Attachment A12

Cost Estimates

Ford Motor Company

Monroe, Michigan Plant

Surface Impoundment Closure Project

Post-Closure Cost Estimate (Year 2017) MID 005 057 005

YEARS 18 TO 30

Work	Item	Annual Cost
1.0	Post-Closure Cost Estimate Yearly	\$1,000
2.0	Site Inspections Weekly, Monthly, Semi-Annual and Annual	\$52,000
3.0	Inspection, Maintenance and Leachate Monitoring Report Yearly	\$6,500
4.0	Independent Registered Professional Engineer Post-Closure Care Certification Yearly	\$500
5.0	Cover Survey Every 5 Years	\$5,000
6.0	Cover Erosion Repair and Reseeding Estimate of 1.0 acre per year	\$10,000
7.0	Access Road Maintenance 200 LF gravel and grade yearly	\$5,000
8.0	Effluent Monitoring Lump Sum per Quarter plus ECU/WCU/SCU every 5 years	\$6,000
9.0	SCU Sampling and Management Annually, or as needed, leachate treated through on-site WWTP	\$1,000
10.0	LCRS Pipe Cleaning and Integrity Verification Yearly	\$12,000
11.0	Groundwater Monitoring Semi-Annual Sampling; Quarterly Hydraulic Monitoring	\$64,000
12.0	Monitoring Well Maintenance Yearly	\$2,675
13.0	Vegetative Cover Grass Cutting Yearly	\$4,800
14.0	Waste Water Treatment Plant Operation Yearly	\$88,000
	Total Estimated Annual Post-Closure Cost (years 18 to 30)	\$258,475
	Total Estimated Post-Closure Costs (years 18 to 30)	\$3,360,175
	\$258,475 earning interest @ 5% annual interest	\$12,924
	Financial Assurance = \$258,475 x 20 years	\$5,169,500

Note: Excludes Groundwater or Soils Investigation associated with the on-site Solid Waste Management Units

Attachment A13

Topographic Map

OTHER REQUIRED ATTACHMENTS A13 - TOPOGRAPHIC MAP

TOPOGRAPHIC MAI	T	0P	OGF	RAP	HIC	MA	P
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See Attachment II

Attachment A14

Liability Mechanism

OTHER REQUIRED ATTACHMENTS A14 - LIABILITY MECHANISM

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Not applicable.

Attachment A15

Financial Assurance Instrument

OTHER REQUIRED ATTACHMENTS A15 - FINANCIAL ASSURANCE INSTRUMENT

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See attached.



Report of Independent Accountants

To the Management of Ford Motor Company:

We have audited, in accordance with generally accepted auditing standards, the financial statements of Ford Motor Company (the "Company") as of and for the year ended December 31, 2016 and have issued our report thereon dated February 9, 2017. We have not performed any auditing procedures since that date.

We have performed the procedures enumerated below, which were agreed to by Ford Motor Company and the Michigan Department of Environmental Quality (collectively the "specified parties"), solely to assist you with respect to the remittance of certain information requested by the specified parties. The Company is responsible for the preparation of information provided to the specified parties. This agreed-upon procedures engagement was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants. The sufficiency of these procedures is solely the responsibility of those parties specified in this report. Consequently, we make no representation regarding the sufficiency of the procedures described below either for the purpose for which this report has been requested or for any other purpose.

Mr. Bob Shanks, Ford Motor Company Executive Vice President and Chief Financial Officer, stated in a letter to the Michigan Department of Environmental Quality (the "Letter") that, at December 31, 2016 "Tangible net worth" was \$28,922 million, "Total assets in the U.S." were \$169,998 million, and the Company's assets "located in the U.S." were less than 90% of the total assets of the "firm."

We compared "Tangible net worth" of \$28,922 million at December 31, 2016 in the Letter to a schedule prepared by the Company from its accounting records and found such amount to be in agreement. We compared the amounts on the schedule to corresponding amounts appearing in the Company's accounting records which are used as a basis for preparing the information contained in the Company's December 31, 2016 financial statements and found such amounts to be in agreement and recalculated the schedule. We make no comment, however, as to the appropriateness of how the Company defines "Tangible net worth."

We compared "Total assets in the U.S." of \$169,998 million at December 31, 2016 in the Letter to corresponding amounts appearing in the Company's accounting records which are used as a basis for preparing the information contained in the Company's December 31, 2016 financial statements and found such amounts to be in agreement. We make no comment, however, as to the appropriateness of how the Company classifies its assets between the United States and other geographical locations.

We recalculated "Total assets in the U.S." as reported in the Letter as a percentage of total consolidated assets reported in the Company's audited financial statements included in the Company's Annual Report on Form 10-K for the year ended December 31, 2016, and found such amount to be less than 90% of the Company's total assets.



We were not engaged to and did not conduct an examination, the objective of which would be the expression of an opinion on the Letter. Accordingly, we do not express such an opinion. Had we performed additional procedures, other matters might have come to our attention that would have been reported to you.

This report is intended solely for the information and use of Ford Motor Company and the Michigan Department of Environmental Quality, and is not intended to be and should not be used by anyone other than these specified parties.

PricewaterhouseCoopers LLP

Price interferonschoosers UP

March 30, 2017



Ford Motor Company

The American Road Dearborn, MI 48126

March 30, 2017

Ms. Heidi Grether, Director
Department of Environmental Quality
c/o Office of Waste Management and Radiological Protection
Hazardous Waste Section
P.O. Box 30241
Lansing, Michigan 48909

Dear Ms. Grether:

I am the Chief Financial Officer of Ford Motor Company, 1 American Road, Dearborn, Michigan (the "Company"). This letter is in support of the Company's use of the financial test to demonstrate financial capability as specified in Part 111, Hazardous Waste Management, of Michigan's Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451), and its administrative rules, MAC R 299.9101 et seq.

- 1. The Company owns or operates the following facilities for which financial responsibility for liability coverage is being demonstrated through the financial test specified in R 299.9710(8): None
- 2. The Company guarantees, through the corporate guarantee specified in R 299.9710(9), liability coverage for the following facilities owned or operated by its subsidiaries: **None**
- 3. The Company owns or operates the following facilities for which financial assurance for closure or postclosure is demonstrated through the financial test specified in R 299.9709. The current closure and/or postclosure cost estimates covered by the test are itemized separately for each facility: See Attached Exhibit A
- 4. The Company guarantees, through the corporate guarantee specified in R 299.9709, closure and postclosure of the following facilities owned or operated by its subsidiaries. The current cost estimates for closure and postclosure so guaranteed are itemized separately for each facility: **None**
- 5. The Company owns or operates the following facilities for which financial assurance for corrective action is demonstrated through the financial test specified in R 299.9709. The current cost estimates for corrective action are itemized separately for each facility: See Attached Exhibit B

- 6. The Company guarantees, through a corporate guarantee conforming to the requirements specified in R 299.9709, corrective action for the following facilities owned or operated by its subsidiaries. The current cost estimates for the corrective action so guaranteed are itemized separately for each facility: **None**
- 7. In other states where the EPA is not administering the financial requirements of Subpart H of Title 40 of the Code of Federal Regulations (CFR), Part 264, the Company, as owner or operator or guarantor, demonstrates financial assurance for the closure or postclosure of the following facilities through the use of a test equivalent or substantially equivalent to the financial test specified in Subpart H of 40 CFR, Part 264. The current closure and/or postclosure estimates covered by such a test are itemized separately for each facility:

 None
- In other states where the EPA is not administering the financial requirements of Subpart H of 40 CFR, Part 264, the Company, as owner or operator or guarantor, demonstrates financial responsibility for liability coverage for the following facilities through the use of a test equivalent or substantially equivalent to the financial test specified in Subpart H of 40 CFR, Part 264. The liability coverages covered by such a test are itemized separately for each facility: None
- In other states where the EPA is administering the financial requirements of Subpart H of 40 CFR, Part 264, the Company, as owner or operator or guarantor, demonstrates financial assurance for the closure or postclosure of the following facilities through the use of the financial test specified in Subpart H of 40 CFR, Part 264. The closure and/or postclosure cost estimates covered by this test are itemized separately for each facility:

 None
- 10. In other states where the EPA is administering the financial requirements of Subpart H of 40 CFR, Part 264, the Company, as owner or operator or guarantor, is demonstrating financial responsibility for liability coverage for the following facilities through the use of the financial test specified in Subpart H of 40 CFR, Part 264. The liability coverages covered by this test are shown for each facility: **None**
- 11. In other states, the Company, as owner or operator or guarantor, is demonstrating financial assurance for corrective action for the following facilities through the use of a test equivalent or substantially equivalent to the financial test specified in Subpart H of 40 CFR, Part 264. The current corrective action cost estimates are itemized separately for each facility: See Attached Exhibit C
- 12. The Company owns or operates the following hazardous waste management facilities for which financial capability is not demonstrated either to the EPA or a state through the financial test or any other financial mechanism specified in Subpart H of 40 CFR, Part 264, or equivalent or substantially equivalent state mechanisms. Both the liability coverages and current closure and/or postclosure cost estimate amounts not covered by such financial assurance are itemized separately for each facility: None
- 13. The Company, as owner or operator or guarantor, is demonstrating financial assurance for plugging and abandonment as required under 40 CFR, Part 144, through the use of a financial test. The current plugging and abandonment cost estimates as required by

40 CFR, Section 144.62, are itemized separately for each Underground Injection Control (UIC) facility: None

14. The Company, as owner or operator or guarantor, is demonstrating financial assurance for closure, postclosure, and remedial action as required under Part 115, Solid Waste Management, of Act 451, or equivalent or substantially equivalent state or federal regulations, through the use of a financial test. The current closure, postclosure, and remedial action cost estimates are itemized separately for each solid waste management facility: None

3

- 15. The Company, as owner or operator or guarantor, is demonstrating financial responsibility for taking corrective action and for compensating third parties for bodily injury and property damage caused by accidental releases arising from the operation of petroleum underground storage tanks in accordance with 40 CFR, Part 280, or equivalent or substantially equivalent state regulations, through the use of a financial test. The amount of financial responsibility is itemized separately for each facility: See Attached Exhibit D
- 16. The Company, as owner or operator or guarantor, is demonstrating financial assurance for closure as required under 40 CFR. Part 761, or equivalent or substantially equivalent state regulations, through the use of a financial test. The closure costs are itemized separately for each commercial polychlorinated biphenyl (PCB) storage facility: See Attached Exhibit F
- 17. The Company, as owner or operator or guarantor, is demonstrating financial assurance for remediation costs under Part 201, Environmental Remediation, of Act 451, or equivalent or substantially equivalent state or federal regulations, by the use of a financial test. The remediation costs are itemized separately for each facility: See Attached Exhibit E

With this letter, I also am submitting the following items to demonstrate to DEQ that Ford meets the requirements for using the financial test as its financial assurance mechanism:

- 1. A copy of the independent certified public accountant's audited financial statement for the latest fiscal year for Ford; and
- 2. A Report of the Independent Certified Public Accountant, which certifies its review of this letter and the Company's financial statements.

The Company is required to file a Form 10-K with the Securities and Exchange Commission (SEC) for the latest fiscal year. The Company's Annual Report on Form 10-K was filed with the SEC on February 9, 2017.

The fiscal year of the Company ends on December 31. The figures for the following items marked with an asterisk (*) are derived from this firm's independently audited, year-end financial statements for the latest fiscal year, ended on December 31, 2016.

¹ "Total Assets in Michigan" includes real and tangible assets for the year 2015. This number resides on a schedule retained by the Ford Office of Tax Counsel and includes company cars, machinery and equipment, real estate, vehicle leases, and special tooling.

ALTERNATIVE II

1.	Sum of current closure and postclosure cost estimates for Michigan facilities (total of all cost estimates listed in paragraphs 3 and 4, above)	\$8,224,90	00.00
2	Sum of current closure and postclosure cost estimates for non-Michigan facilities (total of all cost estimates listed in paragraphs 7, 9, and 12, above)	\$ <u>0</u>	
3.	Sum of other obligations covered by a financial test (total of all cost estimates listed in paragraphs 5, 6, 11, 13, 14, 15, 16, and 17, above) * Obligation in paragraph 16 is not added to the sum as it is also included in paragraph 17	\$ <u>79,053.9</u>	9 <u>54.56</u>
4.	Amount of annual aggregate liability coverage to be demonstrated (maximum aggregate for facilities listed in paragraphs 1, 2, 8, 10, and 12, above)	\$ <u>0</u>	
5.	Sum of lines 1, 2, 3, and 4	\$87,278,8	354.56
6.	Current rating of senior unsecured debt and name of rating service	Baa2 Mo	ody's
7.	Date of issuance of bond	Decembe	r 6, 2016
8.	Date of maturity of bond	Decembe	r 8. 2026
*9.	Tangible net worth (if any portion of the closure or postclosure costs or other obligations covered by a financial test listed above is included in "total liabilities" on the firm's financial statements, then you may add that portion to this line)	\$ <u>28,922 r</u>	nillion
*10.	Total assets in the U.S.	\$ <u>169,99</u>	8 million
*11.	Total assets in Michigan excluding the value of land used for hazardous waste disposal	\$26,525	million
*12.	Total assets in Michigan including the value of land used for hazardous waste disposal	\$ <u>26,525</u>	million
		YES	NO.
13.	Is line 9 at least \$10 million?	X	
14.	Is line 9 at least 6 times line 5?	X	-
*15.	Are at least 90% of the firm's assets located in the U.S.? If not, complete line 16.	MARK.	<u>X</u>
16.	Is line 10 at least 6 times liné 5?	X	

Is line 11 at least \$50 million? *17. $\underline{\mathbf{X}}$ 18. Is line 12 at least 6 times line 1?

<u>X</u>

I hereby certify that the wording of this letter is identical to the wording in the letter specified by the Director of the Department of Environmental Quality for the financial test as such letter was specified on the date shown immediately below.

Bob Shanks

Executive Vice President & Chief Financial Officer Ford Motor Company

03/30/2017 Date

Note: Bob Shanks signs this letter on behalf of Ford. The matters stated in this letter are not within his personal knowledge; the facts stated in this letter have been assembled by authorized employees and counsel of Ford, and he is informed that these facts are true.

EXHIBIT A

Michigan Closure/Postclosure Matters Where Ford Utilizes the Financial Test

Site Name.	Site Address	Oversight Agency	Governing Document	Docket No. / EPA ID No.	Financial Assurance Amount
Allen Park Clay Mine Landfill	17005 Oakwood Blvd. Allen Park, MI 48101	MDEQ	NREPA Part 111 Post- Closure; R299.9703	MID980568711	\$421,900.00
Monroe Plant	3200 E. Elm Ave. Monroe, MI 48162	MDEQ	NREPA Part 111 Post- Closure; R299.9703	MID005057005	\$5,169,000.00
Saline Plant	7700 E. Michigan Ave. Saline, MI 48176	MDEQ	Post Closure Plan	MID009305665	\$2,634,000.00

EXHIBIT B

Michigan Corrective Action Matters Where Ford Utilizes the Financial Test for Itself

Governi	Oversight Agency MDEQ		Site Address
Order		- -	Dearborn, MI 48121

EXHIBIT C

Non-Michigan Corrective Action Matter's Where Ford Utilizes the Financial Test for Itself

	
Financial Assurance Amount	\$500,000.00
Docket No. / EPA 1D No.	CAD041330077
Governing Document	40.CFR § 264/265
Oversight Agency	California Regional Water Quality Control Board, Santa Ana Region
Site Address	1000 Ford Road Newport Beach, CA 92660
Site Name	Former Ford Aero-Nutronic Facility, Newbort Beach

EXHIBIT D

UST Sites Where Ford Utilizes the Financial Test

Facility Name	Facility Address	City	State	ZIP	Number of USTs	Financial Assurance Amount
Ford Arizona Proving Grounds	20715 West Happy Valley.	Whitmann	AZ	85361	-	\$2,000,000.00
Chicago Assembly Plant	12600 South Torrence Avenue	Chicago	II.	60633	4	
Kentucky Assembly Plant	3001 Chamberlain Ln.	Louisville	КҮ	4024]	2.	
Louisville Assembly Plant	Fern Valley Road	Louisville	ΚΥ	40213	Ü	
Advanced Engineering Center	2400 Village Rd. Bldg. #774	Dearborn	Σ	48121		
Allen Park Test Lab	1500 Enterprise Dr.	Allen Park	MI	48101	S	
Central Fuel Dispensing Sta.	1951 Village Road	Dearborn	MI	48121	2	
Climatic Wind Tunnel No. 3	20420 Oakwood Blvd.	Dearborn	MI	48121	4	
Dearborn Engine Plant	3001 Miller Rd.	Dearborn	.MI	48121	7	
Driveability Test Facility	8000 Enterprise Drive	Allen Park	1W	48101	ç	
Dynamometer Lab	1701 Village Road	Dearborn	MI	48121	1.8	
Flat Rock Assembly Plant	I International Drive	Flat Rock	MI	48134	'n	
Ford Land - Fairlane Plaza North	290 Town Center Drive	Dearborn	MI	48126	*****	
Ford Land - Fairlane Plaza South	330 Town Center Drive	Dearborn	Mi	48126	1	
Heat Octane & Roll Test Facility/ Environmental Wind Tunnels 4 & 5	20420 Oakwood Blvd.	Dearborn	MI	48212.	2	
Michigan Assembly Plant	38303 Michigan Ave.	Wayne	Mi	48184	3	
Michigan Proving Grounds	74240 Fisher Rd.	Romeo	MI	48065	14	
New Model Product & Dev.	17000 Oakwood Blvd.	Allen Park	MI	48101	9	
Powertrain Fuel & Subsystems Lab	21200 Donaldson Ave.	Dearborn	MI	48121	3	
Test Track Tank Farm	20400 Oakwood Blvd	Dearborn	MI	48121	.83	
Rawsonville Plant	McKean & Textile Roads	Ypsilanti	Σ	48197	2	
Romeo Engine Plant	701 E. 32 Mile Rd.	Romeo	MÏ	48065	2	
Scientific Research Labs	2101 Village Rd.	Dearborn	M	48121	5	•••
Vreeland Road Quality Center	22400 Vreeland Road	Woodhaven	Œ	48183	2	
Wayne Assembly Plant	37625 Michigan Ave.	Wayne	MI.	48184	4	
Wixom Assembly Plant	28801 Wixom Ave.	Wixom	Ξ	48393	2	
Woodhaven Stamping Plant	20900 West Road	Woodhaven	MI	48183		
Twin Cities Assembly Plant	966 S. Mississippi River Blvd.	St. Paul	MN	55116	ÈЧ	
Kansas City Assembly Plant	U.S. Highway 69	Claycomo	MO	64119	14	
Lima Engine Plant	1.155 Bible Rd.	Lima	OH	4580]	ĸï	
Ohio Assembly Plant	650 Miller Road	Avon Lake	HO.	44012	ėί	
Sharonville Transmission Plant	3000 Sharon Rd.	Sharonville	Ð	4524]	14	
Walton Hills Stamping Plant	7845 Northfield Rd.	Walton Hills	OH	44146	-	

EXHIBIT E

Other Matters Where Ford Utilizes the Financial Test

Site Name	Site Address	Oversight Agency	Governing Document	Docket No. / EPA 1D No.	Financia! Assurance Amount
Butler Mine Tunnel	Susquehanna River Pinston Township, PA 18640	EPA Region 3	CERCLA Consent Decree	M.D. Pennsylvania; Civil Action No. 3;CV00-1912; PAD98050845;	381,640.00
Cami-Or Superfund Site	NW Corner SR 2 and US 421 Westville, IN 46391	EPA:Région 5	CERCLA Consent Decree	N.D. Indiana; Civil Action No. 3:10-ev-00532; IND005480462	488,732.33
Fons/Old Wayne Landfill	1657 MacGregor Road Ypsilanti Twp., MI 48198	MDEQ	Agreement for a Limited Industrial Remedy	LANDUSE-ERD-97-018	4,245,987.34
Ford-Kingsford Products Facility	The City of Kingsford Kingsford, Dickinson County, M1	MDEQ	Consent Judgment/ RAP/Part 201	Case No. 07-1427-CE	1,000,000,000
Forest Waste Products. Superfund Site	8359 E. Farrand Road Otisville, MJ 48463	EPA Region 5	CERCLA Consent Decree	E.D. Michigan Docket No. 94- 40462; MID980410740	567,105.13
G&H Landfill	3160 23 Mile Rd Ulica, Michigan 48316	EPA Region 5	CERCLA Consent Decree	E.D. Michigan; Civil Action No. 92-CV-75460; MID980410823	40,000,000,00
Herrel Landfill Superfund Site	Route 44/55 Bedell Avenue and Tuckers Planekill NY 12568	EPA Region 2.	CERCLA Partial Consent Decree	N.D. New York Civ. Action No. 94-CV-1247; NYD980780779.	1,019,591.00
Krejei Dump Site	814 W Hines Hill Rd Boston, Heights, OH 44264	Déparment of Intérior	CERCLA Partial Consent Decree	N.D. Ohio Civ, Action No. 5.97 CV-00894; OHD981785074	00.000,005,(
Lammers Barret Superfund Site.	East Patterson & Grange Hill Buaverorick, OH 45385	EPÅ Region S	CERCLA Consent Deeree	S.D., Ohio, Docket No. 3:14- cv-00032-WHR; OHD981537582	362,682,51
OU-2 of the Lake Calumer Chuster Site	2290 East 119th Street Chreago, 1L 60617	EPA Region 5	Administrative Settlement Agreement and Consent Degree	CERCLA Docket No. V-W- 13-C-013; ILD000716852	87,069.00
Metamora Landfill Site	1636 Dryden Road, Metamora MI 48455	EPA Region 5	CERCLA Consent Decree	E.D. Michigan Docket No. 91- CV-40320-FL: MID980306562	431,914.00
Organic Chemical Superfund Site	3921 Chicago Drive, S.W. Grandville, Michigan 49418	EPA Region 5	CERCLA Consent Degree	E.D. Michigan, Civil Action No. 1:99-CV-428. MID990858003	600,000,009
Rasmussen Dump Site	9040 Spicer Road Brighton, MJ 48116	EPA Region 5	CERCLA Consent Decree	E.D. Michigan Docket No. 92- 40071; MID095402210	67,000.25
Ringwood Mines/Landfill	Peters Mine Road Ringwood Borough, New Jersey, 07436.	EPA, Region 2	Administrative Settlement Agreement and Order on Consent	CERCLA Docket No. 02. 2014:2025; NJD980529739	2,400,000,00
Raisin River 2	Mouroe, Michigan	EPA Region.5	April 2016 EPA-Approved Long Term Monitoring and Maintenance Plan	EPA Regulations (40CFR 761) EPA ID: MID:005057005	1,476,831.00
Tibbets Road	23 Tibbeus Road Barrington, New Hampshire 03825	EPA Region 1	CERCLA Consont Decree	Civils Action Nos. c-91-120-S and c-91-194-S. EPA ID: NHD 989090469	3,680,402.00
Willow Run Creek Area	877 Willow Run Drive Van Buren Township, MI 48111	MDEQ	Consent Judgment/ RAP/Part 201	Case No. 95-79987-CE	5,401,000,00

EXHIBIT F

Polychlorinated Biphenyl (PCB) Closure Matters Where Ford Utilizes the Financial Test for Itself

Site Name	Site Address	Oversight Agency	Governing Document	Docket No. / EPA ID No.	Financial Assurance Amount
Willow Kun Creek Area	877 Willow Run Drive Van Buren Township, MI 48141	MDEQ	Consent Judgment/ RAP/Part 201	Case No. 95-79987-CE	5,401,009.00

Note: The Site is also included in Exhibit E



Environmental Quality Office Sustainability, Environment & Safety Engineering Fairlane Plaza North, Suite 800 290 Town Center Drive Dearborn, MI 48126 USA

March 30, 2017

VIA EMAIL AND FEDERAL EXPRESS

Mr. Daniel Dailey
Hazardous Waste Section
Office of Waste Management and Radiological Protection
Michigan Department of Environmental Quality
525 W. Allegan, 4th Floor South
Lansing, MI 48933

Re:

Financial Assurance

Saline Plant Monroe Plant

Allen Park Clay Mine Landfill Rouge Manufacturing Complex

Dear Mr. Dailey:

Please find enclosed the original letter from Bob Shanks, Executive Vice President and Chief Financial Officer of the Ford Motor Company (Ford), constituting Ford's submission of financial assurance for the above mentioned sites. I have enclosed the Report of Independent Accountants, and Ford Motor Company's 2016 Annual Report on Form 10-K can be obtained at

https://www.sec.gov/Archives/edgar/data/37996/000003799617000013/f1231201610k.pdf

If you have any questions, or would like to discuss further, please don't hesitate to contact me at 313.322.5470, or via e-mail at mzakkar@ford.com.

