek. The unnamed creek flows intermittently through agricultural and residential lands. The unnamed creek discharges into Yellow Spring Creek, located approximately 1-mile downstream from the storm water outfall. There is no other surface water in the area. At creek monitoring locations, the depth of the creek is less than approximately 4 inches and water flow is perceptible, but generally slow (approximately 1 foot per 10 seconds). The creek bed and banks contain some small gravel cobble and silty muds. There is no evidence of chemical or petroleum residues in the water, sediment bed, or along the creek banks (e.g., distressed vegetation or oil-like sheen). Pioneer trees, fruiting vines, and short-stem leafy vegetation grows along both creek banks and generally reaches the water line. There is some evidence of small and large mammal and avian forage and habitat along the unnamed stream, but no evidence of small and large mammal activity along the banks of the creek. A common species of frog inhabits the creek. Small fish (approximately 1 to 2 inches in length) are found only at the furthest creek monitoring location where the depth of water in pools adjacent to a roadway is less than approximately 6 to 10 inches. Sensitive, threatened, or endangered (ESA) species listed by Ohio EPA have been identified in the region; however, habitat conditions both on-site and off-site do not support critical habitats and do not appear to support any ESA species.
	Surface water and sediments	Song birds, small and large mammals, amphibians and reptiles, small fish	direct contact; indirect contact via forage and prey consumption	No	No	
	Air	None	None	No	No	
	Ground Water	None	None	No	No	

(1) Although individual organisms could be exposed to constituents from the Facility, no complete exposure pathway was identified in the context of potential impacts to a population, ecosystem or critical habitat.

Table 43-1a: On-Facility Soil Screening-Level ERA, Results 0-2 ft
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Analyzed	Detected	Min Detected (mg/kg)	Mean Detected (mg/kg)	Max Detected (mg/kg)	ESL Soil (a) (mg/kg)	Maximum HQ Soil (b) (unitless)
1	VOC	Acetone	67-64-1	20	3	1.80E-02	2.90E-02	5.00E-02	2.50E+00	2.0E-02
1	VOC	2-Butanone	78-93-3	20	2	3.80E-03	7.90E-03	1.20E-02	8.96E+01	1.0E-04
1	VOC	1,2-Dichloropropane	78-87-5	20	1	5.60E-02	5.60E-02	5.60E-02	3.27E+01	2.0E-03
1	VOC	4-Methyl-2-pentanone	108-10-1	20	2	6.00E-04	7.30E-04	8.60E-04	4.43E+02	2.0E-06
1	VOC	Methylene Chloride	75-09-2	20	7	2.60E-03	9.80E-03	2.40E-02	4.05E+00	6.0E-03
1	VOC	Tetrachloroethene	127-18-4	20	4	6.70E-04	1.50E-02	4.40E-02	9.92E+00	4.0E-03
1	VOC	Toluene	108-88-3	20	7	2.70E-04	9.10E-04	1.80E-03	5.45E+00	3.0E-04
1	VOC	Trichloroethene	79-01-6	20	2	7.10E-04	5.10E-03	9.50E-03	1.24E+01	8.0E-04
1	VOC	Xylenes (total)	1330-20-7	20	2	1.40E-03	1.90E-03	2.40E-03	1.00E+01	2.0E-04
1	SVOC	Acenaphthylene	208-96-8	21	3	3.70E-02	1.90E-01	4.40E-01	6.82E+02	6.0E-04
1	SVOC	Anthracene	120-12-7	21	4	3.50E-02	9.40E-02	2.50E-01	1.48E+03	2.0E-04
1	SVOC	Benzo(a)anthracene	56-55-3	21	15	1.70E-02	1.10E+00	4.60E+00	5.21E+00	9.0E-01
1	SVOC	Benzo(a)pyrene	50-32-8	21	15	2.00E-02	1.30E+00	4.50E+00	1.52E+00	**3.0E+00**
1	SVOC	Benzo(b)fluoranthene	205-99-2	21	16	2.90E-02	1.40E+00	4.80E+00	5.98E+01	8.0E-02
1	SVOC	Benzo(g,h,i)perylene	191-24-2	21	12	1.80E-02	6.10E-01	2.10E+00	1.19E+02	2.0E-02
1	SVOC	Benzo(k)fluoranthene	207-08-9	21	14	2.90E-02	6.70E-01	2.10E+00	1.48E+02	1.0E-02
1	SVOC	Carbazole	86-74-8	14	1	1.80E-01	1.80E-01	1.80E-01		
1	SVOC	Chrysene	218-01-9	21	16	2.60E-02	1.10E+00	3.60E+00	4.73E+00	8.0E-01
1	SVOC	Dibenz(a,h)anthracene	53-70-3	21	7	1.10E-02	4.00E-01	1.60E+00	1.84E+01	9.0E-02
1	SVOC	Fluoranthene	206-44-0	21	17	1.70E-02	2.70E+00	1.30E+01	1.22E+02	1.0E-01
1	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	21	15	1.90E-02	8.00E-01	2.80E+00	1.09E+02	3.0E-02
1	SVOC	Phenanthrene	85-01-8	21	9	1.70E-02	6.40E-01	3.10E+00	4.57E+01	7.0E-02
1	SVOC	Pyrene	129-00-0	21	17	3.40E-02	3.00E+00	1.80E+01	7.85E+01	2.0E-01
1	INORG	Arsenic	7440-38-2	11	11	5.50E+00	8.00E+00	1.07E+01	5.70E+00	**2.0E+00**
1	INORG	Barium	7440-39-3	8	8	3.26E+01	8.80E+01	1.99E+02	1.04E+00	**2.0E+02**
1	INORG	Chromium (total)	7440-47-3	7	7	7.50E+00	1.10E+01	1.68E+01	4.00E-01	**4.0E+01**
1	INORG	Copper	7440-50-8	4	4	9.80E+00	1.30E+01	1.59E+01	5.40E+00	**3.0E+00**
1	INORG	Lead	7439-92-1	7	7	1.12E+01	2.10E+01	4.63E+01	5.37E-02	**9.0E+02**
1	INORG	Selenium	7782-49-2	7	1	8.00E-01	8.00E-01	8.00E-01	2.76E-02	**3.0E+01**
1	INORG	Zinc	7440-66-6	4	4	3.10E+01	4.70E+01	5.83E+01	6.62E+00	**9.0E+00**
2N	VOC	Acetone	67-64-1	19	5	5.50E-03	1.10E-02	1.90E-02	2.50E+00	8.0E-03
2N	VOC	2-Butanone	78-93-3	19	3	1.90E-03	3.30E-03	4.00E-03	8.96E+01	4.0E-05
2N	VOC	cis-1,2-Dichloroethene	156-59-2	19	2	1.30E-03	3.50E-02	6.90E-02	7.84E-01	9.0E-02

Table 43-1a: On-Facility Soil Screening-Level ERA, Results 0-2 ft
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Analyzed	Detected	Min Detected (mg/kg)	Mean Detected (mg/kg)	Max Detected (mg/kg)	ESL Soil (a) (mg/kg)	Maximum HQ Soil (b) (unitless)
2N	VOC	4-Methyl-2-pentanone	108-10-1	19	1	9.90E-04	9.90E-04	9.90E-04	4.43E+02	2.0E-06
2N	VOC	Methylene Chloride	75-09-2	19	3	4.70E-03	9.60E-02	2.70E-01	4.05E+00	7.0E-02
2N	VOC	Tetrachloroethene	127-18-4	19	7	3.10E-03	9.70E-02	4.80E-01	9.92E+00	5.0E-02
2N	VOC	Toluene	108-88-3	19	7	3.10E-04	1.00E-02	6.50E-02	5.45E+00	1.0E-02
2N	VOC	1,2,4-Trichlorobenzene	120-82-1	18	1	9.90E-04	9.90E-04	9.90E-04	1.11E+01	9.0E-05
2N	VOC	Trichloroethene	79-01-6	19	2	4.50E-04	5.20E-04	5.90E-04	1.24E+01	5.0E-05
2N	VOC	Vinyl Chloride	75-01-4	19	1	2.40E-03	2.40E-03	2.40E-03	6.46E-01	4.0E-03
2N	VOC	Xylenes (total)	1330-20-7	19	2	1.10E-03	1.30E-03	1.50E-03	1.00E+01	2.0E-04
2N	SVOC	Benzo(a)anthracene	56-55-3	5	1	7.30E-03	7.30E-03	7.30E-03	5.21E+00	1.0E-03
2N	SVOC	Benzo(b)fluoranthene	205-99-2	5	1	1.30E-02	1.30E-02	1.30E-02	5.98E+01	2.0E-04
2N	SVOC	Benzo(k)fluoranthene	207-08-9	5	1	5.30E-03	5.30E-03	5.30E-03	1.48E+02	4.0E-05
2N	SVOC	Chrysene	218-01-9	5	1	8.90E-03	8.90E-03	8.90E-03	4.73E+00	2.0E-03
2N	SVOC	Fluoranthene	206-44-0	5	1	5.00E-02	5.00E-02	5.00E-02	1.22E+02	4.0E-04
2N	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	5	1	8.50E-03	8.50E-03	8.50E-03	1.09E+02	8.0E-05
2N	SVOC	Pyrene	129-00-0	5	3	9.60E-03	2.60E-02	4.90E-02	7.85E+01	6.0E-04
2N	INORG	Arsenic	7440-38-2	8	8	6.70E+00	9.00E+00	1.17E+01	5.70E+00	**2.0E+00**
2N	INORG	Barium	7440-39-3	5	5	4.60E+01	7.20E+01	9.08E+01	1.04E+00	**9.0E+01**
2N	INORG	Chromium (total)	7440-47-3	5	5	7.10E+00	1.30E+01	1.87E+01	4.00E-01	**5.0E+01**
2N	INORG	Copper	7440-50-8	3	3	9.60E+00	1.40E+01	1.66E+01	5.40E+00	**3.0E+00**
2N	INORG	Lead	7439-92-1	5	5	6.10E+00	1.00E+01	1.41E+01	5.37E-02	**3.0E+02**
2N	INORG	Selenium	7782-49-2	5	2	6.50E-01	6.90E-01	7.30E-01	2.76E-02	**3.0E+01**
2N	INORG	Zinc	7440-66-6	3	3	3.43E+01	5.80E+01	8.98E+01	6.62E+00	**1.0E+01**
2S	VOC	Acetone	67-64-1	57	11	5.30E-03	2.30E-02	6.10E-02	2.50E+00	2.0E-02
2S	VOC	Benzene	71-43-2	58	4	4.20E-04	5.60E-04	9.60E-04	2.55E-01	4.0E-03
2S	VOC	2-Butanone	78-93-3	57	4	1.40E-03	5.60E-03	1.30E-02	8.96E+01	1.0E-04
2S	VOC	Carbon Disulfide	75-15-0	58	1	1.40E-03	1.40E-03	1.40E-03	9.41E-02	1.0E-02
2S	VOC	Cumene	98-82-8	30	2	1.80E-03	6.40E-03	1.10E-02		
2S	VOC	Cyclohexane	110-82-7	30	1	2.00E-03	2.00E-03	2.00E-03		
2S	VOC	1,2-Dichlorobenzene	95-50-1	36	2	2.20E-03	2.30E-03	2.30E-03	2.96E+00	8.0E-04
2S	VOC	1,2-Dichloroethene (total)	540-59-0	28	1	3.10E+00	3.10E+00	3.10E+00	7.84E-01	**4.0E+00**
2S	VOC	cis-1,2-Dichloroethene	156-59-2	58	10	2.00E-03	3.80E-01	3.10E+00	7.84E-01	**4.0E+00**
2S	VOC	Ethyl Benzene	100-41-4	58	4	4.20E-04	1.00E-02	3.80E-02	5.16E+00	7.0E-03
2S	VOC	4-Methyl-2-pentanone	108-10-1	58	5	2.00E-03	3.20E-03	6.10E-03	4.43E+02	1.0E-05