Sincerely,

Mohamed Zakkar

Environmental Engineer

Cc

Bradley Ermisch, MDEQ

Enclosures



STATE OF MICHIGAN A DEPARTMENT OF ENVIRONMENTAL QUALITY LANSING



C. HEIDI GRETHER DIRECTOR

May 18, 2017

Mr. Mohamed Zakkar Ford Motor Company Environmental Quality Office 290 Town Center Drive, Suite 800 Dearborn, Michigan 48126

Dear Mr. Zakkar

SUBJECT: In Compliance Determination; Financial Assurance for Postclosure Care

and Corrective Action; Ford Motor Company;

Monroe Plant, Monroe, Michigan; MID 005 057 005; Saline Plant, Saline, Michigan; MID 009 305 665;

Allen Park Clay Mine Landfill, Allen Park, Michigan; MID 980 568 711; Rouge Manufacturing Complex, Dearborn, Michigan; MID 087 738 431

On May 15, 2017, the Michigan Department of Environmental Quality (MDEQ), Waste Management and Radiological Protection (WMRPD), conducted a financial record review (FRR) of the Ford Motor Company's (Ford) March 30, 2017, submittal in support of Ford's use of a financial test to demonstrate financial capability for postclosure care or corrective action at the subject facilities. Ford's establishment of financial assurance is required by Part 111, Hazardous Waste Management, of Michigan's Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and its administrative rules, Part 7, Financial Capability; the Monroe Plant November 28, 2007, Hazardous Waste Management Facility Postclosure Operating License; the Saline Plant Postclosure Plan approved May 18, 2007; the Allen Park Clay Mine Postclosure Plan approved September 30, 2007; and the Rouge Manufacturing Complex May 1, 2000, Corrective Action Consent Order WHMD No. 111-04-00, as amended.

Based on the FRR, the WMRPD hereby determines that Ford is in compliance with the Part 111 financial assurance requirements for the subject facilities.

If you have any questions, please contact me at 517-284-6574; tysonk@michigan.gov; or MDEQ, WMRPD, P.O. Box 30241, Lansing, Michigan 48909-7741.

Sincerely,

Kimberly M. Tyson, P.E.

Environmental Engineer Specialist

Hazardous Waste Section

Waste Management and Radiological

Protection Division

cc: Mr. Chuck Pinter, Ford Ms. Colleen Lindell, Ford Ms. Lynn Tucker, Ford Mr. Brad Ermish, MDEQ Mr. Pete Quackenbush, MDEQ

HWS/C&E Files

Attachment B1

Status of Compliance

SUBMITTAL INFORMATION B1 – STATUS OF COMPLIANCE WITH OTHER FEDERAL LAWS

STATUS OF COMPLIANCE WITH OTHER FEDERAL LAWS

This section presents general information regarding the status of compliance with other federal laws for the activities at the Ford River Raisin Warehouse (RRW). The RRW maintains compliance under the federal Clean Air Act, the Resource Conservation and Recovery Act, and the Emergency Planning and Community Right-to-Know Act, Section 313 (also known as the Toxics Release Inventory Program).

A history of the status of compliance with federal environmental laws is detailed in the attached Enforcement & Compliance History Online (ECHO) database printout from the United States Environmental Protection Agency.



Detailed Facility Report

Facility Summary

FORD-MONROE

3200 EAST ELM STREET, MONROE, MI 48162



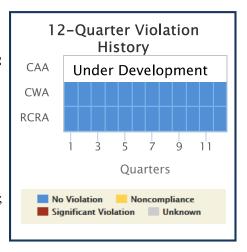
FRS (Facility Registry Service) ID: 110000405936

EPA Region: 05 Latitude: 41.902664 Longitude: -83.358337 Locational Data Source: FRS

Industry: Transportation Equipment Manufacturing;

Warehousing and Storage

Indian Country: N



Enforcement and Compliance Summary 📤



Statute	Insp (5 Years)	Date of Last Inspection	Compliance Status	Qtrs in NC (Non- Compliance) (of 12)	Qtrs in Significant Violation	Informal Enforcement Actions (5 years)	Formal Enforcement Actions (5 years)	Penalties from Formal Enforcement Actions (5 years)	EPA Cases (5 years)	Penalties from EPA Cases (5 years)
CAA	-	07/30/2009		0	0	-	-	_	-	-
CWA	-	05/18/1999	Noncompliance	1	0	-	-	-	-	-
RCRA	6	03/30/2017	No Violation	0	0	1	-	-	-	-

Related Reports







Regulatory Information

(MI0003247)

Clean Air Act (CAA): Permanently Closed Major (MI0000000000A4127) Clean Water Act (CWA): Minor, Permit Terminated; Compliance Tracking Off

Resource Conservation and Recovery Act (RCRA): Active (HPA) SQG TSDF

Other Regulatory Reports

Air Emissions Inventory (EIS): 8098311 Greenhouse Gas Emissions (eGGRT): No Information Toxic Releases (TRI): 48161MNRST3200E

(MID005057005) Safe Drinking Water Act (SDWA): No Information

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110000405936					N	41.902664	-83.358337
AIR	CAA	MI0000000000A4127	Major Emissions	Permanently Closed			N		
EIS	CAA	8098311		PERMANENTLY SHUTDOWN			N	41.9032	-83.3557
ICP	CWA	MI0003247	Minor: NPDES Individual Permit	Terminated; Compliance Tracking Off		10/01/1989	N	41.904167	-83.352222
TRI	EP313	48161MNRST3200E	Toxics Release Inventory	Last Reported for 2008			N	41.902664	-83.358346
RCR	RCRA	MID005057005	SQG TSDF	Active (HPA)			N	41.902435	-83.356377

Facility Address

System	Statute	Identifier	Facility Name	Facility Address
FRS		110000405936	FORD-MONROE	3200 EAST ELM STREET, MONROE, MI 48162
AIR	CAA	MI0000000000A4127	AUTOMOTIVE COMPONENTS HOLDINGS, LLC - MONROE PLANT	3200 E ELM AVE, MONROE, MI 48162
EIS	CAA	8098311	AUTOMOTIVE COMPONENTS HOLDINGS, LLC - MONROE PLANT	3200 E ELM AVE, MONROE, MI 48162
ICP	CWA	MI0003247	FORD-MONROE	3200 EAST ELM STREET, MONROE, MI 48162
TRI	EP313	48161MNRST3200E	AUTOMOTIVE COMPONENTS HOLDINGS LLC - MONROE	3200 E ELM AVE, MONROE, MI 48162
RCR	RCRA	MID005057005	FORD RIVER RAISIN WAREHOUSE	3200 E ELM AVE, MONROE, MI 48162

Facility SIC (Standard Industrial Classification) Codes Facility NAICS (North American Industry

System	Identifier	SIC Code	SIC Desc
TRI	48161MNRST3200E	3465	Automotive Stampings
TRI	48161MNRST3200E	3714	Motor Vehicle Parts And Accessories
ICP	MI0003247	3465	Automotive Stampings

Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
TRI	48161MNRST3200E	336370	Motor Vehicle Metal Stamping
TRI	48161MNRST3200E	336399	All Other Motor Vehicle Parts Manufacturing
EIS	8098311	336390	
AIR	MI00000000000A4127	336390	
RCR	MID005057005	49319	

Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
	No	data records returned	

Enforcement and Compliance

Compliance Monitoring History (5 years)

Statute	Source ID	System	Inspection Type	Lead Agency	Date	Finding
RCRA	MID005057005	RCR	OPERATION AND MAINTENANCE INSPECTION	State	03/30/2017	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	01/24/2017	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	12/15/2016	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	08/19/2016	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	06/21/2016	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	04/20/2016	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	03/31/2016	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	FINANCIAL RECORD REVIEW	State	03/31/2016	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	03/02/2016	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	12/02/2015	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	11/04/2015	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	10/28/2015	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	10/16/2015	No Violations Or Compliance Issues Were Found
RCRA	MID 005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	09/15/2015	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	03/18/2015	No Violations Or Compliance Issues Were Found
RCRA	MID 005057005	RCR	FINANCIAL RECORD REVIEW	State	02/25/2015	·
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW NON-FINANCIAL RECORD REVIEW	State	02/23/2013	No Violations Or Compliance Issues Were Found No Violations Or Compliance Issues Wave Found
RCRA	MID005057005 MID005057005	RCR	NON-FINANCIAL RECORD REVIEW NON-FINANCIAL RECORD REVIEW	State	01/20/2015	No Violations Or Compliance Issues Were Found No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	12/12/2014	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	FOCUSED COMPLIANCE INSPECTION	State	10/07/2014	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	06/10/2014	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	05/06/2014	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	OPERATION AND MAINTENANCE INSPECTION	State	03/31/2014	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	03/25/2014	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	03/21/2014	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	FINANCIAL RECORD REVIEW	State	02/06/2014	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	11/14/2013	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	11/13/2013	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	11/05/2013	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	10/03/2013	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	FINANCIAL RECORD REVIEW	State	09/20/2013	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	COMPLIANCE EVALUATION INSPECTION ON-SITE	State	08/29/2013	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	04/11/2013	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	03/27/2013	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	02/07/2013	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	FOCUSED COMPLIANCE INSPECTION	State	02/05/2013	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	01/10/2013	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	11/19/2012	Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	FINANCIAL RECORD REVIEW	State	10/09/2012	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	08/28/2012	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	08/23/2012	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	08/16/2012	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	NON-FINANCIAL RECORD REVIEW	State	07/24/2012	No Violations Or Compliance Issues Were Found
RCRA	MID005057005	RCR	FOCUSED COMPLIANCE INSPECTION	State	06/06/2012	No Violations Or Compliance Issues Were Found

Entries in italics are not considered inspections in official counts.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Non-compliance)/HPV (High Priority Violation)	Description	Current As Of	Qtrs in NC (Non-Compliance) (of 12)
CAA	MI0000000000A4127	No		05/06/2017	0
CWA	MI0003247	No		12/31/2016	0
RCRA	MID005057005	No		05/06/2017	0

Three Year Compliance Status by Quarter

Statute	Prog	gram/Pollutant	/Violation Type		QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12
	CAA (Sour	ce ID: MI000	000000000A4127))	07/01 - 09/30/14	10/01- 12/31/14	01/01- 03/31/15	04/01-06/30/15	07/01-09/30/15	10/01-12/31/15	01/01 - 03/31/16	04/01-06/30/16	07/01-09/30/16	10/01-12/31/16	01/01-03/31/17	04/01-06/30/17
		Facility-Lev	el Status		No Viol	No Viol										
		нру н	istory													
	Violation Type	Agency	Programs	Pollutants												
Histo	oric Violations															

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11		QTR 13+
	CWA (Source ID: MI0003247)	01/01- 03/31/14	04/01- 06/30/14	07/01- 09/30/14	10/01- 12/31/14	01/01- 03/31/15	04/01- 06/30/15	07/01- 09/30/15	10/01- 12/31/15	01/01- 03/31/16	04/01- 06/30/16	07/01- 09/30/16	10/01- 12/31/16	01/01- 05/05/17
	Facility-Level Status	No Viol	In Viol											
	SNC (Significant Non-compliance)/RNC (Reportable Non-Compliance) History													
	Permit Schedule Violations													
CWA	Schedule Event unachieved and not reported: Complete Required Sampling and Analytical Work or Studies	01- 31- 89	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>
CWA	Schedule Event unachieved and not reported: Complete Required Sampling and Analytical Work or Studies	12- 31- 88	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>
CWA	Schedule Event unachieved and not reported: Implement Plan	02- 28- 87	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>
CWA	Schedule Event unachieved and not reported: Implement Plan	10- 31- 88	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>
CWA	Schedule Event unachieved and not reported: Monitoring Plan	09- 30- 88	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>	>>>
√														

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12
RCRA	(Source ID: MID005057005)	07/01-09/30/14	10/01-12/31/14	01/01-03/31/15	04/01-06/30/15	07/01-09/30/15	10/01-12/31/15	01/01-03/31/16	04/01-06/30/16	07/01-09/30/16	10/01-12/31/16	01/01-03/31/17	04/01-06/30/17
RCRA	Facility-Level Status												

Informal Enforcement Actions (5 Years)

Statute	System	Source ID	Type of Action	Lead Agency	Date
RCRA	RCR	MID005057005	WRITTEN INFORMAL	State	11/19/2012

Formal Enforcement Actions (5 Years)

Statute Source ID	Type of Action	Lead Agency	Date	Penalty	Penalty Description
		No data records returned			

ICIS (Integrated Compliance Information System) Case History (5 years)

Primary Law/Section	Case No. Case Type	Lead Agency	Case Name	Issued/Filed Date	Settlement Date	Federal Penalty	State/Local Penalty	SEP (Supplemental Environmental Project) Cost	Comp Action Cost
	No data records returned								

Environmental Conditions

Water Quality

Permit ID	Combined Sewer System?	Number of CSO (Combined Sewer Overflow) Outfalls	12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Waterbody Name (ICIS (Integrated Compliance Information System))	Impaired Waters	Causes of Impairment(s) by Group(s)	Watershed with ESA (Endangered Species Act)- listed Aquatic Species?
MI0003247			041000020410	Willow Run-River Raisin	RIVER RAISIN	No	MERCURY POLYCHLORINATED BIPHENYLS (PCBS)	Yes

Waterbody Designated Uses

Reacl	1 Code	Waterbody Name	Exceptional Use	Recreational Use	Aquatic Life Use	Shellfish Use	Beach Closure Within Last Year	Beach Closure Within Last Two Years
0410000	2000001	River Raisin	No	Yes	Yes	No	No	No

Air Quality

Non-Attainment Area?	Pollutant(s)
Yes	Ozone
No	Lead
Yes	Particulate Matter
No	Sulfur Dioxide

Pollutants

Toxics Release Inventory History of Reported Chemicals Released in Pounds per Year at Site ①

Air Pollutant Report TRI Pollution Prevention Report

TRI Facility ID	Year	Total Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Releases to Land	Total On-site Releases	Total Off-site Releases
48161MNRST3200E	2008	1,562		0			1,562	616
48161MNRST3200E	2007	2,626		0			2,626	1,474

Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year ①

Chemical Name	2015	2014	2013	2012	2011	2010	2009	2008	2007
CERTAIN GLYCOL ETHERS									
CHROMIUM								1,576	2,638
CHROMIUM COMPOUNDS(EXCEPT CHROMITE ORE MINED IN THE TRANSVAAL REGION) $$									
ETHYLENE GLYCOL									
MANGANESE									77
MANGANESE COMPOUNDS									
METHYL ETHYL KETONE									
N-BUTYL ALCOHOL									
NICKEL								602	1,385
SODIUM HYDROXIDE (SOLUTION)									
SODIUM NITRITE									
SULFURIC ACID (1994 AND AFTER ACID AEROSOLS ONLY)									
ZINC COMPOUNDS									

Demographic Profile

Demographic Profile of Surrounding Area (3 Miles)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2010 US Census and American Community Survey data, and are accurate to the extent that the facility latitude and longitude listed below are correct. The latitude and longitude are obtained from the EPA Locational Reference Table (LRT) when available.

Radius of Area:	3	Land Area:	60%	Households in Area:	9,342
Center Latitude:	41.902664	Water Area:	40%	Housing Units in Area:	10,463
Center Longitude:	-83.358346	Population Density:	1,406/sq.mi.	Households on Public Assistance:	461
Total Persons:	23,503	Percent Minority:	13%	Persons Below Poverty Level:	8,551

Race Breakdown	Persons (%)	Age Breakdown	Persons (%)
White:	20,999 (89%)	Child 5 years and younger:	1,630 (7%)
African-American:	1,262 (5%)	Minors 17 years and younger:	5,951 (25%)
Hispanie-Origin: 1,072 (5%)		Adults 18 years and older:	17,552 (75%)
Asian/Pacific Islander: 109 (0%)		Seniors 65 years and older:	3,232 (14%)
American Indian:	87 (0%)		-
Other/Multiracial:	1,046 (4%)		

Education Level (Persons 25 & older)	Persons (%)	Income Breakdown	Households (%)
Less than 9th Grade:	892 (5.67%)	Less than \$15,000:	1,617 (16.73%)
9th through 12th Grade:	1,515 (9.63%)	\$15,000 - \$25,000:	1,404 (14.53%)
High School Diploma:	5,816 (36.95%)	\$25,000 - \$50,000:	2,470 (25.56%)
Some College/2-yr:	4,800 (30.5%)	\$50,000 - \$75,000:	1,712 (17.72%)
B.S./B.A. or More:	2,717 (17.26%)	Greater than \$75,000:	2,460 (25.46%)

Attachment B2

Corrective Action Information

10/4/11

FORM EQP 5111 ATTACHMENT TEMPLATE B2 CORRECTIVE ACTION INFORMATION

The administrative rules promulgated pursuant to Part 111, Hazardous Waste Management, of Michigan's Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451) R 299.9504(1)(c), R 299.9508(1)(b), R 299.9525, R 299.9629, R 299.9635, and R 299.9636; §§324.11115a and 324.11115b of Act 451; and Title 40 of the Code of Federal Regulations (CFR) §270.14(d) and Part 264, Subpart F, establish requirements for submitting corrective action information and implementing a corrective action program for hazardous waste management facilities. All references to 40 CFR citations specified herein are adopted by reference in R 299.11003.

This license application template addresses requirements for corrective action information for the waste management units (WMU) at the <u>River Raisin Warehouse</u> facility in <u>Monroe</u>, Michigan. This template includes facility background information, current conditions, and release assessment requirements for operating license applications. This template supplies information to support the corrective action program specified in R 299.9629. In this template, applicants must include appropriate justification for the proposed elimination of any WMU from the corrective action program under Part 111 of Act 451.