Table 43-1a: On-Facility Soil Screening-Level ERA, Results 0-2 ft
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Analyzed	Detected	Min Detected (mg/kg)	Mean Detected (mg/kg)	Max Detected (mg/kg)	ESL Soil (a) (mg/kg)	Maximum HQ Soil (b) (unitless)
2S	VOC	Methylcyclohexane	108-87-2	30	3	6.20E-04	1.90E-03	2.70E-03		
2S	VOC	Methylene Chloride	75-09-2	58	6	2.10E-03	3.90E-01	2.30E+00	4.05E+00	6.0E-01
2S	VOC	Tetrachloroethene	127-18-4	58	28	1.50E-03	5.10E+00	8.20E+01	9.92E+00	**8.0E+00**
2S	VOC	Toluene	108-88-3	58	16	2.90E-04	1.70E-03	4.60E-03	5.45E+00	8.0E-04
2S	VOC	1,2,4-Trichlorobenzene	120-82-1	36	2	3.50E-04	4.80E-04	6.00E-04	1.11E+01	5.0E-05
2S	VOC	Trichloroethene	79-01-6	58	10	5.30E-04	4.30E-01	2.20E+00	1.24E+01	2.0E-01
2S	VOC	Vinyl Chloride	75-01-4	58	2	1.40E-03	1.80E-02	3.40E-02	6.46E-01	5.0E-02
2S	VOC	Xylenes (total)	1330-20-7	58	4	1.40E-03	3.90E-02	1.00E-01	1.00E+01	1.0E-02
2S	SVOC	Acenaphthylene	208-96-8	46	4	3.80E-02	1.50E-01	3.50E-01	6.82E+02	5.0E-04
2S	SVOC	Anthracene	120-12-7	46	1	8.10E-03	8.10E-03	8.10E-03	1.48E+03	5.0E-06
2S	SVOC	Benzo(a)anthracene	56-55-3	46	21	5.60E-03	4.50E-01	5.60E+00	5.21E+00	1.0E+00
2S	SVOC	Benzo(a)pyrene	50-32-8	46	19	5.40E-03	4.80E-01	5.60E+00	1.52E+00	**4.0E+00**
2S	SVOC	Benzo(b)fluoranthene	205-99-2	46	23	5.80E-03	4.20E-01	5.40E+00	5.98E+01	9.0E-02
2S	SVOC	Benzo(g,h,i)perylene	191-24-2	46	13	1.10E-02	2.80E-01	1.60E+00	1.19E+02	1.0E-02
2S	SVOC	Benzo(k)fluoranthene	207-08-9	46	24	2.00E-03	1.60E-01	2.20E+00	1.48E+02	1.0E-02
2S	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	13	4	6.90E-02	5.50E-01	1.80E+00	9.25E-01	**2.0E+00**
2S	SVOC	Chrysene	218-01-9	46	21	5.80E-03	5.00E-01	6.00E+00	4.73E+00	1.0E+00
2S	SVOC	Dibenz(a,h)anthracene	53-70-3	46	6	1.00E-02	6.00E-01	2.40E+00	1.84E+01	1.0E-01
2S	SVOC	Fluoranthene	206-44-0	46	20	3.00E-03	1.40E+00	1.70E+01	1.22E+02	1.0E-01
2S	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	46	21	5.80E-03	3.40E-01	3.50E+00	1.09E+02	3.0E-02
2S	SVOC	2-Methylnaphthalene	91-57-6	43	1	2.30E+01	2.30E+01	2.30E+01	3.24E+00	**7.0E+00**
2S	SVOC	Naphthalene	91-20-3	46	3	4.10E-02	1.10E+00	3.20E+00	9.94E-02	**3.0E+01**
2S	SVOC	Phenanthrene	85-01-8	46	8	3.30E-03	2.70E+00	1.90E+01	4.57E+01	4.0E-01
2S	SVOC	Pyrene	129-00-0	46	35	4.50E-03	9.40E-01	2.10E+01	7.85E+01	3.0E-01
2S	INORG	Arsenic	7440-38-2	50	50	1.10E+00	7.80E+00	2.28E+01	5.70E+00	**4.0E+00**
2S	INORG	Barium	7440-39-3	35	33	1.22E+01	6.50E+01	1.13E+02	1.04E+00	**1.0E+02**
2S	INORG	Cadmium	7440-43-9	35	5	6.70E-02	4.40E-01	1.60E+00	2.22E-03	**7.0E+02**
2S	INORG	Chromium (total)	7440-47-3	35	35	4.00E+00	1.20E+01	1.90E+01	4.00E-01	**5.0E+01**
2S	INORG	Copper	7440-50-8	17	17	4.10E+00	1.20E+01	2.31E+01	5.40E+00	**4.0E+00**
2S	INORG	Lead	7439-92-1	36	36	1.20E+00	1.50E+01	1.02E+02	5.37E-02	**2.0E+03**
2S	INORG	Mercury	7439-97-6	35	3	3.90E-02	7.20E-02	1.30E-01	1.00E-01	1.0E+00
2S	INORG	Selenium	7782-49-2	35	5	5.00E-01	6.30E-01	7.30E-01	2.76E-02	**3.0E+01**
2S	INORG	Zinc	7440-66-6	17	17	8.30E+00	3.80E+01	6.05E+01	6.62E+00	**9.0E+00**

Table 43-1a: On-Facility Soil Screening-Level ERA, Results 0-2 ft Vernay Laboratories Inc. Yellow Springs, Ohio										
Area	**Chem Group**	**Chemical**	**CASRN**	**Analyzed**	**Detected**	**Min Detected (mg/kg)**	**Mean Detected (mg/kg)**	**Max Detected (mg/kg)**	**ESL Soil (a) (mg/kg)**	**Maximum HQ Soil (b) (unitless)**
Notes:										
a	Region V Ecological Screening Levels (ESLs), (2003).									
b	Hazard quotient (HQ) is the ratio of the maximum detected concentration to the ESL (rounded to one significant figure).									
ERA	Ecological Risk Assessment.									
The screening value for trans 1,2-Dichloroethene was used for 1,2-Dichloroethene (total) and cis-1,2-Dichloroethene.										

Table 43-1b: On-Facility Surface Water Screening-Level ERA Results
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Analyzed	Detected	Min Detected (mg/L)	Mean Detected (mg/L)	Max Detected (mg/L)	ESL Surface Water (a) (mg/L)	Maximum HQ Surface Water (b) (unitless)
2S	VOC	1,2-Dichloroethene (total)	540-59-0	12	12	4.80E-03	4.60E-02	2.20E-01	9.70E-01	2.0E-01
2S	VOC	cis-1,2-Dichloroethene	156-59-2	12	12	4.80E-03	4.50E-02	2.20E-01	9.70E-01	2.0E-01
2S	VOC	Tetrachloroethene	127-18-4	12	12	8.20E-03	4.60E-02	9.30E-02	4.50E-02	**2.0E+00**
2S	VOC	Trichloroethene	79-01-6	12	12	2.80E-03	1.40E-02	4.90E-02	4.70E-02	1.0E+00
2S	VOC	Vinyl Chloride	75-01-4	12	1	4.10E-03	4.10E-03	4.10E-03	9.30E-01	4.0E-03

Notes:

a Region V Ecological Screening Levels (ESLs), (2003).

b Hazard quotient (HQ) is the ratio of the maximum detected concentration to the ESL (rounded to one significant figure).

ERA Ecological Risk Assessment.

The surface water values are based on a total constituent concentration.

The screening value for trans 1,2-Dichloroethene was used for 1,2-Dichloroethene (total) and cis-1,2-Dichloroethene.

Table 43-2a: Off-Facility Soil Screening-Level ERA Results - 0-2 ft
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Analyzed	Detected	Min Detected (mg/kg)	Mean Detected (mg/kg)	Max Detected (mg/kg)	ESL - Soil (a) (mg/kg)	Maximum HQ - Soil (b) (unitless)
3	VOC	Methylene Chloride	75-09-2	3	3	3.30E-03	4.10E-03	4.60E-03	4.05E+00	1.0E-03
3	VOC	Toluene	108-88-3	3	3	1.00E-03	1.20E-03	1.40E-03	5.45E+00	3.0E-04
3	SVOC	Caprolactam	105-60-2	1	1	1.80E-02	1.80E-02	1.80E-02		
3	INORG	Lead	7439-92-1	1	1	1.41E+01	1.40E+01	1.41E+01	5.37E-02	**3.0E+02**
3A	VOC	Acetone	67-64-1	22	2	5.50E-03	8.80E-03	1.20E-02	2.50E+00	5.0E-03
3A	VOC	2-Butanone	78-93-3	22	2	1.90E-03	2.50E-03	3.00E-03	8.96E+01	3.0E-05
3A	VOC	cis-1,2-Dichloroethene	156-59-2	22	1	1.30E-03	1.30E-03	1.30E-03	7.84E-01	2.0E-03
3A	VOC	Methylene Chloride	75-09-2	22	7	3.20E-03	4.30E-02	2.70E-01	4.05E+00	7.0E-02
3A	VOC	Tetrachloroethene	127-18-4	22	9	8.70E-04	8.00E-02	4.80E-01	9.92E+00	5.0E-02
3A	VOC	Toluene	108-88-3	22	14	3.10E-04	5.40E-03	6.50E-02	5.45E+00	1.0E-02
3A	VOC	Trichloroethene	79-01-6	22	4	4.50E-04	6.60E-04	1.00E-03	1.24E+01	8.0E-05
3A	VOC	Xylenes (total)	1330-20-7	22	1	1.50E-03	1.50E-03	1.50E-03	1.00E+01	2.0E-04
3A	SVOC	Acenaphthylene	208-96-8	12	4	3.80E-02	1.70E-01	4.40E-01	6.82E+02	6.0E-04
3A	SVOC	Anthracene	120-12-7	12	3	8.10E-03	1.00E-01	2.50E-01	1.48E+03	2.0E-04
3A	SVOC	Benzo(a)anthracene	56-55-3	12	8	8.90E-03	6.00E-01	2.40E+00	5.21E+00	5.0E-01
3A	SVOC	Benzo(a)pyrene	50-32-8	12	9	9.00E-03	6.70E-01	3.30E+00	1.52E+00	**2.0E+00**
3A	SVOC	Benzo(b)fluoranthene	205-99-2	12	9	9.90E-03	7.00E-01	4.10E+00	5.98E+01	7.0E-02
3A	SVOC	Benzo(g,h,i)perylene	191-24-2	12	7	1.10E-02	5.20E-01	2.10E+00	1.19E+02	2.0E-02
3A	SVOC	Benzo(k)fluoranthene	207-08-9	12	9	4.00E-03	3.90E-01	2.10E+00	1.48E+02	1.0E-02
3A	SVOC	Carbazole	86-74-8	4	1	1.80E-01	1.80E-01	1.80E-01		
3A	SVOC	Chrysene	218-01-9	12	9	5.80E-03	6.40E-01	3.00E+00	4.73E+00	6.0E-01
3A	SVOC	Dibenz(a,h)anthracene	53-70-3	12	5	1.00E-02	3.80E-01	9.00E-01	1.84E+01	5.0E-02
3A	SVOC	Fluoranthene	206-44-0	12	8	1.70E-02	1.50E+00	5.60E+00	1.22E+02	5.0E-02
3A	SVOC	Indeno(1,2,3-cd)pyrene	193-39-5	12	9	6.60E-03	4.50E-01	1.90E+00	1.09E+02	2.0E-02
3A	SVOC	Naphthalene	91-20-3	12	1	1.90E-01	1.90E-01	1.90E-01	9.94E-02	**2.0E+00**
3A	SVOC	Phenanthrene	85-01-8	12	4	3.40E-02	5.30E-01	1.80E+00	4.57E+01	4.0E-02
3A	SVOC	Pyrene	129-00-0	12	10	1.60E-02	1.20E+00	5.60E+00	7.85E+01	7.0E-02
3A	INORG	Arsenic	7440-38-2	11	11	1.10E+00	7.90E+00	1.24E+01	5.70E+00	**2.0E+00**
3A	INORG	Barium	7440-39-3	8	8	3.26E+01	6.80E+01	1.09E+02	1.04E+00	**1.0E+02**
3A	INORG	Chromium (total)	7440-47-3	7	7	9.70E+00	1.40E+01	1.84E+01	4.00E-01	**5.0E+01**
3A	INORG	Copper	7440-50-8	3	3	8.40E+00	1.40E+01	2.24E+01	5.40E+00	**4.0E+00**
3A	INORG	Lead	7439-92-1	7	7	9.40E+00	3.60E+01	1.02E+02	5.37E-02	**2.0E+03**
3A	INORG	Mercury	7439-97-6	7	2	3.90E-02	8.50E-02	1.30E-01	1.00E-01	1.0E+00