(Check as appropriate)

Page 1 of 33

Applicant for Operating License for Existing Facility: \boxtimes R 299.9629 Corrective Action Elimination from corrective action requirements proposed for one or more units More than one box may be checked, if one or more WMUs are proposed for elimination from corrective action requirements Applicant for Operating License for New, Altered, Enlarged, or Expanded Operating License: R 299.9629 Corrective Action Elimination from corrective action requirements proposed for one or more units B2.A FACILITY BACKGROUND B2.A.1 History and Description of Ownership and Operation B2.A.2 **Environmental Setting** B2.A.2(a) Climate B2.A.2(b) Topography B2.A.2(c) Hydrogeology B2.A.2(d) Soil B2.A.2(e) Surface Water B2.A.2(f) Surrounding Land Uses Critical Habitats and Endangered Species B2.A.2(g) B2.A.3 Characterization of Potential or Actual Sources of Contamination [Name of Unit or Unit Group] B2.A.3(a) B2.A.2(a)(1) Unit Characteristics

Form EQP5111 Attachment Template B2

B2.B	FACILITY'S A	B2.A	.2(a)(2) Waste Characteristics and Management .2(a)(3) History of Releases or Potential to Release Γ OF KNOWN NATURE AND EXTENT OF CONTAMINATION					
	B2.B.1	Groundwate	r					
		B2.B.1(a)	Characterization History					
		B2.B.1(b)	Description of Horizontal and Vertical Extent of Plume(s)					
		B2.B.1(c)	Horizontal and Vertical Direction of Contaminant Movement					
		B2.B.1(d)	Velocity of Groundwater Contaminant Movement					
		B2.B.1(e)	Factors Influencing Plume Movement					
		B2.B.1(f)	Extrapolation of Future contaminant Movement					
		B2.B.1(g)	Recommendations or Established Requirements for Additional					
		<i>52.5.</i> .(g)	Investigations					
	B2.B.2	Soil	ŭ					
		B2.B.2(a)	Characterization History					
		B2.B.2(b)	Description of Horizontal and Vertical Extent of Contamination					
		B2.B.2(c)	Description of Soil and Contaminant Properties					
		B2.B.2(d)	Velocity and Direction of Contaminant Movement					
		B2.B.2(e)	Extrapolation of Future Contaminant Movement					
		B2.B.2(f)	Recommendations or Established Requirements for Additional					
		()	Investigations					
	B2.B.3	Surface Wat	ter and Sediment					
		B2.B.3(a)	Characterization History					
		B2.B.3(b)	Description of Horizontal and Vertical Extent of Any					
			Contamination					
		B2.B.3(c)	Velocity of Contaminant Movement					
		B2.B.3(d)	Description of Sediment Characteristics					
		B2.B.3(e)	Description of Physical, Biological, and Chemical Factors That					
			May Influence Contaminant Movement and Their Effects					
		B2.B.3(f)	Proposed or Final Mixing Zone Determinations for Any On-Site					
			Contamination Venting to a Surface Water Body					
		B2.B.3(g)	Recommendations or Established Requirements for Additional Investigations					
	B2.B.4	Air						
		B2.B.4(a)	Characterization History					
		B2.B.4(b)	Description of Horizontal and Vertical Direction and Velocity of					
			Contaminant Movement					
		B2.B.4(c)	Rate and Amount of Release					
		B2.B.4(d)	Recommendations or Established Requirements for Additional					
			Investigations					
	B2.B.5		Gas Contamination					
		B2.B.5(a)	Characterization History					
		B2.B.5(b)	Description of Horizontal and Vertical Extent of Subsurface Gas					
		B2.B.5(c)	Contamination Migration Rate, among, and Density of Gases Being Emitted					
		B2.B.5(d)	Recommendations or Established Requirements for Additional					
		52.5.0(a)	Investigations					

B2.C	FACILITY'S E	EXPOSURE /	ASSESSMENT		
	B2.C.1	osure and Threats			
		B2.C.1(a)	Exposure Pathway		
		B2.C.1(b)	Actual or Potential Receptors		
		B2.C.1(c)	Evidence of Exposure		
	B2.C.2		ntal Exposure and Threats		
		B2.C.2(a)	Exposure Pathway		
		B2.C.2(b)	Actual or Potential Receptors		
		B2.C.2(c)	Evidence of Exposure		
B2.D	INTERIM ME	ASURES			
	B2.D.1	[Name of In	terim Measure]		
		B2.D.1(a)	Objective of the Measure		
		B2.D.1(b)	Design and Construction		
		B2.D.1(c)	Operation, Monitoring, and Maintenance		
		B2.D.1(d)	Evaluation of Measure Effectiveness		
		B2.D.1(e)	Proposed or Required Schedules for Continued Operation or		
			Future Changes in the Measure		
B2.E	ENVIRONME	_			
			ronmental Indicator Checklists		
B2.F		ASSESSMEN	IT OF KNOWN OR PROPOSED CONSTITUENTS OF		
	CONCERN				
	ESTABLISHED OR PROPOSED CLEANUP CRITERIA				
B2.H			OSED COMPLIANCE POINTS AND PERIODS		
B2.I	OFF-SITE AC				
B2.J	PUBLIC INVO	_			
	HEALTH AND SAFETY PLAN				
B2.L					
B2.M			OPOSED ELIMINATION OF ANY WASTE MANAGEMENT UNIT		
	FROM THE CORRECTIVE ACTION PROGRAM OR INTENT TO PROCEED WITH				
	CORRECTIVE ACTIONS				

B2.A FACILITY BACKGROUND

B2.A.1 History and Description of Ownership and Operation

Site description and history along with site operations, site ownership, regulatory history and previous investigations are described in Attachments *A1*, *General Facility Description and A11*, *Post-Closure Plan*.

B2.A.2 Environmental Setting

The environmental setting is described in *Attachments* A1, General Facility Description and A11, Post-Closure Plan.

B2.A.2(a) Climate

General meteorological information for Monroe County, presented within this section, is excerpted from the United States Department of Agricultural Soil Survey of Monroe County.

In the winter the average temperature is 27.6°F, and the average daily minimum temperature is 20.2°F. In summer the average temperature is 71.6°F, and the average daily maximum temperature is 81.9°F.

The total annual precipitation is 31 inches. Of this, 17.91 inches, or 58 percent, usually falls in April through September. In 2 years out of 10, the rainfall in April through September is less than 14.7 inches. Thunderstorms occur about 42 days each year, and most occur in June and July. Average seasonal snowfall is 32.9 inches. On an average of 34 days, at least 1 inch of snow is on the ground. The number of such days varies greatly from year to year.

Average relative humidity at Detroit Metropolitan Airport in mid-afternoon is about 60 percent. Humidity is higher at night and near Lake Erie. The average at dawn is about 82 percent. The sun shines 67 percent of the time possible in summer and 38 percent in winter. Prevailing wind is from the southwest. Average wind speed is highest, 11.8 miles per hour, in March, and in January, February, and April it is more than 11.6 miles per hour.

From 1995 to 1999 daily meteorological measurements were collected at the RRW. The readings included precipitation, temperature, wind speed, and wind direction. This data was presented within the Closure Certification Report, dated September 1999, but is not included herein.

B2.A.2(b) Topography

A topographic map can be seen in *Attachment II*, *Topographic Map*.

B2.A.2(c) Hydrogeology

Ground water at the site occurs in both shallow soils and bedrock underlying the site. A native deposit of saturated lacustrine clay and glacial clay till separates the two ground water units. Above the saturated clay, ground water is encountered within the marsh sediments and discontinuous sand deposits. This shallow ground water unit is not an aquifer since it is incapable

of yielding sufficient quantities of ground water to wells. Groundwater in the shallow sediments is hydraulically connected to surface water at the site, as evidenced by the close agreement between water elevations in shallow monitoring wells and the surrounding surface water bodies.

Groundwater in the bedrock aquifer beneath the site exists under confined conditions; that is, the piezometric surface is above the contact between the rock formation and the overlying glacial clay. Upward ground water flow is restricted by the clay deposit, which exhibits a laboratory measured hydraulic conductivity on the order of 10-8 centimeters per second (RCRA/MI Act 64 Post-Closure Operating License Application, NTH, 1994). Although this upward flow is restricted, the piezometric surface of the bedrock aquifer is near or above the ground surface at the site. This piezometric level has been measured historically at the site and on a quarterly basis during the last year. This confirmed upward hydraulic gradient, the key component of the on-site containment unit design, mitigates the possibility of the downward migration of chemical constituents from potentially impacted areas on-site.

Based upon historic ground water elevation measurements from deep observation wells located on-site, the horizontal direction of ground water flow in the bedrock aquifer is from north to south under a flow gradient of 0.0006 to 0.004.

B2.A.2(d) Soil

Five principal geologic strata have been identified at the site. These strata include: 1) surface fill deposits; 2) lacustrine and glacial clay; 3) relatively continuous marsh deposits; 4) a number of discontinuous sand deposits; and 5) bedrock. Each of these principal features is described in detail below.

Surface Fill is present within the RRW operational area. This fill has been placed in conjunction with RRW operation over the extended facility history. This fill is widely varied across the site and can consist of soil, aggregate, coal, foundry sand, or demolition debris. Fill deposits within the two on-site containment units is estimated to vary from 10 to 40 feet thick. Fill outside of the containment units within the RRW operational area is estimated to vary from 0 to 15 feet thick.

Native Clays are estimated to be 2 to 24 feet thick. Two distinct native clay units medium to stiff mottled brown and gray silty clay with occasional reddish clay inclusions. This deposit varies in thickness from 0 to 8 feet. A deposit of glacial till underlies the lacustrine clay. This till is generally hard to very hard and consists of a silty clay matrix containing varying amounts of coarser materials (fine sand to cobbles). The glacial till appears to occur throughout the site, and varies in thickness from 2 to 20 feet.

Marsh Deposits are estimated to be up to 8 feet thick. These deposits consist of sediments, with occasional organic matter such as shells, and peat. The sediments are typically light gray in color with a clayey silt soil texture. The peat is fibrous in texture and is typically present as seams within the sediment deposits. This stratum is present in the marsh areas around the RRW but is not present within the RRW operational area.

Discontinuous Sand Deposits approximately 5 to 9 feet thick reportedly lie below portions of the surface fill materials within the area of the closed containment units. Two separate sand deposits have been identified at the facility. One sand deposit is located in the south central portion of ECU (former Area C), and one sand deposit is located in the northwest portion of the WCU (former Area D). These sand deposits may represent buried stream channel deposits. The sand deposits contain significant quantities of shells, and may be located in the vicinity of stream channels identifiable on historical aerial photographs.

Bedrock in the vicinity of the facility was encountered at an elevation ranging from 536 to 559, based upon auger refusal during drilling around the perimeter of the containment units. These bedrock elevations are 21 feet to 44 feet below the typical site elevation of 580.

Bedrock at the site is classified as the Bass Island Group. The Bass Island Group consists of dolomites deposited in the late Silurian age and includes River Raisin and underlying Put-in-Bay dolomites. A review of the bedrock surface topography map provided in the SMGD report indicates that the bedrock surface is generally encountered at an elevation ranging from 520 feet to 550 feet above mean sea level across the site. The elevation increases in a northwesterly direction, away from Lake Erie and the River Raisin.

Raisin River Dolomite underlies the glacial till at the site. Test borings indicate that this dolomite occurs in association with a layer of soft blue-gray shale. The shale and dolomite are often highly fractured or brecciated. Reportedly, at one location in the southwest portion of the WCU, a seam of gravely coarse sand was encountered below approximately 9 feet of shale breccia. Groundwater within the bedrock is under confined conditions.

B2.A.2(e) Surface Water

The predominant hydrologic feature in the area is Lake Erie, located approximately 0.75 miles west of the RRW operational area. Water levels within Lake Erie vary dependent upon multiple factors including recharge from the various rivers feeding the lake, discharge from the Niagara River at the eastern terminus (controlled by the United States Army Corps of Engineers), evaporation, rainfall, and wind direction. Variations in the water levels of Lake Erie impact surface water flow around the facility. In other words, as water levels increase in Lake Erie, the flow gradient to the lake is decreased and water within surface water bodies adjoining the RRW operational area increase; likewise, when water levels in Lake Erie decrease the flow gradient to the lake is increased and water within surface water bodies adjoining the RRW operational area decrease.

Several surface water bodies surround the RRW operational area. These include: the Raisin River along the southern boundary; the West Marsh along the west boundary; the North Intake Canal along the northern boundary; the East Intake Canal and North Marsh northeast of the RRW operational area; and the East Marsh east of the RRW operational area between the RRW and Lake Erie. Surface water levels within these bodies vary dependent upon evaporation, rainfall, and Lake Erie water levels.

Surface water levels within the River Raisin, North Intake Canal, and East Intake Canal generally correlate closely to Lake Erie water levels. This is due to the direct connection between these water bodies and Lake Erie. There is also a general correlation between the West Marsh and River Raisin due to the direct connection between these two water bodies. The North Marsh and East Marsh are surrounded by perimeter berms that restrict interaction between the marshes and other adjacent water bodies.

With the exception of evaporation and infiltration, precipitation at the site typically enters directly into one of the on-site surface water bodies or onto the ground surface where it may travel via overland flow to one of the surrounding water bodies. The exception to this general surface water flow pattern is within the active RRW operational area. Precipitation that falls onto the active RRW operational area typically falls onto a hard surface (concrete or asphalt) and flows to the storm water management system. The storm water management system conveys the water to the on-site wastewater treatment system for management and discharge via either the City of Monroe publicly owned treatment works (POTW) or the 002 Outfall, as appropriate.

B2.A.2(f) Surrounding Land Uses

Review of the United States Department of Interior - Geological Survey (USGS) Topographical map, Stony Point Quadrangle, indicates that the RRW, along with properties to the immediate north, south and west, are located within the corporate limits of the City of Monroe. The eastern corporate limits extend to Lake Erie, along the eastern edge of the property. Frenchtown Charter Township is located approximately 0.23-miles to the north and 0.25-miles to the south of the RRW property, respectively.

MSG obtained current zoning maps from the City of Monroe and Frenchtown Charter Township. The City of Monroe zoning map indicates that the RRW property is currently zoned I-2, General Industrial District. A copy of the City of Monroe zoning map for the RRW property is presented as Drawing 1. Properties to the north (sections of Sterling State Park and the adjacent marsh), south and west (adjacent marshland to I-75 Expressway and beyond) are also currently zoned General Industrial District. A small strip of property situated between East Elm Avenue and the River Raisin to the west of the RRW to I-75 Expressway is currently zoned Waterfront Commercial District (WC). The property is currently partially undeveloped and partially being used as a RV campground/boat storage.

Review of the Frenchtown Charter Township Zoning Map indicates that the properties to the north of the City of Monroe near the RRW are currently zoned as Public Service (PS), i.e. Sterling State Park and adjacent marsh, and Agricultural (A). A strip of single family residential zoning is located between the A and PS areas, approximately 600 feet north of City of Monroe Corporate Limit.

B2.A.2(g) Critical Habitats and Endangered Species

As stated previously, the RRW is situated near large bodies of water and there are several large tracts of wooded land on and surrounding the site. A variety of wildlife and vegetation thrive in the vicinity of the site. Wildlife observed near the RRW on a regular basis includes: deer, muskrat, squirrel, raccoon, rabbit, fox, snake, wood duck, Canada geese, swan, turtle and bald eagles. In fact, as outlined in RCRA Post Closure Permit conditions, a study was performed by Eagle Environmental of Haslett, Michigan to identify bald eagle protective measures. The United States

Fish and Wildlife Service (FWS) as well as the Michigan Department of Natural Resources (MDNR) were involved in the evolution of the plan that was prepared using current FWS guidelines. During the course of the remediation project (containment unit closure and closure of areas outside of containment), the eagle management plan was implemented. Due to the success of the eagle management plan, the eagles can still be found nesting on RRW property.

The marshes, which surround the RRW to the east and west, provide a wide variety of vegetation. Types of vegetation that can be seen include marsh lily, grass, dogwood, and American Lotus. Of particular note is the protected species, American Lotus, which blooms in August in the East Marsh. The concentration of lotus in this area is among the highest in the state. In addition, vegetation was planted in disturbed areas outside of the containment units and on the top of the closed containment units to protect the cap system by reducing erosion.

B2.A.3 Characterization of Potential or Actual Sources of Contamination [R 299.9504(c) and 40 CFR §270.14(d)]

This section describes actual or potential sources of contamination at the River Raisin that are subject to the corrective action requirements of Part 111 of Act 451. These sources include WMUs that are discernible units at which contaminants have been placed at any time, or at which contaminants have been released, or at which there is a threat of release regardless of the intended use of such unit. These sources also include areas of concern that are those units which do not meet the definition of WMU, but which may have released contaminants to the environment on a non-routine basis, or which may present an unacceptable risk to public health, safety, welfare, or the environment,

B2.A.3(a) Salaried Parking Lot (SPL)

B2.A.3(a)(1) Unit Characteristics

The SPL is a 200 by 300-foot asphalt parking lot constructed in 1971, with a 6-inch base reportedly composed of a mixture of F006 hazardous waste sludge and fly ash. The parking lot operated from 1971 until present.

Figure 1 - Site Location Map, included in Attachment A-11 indicates the location of the RRW relative to existing roads and other features. Figure 2 - Site Plan, included in Attachment A-11 details the locations of the CAMUs and existing SWMUs at the site.

B2.A.3(a)(2) Waste Characteristics and Management

For the SPL, GSI Protection Criteria was exceeded for selenium and mercury, and Residential Soil Direct Contact and Residential/Industrial Drinking Water Protection Criteria was exceeded for arsenic. Site specific criteria for PCBs (9,000 ug/kg) was also exceeded in spots within the SPL. The source of the contaminants in this unit are unknown.

B2.A.3(a)(3) History of Releases or Potential to Release

The history of releases in this unit is unknown.

B2.A.3(b) Coal Pile (CP)

B2.A.3(b)(1) Unit Characteristics

The CP Area is a 175-foot by 400-foot area adjacent to the River Raisin and DTA. The USEPA identified coal as the material of concern at this location, although coal is not a solid waste as defined by RCRA. Coal piles were once stored in this area with no containment or liners. This area was covered by an asphalt pad as part of remediation activities associated with the Raisin River Area of Concern.

Figure 1 - Site Location Map, included in Attachment A-11 indicates the location of the RRW relative to existing roads and other features. Figure 2 - Site Plan, included in Attachment A-11 details the locations of the CAMUs and existing SWMUs at the site.

B2.A.3(b)(2) Waste Characteristics and Management

Sampling of this area was performed as part of the SWMU investigation in February of 1999. Based upon the SWMU Report and the February 29, 2000 comments by MDEQ, additional evaluation of this SWMU was necessary. MSG collected additional soil samples at this SWMU and conducted an exposure pathway evaluation for the compounds of concern identified in the RFI Work Plan: arsenic (As), barium (Ba), Cd, Cr, Cu, lead (Pb), mercury (Hg), selenium (Se), silver (Ag), Zn and polynuclear aromatics (PNAs). The additional soil sampling and analysis was conducted in June 2001. For the CP Area, GSI Protection Criteria was exceeded for selenium, naphthalene, phenanthrene, and mercury and Residential Soil Direct Contact was exceeded for arsenic.

B2.A.3(b)(3) History of Releases or Potential to Release

The history of releases in this unit is unknown.

B2.A.3(c) Former Coal Pile (FCP)

B2.A.3(c)(1) Unit Characteristics

The FCP is a 150-foot by 425-foot area adjacent to the River Raisin, which is no longer used for coal storage.

Figure 1 - Site Location Map, included in Attachment A-11 indicates the location of the RRW relative to existing roads and other features. Figure 2 - Site Plan, included in Attachment A-11 details the locations of the CAMUs and existing SWMUs at the site.

B2.A.3(c)(2) Waste Characteristics and Management

Sampling of this area was performed as part of the SWMU investigation in March of 1998. Results of this sampling were presented in the SWMU report.

Based upon the SWMU Report and the February 29, 2000 comments by MDEQ, additional evaluation of this SWMU was necessary. MSG collected additional soil samples at this SWMU

and conducted an exposure pathway evaluation for the compounds of concern identified in the RFI Work Plan, specifically As, Ba, Cd, Cr, Cu, Pb, Hg, Se, Ag, Zn and PNAs. The additional soil sampling and analysis was conducted in June 2001. For the FCP, GSI Protection Criteria was exceeded for selenium and mercury.

B2.A.3(c)(3) History of Releases or Potential to Release

The history of releases in this unit is unknown.

B2.A.3(d) Rifle Range (RRE)

B2.A.3(d)(1) Unit Characteristics

The RRE is a 35-foot by 50-foot area near the River Raisin and East Marsh. Reportedly, F006 hazardous waste sludge was stored in this area before it was removed and filled in with clay.

Figure 1 - Site Location Map, included in Attachment A-11 indicates the location of the RRW relative to existing roads and other features. Figure 2 - Site Plan, included in Attachment A-11 details the locations of the CAMUs and existing SWMUs at the site.

B2.A.3(d)(2) Waste Characteristics and Management

Sampling of this area was performed as part of the SWMU investigation in June of 1998. Results of this sampling were presented in the SWMU report.

Based upon the SWMU Report and the February 29, 2000 comments by MDEQ, additional evaluation of this SWMU was necessary. Additional soil samples at this SWMU were collected and an exposure pathway evaluation for the compounds of concern identified in the RFI Work Plan, specifically Cd, Cr, Cu, Ni, Zn and TCN was conducted. For the RRE, GSI Protection Criteria was exceeded for selenium, copper, mercury, and nickel. Residential Soil Direct Contact was exceeded for arsenic. Residential/Industrial Drinking Water Protection Criteria was exceeded for nickel.

B2.A.3(d)(3) History of Releases or Potential to Release

The history of releases in this unit is unknown.

B2.A.3(e) Demolition Disposal Area (DDA)

B2.A.3(e)(1) Unit Characteristics

The DDA is a 50-foot by 1,015-foot area along the River Raisin shoreline previously used to store demolition debris for erosion protection. Visual evidence of oil-like materials in this area was reported in the RCRA facility Assessment (RFA). No soil samples were collected during the RFA review. Demolition debris (approximately 16,000 yd³) was removed during the summer and fall of 1997 and placed within the ECU. Sampling of this area was performed as part of the SWMU investigation in February of 1999. Results of sampling were presented in the SWMU report.

Figure 1 - Site Location Map, included in Attachment A-11 indicates the location of the RRW relative to existing roads and other features. Figure 2 - Site Plan, included in Attachment A-11 details the locations of the CAMUs and existing SWMUs at the site.

B2.A.3(e)(2) Waste Characteristics and Management

Additional soil samples at this SWMU were collected and an exposure pathway evaluation for the compounds of concern identified in the RFI Work Plan, specifically As, Ba, Cd, Cr, Cu, Pb, Hg, Se, Ag, Zn, volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs), PNAs and phthalate esters. The additional soil sampling and analysis was conducted in June 2001. For the DDA, GSI Protection Criteria was exceeded for selenium, mercury, total cyanide, phenanthrene, fluoranthene, naphthalene, fluorene, and pyrene. Residential Soil Direct Contact was exceeded for benzo(a)pyrene, and dibenzo(a,h)anthracene. Industrial Soil Direct Contact was exceeded for PCBs. Residential/Industrial Drinking Water Protection Criteria was exceeded for vinyl chloride and total cyanide. Residential/Industrial Soil Volatilization to Indoor Air Inhalation Criteria was exceeded for vinyl chloride.