Table 43-2a: Off-Facility Soil Screening-Level ERA Results - 0-2 ft
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Analyzed	Detected	Min Detected (mg/kg)	Mean Detected (mg/kg)	Max Detected (mg/kg)	ESL - Soil (a) (mg/kg)	Maximum HQ - Soil (b) (unitless)
3A	INORG	Selenium	7782-49-2	7	2	5.00E-01	5.10E-01	5.20E-01	2.76E-02	**2.0E+01**
3A	INORG	Zinc	7440-66-6	3	3	3.10E+01	4.50E+01	5.87E+01	6.62E+00	**9.0E+00**
Notes:										
a	Region V Ecological Screening Levels (ESLs), (2003).									
b	Hazard quotient (HQ) is the ratio of the maximum detected concentration to the ESL (rounded to one significant figure).									
ERA	Ecological Risk Assessment.									
The screening value for trans 1,2-Dichloroethene was used for 1,2-Dichloroethene (total) and cis-1,2-Dichloroethene.										

Table 43-2b: Sediment Screening Screening-Level ERA Results
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical	CASRN	Analyzed	Detected	Min Detected (mg/kg)	Mean Detected (mg/kg)	Max Detected (mg/kg)	ESL - Sediment (a) (mg/kg)	Maximum HQ - Sediment (b) (unitless)
4	VOC	Acetone	67-64-1	13	1	3.30E-02	3.30E-02	3.30E-02	0.0099	**3.0E+00**
4	VOC	1,2-Dichloroethene (total)	540-59-0	12	3	5.90E-03	2.10E-02	3.90E-02	0.657	6.0E-02
4	VOC	cis-1,2-Dichloroethene	156-59-2	13	4	5.00E-03	1.70E-02	3.90E-02	0.657	6.0E-02
4	VOC	Tetrachloroethene	127-18-4	13	5	3.00E-03	8.90E-03	1.40E-02	0.99	1.0E-02
4	VOC	Trichloroethene	79-01-6	13	2	6.80E-03	1.50E-02	2.30E-02	0.112	2.0E-01

Notes:

a Region V Ecological Screening Levels (ESLs), (2003).

b Hazard quotient (HQ) is the ratio of the maximum detected concentration to the ESL (rounded to one significant figure).

ERA Ecological Risk Assessment.

The screening value for trans 1,2-Dichloroethene was used for 1,2-Dichloroethene (total) and cis-1,2-Dichloroethene.

Table 43-2c: Off-Facility Surface Water Screening-Level ERA Results

Area	Chem Group	Chemical	CASRN	Analyzed	Detected	Min Detected (mg/L)	Mean Detected (mg/L)	Max Detected (mg/L)	ESL - Surface Water (a) (mg/L)	Maximum HQ - Surface Water (b) (unitless)
3A	VOC	Acetone	67-64-1	16	1	2.00E-02	2.00E-02	2.00E-02	1.70E+00	1.0E-02
3A	VOC	1,2-Dichloroethene (total)	540-59-0	16	9	1.50E-03	1.50E-02	3.20E-02	9.70E-01	3.0E-02
3A	VOC	cis-1,2-Dichloroethene	156-59-2	16	10	1.50E-03	1.50E-02	3.10E-02	9.70E-01	3.0E-02
3A	VOC	Tetrachloroethene	127-18-4	17	13	8.20E-03	1.60E-01	5.60E-01	4.50E-02	**1.0E+01**
3A	VOC	Trichloroethene	79-01-6	17	10	1.10E-03	5.10E-03	9.60E-03	4.70E-02	2.0E-01
3A	SVOC	Acenaphthylene	208-96-8	2	1	1.50E-02	1.50E-02	1.50E-02	4.84E+00	3.0E-03
3A	SVOC	Benzo(b)fluoranthene	205-99-2	2	1	1.70E-04	1.70E-04	1.70E-04	9.07E-03	2.0E-02
3A	SVOC	Benzo(g,h,i)perylene	191-24-2	2	1	1.60E-04	1.60E-04	1.60E-04	7.64E-03	2.0E-02
3A	SVOC	Benzo(k)fluoranthene	207-08-9	2	1	7.20E-05	7.20E-05	7.20E-05		
3A	SVOC	Chrysene	218-01-9	2	1	1.30E-04	1.30E-04	1.30E-04		
3A	SVOC	Fluoranthene	206-44-0	2	1	3.80E-04	3.80E-04	3.80E-04	1.90E-03	2.0E-01
3A	SVOC	Pyrene	129-00-0	2	1	3.70E-04	3.70E-04	3.70E-04	3.00E-04	1.0E+00
4	VOC	Acetone	67-64-1	13	2	7.80E-04	1.20E-03	1.60E-03	1.70E+00	9.0E-04
4	VOC	1,2-Dichloroethene (total)	540-59-0	8	1	1.20E-03	1.20E-03	1.20E-03	9.70E-01	1.0E-03
4	VOC	cis-1,2-Dichloroethene	156-59-2	13	6	3.10E-04	7.90E-04	1.20E-03	9.70E-01	1.0E-03
4	VOC	Methylene Chloride	75-09-2	13	1	5.20E-04	5.20E-04	5.20E-04	9.40E-01	6.0E-04
4	VOC	Tetrachloroethene	127-18-4	13	12	8.00E-03	3.60E-02	7.50E-02	4.50E-02	**2.0E+00**
4	VOC	Toluene	108-88-3	13	1	2.30E-04	2.30E-04	2.30E-04	2.53E-01	9.0E-04
4	VOC	Trichloroethene	79-01-6	13	5	4.00E-04	7.60E-04	1.40E-03	4.70E-02	3.0E-02
4	VOC	Acetone	67-64-1	20	4	7.30E-03	1.60E-02	3.70E-02	1.70E+00	2.0E-02
4	VOC	Carbon Disulfide	75-15-0	20	1	2.20E-04	2.20E-04	2.20E-04	1.50E-02	1.0E-02
4	VOC	1,2-Dichloroethene (total)	540-59-0	20	2	3.60E-04	4.70E-04	5.80E-04	9.70E-01	6.0E-04
4	VOC	cis-1,2-Dichloroethene	156-59-2	20	3	3.60E-04	5.40E-04	6.70E-04	9.70E-01	7.0E-04
4	VOC	Tetrachloroethene	127-18-4	20	16	1.00E-03	1.20E-02	3.00E-02	4.50E-02	7.0E-01
4	VOC	Trichloroethene	79-01-6	20	2	4.90E-04	6.20E-04	7.50E-04	4.70E-02	2.0E-02