B2.A.3(e)(3) History of Releases or Potential to Release

The history of releases in this unit is unknown.

B2.A.3(f) Empty Drum Storage Area (EDSA)

B2.A.3(f)(1) Unit Characteristics

The EDSA is a 40-foot by 60-foot area previously used for the storage of drums containing waste oil, solvents, paint wastes and diesel fuel. A diesel fuel storage tank was also located in this area. Visual evidence of black-stained concrete and staining of adjacent soils was reported in the USEPA's RFA. The RCRA Post-Closure License reports that "sampling indicates the presence of heavy metal and organics in soils." Sampling of this area was performed as part of the SWMU investigation in March of 1999. Results of this sampling were presented in the SWMU report.

Figure 1 - Site Location Map, included in Attachment A-11 indicates the location of the RRW relative to existing roads and other features. Figure 2 - Site Plan, included in Attachment A-11 details the locations of the CAMUs and existing SWMUs at the site.

B2.A.3(f)(2) Waste Characteristics and Management

Based upon the SWMU Report and the February 29, 2000 comments by MDEQ, additional evaluation of this SWMU was necessary. MSG collected additional soil samples at this SWMU and conducted an exposure pathway evaluation for the compounds of concern identified in the RFI Work Plan: As, Ba, Cd, Cr, Cu, Pb, Hg, Se, Ag, Zn, VOCs, PCBs and PNAs. The additional soil sampling and analysis was conducted in June and September 2001. For the EDSA, GSI Protection Criteria was exceeded for selenium, copper, mercury, total cyanide, vinyl chloride, cadmium, zinc, xylenes, ethylbenzene, silver, 1,1,1-trichloroethane, 1,1-dichloroethylene, and cis-1,2-dichloroethylene. Residential Soil Direct Contact was exceeded for total cyanide and arsenic. Industrial Soil Direct Contact was exceeded for PCBs. Industrial Drinking Water Protection Criteria

was exceeded for copper, cadmium, 1,1-dichloroethylene, ethylbenzene, total cyanide, 1,1,1-trichloroethane, 1,1,2-trichloroethane, trichloroethylene, vinyl chloride, and total cyanide. Residential Drinking Water Protection Criteria was exceeded for 1,1-dichloroethane and zinc. Residential/Industrial Soil Volatilization to Indoor Air Inhalation Criteria was exceeded for vinyl chloride and 1,1-dichloroethylene.

B2.A.3(f)(3) History of Releases or Potential to Release

The history of releases in this unit is unknown.

B2.A.3(g) Former Drum Storage Area (FSDA)

B2.A.3(g)(1) Unit Characteristics

The FDSA is a 30-foot by 50-foot area previously used for less than 90-day storage of compactor wastes, oil and coil spring dust and slag. Oily waste from this area was drained via a sump to storage tanks. No samples were collected during the USEPA RFA. Sampling of this area was performed as part of the SWMU investigation in March of 1999. Results of this sampling were presented in the SWMU report.

Figure 1 - Site Location Map, included in Attachment A-11 indicates the location of the RRW relative to existing roads and other features. Figure 2 - Site Plan, included in Attachment A-11 details the locations of the CAMUs and existing SWMUs at the site.

B2.A.3(g)(2) Waste Characteristics and Management

Based upon the SWMU Report and the February 29, 2000 comments by MDEQ, additional evaluation of this SWMU was necessary. MSG collected additional soil samples at this SWMU and conducted an exposure pathway evaluation for the compounds of concern identified in the RFI Work Plan: As, Ba, Cd, Cr, Cu, Pb, Hg, Se, Ag, Zn, VOCs, PCBs and PNAs. The additional soil sampling and analysis was conducted in June and September 2001. For the FDSA, GSI Protection Criteria was exceeded for selenium, copper, mercury, phenanthrene, naphthalene, and fluoranthene. Industrial Soil Direct Contact was exceeded for PCBs and benzo(a)pyrene.

B2.A.3(g)(3) History of Releases or Potential to Release

The history of releases in this unit is unknown.

B2.A.3(h) Current Drum Storage Area (CDSA)

B2.A.3(h)(1) Unit Characteristics

At the time of the RFA, the CDSA, which measured 5-foot by 30-foot, was used for less than 90-day storage of oily waste, compactor waste, coil spring dust, and slag. This area was active from 1987 until 1998. No soil samples were collected during the RFA. Sampling of this area was performed as part of the SWMU investigation in March of 1999. Results of this sampling were presented in the SWMU report.

Figure 1 - Site Location Map, included in Attachment A-11 indicates the location of the RRW relative to existing roads and other features. Figure 2 - Site Plan, included in Attachment A-11 details the locations of the CAMUs and existing SWMUs at the site.

B2.A.3(h)(2) Waste Characteristics and Management

Based upon the SWMU Report and the February 29, 2000 comments by MDEQ, additional evaluation of this SWMU was necessary. MSG collected additional soil samples at this SWMU and conducted an exposure pathway evaluation for the compounds of concern identified in the RFI Work Plan: As, Ba, Cd, Cr, Cu, Pb, Hg, Se, Ag, Zn, VOCs, PCBs and PNAs. The additional soil sampling and analysis was conducted in June 2001. For the CDSA, GSI Protection Criteria was exceeded for selenium and xylenes. Industrial Soil Direct Contact was exceeded for PCBs. Residential Soil Volatilization to Indoor Air Inhalation Criteria was exceeded for 1,1-dichloroethylene.

B2.A.3(h)(3) History of Releases or Potential to Release

The history of releases in this unit is unknown.

B2.A.3(i) Filter Press Area (FPA)

B2.A.3(i)(1) Unit Characteristics

The FPA is a 200-foot by 50-foot area at the wastewater treatment plant. Visual evidence of staining in this area was reported in the RFA. The RCRA Post Closure License reported that "sampling in this area indicated the presence of heavy metals and organics in the soils." Sampling of this area was performed as part of the SWMU investigation in June of 1998. Results of this sampling were presented in the SWMU report.

Figure 1 - Site Location Map, included in Attachment A-11 indicates the location of the RRW relative to existing roads and other features. Figure 2 - Site Plan, included in Attachment A-11 details the locations of the CAMUs and existing SWMUs at the site.

B2.A.3(i)(2) Waste Characteristics and Management

Based upon the SWMU Report and the February 29, 2000 comments by MDEQ, additional evaluation of this SWMU was necessary. MSG collected additional soil samples at this SWMU and conducted an exposure pathway evaluation for the compounds of concern identified in the RFI Work Plan: As, Ba, Cd, Cr, Cu, Pb, Hg, Se, Ag, Zn, VOCs, PCBs and PNAs. The additional soil sampling and analysis was conducted in June and September 2001. For the FPA, GSI Protection Criteria was exceeded for selenium and copper.

B2.A.3(i)(3) History of Releases or Potential to Release

Due to a malfunction in the filter press equipment, F006 sludge material leaked out of the east side of the treatment plant building and spilled onto the outside soils. There are no filter press equipment remaining diminishing the potential for additional release.

B2.A.3(j) Dead Tree Area (DTA)

B2.A.3(j)(1) Unit Characteristics

The DTA was a 100-foot by 600-foot natural ground depression adjacent to the River Raisin containing dead trees. Standing water in this depression likely killed the trees. Natural depressions in this area containing coal, construction debris, and fine-grained oily material were reported during the RFA. No soil samples were taken during the RFA. From 1995 to 1997, approximately 1,000 cubic yards of construction debris and soil were removed from this area and placed within the on-site ECU landfill. Sampling of this area was performed as part of the SWMU investigation in January, April and June of 1996. Results of this sampling were presented in the SWMU report.

Figure 1 - Site Location Map, included in Attachment A-11 indicates the location of the RRW relative to existing roads and other features. Figure 2 - Site Plan, included in Attachment A-11 details the locations of the CAMUs and existing SWMUs at the site.

B2.A.3(j)(2) Waste Characteristics and Management

Based upon the SWMU Report and the February 29, 2000 comments by MDEQ, additional evaluation of this SWMU was necessary. MSG collected additional soil samples at this SWMU and conducted an exposure pathway evaluation for the compounds of concern identified in the RFI Work Plan: As, Ba, Cd, Cr, Cu, Pb, Hg, Se, Ag, Zn, VOCs, PCBs, PNAs and phthalate esters. The additional soil sampling and analysis was conducted in June and September 2001. For the DTA, GSI Protection Criteria was exceeded for selenium, copper, mercury, phenanthrene, fluoranthene, trichloroethylene, and silver. Industrial Soil Direct Contact was exceeded for PCBs. Residential Soil Direct Contact was exceeded for benzo(a)pyrene.

B2.A.3(j)(3) History of Releases or Potential to Release

The history of releases in this unit is unknown.

B2.A.3(k) Tower Area (TWA)

B2.A.3(k)(1) Unit Characteristics

The TWA is a section of the RRW outside of the WCU that was remediated as part of the post-closure construction activities. All sludge and impacted soil was excavated from this area, solidified, and disposed of within the on-site containment units, except for impacted soils beneath the bearing area of the tower foundations and within the dike adjacent to the East Intake Canal. Verification sampling was performed in 1997 in accordance with the MDEQ verification sampling guidance. A drawing showing verification sample locations, discussion of verification sampling procedures, and verification sample results was presented within the Certification Report. Closure criteria identified within the Act 64 Post-Closure Operating Permit (MID 005 057 005) were not achieved beneath the towers and within the dike adjacent to the East Intake Canal. Therefore, further evaluation of this area was included as part of the RFI.

Figure 1 - Site Location Map, included in Attachment A-11 indicates the location of the RRW relative to existing roads and other features. Figure 2 - Site Plan, included in Attachment A-11 details the locations of the CAMUs and existing SWMUs at the site.

B2.A.3(k)(2) Waste Characteristics and Management

Based upon the sample results presented within the Certification Report and subsequent February 29, 2000 comments by MDEQ, additional evaluation of this SWMU was necessary. MSG collected additional soil samples at this SWMU and conducted an exposure pathway evaluation for the compounds of concern identified in the RFI Work Plan: As, Ba, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Zn, and TCN. The additional soil sampling and analysis was conducted in June 2001. For the TWA, GSI Protection Criteria was exceeded for selenium, copper, mercury, nickel, silver, and zinc. Residential/Industrial Drinking Water Protection Criteria was exceeded for arsenic, mercury, and nickel. Residential Direct Contact Criteria was exceeded for arsenic and copper.

B2.A.3(k)(3) History of Releases or Potential to Release

The history of releases in this unit is unknown.

B2.A.3(I) West Lagoon (WLA)

B2.A.3(I)(1) Unit Characteristics

The WLA is located on a portion of land north of the main plant building and south of the WCU. It is currently covered by asphalt pavement and used for storage of metal part racks. The former West Lagoon is approximately 512 feet long, 64 feet wide and 10 feet deep.

The former West Lagoon was closed in 1984 in accordance with an USEPA-approved Closure Plan. Subsequently, MDEQ requested that the closure of the former West Lagoon be reevaluated as part of the review process for other surface impoundments at the Monroe Plant. As part of this re-evaluation, further subsurface investigation activities were conducted at the former West Lagoon. Further discussion of this investigation was included in the Closure Report.

The reviewed documents indicate that the WLA was previously used as an effluent settling pond for the settling of treated plating sludge and the storage of the settled wastewater treatment sludge until approximately 1956. It was then converted into a surface impoundment for the storage of RCRA sludge. The WLA remained in service until approximately 1984. At that time, it was taken out of service and closed in accordance with the RCRA closure requirements in effect. Prior to closure, the stored sludge and selected soils were excavated and disposed of at an off-site facility. Soil samples were collected at the completion of the excavation activities, and the closure of the WLA was approved by the USEPA on July 27, 1984.

As part of closure activities for remaining surface impoundments, the MDEQ requested that reevaluation of the WLA be included as part of the closure activities for the remaining surface impoundments located on-site. Accordingly, a WLA investigation was conducted. A total of 66 soil samples from 20 boring locations were collected from the WLA during 1995 as part of a limited subsurface investigation titled *Investigation Report of Former West Lagoon*. This investigation was conducted by NTH Consultants LTD to satisfy Post-Closure Operating License requirements. Results of this investigation were provided to MDEQ as part of the Closure Certification Report.

Figure 1 - Site Location Map, included in Attachment A-11 indicates the location of the RRW relative to existing roads and other features. Figure 2 - Site Plan, included in Attachment A-11 details the locations of the CAMUs and existing SWMUs at the site.

B2.A.3(I)(2) Waste Characteristics and Management

Based upon the sample results presented within the *Closure Certification Report*, dated September 9, 1999 and subsequent February 29, 2000 comments by MDEQ, additional evaluation of this SWMU was necessary. MSG has conducted an exposure pathway evaluation for the compounds of concern identified in the RFI Work Plan: As, Ba, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Zn, and TCN. Additional soil sampling and analysis was not performed, but the existing data indicates that GSI Protection Criteria was exceeded for selenium. Residential/Industrial Drinking Water Protection Criteria was exceeded for selenium. Residential Direct Contact Criteria was exceeded for arsenic.

B2.A.3(I)(3) History of Releases or Potential to Release

The history of releases in this unit is unknown.

B2.A.3(m) Process Canal

B2.A.3(m)(1) Unit Characteristics

Figure 1 - Site Location Map, included in Attachment A-11 indicates the location of the RRW relative to existing roads and other features. Figure 2 - Site Plan, included in Attachment A-11 details the locations of the CAMUs and existing SWMUs at the site.

B2.A.3(m)(2) Waste Characteristics and Management

The source of the contaminants in this unit are unknown.

B2.A.3(m)(3) History of Releases or Potential to Release

The history of releases in this unit are unknown.

B2.A.3(n) Fire Line Area

B2.A.3(n)(1) Unit Characteristics

In February, 2003 a leak in the building perimeter fire line occurred in the north parking area, north of the main manufacturing building at the RRW. During excavation to determine the status of the fire line, drum fragments and fill soils were discovered. This material was removed to a lined and covered 20-yd³ roll-off container pending waste characterization sampling and results.

Figure 1 - Site Location Map, included in Attachment A-11 indicates the location of the RRW relative to existing roads and other features. Figure 2 - Site Plan, included in Attachment A-11 details the locations of the CAMUs and existing SWMUs at the site.

B2.A.3(n)(2) Waste Characteristics and Management

The VOCs and SVOCs analyzed for were all below detection limits. Zinc and barium had results above detection limits, 17 and 1.4 mg/L respectively, and all other analyzed metals were below detection limits. Aroclor 1248 had a concentration of 1,000 mg/kg while all other Aroclors were below detection limits.

Based on the laboratory results of the soil removed in February 2003, all soil and ground water encountered during the repair activities were containerized. Soil removed from the excavation was placed in lined and covered 20-yd³ roll-off containers prior to disposal at EQ. Water from the excavation was placed in a 10,000-gallon tank prior to disposal at EQ. The total amount of soil and ground water removed from the site and disposed of was 89 tons and 116,325 gallons, respectively. Remedial investigation activities for the Fire Line area are currently ongoing.

B2.A.3(n)(3) History of Releases or Potential to Release

The history of releases in this unit is unknown.

B2.A.3(o) SB01-06 Area

B2.A.3(o)(1) Unit Characteristics

As part of an independent investigation being conducted for the River Raisin, the United States Environmental Protection Agency (USEPA) advanced six (6) soil borings (SB01 through SB06) and completed one (1) test pit (TP01) on the shore adjacent to the River Raisin on the Monroe Plant property, collected soil samples, and submitted these soil samples for analytical testing

Figure 1 - Site Location Map, included in Attachment A-11 indicates the location of the RRW relative to existing roads and other features. Figure 2 - Site Plan, included in Attachment A-11 details the locations of the CAMUs and existing SWMUs at the site.

B2.A.3(o)(2) Waste Characteristics and Management

Laboratory results of the soil samples collected from SB03 and SB06 exhibited elevated polychlorinated biphenyl (PCB) concentrations ranging from 1.5 to 330 milligrams per kilograms (mg/kg). Remedial investigation activities for the SB01-06 A area are currently ongoing.

B2.A.3(o)(3) History of Releases or Potential to Release

The history of releases in this unit are unknown.

B2.B FACILITY'S ASSESSMENT OF KNOWN NATURE AND EXTENT OF CONTAMINATION

B2.B.1 Groundwater

B2.B.1(a) Characterization History

Potential ground water impacts from the identified on-site solid waste management units (SWMUs) have been investigated in accordance with the MDEQ approved *Ground water Investigation Work Plan (GIWP)*, dated September 1, 1998, and the Act 64 Post-Closure Operating License (MID 005 057 005). This investigation effort is detailed in the *Final Ground Water Investigation Report* dated July 26, 2002.

The purpose of the Final Ground Water Investigation Report (FGWIR) was to document hydraulic monitoring conducted at the site, and ground water sampling associated with the SWMUs. The ground water sampling included twelve (12) monitoring wells dedicated to SWMU ground water quality assessment. The hydraulic monitoring included measurement of ground water elevations at sixteen (16) monitoring wells dedicated to SWMU ground water quality assessment, as well as the existing post-closure ground water monitoring network.

The FGWIR presented the results of ground water sampling conducted in January/February 2001, May 2001, August 2001 and December 2001 at the downgradient monitoring wells. Sample parameters included the following.

- Volatile Organic Compounds (VOCs) using USEPA Method 8260
- Semi-Volatile Organic Compounds (SVOCs) using USEPA Method 8270
- Polychlorinated Biphenyls (PCBs) using USEPA Method 8082
- Pesticides using USEPA Method 8081
- Herbicides using USEPA Method 8051
- Total Cyanide (TCN) using USEPA Method 9010B
- Seventeen (17) Metals using USEPA Methods 6010 and 7470
- Dioxins using USEPA Method 1613A

Completion of the sampling provided data to determine ground water quality downgradient of each SWMU. Furthermore, three of the ground water monitoring wells (GW-7, GW-8, and GW-9), not associated with SWMUs at the site were sampled. These monitoring wells are located at the southern boundary of the site along the River Raisin, and were included in the sampling program to investigate ground water quality downgradient of the main plant area. The GW wells that were sampled, associated with each SWMU, are shown in the following table.

SWMU	Wells	Downgradient Well
Salaried Parking Lot	GW-1, GW-2, GW-3	GW-2
Former Coal Pile	GW-4, GW-5, GW-6	GW-5
Dead Tree Area	GW-10, GW-11R, GW-12	GW-10, GW-11R, GW-12

Coal Pile	GW-10, GW-11R, GW-12	GW-10, GW-11R, GW-12
Demolition Disposal Area	GW-10, GW-11R, GW-12	GW-10, GW-11R, GW-12
Filter Press Area	GW-13, GW-14	GW-13
Current Drum Storage Area	GW-13, GW-14, GW-15	GW-14
Former Drum Storage Area	GW-14, GW-15	GW-15
Empty Drum Storage Area	GW-15, GW-16	GW-16

Hydraulic monitoring conducted during the Final Ground Water Investigation verified the down gradient ground water wells associated with each SWMU, and data indicated that inward and upward hydraulic gradients were established and maintained at the ECU and WCU.

Prior to the collection of samples for laboratory analysis, the field parameters of temperature, pH, and specific conductivity were recorded at each monitoring well location. Ground water temperatures ranged from 4.4 to 21.5 degrees Celsius, and the specific conductivity measurements ranged from 0.53 to 4.91 mS/cm. The pH measurements at the ground water monitoring wells ranged from 6.1 to 7.8.

The results from the GW wells were evaluated against all MDEQ Part 201 criteria. Concentrations above Residential Drinking Water (RDW) and Ground Water-Surface Water Interface (GSI) criteria constituted the majority of exceedances. Concentrations were compared with all Part 201 criteria and any criteria exceedance other than RDW and GSI are noted on the tables in Section B3.

There were no herbicides, pesticides or dioxins detected in any of the ground water well samples during all of the sampling periods and the levels of total cyanide and SVOCs measured in the ground water samples were consistently lower than all established criteria. Silver, tin and beryllium were never detected at the GW wells. Barium, cobalt, thallium and zinc were detected but never exceeded any criteria at any of the GW wells.

Antimony RDW exceedances were recorded at each GW well during January and/or May 2001. However, antimony was not detected at any well during the September or December 2001 sampling periods. The only mercury detection and exceedance occurred at GW-16 in May. No other detections of mercury were recorded. All selenium concentrations above GSI criteria at the down gradient SWMU wells were subjected to trend analyses and shown to be non-significant. Monitoring well GW-15 was the only location that had a nickel exceedance.

During each of the four sampling rounds, samples collected from GW-11R exceeded both GSI and RDW criteria for arsenic. However, GW-10, which did not have any reported arsenic exceedances, is located down gradient from GW-11R.

PCBs were detected and exceeded RDW and GSI criteria during each sampling period at GW-16. Monitoring well GW-16 is the only GW well where PCBs were detected.

Vinyl Chloride exceedances occurred during each of the four sampling periods for ground water wells GW-11R, GW-12, GW-15, and GW-16 with the exception of the May sampling round for

GW-15. All noted exceedances were above both GSI and RDW criteria with the exception of the May and December sampling rounds for GW-11R (only a RDW criteria exceedance), and the December sampling round for GW-16 (also a RDW criteria exceedance). Vinyl chloride was not detected at any other well during any of the sampling periods. GW-15 also had exceedances for several VOCs that were not detected at any of the other GW wells.

B2.B.1(b) Description of Horizontal and Vertical Extent of Plume(s)

There are no plumes at the site.

B2.B.1(c) Horizontal and Vertical Direction of Contaminant Movement

There are no plumes at the site.

B2.B.1(d) Velocity of Groundwater Contaminant Movement

There are no plumes at the site.

B2.B.1(e) Factors Influencing Plume Movement

There are no plumes at the site.

B2.B.1(f) Extrapolation of Future Contaminant Movement

There are no plumes at the site.

B2.B.1(g) Recommendations or Established Requirements for Additional Investigations

Remedial Investigation (RI) for supplemental investigation activities associated with RCRA Facility Investigation (RFI) and the Final Ground Water Investigation at the River Raisin Warehouse are currently ongoing. These activities were discussed between the MDEQ, Ford, and MSG in multiple correspondence (both written and verbal), and were ultimately approved by the Michigan Department of Environmental Quality (MDEQ) in a June 6, 2014 letter to Ford.

B2.B.2 Soil

B2.B.2(a) Characterization History

The Waste Disposal Surface Impoundment Closure Project at the Ford River Raisin Warehouse (RRW) in Monroe, Michigan was undertaken by Ford Motor Company (Ford) to properly close onsite waste management units. Work for this project was performed in accordance with the Act 64 Post-Closure Operating License and the Resource Conservation and Recovery Act (RCRA) Permit (MID 005 057 005), dated March 27, 1995. This closure involved construction of two final on-site containment units, the Western Containment Unit (ECU) and the Western Containment Unit (WCU), that encompassed six separate surface impoundments (Areas A, B, C, D, the Polishing Lagoon, and the North Lagoon). In addition, six areas outside the boundary of the two on-site containment units were cleaned to applicable standards, the contents placed within the two on-site containment units, and closed (Area D-West, Area D-North, North Intake Canal, West Marsh, Area D Towers and the Process Canal). Also, an on-site sediment containment unit was built to hold sediments dredged during the River Raisin Sediment Removal project. Finally, several other on-site waste management areas were remediated and the contents disposed of within the on-site containment units as part of the activities within the corrective action management unit (CAMU).

In addition to the construction and closure of the ECU and WCU other corrective action activities were conducted at the RRW. A summary of the corrective action activities is contained below.

On March 24, 2000, MDEQ issued an Amendment, Amendment #2, to the Act 64 Post-Closure Operating License. This Amendment included several corrective action conditions. Essentially, the corrective action conditions that were formally part of the USEPA RCRA Post-Closure Permit were incorporated into the MDEQ Permit and the MDEQ assumed the lead role for corrective action at the site. As part of the Amendment, Permit Condition V.C.2 required submittal of a RCRA Facility Investigation (RFI) Work Plan. This Permit Condition also identified sixteen separate areas for evaluation under the RFI Work Plan and included the original ten EPA designated SWMUs and an additional six evaluation areas listed as numbers eleven through sixteen below. A seventeenth SWMU has been added based upon MDEQ direction in an April 18, 2003 letter.

- Salaried Parking Lot (SPL)
- 2. Coal Pile (CP)
- 3. Former Coal Pile (FCP)
- 4. Rifle Range (RRE)
- 5. Demolition Disposal Area (DDA)
- 6. Empty Drum Storage Area (EDSA)
- 7. Former Drum Storage Area (FDSA)
- 8. Current Drum Storage Area (CDSA)
- 9. Filter Press Area (FPA)
- 10. Dead Tree Area (DTA)
- 11. West/West Marsh Area (Area D West/West Marsh Area)
- 12. North/North Intake Canal Grid 1 (Area D North/North Intake Canal-Canal 1)
- 13. North/North Intake Canal Grid 2 (Area D North/North Intake Canal-Canal 2)
- 14. Tower Area (TWA)
- 15. West Lagoon (WLA)
- 16. Process Canal
- 17. Fire Line Area

The USEPA originally identified ten SWMUs during completion of a RCRA Facility Assessment

(RFA) conducted at the RRW. The SWMUs identified by USEPA are the first ten areas in the above list. The ten SWMUs were identified by USEPA in the 1995 RCRA Post-Closure Operating Permit (MID 005 057 005), and a release assessment investigation was required as a condition of said permit. A RAW-QAPP dated June 27, 1995 was prepared and submitted to USEPA. A revision of the RAW-QAPP was developed and submitted to USEPA on February 25, 1998. This RAW-QAPP addressed the ten SWMUs identified by USEPA. The Mannik & Smith Group, Inc. (MSG) implemented the RAW-QAPP in 1999. The results of this investigation effort are presented in the Soil Investigation Report of Solid Waste Management Units (SWMU Report), dated October 1999. Figure 1 - Site Location Map, included in Attachment A-11 indicates the location of the RRW relative to existing roads and other features. Figure 2 - Site Plan, included in Attachment A-11 details the locations of the CAMUs and existing SWMUs at the site. Each SWMU is also shown on Topographic Site Plan contained in Section A13.

As previously mentioned, several other on-site waste management areas were remediated as part of the activities within the corrective action management unit which included the DTA, DDA, FCP, and CP. Corrective actions for the DTA, DDA, FCP, and CP were conducted prior to the implementation of the RAW-QAPP during closure construction activities and a brief explanation of corrective actions is provided below.

As mentioned above, as part of an independent investigation being conducted for the River Raisin, the United States Environmental Protection Agency (USEPA) advanced six (6) soil borings (SB01 through SB06) and completed one (1) test pit (TP01) on the shore adjacent to the River Raisin on the Monroe Plant property, collected soil samples, and submitted these soil samples for analytical testing.

B2.B.2(b) Description of Horizontal and Vertical Extent of Contamination

Remedial investigation activities are currently ongoing.

B2.B.2(c) Description of Soil and Contaminant Properties

Remedial investigation activities are currently ongoing.

B2.B.2(d) Velocity and Direction of Contaminant Movement

Remedial investigation activities are currently ongoing.

B2.B.2(e) Extrapolation of Future Contaminant Movement

Remedial investigation activities are currently ongoing.

B2.B.2(f) Recommendations or Established Requirements for Additional Investigations

Remedial Investigation (RI) for supplemental investigation activities associated with RCRA Facility Investigation (RFI) and the Final Ground Water Investigation at the River Raisin Warehouse are currently ongoing. These activities were discussed between the MDEQ, Ford, and MSG in multiple correspondence (both written and verbal), and were ultimately approved by the Michigan Department of Environmental Quality (MDEQ) in a June 6, 2014 letter to Ford.

B2.B.3 Surface Water and Sediment

B2.B.3(a) Characterization History

No surface water and or sediment characterization has been necessary as part of the current investigation activities.

B2.B.3(b) Description of Horizontal and Vertical Extent of Any Contamination

No surface water and or sediment horizontal and vertical contamination description has been necessary as part of the current investigation activities.

B2.B.3(c) Velocity of Contaminant Movement

No surface water and or sediment velocity investigation has been necessary as part of the current investigation activities.

B2.B.3(d) Description of Sediment Characteristics

No sediment characterization has been necessary as part of the current investigation activities.

B2.B.3(e) Description of Physical, Biological, and Chemical Factors That May Influence Contaminant Movement and Their Effects

No surface water and or sediment characterization has been necessary as part of the current investigation activities.

B2.B.3(f) Proposed or Final Mixing Zone Determinations for Any On-Site Contamination Venting to a Surface Water Body

No surface water and or sediment characterization has been necessary as part of the current investigation activities.

B2.B.3(g) Recommendations or Established Requirements for Additional Investigations

No surface water and or sediment characterization has been necessary as part of the current investigation activities.

B2.B.4 Air

B2.B.4(a) Characterization History

MSG conducted ambient air monitoring during the Interim Response activities. The results of the air monitoring were submitted to MDEQ-WHMD during the Interim Response activities.

In addition, during RI activities, it was determined that soils associated with the Fire Line Area extended underneath a portion of the plant building. Sub slab vapor pins were installed in the portion of the building where impacted soils exist underneath the concrete slab floor. These sub slab vapor pins along with several indoor ambient air locations are currently being investigated for VOC's and SVOC's.

B2.B.4(b) Description of Horizontal and Vertical Direction and Velocity of Contaminant Movement

Air investigation is currently ongoing.

B2.B.4(c) Rate and Amount of Release

Air investigation is currently ongoing.

B2.B.4(d) Recommendations or Established Requirements for Additional Investigations

Sub slab vapor and indoor ambient air investigation has been added to the Remedial Investigation (RI) for supplemental investigation activities associated with RCRA Facility Investigation (RFI) and the Final Ground Water Investigation at the River Raisin Warehouse. These activities regarding air sampling were discussed between the MDEQ, Ford, and MSG in multiple correspondence (both written and verbal), and were ultimately approved by the Michigan Department of Environmental Quality (MDEQ).

B2.B.5 Subsurface Gas Contamination

B2.B.5(a) Characterization History

In addition, during RI activities, it was determined that soils associated with the Fire Line Area extended underneath a portion of the plant building. Sub slab vapor pins were installed in the portion of the building where impacted soils exist underneath the concrete slab floor. These sub slab vapor pins along with several indoor ambient air locations are currently being investigated for VOC's and SVOC's.

B2.B.5(b) Description of Horizontal and Vertical Extent of Subsurface Gas Contamination Migration

Subsurface gas investigation is currently ongoing.

B2.B.5(c) Rate, Amount, and Density of Gases Being Emitted

Subsurface gas investigation is currently ongoing.

B2.B.5(d) Recommendations or Established Requirements for Additional Investigations

Subsurface gas investigation is currently ongoing.

B2.C FACILITY'S EXPOSURE ASSESSMENT

Soil, ground water, ambient air and subsurface gas investigation is currently ongoing. Based on initial investigation, there is no immediate risk.

B2.C.1 Human Exposure and Threats

B2.C.1(a) Exposure Pathway

See B2.B for summary of RFI soil and ground water results. RI activities for soil, ground water, ambient air and subsurface gas investigation is currently ongoing. Based on initial investigation, there is no immediate risk.

B2.C.1(b) Actual or Potential Receptors

See B2.B for summary of RFI soil and ground water results. RI activities for soil, ground water, ambient air and subsurface gas investigation is currently ongoing. Based on initial investigation, there is no immediate risk.

B2.C.1(c) Evidence of Exposure

See B2.B for summary of RFI soil and ground water results. RI activities for soil, ground water, ambient air and subsurface gas investigation is currently ongoing. Based on initial investigation, there is no immediate risk.

B2.C.2 Environmental Exposure and Threats

B2.C.2(a) Exposure Pathway

See B2.B for summary of RFI soil and ground water results. RI activities for soil, ground water, ambient air and subsurface gas investigation is currently ongoing. Based on initial investigation, there is no immediate risk.

B2.C.2(b) Actual or Potential Receptors

See B2.B for summary of RFI soil and ground water results. RI activities for soil, ground water, ambient air and subsurface gas investigation is currently ongoing. Based on initial investigation, there is no immediate risk.

B2.C.2(c) Evidence of Exposure

See B2.B for summary of RFI soil and ground water results. RI activities for soil, ground water, ambient air and subsurface gas investigation is currently ongoing. Based on initial investigation, there is no immediate risk.

B2.D INTERIM MEASURES

Based on the results of the October 1999 SWMU investigation and the data collected during the 2001 RFI, interim soil corrective measures were implemented to minimize exposure potential. Specifically, the RRW has implemented engineering and operational controls to eliminate exposures for direct contact, and potential exposures to ground water and surface water bodies. Ford has procedures in place to notify all RRW personnel of the locations of all of the identified SWMUs, the containment units, and the ground water investigation and post-closure monitoring wells. This procedure also includes a warning not to disturb, in any manner, the identified areas and appurtenances and to report any unusual activities in these areas. Ford repeats this notification periodically to ensure all RRW personnel, including new employees, are aware of the procedures.

Ford has also posted signs at selected areas that remain under evaluation. These areas include the CP, FCP, DDA, EDSA, FPA, RRE, and the DTA. Additionally, several of the SWMUs are partially or completely covered by asphalt or concrete, or have been isolated by means of fencing or other barriers.

B2.D.1 Ford Outfall Site

B2.D.1(a) Objective of the Measure

The River Raisin Sediment and Soil Removal portions of the Removal Action at the Ford Outfall Site Project was initiated in April 1997 and consisted of dredging PCB (polychlorinated biphenyls) impacted sediments from a portion of the River Raisin adjacent to the RRW.

B2.D.1(b) Design and Construction

The estimated final volume of removed storm sewer material was 350-400 CY of material and disposed of in the on site Sediment Containment Unit (SCU). Dredged sediments were subsequently solidified and placed into the on-site SCU specifically constructed for the Ford Outfall Site project. Approximately 30,000 cubic yards of sediment were dredged from the Raisin River and disposed of in the SCU.

B2.D.1(c) Operation, Monitoring, and Maintenance

Not applicable.

B2.D.1(d) Evaluation of Measure Effectiveness

Confirmation samples were collected after interim measures were completed to ensure the effectiveness of the measure.

B2.D.1(e) Proposed or Required Schedules for Continued Operation or Future Changes in the Measure

Not applicable.

B2.E ENVIRONMENTAL INDICATORS

The two EIs (EI725 and IE750 have been completed for the facility. The EI725 was submitted on August 28, 2001 and the EI750 was submitted on March 25, 2005. Each form (EI725 and EI750 are provided below as attachment B2.E.1 of this attachment.

B2.F FACILITY'S ASSESSMENT OF KNOWN OR PROPOSED CONSTITUENTS OF CONCERN

[R 299.9629(3)(a)(i) and (3)(b)(i)]

Solid Waste Management Unit (SWMU) Corrective Measures			
Unit/Area Name	Result of RFI Implementation	Most Likely Case Remedy	
Salaried Parking Lot	GSI Protection Criteria was exceeded for Se, and Residential Soil Direct Contact and Residential/Industrial Drinking Water Protection Criteria was exceeded for As.	Groundwater monitoring ; Dead restriction	
Coal Pile	GSI Protection Criteria was exceeded for Se, naphthalene, phenanthene, and Hg and Residential Soil Direct Contact was exceeded for As.	Engineering controls; groundwater monitoring; deed restriction	
Former Coal Pile	GSI Protection Criteria was exceeded for Se and Hg.	Engineering controls; groundwater monitoring; deed restriction	
Rifle Range Pile	GSI Protection Criteria was exceeded for Se, Cu, Hg, and Ni. Residential Soil Direct Contact was exceeded for As. Residential/Industrial Drinking Water Protection Criteria was exceeded for Ni.	Deed restriction DESIGN COMPLETE	
Demolition Disposal Area	GSI Protection Criteria was exceeded for Se, Hg, CN, phenanthrene, fluoranthene, napthalene, fluorene, pyrene. Residential Soil Direct Contact was exceeded for benzo(a)pyrene, and dibenzo(a,h)anthracene. Residential/Industrial Drinking Water Protection Criteria was exceeded for vinyl chloride and total cyanide. Residential/Industrial Soil Volatilization to Indoor Ai Inhalation Criteria was exceeded for vinyl chloride.	Engineering controls; groundwater monitoring; deed restriction	
Empty Drum Storage Area	GSI Protection Criteria was exceeded for Se, Cu, Hg, phenanthrene, napthalene, fluoranthene. Residential Soil Direct Contact was exceeded for CN and As, 1,1,1-TCA, 1,1-DCE, and cis 1,2-DCE. Industrial Drinking Water Protection Criteria was exceeded for Cu, Cd, 1,1,1-DCE, ethylbenzene, 1,1,1-TCA, 1,1,2-TCA, vinyle chloride, and total cyanide. Residential/Industrial Drinking Water Protection Criteria was exceeded for 1,1-DCA and Zn. Residential/Industrial Soil Volatilization to Indoor Ai Inhalation Criteria was exceeded for 1,1-DCE.	Removal of impacted soil limits composed by plan engineer controls; groundwater deed restriction—interim measures/reports of these finding were created.	
Former Drum Storage Area	GSI Protection Criteria was exceeded for Se, Cu, Hg, phenanthrene, napthalene, fluoranthene. Industrial Soil Direct Contact was exceeded for PCBs benzo(a)pyrene.	Groundwater monitoring; deed restricting	
Current Drum Storage Area	GSI Protection Criteria was exceeded for Se and xylenes. Industrial Soil Direct Contact was exceeded for PCBs. Residential/Industrial Soil Volatilization to Indoor Ai Inhalation Criteria was exceeded for 1,1-DCE.	Groundwater monitoring; deed restricting	
Filter Press Area	GSI Protection Criteria was exceeded for Se and Cu.	Groundwater monitoring; deed restricting	
Dead Tree Area	GSI Protection Criteria was exceeded for Se, Cu, Hg, phenanthrene, fluoranthene, trichloroethylene, and Ag. Residential Soil Direct Contact was exceeded for benzo(a)pyrene	Engineering controls; groundwater monitoring; deed restriction	
Former Area D Tower Area	GSI Protection Criteria was exceeded for Se, Cu, Hg, Ni, Ag, Zn. Residential/Industrial Drinking Water Protection Criteria was exceeded for As, Hg, Ni. Residential Direct Contact Criteria was exceeded for As and Cu.	Groundwater monitoring; deed restriction	
West Lagoon	GSI Protection Criteria was exceeded for Se. Residential/Industrial Drinking Water Protection Criteria was exceeded for Se. Residential Direct Contact Criteria was exceeded for As.	Deed restriction	
SB01-06 Area	Site Specific Direct Contact Criteria was exceeded for PCBs.	Removal of impacted soil limits composed by plan engineer controls; groundwater deed restriction	

B2.G ESTABLISHED OR PROPOSED CLEANUP CRITERIA

[R 299.9629(3)(a)(ii) and (iii) and R 299.9629(3)(b)(ii) and (iii)]

Remedial investigation activities are currently ongoing. Established criteria for comparison of analytical data will be the Michigan Department of Environmental Quality PA 451 Part 201 Nonresidential Generic Cleanup Criteria (December 30, 2013). Some site specific criteria have also been developed.

B2.H ESTABLISHED OR PROPOSED COMPLIANCE POINTS AND PERIODS

[R 299.9629(3)(a)(iv) and (v) and R 299.9629(3)(b)(iv) and (v)]

No compliance points and or periods have been proposed or established as investigations currently ongoing.

B2.I OFF-SITE ACCESS

No information available,

B2.J PUBLIC INVOLVEMENT PLAN

No information available.

B2.K HEALTH AND SAFETY PLAN

A Health and Safety Plan related to conducting Remedial Investigation at the Ford Monroe River Raisin Warehouse has been completed and a copy is held at the River Raisin Warehouse.

B2.L NOTICE REQUIREMENTS

[R 299.9525]

A restrictive covenant for the River Raisin Warehouse was recorded by the Monroe County Register of Deeds. See Attachment B9, Restrictive Covenant.

B2.M JUSTIFICATION FOR PROPOSED ELIMINATION OF ANY WASTE MANAGEMENT UNIT FROM THE CORRECTIVE ACTION PROGRAM OR INTENT TO PROCEED WITH CORRECTIVE ACTIONS

Investigation activities for the SWMU's are ongoing. Once investigation activities are complete, a report detailing findings from remedial investigation activities will be developed and submitted to the MDEQ. It is anticipated that future corrective actions will be conducted with United States Environmental Protection Agency (USEPA) in accordance with the self-implementing cleanup procedures outlined in 40 CFR 761.61.

ATTACHMENT B2.E.1 **ENVIRONMENTAL INDICATOR FORMS**

DOCUMENTATION OF ENVIRONMENTAL INDIC DOCUMENTATION OF ENVIRONMENTAL INDICATOR DETERMINATION

RCRA Corrective Action Environmental Indicator (EI) RCRIS Code (CA 750)

Migration of Contaminated Groundwater Under Control

Facility Name: Facility Address: Facility EPA ID #1:		Visteon Monroe
		3200 East Elm Avenue, Monroe, Michigan MID 005 057 005
		111150 (1700 No.) 1 17000
media, subj		le relevant/significant information on known and reasonably suspected releases to the groundwater to RCRA Corrective Action (e.g., from Solid Waste Management Units (SWMU), Regulated Unite is of Concern (AOC)), been considered in this EI determination?
	\boxtimes	If yes - check here and continue with #2 below.
	<u>s===</u>	If no - re-evaluate existing data, or
If data are not available, skip to #8 and enter "IN" (more information		If data are not available, skip to #8 and enter "IN" (more information needed) status code.
DAC	VCDOUND	

BACKGROUND

Definition of Environmental Indicators (for the RCRA Corrective Action)

Environmental Indicators (EI) are measures being used by the RCRA Corrective Action program to go beyond programmatic activity measures (e.g., reports received and approved, etc.) to track changes in the quality of the environment. The two El developed to-date indicate the quality of the environment in relation to current human exposures to contamination and the migration of contaminated groundwater. An EI for non-human (ecological) receptors is intended to be developed in the future.

Definition of "Migration of Contaminated Groundwater Under Control" EI

A positive "Migration of Contaminated Groundwater Under Control" El determination ("YE" status code) indicates that the migration of "contaminated" groundwater has stabilized, and that monitoring will be conducted to confirm that contaminated groundwater remains within the original "area of contaminated groundwater" (for all groundwater "contamination" subject to RCRA corrective action at or from the identified facility (i.e., site-wide)).

Relationship of EI to Final Remedies

While Final remedies remain the long-term objective of the RCRA Corrective Action program the EI are near-term objectives which are currently being used as Program measures for the Government Performance and Results Act of 1993, GPRA). The "Migration of Contaminated Groundwater Under Control" El pertains ONLY to the physical migration (i.e., further spread) of contaminated groundwater and contaminants within groundwater (e.g., non-aqueous phase liquids or NAPLs). Achieving this EI does not substitute for achieving other stabilization or final remedy requirements and expectations associated with sources of contamination and the need to restore, wherever practicable, contaminated groundwater to be suitable for its designated current and future uses.

Duration/Applicability of EI Determination

EI Determination status codes should remain in RCRIS national database ONLY as long as they remain true (i.e., RCRIS status codes must be changed when the regulatory authorities become aware of contrary information).

Migration of Contaminated Groundwater Under Control Environmental Indicator (El) RCRTS code (CA750)

Is groundwater known or reasonably suspected to be "contaminated" above appropriately protective "levels" (i.e.,

	algated standards, as well as other appropriate standards, guidelines, guidance, or criteria) from releast Corrective Action, anywhere at, or from, the facility?
\boxtimes	If yes - continue after identifying key contaminants, citing appropriate "levels," and referencing supporting documentation.
	If no - skip to #8 and enter "YE" status code, after citing appropriate "levels," and referencing supporting documentation to demonstrate that groundwater is not "contaminated."
	If unknown - skip to #8 and enter "IN" status code.