Notes:

a Region V Ecological Screening Levels (ESLs), (2003).

b Hazard quotient (HQ) is the ratio of the maximum detected concentration to the ESL (rounded to one significant figure).

ERA Ecological Risk Assessment.

The screening value for trans 1,2-Dichloroethene was used for 1,2-Dichloroethene (total) and cis-1,2-Dichloroethene.

Table 43-3: On-Facility Soil Baseline ERA, Results 0-2 ft
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical (a)	CASRN	Analyzed	Detected	Mean Detected (mg/kg)	Max Detected (mg/kg)	BKG Detected (mg/kg)	Max > BKG?	Mean > BKG?	ESL - Soil (b) (mg/kg)	Mean HQ - Soil (c,d) (unitless)	BKG HQ - Soil (c,e) (unitless)
1	SVOC	Benzo(a)pyrene	50-32-8	21	15	1.30E+00	4.50E+00		No BKG	No BKG	1.52E+00	9.0E-01	
1	SVOC	Carbazole	86-74-8	14	1	1.80E-01	1.80E-01		No BKG	No BKG			
1	INORG	Arsenic	7440-38-2	11	11	8.00E+00	1.07E+01	1.47E+01	no	no	5.70E+00	**(d)**	**(d)**
1	INORG	Barium	7440-39-3	8	8	8.80E+01	1.99E+02	8.12E+01	YES	YES	1.04E+00	**8.0E+01**	**8.0E+01**
1	INORG	Chromium (total)	7440-47-3	7	7	1.10E+01	1.68E+01	1.89E+01	no	no	4.00E-01	**(d)**	**(d)**
1	INORG	Copper	7440-50-8	4	4	1.30E+01	1.59E+01	2.55E+01	no	no	5.40E+00	**(d)**	**(d)**
1	INORG	Lead	7439-92-1	7	7	2.10E+01	4.63E+01	1.94E+01	YES	YES	5.37E-02	**4.0E+02**	**4.0E+02**
1	INORG	Selenium	7782-49-2	7	1	8.00E-01	8.00E-01	3.16E-01	YES	YES	2.76E-02	**3.0E+01**	**1.0E+01**
1	INORG	Zinc	7440-66-6	4	4	4.70E+01	5.83E+01	7.14E+01	no	no	6.62E+00	**(d)**	**(d)**
2N	VOC	cis-1,2-Dichloroethene	156-59-2	19	2	3.50E-02	6.90E-02		No BKG	No BKG			
2N	INORG	Arsenic	7440-38-2	8	8	9.00E+00	1.17E+01	1.47E+01	no	no	5.70E+00	**(d)**	**(d)**
2N	INORG	Barium	7440-39-3	5	5	7.20E+01	9.08E+01	8.12E+01	YES	no	1.04E+00	**(d)**	**(d)**
2N	INORG	Chromium (total)	7440-47-3	5	5	1.30E+01	1.87E+01	1.89E+01	no	no	4.00E-01	**(d)**	**(d)**
2N	INORG	Copper	7440-50-8	3	3	1.40E+01	1.66E+01	2.55E+01	no	no	5.40E+00	**(d)**	**(d)**
2N	INORG	Lead	7439-92-1	5	5	1.00E+01	1.41E+01	1.94E+01	no	no	5.37E-02	**(d)**	**(d)**
2N	INORG	Selenium	7782-49-2	5	2	6.90E-01	7.30E-01	3.16E-01	YES	YES	2.76E-02	**3.0E+01**	**1.0E+01**
2N	INORG	Zinc	7440-66-6	3	3	5.80E+01	8.98E+01	7.14E+01	YES	no	6.62E+00	**(d)**	**(d)**
2S	VOC	Cumene	98-82-8	30	2	6.40E-03	1.10E-02		No BKG	No BKG			
2S	VOC	Cyclohexane	110-82-7	30	1	2.00E-03	2.00E-03		No BKG	No BKG			
2S	VOC	1,2-Dichloroethene (total)	540-59-0	28	1	3.10E+00	3.10E+00		No BKG	No BKG	7.84E-01	**4.0E+00**	
2S	VOC	cis-1,2-Dichloroethene	156-59-2	58	10	3.80E-01	3.10E+00		No BKG	No BKG	7.84E-01	5.0E-01	
2S	VOC	Methylcyclohexane	108-87-2	30	3	1.90E-03	2.70E-03		No BKG	No BKG			
2S	VOC	Tetrachloroethene	127-18-4	58	28	5.10E+00	8.20E+01		No BKG	No BKG	9.92E+00	5.0E-01	
2S	SVOC	Benzo(a)pyrene	50-32-8	46	19	4.80E-01	5.60E+00		No BKG	No BKG	1.52E+00	3.0E-01	
2S	SVOC	bis(2-Ethylhexyl)phthalate	117-81-7	13	4	5.50E-01	1.80E+00		No BKG	No BKG	9.25E-01	6.0E-01	
2S	SVOC	2-Methylnaphthalene	91-57-6	43	1	2.30E+01	2.30E+01		No BKG	No BKG	3.24E+00	**7.0E+00**	
2S	SVOC	Naphthalene	91-20-3	46	3	1.10E+00	3.20E+00		No BKG	No BKG	9.94E-02	**1.0E+01**	
2S	INORG	Arsenic	7440-38-2	50	50	7.80E+00	2.28E+01	1.47E+01	YES	no	5.70E+00	**(d)**	**(d)**
2S	INORG	Barium	7440-39-3	35	33	6.50E+01	1.13E+02	8.12E+01	YES	no	1.04E+00	**(d)**	**(d)**
2S	INORG	Cadmium	7440-43-9	35	5	4.40E-01	1.60E+00	1.60E-01	YES	YES	2.22E-03	**2.0E+02**	**7.0E+01**
2S	INORG	Chromium (total)	7440-47-3	35	35	1.20E+01	1.90E+01	1.89E+01	YES	no	4.00E-01	**(d)**	**(d)**
2S	INORG	Copper	7440-50-8	17	17	1.20E+01	2.31E+01	2.55E+01	no	no	5.40E+00	**(d)**	**(d)**
2S	INORG	Lead	7439-92-1	36	36	1.50E+01	1.02E+02	1.94E+01	YES	no	5.37E-02	**(d)**	**(d)**

Table 43-3: On-Facility Soil Baseline ERA, Results 0-2 ft
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical (a)	CASRN	Analyzed	Detected	Mean Detected (mg/kg)	Max Detected (mg/kg)	BKG Detected (mg/kg)	Max > BKG?	Mean > BKG?	ESL - Soil (b) (mg/kg)	Mean HQ - Soil (c,d) (unitless)	BKG HQ - Soil (c,e) (unitless)
2S	INORG	Selenium	7782-49-2	35	5	6.30E-01	7.30E-01	3.16E-01	YES	YES	2.76E-02	**2.0E+01**	**1.0E+01**
2S	INORG	Zinc	7440-66-6	17	17	3.80E+01	6.05E+01	7.14E+01	no	no	6.62E+00	**(d)**	**(d)**
	Notes:												
	a	Only those constituents identified in the Screening-Level ERA are included in this analysis											
	b	Region V Ecological Screening Levels (ESLs), (2003).											
	c	Hazard quotient (HQ) is the ratio of the detected concentration to the ESL (rounded to one significant figure).											
	d	HQs are only calculated for constituents with mean concentrations greater than background concentrations (or where no background is available).											
	e	HQs are calculated for Background for insight regarding the context in which the elevated HQs occur.											
	ERA	Ecological Risk Assessment.											

Table 43-4a: Off-Facility Soil Baseline ERA Results - 0-2 ft
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical (a)	CASRN	Analyzed	Detected	Mean Detected (mg/kg)	Max Detected (mg/kg)	BKG Detected (mg/kg)	Max > BKG?	Mean > BKG?	ESL - Soil (b) (mg/kg)	Mean HQ - Soil (c,d) (unitless)	BKG HQ - Soil (c,e) (unitless)
3	SVOC	Caprolactam	105-60-2	1	1	1.80E-02	1.80E-02		No BKG	No BKG			
3	INORG	Lead	7439-92-1	1	1	1.40E+01	1.41E+01	1.94E+01	no	no	5.37E-02	**(d)**	**(d)**
3A	SVOC	Benzo(a)pyrene	50-32-8	12	9	6.70E-01	3.30E+00		No BKG	No BKG	1.52E+00	4.0E-01	
3A	SVOC	Carbazole	86-74-8	4	1	1.80E-01	1.80E-01		No BKG	No BKG			
3A	SVOC	Naphthalene	91-20-3	12	1	1.90E-01	1.90E-01		No BKG	No BKG	9.94E-02	**2.0E+00**	
3A	INORG	Arsenic	7440-38-2	11	11	7.90E+00	1.24E+01	1.47E+01	no	no	5.70E+00	**(d)**	**(d)**
3A	INORG	Barium	7440-39-3	8	8	6.80E+01	1.09E+02	8.12E+01	YES	no	1.04E+00	**(d)**	**(d)**
3A	INORG	Chromium (total)	7440-47-3	7	7	1.40E+01	1.84E+01	1.89E+01	no	no	4.00E-01	**(d)**	**(d)**
3A	INORG	Copper	7440-50-8	3	3	1.40E+01	2.24E+01	2.55E+01	no	no	5.40E+00	**(d)**	**(d)**
3A	INORG	Lead	7439-92-1	7	7	3.60E+01	1.02E+02	1.94E+01	YES	YES	5.37E-02	**7.0E+02**	**4.0E+02**
3A	INORG	Selenium	7782-49-2	7	2	5.10E-01	5.20E-01	3.16E-01	YES	YES	2.76E-02	**2.0E+01**	**1.0E+01**
3A	INORG	Zinc	7440-66-6	3	3	4.50E+01	5.87E+01	7.14E+01	no	no	6.62E+00	**(d)**	**(d)**

Notes:

a Only those constituents identified in the Screening-Level ERA are included in this analysis

b Region V Ecological Screening Levels (ESLs), (2003).

c Hazard quotient (HQ) is the ratio of the detected concentration to the ESL (rounded to one significant figure).

d HQs are only calculated for constituents with mean concentrations greater than background concentrations (or where no background is available).

e HQs are calculated for Background for insight regarding the context in which the elevated HQs occur.