Rationale and Reference(s):

2.

The Visteon Monroe Plant is located in the City of Monroe, Monroe County, Michigan. Figure 1 (attached) depicts the location of the Monroe Plant relative to the major topographic landforms and nearby roadways. Figure 2 (attached) shows the site layout in more detail, including the location of monitoring wells, piezometers, and stream gage reference points. As can be seen in the figures, the site is located on and adjacent to wetlands areas, approximately 0.75 miles west of the western shore of Lake Erie, and north of the mouth of the River Raisin. The River forms the southern boundary of the site, while an intake canal forms the northern boundary. Sterling State Park is located immediately north of the intake canal. Wetlands border the site to the east and west. The nearest residential properties are located approximately 0.5 miles to the north of the site. Figure 2 also provides groundwater piezometric elevation data from September 2004. As can be seen in the figure, groundwater flow at the facility is generally radially outward from the center of the plant or topographically high area towards the surrounding surface water bodies or topographically low areas.

On March 27, 1995, the facility was issued a Post-Closure Operating License by the Michigan Department of Environmental Quality that specified post-closure care procedures for the on-site Corrective Action Management Unit (CAMU). The Post-Closure Operating License also contained corrective action requirements the facility had to comply with, including conducting a RCRA Facility Investigation and Site-Wide Groundwater Investigation. Drafts of those Reports were completed in 2002, and those investigations provide the basis for the data referenced in this Environmental Indicator Form. Corrective Action activities at the site are currently still on-going.

The appropriate regulatory standards implemented for the above-referenced on-going site investigations and this Environmental Indicator determination are the risk-based media specific criteria promulgated in State of Michigan's Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451).

Table 1 (attached) summarizes the Part 201 drinking water protection and groundwater surface water interface (GSI) criteria exceedances in the facility's monitoring wells. There are two groundwater monitoring systems at the facility; one is the detection monitoring program associated with the Eastern Containment Unit (ECU) and Western Containment Unit (WCU) CAMU (PCW-1 through PCW-14), and the other is the monitoring system put in as part of the groundwater investigation being undertaken as part of the corrective action program (GW-1 through GW-16). The location of all the monitoring wells is shown in Figure 2. The detection monitoring PCW series wells were sampled in duplicate on a quarterly frequency for two years starting in March of 2000, and since March of 2002 to the present have been sampled on a semi-annual frequency. Twelve of the sixteen GW wells were sampled quarterly in 2001 as part of the RFI. As shown in the table, exceedances were present at all 12 GW-series wells sampled, and all 14 of the PCW-series wells. As also shown in the table, the bulk of the exceedances are for inorganic contaminants (metals and cyanide), with organic contaminants present more sporadically.

References:

- 1) July 26, 2002 Groundwater Investigation Report [Mannik & Smith Group]
- 2) July 26, 2003 RCRA Facility Investigation Report [Mannik & Smith Group]
- 3) July 30, 2004 Environmental Monitoring Report
- 4) November 10, 2004 Hydraulic Monitoring Report

Footnotes:

1 "Contamination" and "contaminated" describes media containing contaminants (in any form, NAPL and/or dissolved, vapors, or solids, that are subject to RCRA) in concentrations in excess of appropriate "levels" (appropriate for the protection of the groundwater resource and its beneficial uses).

Migration of Contaminated Groundwater Under Control Environmental Indicator (El) RCRIS code (CA750)

3.	Has the migration of contaminated groundwater stabilized (such that contaminated groundwater is expected to remain
	within "existing area of contaminated groundwater"2 as defined by the monitoring locations designated at the time of
	this determination)?

⊠	If yes - continue, after presenting or referencing the physical evidence (e.g., groundwater sampling/measurement/migration barrier data) and rationale why contaminated groundwater is expected to remain within the (horizontal or vertical) dimensions of the "existing area of groundwater contamination".
-	If no (contaminated groundwater is observed or expected to migrate beyond the designated locations defining the "existing area of groundwater contamination" ²) - skip to #8 and enter "NO" status code, after providing an explanation.
	If unknown - skip to #8 and enter "IN" status code.

Rationale and Reference(s):

As shown in Table 1 (attached), the concentrations of contaminants in the "GW" and "PCW" series wells are present above Part 201 drinking water protection and groundwater surface water interface (GSI) criteria appear to be relatively stable. As mentioned in the response to Question #2 above, the detection monitoring PCW-series monitoring wells were sampled in duplicate on a quarterly frequency for two years starting in March of 2000, and since March of 2002 to the present have been sampled on a semi-annual frequency. Twelve of the sixteen GW-series monitoring wells were sampled four times (quarterly) in 2001 as part of the RFI.

With respect to the PCW-series wells, Table 1 summarizes eleven separate sampling events representing the time period from March 2000 to the present. None of the wells reveal any parameter exceedance above Part 201 criteria in more than four of the eleven sampling events, most exceedances are present only once or twice in a given well over the approximate four year monitoring time-frame, and only PCW-1 had an exceedance in the most recent 12 months of monitoring. As shown in Table 1, cyanide was detected at 33 ug/L in June of 2004 (most recent sampling event for which data is available); however it was only detected one other time previous to that (3/12/02 at 6 ug/L). This data indicates that none of the wells reveal a significant increasing concentration trend versus time for any parameter. It should be noted that as part of the construction of the ECU and WCU CAMU units, approximately one million cubic yards of source material associated with the former lagoon WWTP system were excavated and placed in the ECU and WCU, leaving little source material present in the vicinity of the ECU and WCU. It should also be noted that the ECU and WCU were designed such that the direction of groundwater flow in the vicinity of the units was inward (i.e. toward the units). Although documentation regarding compliance with this design specification is still under development, the presence of an inward gradient toward the units will tend to stabilize any potential migration of contaminated groundwater.

With respect to the GW-series wells, it should be noted that only four sets of samples were taken over an approximately one year time frame; therefore, it is difficult to obtain any long-term trend information from the data. Additional data will be collected as part of the on-going corrective action activities in the area. However, based on the data collected and summarized in Table 1, it appears that relatively stable concentrations of detected contaminants are present. Nine of the twelve monitoring wells sampled had sporadic exceedances without any single parameter present above Part 201 criteria in every sampling event; and most exceedances were present in only one or two of the sampling events without any significant increasing concentration trend. In the three monitoring wells where a parameter was present above Part 201 criteria in all four sampling events (GW-11R, GW-15, and GW-16), it also appears that relatively stable concentrations are present without any significant increasing concentration trend. This is shown graphically in Figures 3, 4, and 5 where concentration versus time plots are shown for the most significant contaminants present in monitoring wells GW-11R, GW-15, and GW-16, respectively. This data indicates that none of the wells reveal a significant increasing concentration trend versus time for any parameter. In addition, it should be noted that 18,000 cubic yards of source material associated with the Former Empty Drum Storage Area (EDSA) were excavated and disposed of off-site as an Interim Corrective Measure as part of the on-going corrective action at the facility. The removal of this source material should also promote stabilization of groundwater contamination concentrations downgradient from its former location in the vicinity of GW-16. The data from GW-16 in Table 1 is prior to the excavation of source material; therefore, current and future concentrations are expected to be significantly reduced. Monitoring Well GW-16 was

required to be abandoned during excavation activities. However, a new downgradient monitoring well has been installed in the area; results from its initial sampling are pending.

This data indicates that the migration of contaminated groundwater has stabilized at the facility, due in large part to the implementation of significant source removal and control activities. Implementation of final corrective measures to remediate existing groundwater contamination on-site consistent with all State and Federal law will continue as part of the facility's corrective action program being conducted under the authority of the Post-Closure Operating License.

- References: 1) July 26, 2002 Groundwater Investigation Report [Mannik & Smith Group]
 - 2) July 26, 2003 RCRA Facility Investigation Report [Mannik & Smith Group]
 - 3) July 30, 2004 Environmental Monitoring Report
 - 4) November 10, 2004 Hydraulic Monitoring Report

2 "existing area of contaminated groundwater" is an area (with horizontal and vertical dimensions) that has been verifiably demonstrated to contain all relevant groundwater-contamination for this determination, and is defined by designated (monitoring) locations proximate to the outer perimeter of "contamination" that can and will be sampled/tested in the future to physically verify that all "contaminated" groundwater remains within this area, and that the further migration of "contaminated" groundwater is not occurring. Reasonable allowances in the proximity of the monitoring locations are permissible to incorporate formal remedy decisions (i.e., including public participation) allowing a limited area for natural attenuation.

Migration of Contaminated Groundwater Under Control Environmental Indicator (El) RCRIS code (CA750)

4.	Does "contamina	ted" groundwater discharge into surface water bodies?
	\boxtimes	If yes - continue after identifying potentially affected surface water bodies.
		If no - skip to #7 (and enter a "YE" status code in #8, if #7 = yes) after providing an explanation and/or referencing documentation supporting that groundwater "contamination" does not enter surface water bodies.
	-	If unknown - skip to #8 and enter "IN" status code.
	\$500 ST \$100 ST	Res 223

Rationale and Reference(s):

Contaminants discharging to surface water above MDEQs Groundwater Surface Water Interface (GSI) Criteria are summarized in Table 2 (attached). This table differs from Table 1 in that only wells located directly adjacent to water bodies are included in the table, and only exceedances above the GSI are included in the data summary. The table also indicates what surface water body a given well is located adjacent to and assumed to be venting groundwater to. The location of the monitoring wells is shown in Figure 2 (attached). As shown in the table, exceedances above GSI criteria were noted in nine of the PCW-series monitoring wells, and nine of the GW-series monitoring wells. As also shown in the table, the bulk of the exceedances are for inorganic contaminants (metals and cyanide), with organic contaminants present more sporadically.

References

- 1) July 26, 2002 Groundwater Investigation Report [Mannik & Smith Group]
- 2) July 26, 2003 RCRA Facility Investigation Report [Mannik & Smith Group]
- 3) July 30, 2004 Environmental Monitoring Report
- 4) November 10, 2004 Hydraulic Monitoring Report

Migration of Contaminated Groundwater Under Control Environmental Indicator (El) RCRIS code (CA750)

- 5. Is the discharge of "contaminated" groundwater into surface water likely to be "insignificant" (i.e., the maximum concentration of each contaminant discharging into surface water is less than 10 times their appropriate groundwater "level," and there are no other conditions (e.g., the nature, and number, of discharging contaminants, or environmental setting), which significantly increase the potential for unacceptable impacts to surface water, sediments, or eco-systems at these concentrations)?
 - If yes skip to #7 (and enter "YE" status code in #8 if #7 = yes), after documenting: 1) the maximum known or reasonably suspected concentration of key contaminants discharged above their groundwater "level," the value of the appropriate "level(s)," and if there is evidence that the concentrations are increasing; and 2) provide a statement of professional judgment/explanation (or reference documentation)- supporting that the discharge of groundwater contaminants into the surface water is not anticipated to have unacceptable impacts to the receiving surface water, sediments, or eco-system.

If no - (the discharge of "contaminated" groundwater into surface water is potentially significant) continue after documenting: 1) the maximum known or reasonably suspected concentration of each
contaminant discharged above its groundwater "level," the value of the appropriate "level(s)," and if
there is evidence that the concentrations are increasing; and 2) for any contaminants discharging into
surface water in concentrations greater than 100 times their appropriate groundwater "levels," the
estimated total amount (mass in kg/yr) of each of these contaminants that are being discharged
(loaded) into the surface water body (at the time of the determination), and identify if there is
evidence that the amount of discharging contaminants is increasing.

If unknown - enter "IN" status code in #8.

Rationale and Reference(s):

All of the exceedances detected above Part 201 GSI criteria (Table 2) are present at concentrations less than 10 times the GSI criteria with the exception of mercury detected at 0.3 ug/L in GW-16 in May 2001. Therefore, all of the GSI exceedances with the exception of the mercury in GW-16 are likely to be insignificant. With respect to the mercury detection in GW-16, it was not detected in any of the other three sampling events conducted at GW-16; therefore, its presence has not been confirmed and its presence is not considered significant at this time. As mentioned in the response to Question #3 above, it should be noted that approximately one million cubic yards of source material associated with the former lagoon WWTP system were excavated and placed in the ECU and WCU, and approximately 18,000 cubic yards of source material associated with the Former Empty Drum Storage Area (EDSA) were excavated and disposed of off-site as an Interim Corrective Measure as part of the on-going corrective action at the facility. The removal of this source material appears to have promoted stabilization of groundwater contamination concentrations, including the discharge of contaminated groundwater to surface water. As also mentioned in the response to Question #3 above, It should be noted that the ECU and WCU were designed such that the direction of groundwater flow in the vicinity of the units was inward (i.e. toward the units). Although documentation regarding compliance with this design specification is still under development, the presence of an inward gradient toward the units will tend to stabilize any potential migration of contaminated groundwater to surface water. With respect to groundwater contamination associated with the Former Empty Drum Storage Area, the data from downgradient monitoring well GW-16 in Table 1 and 2 is prior to the excavation of source material; therefore, current and future concentrations are expected to be significantly reduced. Monitoring Well GW-16 was required to be abandoned during excavation activities. However, a new downgradient monitoring well has been installed in the area and results from its initial sampling are pending.

As mentioned previously, the site-wide RCRA Facility Investigation is still on-going at the facility. Therefore, a final remedy to address the discharge of contaminated groundwater above the Part 201 GSI criteria to the surrounding surface water bodies has not been developed. In terms of the EI determination, the current discharge of contaminated groundwater to the surrounding surface water bodies is thought to be acceptable and protective of receiving surface water, sediments, and ecosystems until such time that a final remedy can be implemented. As part of a final remedy to eliminate contaminated groundwater discharges above GSI criteria, it is expected that a mixing zone determination will be implemented. It is also possible that some type of flow barrier/groundwater collection system may be necessary.

References:

- 1) July 26, 2002 Groundwater Investigation Report [Mannik & Smith Group]
- July 26, 2003 RCRA Facility Investigation Report [Mannik & Smith Group]
 July 30, 2004 Environmental Monitoring Report
- 4) November 10, 2004 Hydraulic Monitoring Report

3 As measured in groundwater prior to the groundwater-surface water/sediment interaction (e.g., hyphorheic) zone.

Migration of Contaminated Groundwater Under Control Environmental Indicator (El) RCRIS code (CA750)

6.	cause impacts to	e of "contaminated" groundwater into surface water be shown to be "currently acceptable" (i.e., not surface water, sediments or eco-systems that should not be allowed to continue until a final remedy nade and implemented ⁴)?
		If yes - continue after either: I) identifying the Final Remedy decision incorporating these conditions, or other site-specific criteria (developed for the protection of the site's surface water, sediments, and eco-systems), and referencing supporting documentation demonstrating that these criteria are not exceeded by the discharging groundwater; OR 2) providing or referencing an interim-assessment, appropriate to the potential for impact, that shows the discharge of groundwater contaminants into the surface water is (in the opinion of a trained specialists, including ecologist) adequately protective of receiving surface water, sediments, and ecosystems, until such time when a full assessment and final remedy decision can be made. Factors which should be considered in the interim-assessment (where appropriate to help identify the impact associated with discharging groundwater) include: surface water body size, flow, use/classification/habitats and contaminant loading limits, other sources of surface water/sediment contamination, surface water and sediment sample results and comparisons to available and appropriate surface water and sediment "levels," as well as any other factors, such as effects on ecological receptors (e.g., via bio-assays/benthic surveys or site-specific ecological Risk Assessments), that the overseeing regulatory agency would deem appropriate for making the El determination.
	:	If no - (the discharge of "contaminated" groundwater can not be shown to be "currently acceptable") - skip to #8 and enter "NO" status code, after documenting the currently unacceptable impacts to the surface water body, sediments, and/or eco-systems.
		If unknown - skip to 8 and enter "IN" status code.

Rationale and Reference(s):

- 4 Note, because areas of inflowing groundwater can be critical habitats (e.g., nurseries or thermal refugia) for many species, appropriate specialist (e.g., ecologist) should be included in management decisions that could eliminate these areas by significantly altering or reversing groundwater flow pathways near surface water bodies.
- 5 The understanding of the impacts of contaminated groundwater discharges into-surface water-bodies is a rapidly developing field and reviewers are encouraged to look to the latest guidance for the appropriate methods and scale of demonstration to be reasonably certain that discharges are not causing currently unacceptable impacts to the surface waters, sediments or eco-systems.

Migration of Contaminated Groundwater Under Control Environmental Indicator (El) RCRIS code (CA750)

7.	collected in the	Will groundwater monitoring/measurement data (and surface water/sediment/ecological data, as necessary) be collected in the future to verify that contaminated groundwater has remained within the horizontal (or vertical, as necessary) dimensions of the "existing area of contaminated groundwater?"							
		If yes-continue after providing or citing documentation for planned activities or future sampling/measurement events. Specifically identify the well/measurement locations which will be tested in the future to verify the expectation (identified in #3) that groundwater contamination will not be migrating horizontally (or vertically, as necessary) beyond the "existing area of groundwater contamination.							
	9 <u> </u>	If no - enter "NO" status code in #8.							
		If unknown - enter "IN" status code in #8.							
	Rationale and	Reference(s):							
	monitoring pro GW-series mo	-annual monitoring of the PCW-series of monitoring wells will be conducted as part of the detection igram required by the facility's Post-Closure Operating License. Additional future sampling of selected nitoring wells will be required as part of the on-going Groundwater Investigation being conducted as part ction activities at the facility. Corrective action is also authorized by the facility's Post-Closure nse.							
		 July 26, 2002 Groundwater Investigation Report [Mannik & Smith Group] July 26, 2003 RCRA Facility Investigation Report [Mannik & Smith Group] July 30, 2004 Environmental Monitoring Report 							

4) November 10, 2004 Hydraulic Monitoring Report

Migration of Contaminated Groundwater Under Control Environmental Indicator (El) RCRIS code (CA750)

	stain Supervisor (or appropriate Manager) signature and date on the EI determination below (attach ng documentation as well as a map of the facility).
information contains Groundwater" is "Ur Avenue, Monroe, M groundwater" is und remains within the "	n of Contaminated Groundwater Under Control" has been verified. Based on a review of the ed in this EI determination, it has been determined that the "Migration of Contaminated or Control" at the Visteon Monroe facility, EPA ID # MID 005 057 005, located at 3200 East Elmichigan. Specifically, this determination indicates that the migration of "contaminated er control, and that monitoring will be conducted to confirm that contaminated groundwater existing area of contaminated groundwater". This determination will be re-evaluated when the are of significant changes at the facility.
N	O - Unacceptable migration of contaminated groundwater is observed or expected.
n	V - More information is needed to make a determination.
Completed by	(signature) Date March 25, 2005 (print) Joseph Rogers (title) Sr. Geologist
Supervisor	(signature) David Slayton (title) Acting Technical Support Unit Chief (TDA P. Jan State of Michigan DEC)
	References may be found:
	MATERIALS DIVISION, CONSTITUTION HALL, ATRIUM
- Internet - was constituted in	TH TOWER, 525 WEST ALLEGAN STREET, LANSING, 8933.
	YE - Yes, "Migration information contained Groundwater" is "Ur Avenue, Monroe, M groundwater" is undo remains within the "o Agency becomes aw Supervisor Completed by Supervisor Location where MICHIGAN I HAZARDOUS

(e-mail) rogersjt@michigan.gov

(name) Joseph Rogers (phone#) 517-373-9897

Table 1 - Visteon Monroe Groundwater Part 201 Exceedances Summary - GW Series Monitoring Wells

Table 1 (cont.) - Visteon Monroe Groundwater Part 201 Exceedances Summary - GW Series Monitoring Wells

GW Wells	Parmeter/Concentration	Date	201 EXCRETAINES
GW:55	Selection I and	Total Section of the Party of t	
	The second of	Don't have	Choundwater defined water interlace to an interlace to a figure
	Marcel Charles 420 and	The same of the same	Presidential, Commercial and Installial Unitary Wales Criteria (9 upp.)
	The comment of the	remain a con	International System Water Interlace Criteria (15 upt.); Rendential, Commercial, and Industrial Drinking Water Criteria (2 upt.)
	Official - alternations	retround of soot	Respectate Drinking Water Criteria (430 upt.), Commercial & Industrial Drinking Water Criteria (1700 upt.)
	1,1-pictace betterne - 5000 tight.	Peteruny 6, 2001	Groundwater Surface Water Interface Criteria (65 upt.); Residential, Commercial, and Industrial Drinking Water Criteria (7 upt.);
	Activities Character - 0.00 ugh.	reprintry 6, 2001	Residential, Commercial, and Industrial Distribut Water Orderia (5 upt.)
	the 4 of Distinguishment and the	resolary 6, cour	Woodnow life Bufface Walter Intuitions Cottents 749 tight.); Residential, Commercial, and Industrial Diricking Water Coffeets (\$50 tight.)
	The order of the party of the p	Contract of Contract	Residential, Commercial, and Industrial District Colories (70 upt.)
	1.1.Technologisms 140005	February 9, 2001	Residensia, Commercial, and Industrial Christia Walter Criteria (3 upt.)
	Dichlarostheria . 41 and	February 9, 2501	concordence outrace where Distance Checks (200 ught); Residential, Commercial, and Industrial Dinking Water Criseia (200 ught).
	1.1.2-Techtomethane - 83 unt	February 9, 2001	Research Commercial, and manufacturing West Crimin () upt.
	Telune - 320 upl.	February 6, 2001	Agency Commence of the Commenc
	Ethybenzene - 250 upf.	February 6, 2001	Contraction States Water teaching Citizen 110 and Citizen States City City City City City City City City
	Total Xylanes - 1300 up?.	February 6, 2001	Commission States With the Market Control of the Co
	Selection 11 upt.	May 24, 2001	Generalized Surface Water better Committee Constitution of Surface Constitutio
	Antimony - 10 ugil.	May 24, 2001	Residential Commercial and Astrochia Dicking Water Culture (Autoria
	Nickel - 110 upfl.	May 24, 2001	Groundwater Surface Water Interface Cities (100 until
	ChlerceBurne - 2200 upf.	May 24, 2001	Residential Dehistra Water Criteria (435 up.1), Contracted & Industrial Distance Option (1700 and 1
	1,1-Dichlar pethens - 7000 ugit.	May 24, 2001	Groundwater Surface Water Interface College 65 up.1.: Residential Commercial, and Indiannial Direction Observe College
	Methylene Chloride - 730 upf.	May 24, 2001	Residuades, Commercial and Industrial Devices Criteria 15, unext.
	1,1-Dichlaraettans - 18000 upt.	May 24, 2001	Groundwater Statistics Water Interface Orderts (140 up) 3. Residential Commercial and Industrial Deplate Orders County
	tis-1,2-Dichlaraethene - 170 upl.	May 24, 2001	Rendered Commercial and Solvettial Parking Marie 1971 and 1971 and 1971
	1,2 Eichloreebane - 148 sg/L	May 24, 2001	Residential Commercial and Industrial Commercial Commercial and Commercial Co
	t,1,1-Trichleroethane - 150000	May 24, 2001	Groundwater Statistic Water Interface Criteria (200 upl.); Residential, Commercial, and Industrial Department Crimeia (200 upl.).
	Toluene - 170 ugit.	May 24, 2001	Groundwater Serfere Water Interface Criteria (14D unit)
	Ethylhenzene - 300 ugit.	May 24, 2005	Groundwater Surface Water Interton Caleria (18 upl.): Residential, Commercial, and Indiana Dankon Water Criteria (18 upl.):
	Total Aytenes - 1500 up.7.	May 24, 2001	Greundwaler Surface Water Interface Criteria (25 up.L.): Residential, Commercial, and Industrial Direkton Water Criteria (25 up.L.)
	Selenkini 11 ug/L	August 28, 2001	Grant dwater Surface Water Interface Otheria (5 upl.)
	Vanadum : 14 upt.	August 20, 2001	Groundwaler Surface Water Interface Criteria (12 upt.); Residential, Commercial, and Industrial Drinking Water Cetesta (4.5 upt.)
	Vmyt Chloride 80 ugif.	Aug.=128, 2001	Groundwaler Burface Water Interface Colonia (15 upt.); Residental, Commercial, and Industrial Disaking Water Criteria (2 upt.)
	Chloroethane - 1900 upt.	Aug-=128, 2001	Residential Drinking Water Criteria (430 ug.L.), Commercial & Industrial Drinking Water Cuteria (1700 ug.L.)
	1,1-Cichiereethere - 6000 ugs.	Aug-#1 28, 2001	Groundwater Surface Water Interface Criteria (65 ogs.), Realdenfal, Commercial, and Industrial District Water Criteria IT ogs.)
	1,1-Dichlproethane - 13000 ug/L	August 28, 2001	Occurdenter Surface Water Interface Criteria (746 ugC); Residentia, Commercial, and Indiantial Dinking Water Criteria (810 ugC).
	1 7 1 Tribling to the Control of the Control	August 28, 2001	Residential, Commercial, and Industrial Drinking Water Criteria (70 ug/L)
	Direct annual property of the	Aug =1 20, 2001	Octombyster Sortere Water Interface Criteria (200 ug/L); Residential, Commercial, and Industrial Dividing Water Criteria (200 ug
	Total consistence and the same	Aug. 20. 2001	Residential, Commercial, and Industrial Diriking Water Criteria (5 ugit.)
	1 2 Total Manual Manual - 100 and	August 28, 2001	Henderstein Commercial, and Industrial Drinking Water Colonia (5 upt.)
	Toluent - 500 unit	August 28, 2001	Commence of the second of the
	Ethylbenzene - 240 ug/l.	August 25, 2001	Groundwater Surface Water Interface Criesta (18 and 18 feetback) and the control between the Control C
	1,1,2,2-Tetrachbroothane - 15 ug/l.	August 28, 2001	Residential Dirigion Water Criteria (8.6 and 3)
	Total Xylenes - 1500 ug/L.	Aug.st 28, 2001	Groundwaler Surface Water Interface Criteria (15 up) 1: Residential Commercial and Industrial Deskins Water Council (16)
	Selentarin 5.4 up.C.	December 6, 2001	Grantwater Surface Willer Inferface Criticia (5 upt.)
	Vitryl Chlorida 200 upt,	December 6, 2001	Groundwater Surface Water Interface Cateria (15 og U); Residential, Commercial, and Industrial Direktor Water Colonia (2 og U).
	Chintoethare - 1600 ugd.	December 6, 2001	Residential Drinking Water Criteria (418 og L). Commercial & Industrial Drinking Water Criteria (1700 on L)
	T. F. Cichistrae Frence - 4000 upt.	December 6, 2001	Groundwaler Surface Water Interface Criteria (65 upd.): Residential, Commercial, and Industrial Chinking Water Criteria (7 upd.)
	T. C. Chehlers Change - 44055 and	Character B, 2003	Retidential, Commercial, and Industrial Diviving Water Criteria (5 upt).)
	Total And the Company of the Company	Cacember 9, 2001	Contrativator Surface Water Interface Cottena (740 u.g.l.), Netdenbal, Continercial, and Industrial Denbing Water Criteria (880 u.g.l.)
	Chimbers - 80 and	December 6, 2001	Headenbal, Commercial, and Industrial Detaing Water Colonia (To ugit.)
	1,1.1-Trichlore@ane - 65000	December 6 2001	Commence Southern Contract Section 1997 (1997)
	Tripforcethere - 42 unft.	December 6 2001	Control of the Collect (Control of the Collect (Control of the Collect (Collect (Col
	1,1,2-Trichlorestrane - 100 ug/L	December 5, 2001	Designated Commercial and Industrial Designation (Assessed Assessed
	Toluene - 210 upt.	Decamber 6, 2001	Groundwater States Without Printed and All States a
	Ethyllien.cene - 180 og/L	Carpember 6, 2001	Geometrical Surface Water Interface Cities is (18 upt.); Residential, Commercial and Industrial Dentiting Water Cotterin (14 upt.).
	Latel Aylenes - 1300 ag/L	December 6, 2001	Orcundowster Surface Water Interface Criteria (15 up.). Residential. Commercial, and Industrial Distaing Water Orderia (280 up.).
31:5/0	Selentum-15 ug/L	February 2, 2003	Committee the Color behavior of the Color of
	PCBs (1248) - 2 upt.	February 2, 2001	Graudwater Scritice Water Interface Criteria (2.5 sept.): Residential Commercial less includes Water Criteria (0.5 sept.)
	Viry Chloride 39 upf.	February 2, 2001	Droundester Burtare Water Interface Criteria (15 ug/1); Residental, Commercial, and Industrial Drukes Water Criteria (15 ug/1); Residental
	Actimony - 21 ug/l.	May 23, 2001	Besidential, Commercial and Industrial Diriking Water Cyteria (6 up.1.)
	Defending 19 upt	May 23, 2001	Growthwater Burface Water Interface Criteria (5 ug/L)
	Age of the Assessment	May 23, 2001	Groundwater Surface Water Inferface Criteria (D 0013 ug/L)
	PCBs rt2485-24 uph	Une 21 2001	Convertiwater Surface Water Interface Cotata (15 ught); Residential, Commercial, and Industrial Oxiding Water Criteria (2 ught).
	Selentin-5 7 upt	Marfardes 6, 300s	LIGHTONIAN SHIPS WHITE MISTACE CHIEFTA (S.S. OGIL); Replemini, Commercial, and Industrial Crining Water Cilieria (0.2 ugil.)
	Wmyt Chloride-29 up.T.	Sectordes 6, 2005	Contraction of the Contract Collection Collection (3 upt.)
	PCBs 112483 - 0 9 upt	Sectamber 6 2001	Commercial Survey Wheel White Citize (15 upt.), Residental Commercial, and Industrial Oriental Water Otheria (2 upt.)
	Seienium-52 up.l.	December 21 2001	Controlled to the state of the
	Vinyl Chloride-11 u.p.f.	December 21 2001	Tana Communication of the Comm
	PCBs (1248) - 1.7 upt.	December 21, 2001	Groundwater Surface Vother Interface Criticals ID A surface by Descriptional Communication Control of Description Communication
			The state of the s

Table 1 (cont.) - Visition Monroe Groundwater Part 201 Exceedances Summary - PCW Series Monitoring Wells

			77								n Coloma (6 ugit.			
201 Exceedances	Obsendanter Suitees Wheir Interface Crema (8.2 agh.) Countrients Settlere Wheir Interface Crema (8.2 agh.) Shadderdi, Contractal, and Institut Ibrahas Settlere 18.2 agh.) Countrients Settlere Wheir Interface Crema (8.2 agh.) Countrients Settlere Wheir Interface Crema (8.2 agh.) Countrients Southere Wheir Interface Crema (8.2 agh.) Countrients Suitees Water Interface Crema (8.2 agh.)	Readmital, Commercial, and Industrial Decorp Wales Protection Contract (8 ogt.) Grandwolm Surface Wales Interface Cottents (9.2 ogt.) Counterwale Surface Wales Interface Cottents (9.2 ogt.) Counterwales Galace Wales Interface Cottents (9.2 ogt.) Counterwales Galace Wales Interface Cottents (9.2 ogt.)	Grountweler Guitlee Wilder Interface Charin (5.2 upt.) Goodweld Scharce Wilder Interface Charin (5.2 upt.) Groundweler Guitlee Wilder Interface Charin (5.2 upt.) Groundweler Guitlee Wilder Interface Charin (9.7 upt.) Groundweler Burhace Wilder Interface Criticia (7.9 upt.)	Groundware Sontace Weber Interface Griefie (5.2 ugl.). Graundware Sothice What Interface Chemic (5.2 ugl.). Groundware Burkers Weber Interface Griefie (9.7 ugl.).	Giountheyini Burthoey Water Interface Charia (8.2 upt.) Grandwater Burthoey Water Interface Charia (19 upt.) Grandwater Gutte of Water Interface Chare (19 upt.) Grandwater Gutte of Water Interface Chare (19 upt.) Grandwater Rottlee Water Interface Chare (2.2 upt.) Grandwater Rottlee Water Interface Charia (3.2 upt.) Grandwater Rottlee Water Interface Charia (3.2 upt.)	Responsible, Commissional, and Industrial Entities White Protection Chante (0 upl.). Grantshead Educate White Inferities Conset (5.2 upl.). Grantshead Gridge Water Interface Conset (5.2 upl.). Grantshead Gridge Water Interface Conset (5.2 upl.).	Giovatavater Sociate Water Interface Gateria (5.2 ugl.) Germatherter Sustan Marie Interface Gateria (5.2 ugl.)	Chaumbeater Stutture Water Interface Creess (3.2 upt.) Grounbeater Status what intrafer Crees (3.2 upt.) Grounbeater Status whater Interface Crees (3.2 upt.) Grounbeater Status whater Interface Cotterio (3.2 upt.) Residential Commercial, and Industrial Dresking Water Profession Cateria (2.0 upt.)	Disconduction States Water interface Gineral (5.2 pgt.) Residential, Commercial, and Machani Orbinog Water Protection Creatist (6 upt.) Ginarchware States Water Interface Cores (5.2 upt.) Businessand States Water Interface Cores (5.2 upt.) Residential, Commercial, and talears States (2 upt.) Ginarchware States Water Interface Cores (5.2 upt.) Ginarchware States Water Interface Cores (6.2 upt.) Ginarchware States Water Interface Cores (6.2 upt.)	Institution Commercial, and Institution Districts Protection Citatio (6 upl.) Consciousing Address Where Institute Content (62 upl.) Consciousing Address Water Institute Content (62 upl.) Consciousing Address Water Institute Content (62 upl.) Consciousing Address Water Institute Content (62 upl.) Content Institute Water Water Institute Content (62 upl.) Residential Commercial, and Industrial Districts Water Protection Citation (6 upl.)	Groundwest Burlace Water Interface Cateriar (22 ogs.) Residential, Communation, and Industrial Desiring Water Protection Cateriar (5 ogs.) Discordwester Startice Water Interface Cateria (5 5 ogs.) Groundwester Startice Water Interface Cateria (5 5 ogs.)	Greandwitter Bortace Water Interface Criteria (5.2 ugs.). Greandwitter Bartace Water Interface Criteria (5.2 ugs.).	Discontinuities Burtace Water Interface Orients (5.2 upp.). Construents of Solder Water Interface Orients (5.2 upp.). Construents Orientees Water Interface Content (5.2 upp.). Chean-beaties Surface Water Interface Content (5.2 upp.).	Grandwater Suttice Water Interface Chine (22 ugh.). Distribution School Water Interface Central (32 ugh.). Chandwater School Water Interface Central (32 ugh.).
Date	Agril 11, 2000 August 14, 2005 August 16, 2000 September 10, 2001 March 12, 2002 June 7, 2004	March 24, 2000 August 10, 2000 May 30, 2001 May 20, 2001 June 11, 2003	March 1, 2001 March 1, 2002 September 10, 2001 December 8, 2003	May 31, 2001 December 19, 2001 September 11, 2001	February 1, 2001 February 1, 2001 May 20, 2001 December 21, 2001 September 11, 2001 December 77, 2002	March 24 2003 May 20, 2001 September 6, 2001 February 26, 2002	June 6, 2002 June 11, 2003	May 30, 2001 September 17, 2001 Cecentar 21, 2001 March 30, 2000	Marth 21, 2000 Amarth 21, 2000 Begletricher 11, 2001 Begletricher 11, 2001 Begletricher 11, 2001 Begletricher 11, 2001 Discourte 11, 2001 Discourte 11, 2001 Describer 12, 2001	March 29, 2000 August R. 2000 January 24, 2001 May 30, 2001 May 30, 2001 December 30, 2002	May 30, 2001 December 26, 2001 February 28, 2002	Oscentar 19, 2001 February 25, 2002	September 10, 2001 Beplamber 10, 2001 December 19, 2001 James y 2, 2003	March 31, 2000 December 19, 2001 Jenuary 2, 2003
Parmeter/Concentration	Cadmum - 23 6 supt. Cadmum - 23 6 supt. En 12-timprocyt britansie - 24 supt. Die Heigeforhunger - 25 supt. Tatal Cyander - 40 supt. Tatal Cyander - 40 supt.	Bis (2 Ethythesyl) Publisher - 7 augh, Cademin 7 augh, Cademin 7 augh, I chai Cyande - 12 ugh, Teles Cyande - 7 ugh.	Total Cyanice - 11 6 ugt. Total Cyanice - 7 ugt. Dief-Diefyntmate - 10 ugt. Copper - 74 ugt.	Teral Cyande - 10 upr. Teral Cyande - 6 upr. Out-Bulyphinals - 23 upr.	Cohmun - 3 dugit Copper - 30 uyl. Copper - 30 uyl. Tolid Cymer - 10 uyl. D'Hibropelmin - 11 uyl. Tolid Cyande - 6 uyl.	In 12-thytesyl Phinadas - 87 ogl. Fold Cyande - 6 ogl. Fold Cyande - 6 ogl. Told Cyande - 8 ogl.	Total Cyanide - 7 ugd. Total Cyanide 6 ugd.	Total Cyantia - 8 upt. Total Cyantia - 7 upt. Total Cyantia - 7 upt. Wyl Chlorice - 22 upt.	First Character - 28 upg. First Child Charles - 28 upg. Total Charles - 4 upg. Total Charles - 4 upg. Richar Lyst - 75 upg. Richar - 15 upg. First Charles - 20 upg. Plant Sharles - 20 upg. Plant Charles - 20 upg. Plant Sharles - 20 upg. Plant Mannel - 20 upg. Plant Mannel - 20 upg.	Bis (2-thylency) Primite - 30 upl. Carlelon - 10 upl. Carlelon - 10 upl. Carlelon - 10 upl. Total Gaster - 30 upl. Bis (2-thylency) Primite - 30 upl.	Us (2-Ebythasy) Pithinals - 58 kgl. Total Cyanide - 8 kgl. Total Cyanide - 8 kgl.	Total Cyander 7 togl. Total Cyander - 7 togl.	Total Cyanne - 10 cg/L CGR-Bunyehinate - 18 cg/L Total Cyante - 1 cg/L Total Cyante - 8 cg/L Total Cyante - 8 cg/L	Capper + 38 upt. Total Cyanida + 8 upt. Trial Cyanida + 8 upt.
PCW Wells	1.604	POW2	PCW3	1004	s.	PCWA	(MON)	9-M24-	PGWA	PCW-1G	PCW-11	PCM-12	POWIS	PCAL14

Table 2 - Visteon Monroe Groundwater Part 201 GSI Exceedances Summary

GW Wells	Parmeter/Concentration	Date	201 Exceedances	Venting Water Body
GW-2	Copper - 33 ug/L	January 51, 2001	Groundwater Surface Water Interface Criteria - 29 ugs.	West Maran
GW-5	Selenium-5.4 ug/L Vanadium - 14 ug/L	January 31, 2001 August 28, 2001	Groundwater Surface Water Interface Criteria - 5 up/L Groundwater Surface Water Interface Criteria - 12 up/L	River Rasin
GW-7	Selenium-27 ug/L	February 1, 2001	Groundwater Surface Water Interface Criteria - 5 ug/L	River Raisin
GW-8	Selenium-5,9 ug/L	February 1, 2001	Groundwater Surface Water Interface Citteria - 5 ug/L	River Raisin
GW-9	Selenium-5.7 ug/L	February 2, 2001	Groundwater Surface Water Interface Criteria - 5 ug/L	River Rasin
GW-10	Selemum-12 ug/L	February 1, 2001	Groundwater Surface Water Interface Criteria - 5 ug/L	River Rasin
GW-12	Seienam-9.4 ug/L Vinyl Chloride-59 ug/L Seienam-9.2 ug/L Vinyl Chloride-22 ug/L Vinyl Chloride-57 ug/L Vinyl Chloride-57 ug/L	February 1, 2001 February 1, 2001 May 23, 2001 May 23, 2001 August 29, 2001 December 7, 2001	Groundwater Surface Water Interface Criteria - 5 up/L Groundwater Surface Water Interface Criteria - 15 up/L Groundwater Surface Water Interface Criteria - 5 up/L Groundwater Surface Water Interface Criteria - 15 up/L Groundwater Surface Water Interface Criteria - 15 up/L Groundwater Surface Water Interface Criteria - 15 up/L	River Radio
GW-13	Selenium-10 up/L Selenium-6,3 up/L	February 2, 2001 May 16, 2001	Groundwater Surface Water Interface Criteria - 5 up/L Groundwater Surface Water Interface Criteria - 5 up/L	North Marsh
GW-18	Selenum-15 upt. PCBs (1248) - 2 upt. Virth Chloride-19 upt. Selenium-19 upt. Mercusy-0.30 upt. Viryth Chloride-25 upt. PCBs (1249) - 2.4 upt. Selenium-5.7 upt. Viryth Chloride-28 upt. PCBs (1249) - 0.9 upt. Selenium-5.7 upt. PCBs (1249) - 1.7 upt.	February 2, 2001 February 2, 2001 February 2, 2001 February 2, 2001 May 23, 2001 May 23, 2001 May 23, 2001 May 23, 2001 September 6, 2001 September 6, 2001 December 21, 2001 December 21, 2001	Groundwater Surface Water Interface Criteria - 5 up/L. Groundwater Surface Water Interface Criteria - 0.5 up/L. Groundwater Surface Water Interface Criteria - 15 up/L. Groundwater Surface Water Interface Criteria - 5 up/L. Groundwater Surface Water Interface Criteria - 5 up/L. Groundwater Surface Water Interface Criteria - 0.0013 up/L. Groundwater Surface Water Interface Criteria - 15 up/L. Groundwater Surface Water Interface Criteria - 0.5 up/L. Groundwater Surface Water Interface Criteria - 0.5 up/L. Groundwater Surface Water Interface Criteria - 0.5 up/L.	West Marsh
CW Wells				
PCW-4	Total Cyanide - 10 ug/L Total Cyanide - 6 ug/L Di-N-Butylphthalate - 23 ug/L	May 31, 2001 December 19, 2001 September 11, 2001	Groundwater Surface Water Interface Criteria - 5.2 ug/L Groundwater Surface Water Interface Criteria - 5.2 ug/L Groundwater Surface Water Interface Criteria - 9.7 ug/L	North Marsh
PCW-S	Cadmium - 7.8 ug/L Copper - 30 ug/L Copper - 30 ug/L Total Cyanide - 10 ug/L D4N-Butylphthalate - 41 ug/L Total Cyanide - 6 ug/L	February 1, 2001 February 1, 2001 May 29, 2001 December 25, 2001 September 11, 2001 December 27, 2002	Groundwater Surface Water Interface Cirteria + 6.2 ug/L Groundwater Surface Water Interface Cirteria - 29 ug/L Groundwater Surface Water Interface Cirteria - 29 ug/L Groundwater Surface Water Interface Cirteria - 5.2 ug/L Groundwater Surface Water Interface Cirteria - 9.7 ug/L Groundwater Surface Water Interface Cirteria - 9.7 ug/L	East Marsh
PCW-6	Total Cyanide - 6 upt. Total Cyanide - 9 upt. Total Cyanide - 9 upt.	May 29, 2001 September 6, 2001 February 26, 2002	Groundwater Surface Water Interface Cinteria - 5.2 ug/L. Groundwater Surface Water Interface Cinteria - 5.2 ug/L. Groundwater Surface Water Interface Cinteria - 5.2 ug/L.	East Marsh
PCW-7	Total Cyanide - 7 upt. Total Cyanide: 5 up/L	June 6, 2002 June 11, 2003	Groundwater Surface Water Interface Citteria - 5.2 ug/L Groundwater Surface Water Interface Citteria - 5.2 ug/L	East Marsh
PCW49	Total Gyande - 55 upt. Total Gyande - 5 upt. Total Gyande - 18.5 upt. Di-N-Bulyshithalare - 22.5 upt. Total Gyande - 6 upt. Naphthalare - 26 upt. Phenambrene - 18 upt. Phenambrene - 8,6 upt.	March 24, 2008 May 31, 2001 September 11, 2001 September 13, 2005 December 19, 2001 December 19, 2001 December 19, 2001 December 19, 2001	Groundwater Surface Water Interface Criteria - 5.2 up/L. Groundwater Surface Water Interface Criteria - 5.2 up/L. Groundwater Surface Water Interface Criteria - 5.2 up/L. Groundwater Surface Water Interface Criteria - 8.7 up/L. Groundwater Surface Water Interface Criteria - 5.2 up/L. Groundwater Surface Water Interface Criteria - 1.3 up/L. Groundwater Surface Water Interface Criteria - 2.4 up/L. Groundwater Surface Water Interface Criteria - 2.4 up/L.	West Marsh
PCW-10	Cadmum + 16 upt. Cadmum 18 upt. Cadmum 11 upt. Total Cyanide - 9 upt.	August 9, 2000 January 24, 2001 May 30, 2001 May 30, 2001	Groundwater Surface Water Imerface Creena - 5.2 ug/L. Groundwater Surface Water Interface Criteria - 6.2 ug/L. Groundwater Surface Water Interface Criteria - 6.2 ug/L. Groundwater Surface Water Interface Criteria - 5.2 ug/L.	East Marsh
PCW-12	Total Cyanide - 7ug/L Total Cyanide - 7 ug/L	December 19, 2001 February 26, 2002	Groundwater Surface Water Interface Criteria - 5.2 upt. Groundwater Surface Water Interface Criteria - 5.2 upt.	East intake Canal
PCW-13	Total Dyanide - 10 ug/L DHN-Butyphthalate - 18 ug/L Total Dyanide - 8 ug/L Total Dyanide - 9 ug/L	September 10, 2001 September 10, 2001 December 10, 2001 January 2, 2003	Groundwater Surface Water Interface Criteria - 5.2 ug/L Groundwater Surface Water Interface Criteria - 8.7 ug/L Groundwater Surface Water Interface Criteria - 5.2 ug/L Groundwater Surface Water Interface Criteria - 5.2 ug/L	East/North Imake Canar
PCW-14	Copper - 30 ugit. Total Cyanide - 9 ugit. Total Cyanide - 9 ugit.	March 31, 2000 December 19, 2001 January 2, 2003	Groundwater Surface Water Interface Criteria - 29 ug/L. Sroundwater Surface Water Interface Criteria - 5.2 ug/L. Sroundwater Surface Water Interface Criteria - 5.2 ug/L.	North Intake Canal