ERA Ecological Risk Assessment.

The screening value for trans 1,2-Dichloroethene was used for 1,2-Dichloroethene (total) and cis-1,2-Dichloroethene.

Table 43-4b: Off-Facility Sediment Baseline ERA Results
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical (a)	CASRN	Analyzed	Detected	Mean Detected (mg/kg)	Max Detected (mg/kg)	BKG Detected (mg/kg)	ESL - Sediment (b) (mg/kg)	Mean HQ - Sediment (c,d) (unitless)
4	VOC	Acetone	67-64-1	13	1	3.30E-02	3.30E-02		9.90E-03	**3.0E+00**
	Notes:									
	a	Only those constituents identified in the Screening-Level ERA are included in this analysis								
	b	Region V Ecological Screening Levels (ESLs), (2003).								
	c	Hazard quotient (HQ) is the ratio of the detected concentration to the ESL (rounded to one significant figure).								
	ERA	Ecological Risk Assessment.								

Table 43-4c: Off-Facility Surface Water Baseline ERA Results
Vernay Laboratories Inc. Yellow Springs, Ohio

Area	Chem Group	Chemical (a)	CASRN	Analyzed	Detected	Mean Detected (mg/L)	Max Detected (mg/L)	BKG Detected (mg/L)	ESL - Surface Water (b) (mg/L)	Mean HQ - Surface Water (c,d) (unitless)
3A	VOC	Tetrachloroethene	127-18-4	17	13	1.60E-01	5.60E-01		4.50E-02	**4.00E+00**
3A	SVOC	Benzo(k)fluoranthene	207-08-9	2	1	7.20E-05	7.20E-05		NA	
3A	SVOC	Chrysene	218-01-9	2	1	1.30E-04	1.30E-04		NA	
4	VOC	Tetrachloroethene	127-18-4	13	12	3.60E-02	7.50E-02		4.50E-02	8.00E-01

Notes:

a Only those constituents identified in the Screening-Level ERA are included in this analysis.

b Region V Ecological Screening Levels (ESLs), (2003).

c Hazard quotient (HQ) is the ratio of the detected concentration to the ESL.

ERA Ecological Risk Assessment.

NA Not Available

The surface water values are based on a total constituent concentration.

The screening value for trans 1,2-Dichloroethene was used for 1,2-Dichloroethene (total) and cis-1,2-Dichloroethene.

Table 44 Effects of Uncertainty In Ecological Risk Assessments
Vernay Laboratories Inc., Yellow Springs, Ohio

Source of Uncertainty	SLERA Management Approach	Effect on SLERA Results
Analytical Sampling and Data Analysis		
Limited number of samples - biased sampling	Typically, only a limited number of samples are used in ERAs, and very often they are collected in a biased manner (i.e., targeting "hot spots"). This type of sampling often lacks statistical power and does not likely represent the concentrations in the	Overestimate of exposure and risk
Use of maximum concentrations	The use of the maximum detected concentrations overestimates exposure and risk.	Overestimate of exposure and risk
Non detections, with detection limits that exceed ecotoxicity screening values	There are occasions when analytical detection limits exceed ecotoxicity screening values (ESVs). This can be due to instrument and method limitations and/or due to interference from unrelated chemicals (e.g., dilutions required to bring some other chimer	Underestimate of exposure and risk
Selection of Constituents of Potential Concern (COPCs)		
Background concentrations	Chemicals may be identified as COPCs despite the fact that the detected concentrations are less than background concentrations. This occurs because the ERA Process does not permit use of background until Step 3a of the BERA (USEPA 2001b).	Overestimate of exposure and risk
Toxicology and Ecotoxicity Screening Values		
Toxicity data	Toxicity data are only available for a limited number of species (most of them laboratory test species) under a strictly defined set of test conditions that deviate from natural conditions (Sample et al. 1996; Suter 1996).	Effect on risk estimate unknown
Laboratory toxicity testing	Simplistic extrapolations from laboratory species to wildlife species and testing conditions to field conditions are not likely accurate, and are rarely, if ever, validated against natural conditions (Power 1996; Tannenbaum 2003).	Overestimate of exposure and risk
Adaptation and tolerance	Consideration of bioavailability (and, thereby, diminished toxicity) tolerance and adaptation are intentionally not considered directly in a SLERA. Further, there is little consistency and no quantitative methodology for the consideration of the bioavail	Overestimate of exposure and risk
Hazard Quotients (HQs)		
HQs based on maximum concentrations	The SLERA HQ is based on the maximum detected concentrations and the most conservative ecotoxicity screening value available (USEPA 1997).	Overestimate of exposure and risk
Elevated HQs for background concentrations	HQs may exceed a value of 1 for background concentrations of naturally occurring metals (Tannenbaum 2003). This is due to many of the toxicology and ESV uncertainties already discussed. Also, background HQs greater than 1 indicate that indigenous wildlif	Overestimate of exposure and risk
Interpretation of HQs	An HQ less than or equal to a value of 1 indicates that adverse impacts to wildlife are considered unlikely (USEPA 2001b). However, there is no clear guidance for interpreting the HQs that exceed a value of 1, except that this point of departure may ind	Overestimate of exposure and risk
HQs for individual used to evaluate risks to populations	Although intentionally conservative in a SLERA, HQs are based on the types of impacts that could occur to individuals (i.e., those individuals exposed to maximum concentrations), and they completely fail to address ecological exposure and risk at spatial	Overestimate of exposure and risk
HQs with unrealistic magnitudes	HQs are seen at magnitudes that suggest acute toxicity. Often, conditions at a site document that this is not the case.	Overestimate of exposure and risk

Notes:		
BERA	Baseline ecological risk assessment.	
COPC	Constituent of potential concern.	
ERA	Ecological risk assessment.	
ESV	Ecotoxicity Screening Value.	
HQ	Hazard quotient.	
SLERA	Screening level ecological risk assessment.	