Figure 3 - GW-11R Concentration Vs. Time Plots

250

-■- Vinyl Chloride -- Arsenic Nov-01 Oct-01 Sep-01 Aug-01 Jul-01 Jun-01 May-01 Apr-01 Mar-01 Feb-01 200 150 100 20 Concentration (ug/L)

Figure 4 - GW-15 Concentration Vs. Time Plots

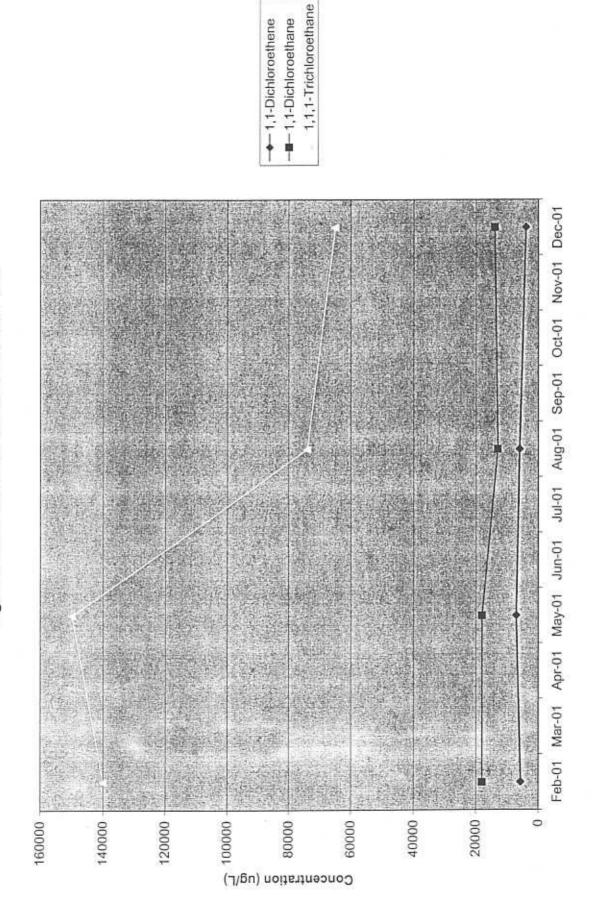
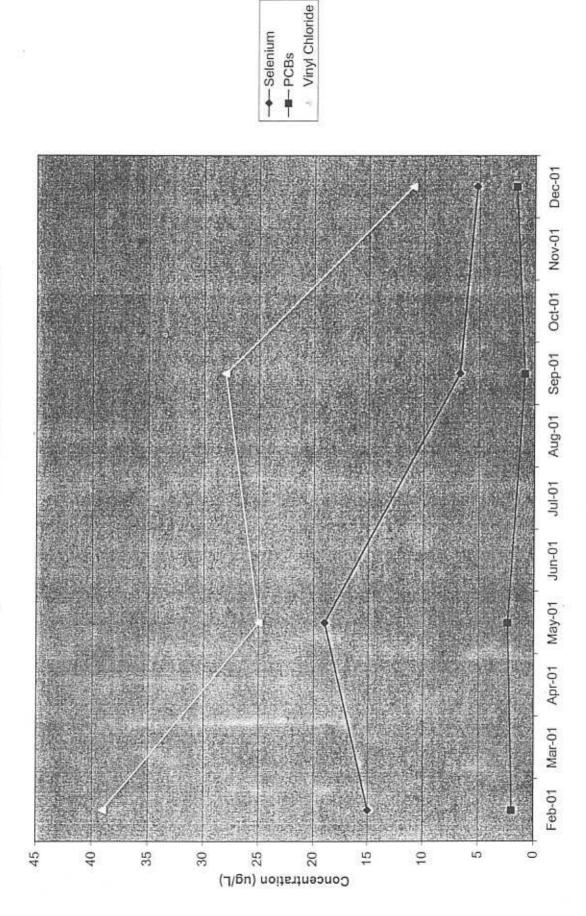


Figure 5 - GW-16 Concentration Vs. Time Plots



CAFILE .. 005

CA 725 Human Exposures Controlled Determination Data Entry Form

FACILITY NAME:	VISTEON CORP MONROE STAMPING PLT						
MID NUMBER:	NUMBER: MID 005 057 005 CONTROLLED?:						
STREET ADDRESS:	TREET ADDRESS: 3200 E ELM AVE EVALUATION DATE:						
CITY:	MONROE LEAD AGENCY: W						
COUNTY:	MONROE GPRA UNIVERSE(S) CA.						
Has all information on	releases to the following media t	peen considered	Yes				
Is Indoor Air contamin	nated above selected Part 201 lan	d-use based criteria?	No				
Is Surface Soil (<2 ft. bgs) contaminated above selected Part 201 land-use based criteria							
Is Surface Water cont	aminated above selected Part 20	1 land-use based criteria?	No				
Are Sediments contar	minated above selected Part 201	land-use based criteria?	No				
Is Subsurface Soil (>2	2 ft. bgs) contaminated above sele	ected Part 201 land-use based criteria	Yes				
Is Outdoor Air contam	Is Outdoor Air contaminated above selected Part 201 land-use based criteria?						
Is Groundwater contaminated above selected Part 201 land-use based criteria?							
Are any media contar	ninated above selected Part 201 I	and-use based criteria?	Yes				
List the Key Contamir	nants associated with each media	contaminated above Part 201 criteria her					

Please see attached list and Mannik & Smith July 25, 2001, "Documentation of Environmental indicator Determination" Report and a Michigan Department of Environmental Quality list of parameters that exceed Part 201

List any Complete Pathways for contaminants and human receptors; GW, Surf Soil, Subsurf Soil

List the Human Receptors that may be affected by contamination

W, T

Are exposures from complete pathways expected to be significant?

No Yes

Are significant exposures from complete pathways within acceptable limits

Provide a rationale and references justifying answers to the above questions here

Potential surface soil exposures (direct contact and/or particulate soil inhalation exceedances) are controlled by barriers and signage restricting access. Potential sub-surface soil exposures (direct contact and/or particulate soil inhalation exceedances) are controlled via a Standard Operating Procedure (SOP) in place restricting disturbance of soils without prior approval from environmental department (a copy attached). The Health and Safety Plan (HASP) implemented to address any potential exposure will be given to all contractors who will work at any Solid Waste Management Units (SWMUs) (a copy attached).

Potential groundwater exposures (drinking water criteria) controlled since impacted groundwater not used as a drinking water source. A deed restriction will be placed on the land upon completion of the remediation and corrective action at the SWMUs.

Provide the physical location of any references cited here (file name, library, etc.

All references attached. Additional	details provided in Project Files and HWPS Library documents.	
PROJECT STAFF:		
HWPS SUPERVISOR:	Tenneter Bruse	
STATE PERMIT ENGINEER:	Steve Sliver	
STATE GEOLOGIST:	Joe Rogers	
EPA STAFF:	Todd Gmitro, Waste	
EPA Contact Phone:		
EPA Contact e-mail:		E STATE
EPA Program;		
	Save Record	
	Return to Main Menu	

Sharleen GetAcholin

Attachment B3

Hydrogeologic Report and Topographic Map

FORM EQP 5111 ATTACHMENT TEMPLATE B3 HYDROGEOLOGIC REPORT

The administrative rules promulgated pursuant to Part 111, Hazardous Waste Management, of Michigan's Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451), R 299.9506, R 299.9508, and R 299.9612 and Title 40 of the Code of Federal Regulations (CFR) §§264.94, 264.95, 264.97, 264.98, 270.13(10)(I), and 270.14(b)(19) establish requirements for hydrogeologic reports for hazardous waste management facilities. All references to 40 CFR citations specified herein are adopted by reference in R 299.11003.

This license application template addresses requirements for a hydrogeologic report for the hazardous waste management units and the hazardous waste management facility for the *River Raisin Warehouse* facility in Monroe, Michigan. This template includes hydrogeologic report requirements, waiver demonstrations, and alternative information requests for operating license applications. This hydrogeologic report supplies information to support the groundwater monitoring program, or groundwater monitoring waiver request, proposed and included in Template B5, Environmental Monitoring Programs.

Applicant for Operating License for Existing Facility: R 299.9506 hydrogeologic report A waiver for the hydrogeologic report is requested for one or more units \boxtimes Alternative information is proposed for information required in the hydrogeologic report for one or more units A waiver is requested for groundwater monitoring requirements for one or more units, and is included in Template B5 More than one box may be checked, if waivers or alternative information apply to some of the units at the facility. Applicant for Operating License for New, Altered, Enlarged, or Expanded Facility: R 299.9506 hydrogeologic report П A waiver is requested for groundwater monitoring requirements for one or more units, and is included in Template B5 (B) Both boxes may be checked, if appropriate

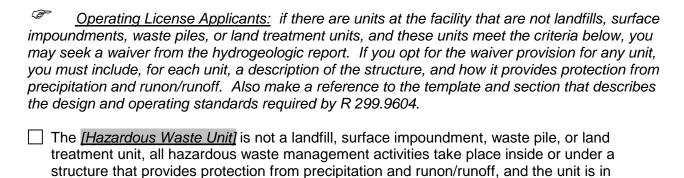
(Check as appropriate)

This template is organized as follows:

B3.A B3.B	HYDROGEOL SITE HYDRO B3.B.1 B3.B.2 B3.B.3	GEOLOGY Summary of Identification Topographic B3.B.3(a) B3.B.3(b) B3.B.3(c) B3.B.3(d) B3.B.3(e) B3.B.3(f)	Waste Management Areas Property Boundaries Point of Compliance Groundwater Monitoring Wells Aquifer Information Extent of Contaminant Plume
	B3.B.4		orings within One Mile
	B3.B.5		Plume Description
B3.C			OR PROPOSED GROUNDWATER MONITORING PROGRAM
	B3.C.1		ternate Information
	B3.C.2	•	Sampling, and Testing
		` '	Number and Location of Soil Borings
			Soil Sampling and Testing
		` '	Soil Layer Evaluations
			Boring Log Information
			Borehole Completion
	B3.C.3	Observation	Wells and Well Clusters
		B3.C.3(a)	Static Water Levels and Construction Details
		B3.C.3(b)	Groundwater Maps
		(-)	Justification for Observation Well Locations
			Logs for Borings Completed as Observation Wells
B3.D	GROUNDWA'	TER MONITO	PRING PROGRAM
	Table B3.D.1	Unit-Specific	Groundwater Monitoring Program
B3.E	ADDITIONAL	INFORMATIO	ON REQUIREMENTS
	B3.E.1	Additional Sc	oil Boring Tests
	B3.E.2	Soil Borings	to Define Bedrock
	B3.E.3	Additional Ge	eotechnical Characteristics
	B3.E.4	Geologic Cro	oss Sections
	B3.E.5	Water Budge	et Calculations
		J	

B3.A HYDROGEOLOGIC REPORT WAIVER REQUEST

[R 299.9508(2)]



Note that the hydrogeologic report must include enough information to support the groundwater monitoring program proposed in Template B5, Environmental Monitoring Programs. If a waiver has been requested for a groundwater monitoring program, the hydrogeologic report must include enough information to support the waiver request. A waiver request for groundwater monitoring is not justification for a waiver request from the hydrogeologic report.

compliance with the facility design and operating standards found in R 299.9604.

B3.B SITE HYDROGEOLOGY

[R 299.9506 (1)(a) through (g) and 40 CFR, Part 265, Subpart F, and §§270.13(l), 270.14(b)(19), and 264.97]

This section presents a summary of the River Raisin Warehouse facility's unit-specific preapplication groundwater monitoring data, an identification of all aquifers, hydrogeologic information on topographic maps, and identification of any plumes of contamination.

B3.B.1 Summary of Existing Information [R 299.9506(1)(a)]

Based on The Administrative Rules for Part 111, Hazardous Waste Management, of the Michigan Natural Resources and Environmental Protection Act, 1994 PA 451, as amended and Title 40 of the Code of Federal Regulations establish requirements for hydrogeologic reports for hazardous waste management facilities. Listed below is a brief summary of each component required for the updated Hydrogeological Report for the Ford River Raisin Warehouse (RRW).

Previous Hydrogeological Report

Attached is a copy of the Hydrogeological Report completed as part of the Act 64 Post-Closure Operating License Application, dated July 18, 1994 for the RRW.

Monitoring Data

Analytical summary tables including ground water monitoring data collected as part of the Final Ground Water Investigation and Post-Closure Environmental Monitoring are attached. Additionally, the following paragraphs include synopses of the most recent ground water conditions at the site.

Final Ground Water Investigation

As described in the Final Ground Water Investigation Report, the following is a summary of the ground water sampling results conducted in January/February 2001, May 2001, August 2001 and December 2001 at the downgradient monitoring wells (designated as GW wells).

The results from the GW wells were evaluated against all Part 201 pathways. Concentrations above Residential Drinking Water (RDW) and Groundwater-Surface Water Interface (GSI) criteria constituted the majority of exceedances. Concentrations are compared with all Part 201 criteria and any criteria exceedance other than RDW and GSI are noted on the table included in this section.

There were no herbicides, pesticides or dioxins detected in any of the ground water well samples during all of the sampling periods and the levels of total cyanide and SVOCs measured in the ground water samples were consistently lower than all criteria.

Silver, tin and beryllium were never detected at the GW wells. Barium, cobalt, thallium and zinc were detected but never exceeded any criteria at any of the GW wells. Antimony RDW exceedances were recorded at each GW well during January and/or May. However, no antimony was detected at any well during the September or December sampling periods. The only mercury detection and exceedance occurred at GW-16 in May. No other detections of mercury were recorded. All selenium concentrations above GSI criteria at the down gradient SWMU wells were subjected to trend analyses and proven to be non-significant. Monitoring well GW-15 was the only location that had a nickel exceedance.

PCBs were detected and exceeded RDW and GSI criteria during each sampling period at GW-16. Monitoring well GW-16 is the only GW well where PCBs were detected.

During each of the four sampling rounds, samples collected from GW-11R exceeded both GSI and RDW criteria for arsenic. However, GW-10, which did not have any reported arsenic exceedances, is located down gradient from GW-11R.

Vinyl chloride exceedances occurred during each of the four sampling periods for ground water wells GW-11R, GW-12, GW-15, and GW-16 with the exception of the May sampling round for GW-15. All noted exceedances were above both GSI and RDW criteria with the exception of the May and December sampling rounds for GW-11R (only a RDW criteria exceedance), and the December sampling round for GW-16 (also an RDW criteria exceedance). Vinyl chloride was not detected at any other well during any of the sampling periods.

GW-15 also had exceedances for other VOCs that were not detected at any of the other GW wells. Please refer to the table in this section for details of these detections.

Post-Closure Environmental Monitoring

As described in the latest Annual Ground Water Report, the following is a summary of the post-closure ground water sampling results conducted in 2016.

Prior to the collection of samples for laboratory analysis, the field parameters of pH and specific conductivity were recorded at each post-closure well location during each sampling event. Ground water specific conductivity measurements ranged from 2,276 to 3,422 microsiemen/centimeter (μ S/cm). The pH measurements at the post-closure monitoring wells ranged from 6.55 to 7.45.

During the December 2016 sampling event, the cumulative sum for total cyanide in PCW-1 was above the internal value, which is used to show a possible significant value at the well. However, this elevated value is due to high detection in June 2004. Since June 2004, the cumulative sum has been decreasing. In addition, the standardized mean is below the internal value and Shewhart Control Limit. Therefore, MSG does not believe this represents a

significant value at PCW-1.

The cumulative sum for bis(2-ethylhexyl) phthalate in PCW-6 was above the internal value, which is used to show a possible significant value at the well. The elevated value is due to high detections in December 2011. Since December 2011, the cumulative sum has been decreasing. In addition, the standardized mean is below the internal value and Shewhart Control Limit. Therefore, MSG does not believe these represent significant values at PCW-6.

The cumulative sum for specific conductivity in PCW-10 was above the internal value. This elevated value is due to elevated detections in previous sampling events. However, the standardized mean has been below the internal value and Shewhart Control Limit for a number of years. Therefore, MSG does not believe this represents a significant value at PCW-10.

The cumulative sums for hexavalent chromium for PCW-1 and PCW-9 were above the internal value. These elevated values are due to elevated laboratory reporting limits (above the GEN-8 reporting limit of 5 ug/L) in 2012. Since then, the reporting limit has varied from 10 ug/l in 2013 and part of 2014. The reporting limit decreased to 5 ug/l and lower for the second round in 2014 and 2015. This Round 36 had a laboratory reporting limit of 3. The standardized mean is below the internal value and Shewhart Control Limit. Therefore, MSG does not believe these represent significant values at these wells.

Cadmium in post-closure well PCW-7 (0.7 ug/l) was detected above the Gen-8 Reporting Limit (0.5 ug/l). Historically, cadmium samples from PCW-7 were included in the Group I Analytes (i.e. less than the Gen-8 reporting Limit). A sample duplicate (DUP-1) was collected from well PCW-7 during the December 2016 event. Concentrations of cadmium from DUP-1 were not detected. Therefore, due to the discrepancy between PCW-7 results and DUP-1 results, MSG believes that the cadmium detection in PCW-7 should be considered suspect and that we respectfully request that the corrective measures as outlined in the Hazardous Waste Management Facility Operating License (005 057 005) for the Monroe site, Part IV (A)(7), not be implemented at this time.

Finally, according to the laboratory reports, copper was detected in monitoring well PCW-3 at 6 ug/l. Nickel was detected in monitoring well PCW-6 at 5 ug/l. The current 2012 MDEQ GEN-8 Reporting Limit for copper is 1 ug/l and nickel is 2 ug/l. However, both detections were below the historical MDEQ Operational Memo GEN-8 Reporting Limits (RL) which is 25 ug/l for copper and 25 ug/l for nickel (2001). Therefore, these two detections are not considered significant and will remain as a Group I Analyte.

B3.B.2 Identification of Aquifers and Their Uses

[R 299.9506(1)(b), (c), and (d)]

See Attachment B2 Corrective Action Information section B2.A.2(c) for hydrogeology information.

B3.B.3 Topographic Map

[R 299.9506(1)(e)(i) through (v)]

A topographic map, in accordance with 40 CFR §270.14(b)(19), is included in Template A13. This topographic map is at a scale of one inch equal to no more than 200 feet, showing a distance of 1000 feet around the facility perimeter.

B3.B.3(a) Waste Management Area

[R 299.9506(1)(e)(i)]

There are no waste management areas, treatment areas or storage areas.

B3.B.3(b) Property Boundaries

[R 299.9506(1)(e)(ii)]

See Attachment III, Other Facility Drawings included in this permit for a general layout of the site.

B3.B.3(c) Point of Compliance

[R 299.9506(1)(e)(iii)]

No compliance points and or periods have been proposed or established as investigations currently ongoing.

B3.B.3(d) Groundwater Monitoring Wells

[R 299.9506(1)(e)(iv)]

See Attachment III, Other Facility Drawings included in this permit for a general layout of the site.

B3.B.3(e) Aquifer Information

[R 299.9506(1)(e)(v)]

See attached figures of ground water elevations from the December 2016 Hydraulic Monitoring Event. Attached is a copy of the Hydrogeological Report completed as part of the Act 64 Post-Closure Operating License Application, dated July 18, 1994 for the RRW.

B3.B.3(f) Extent of Contaminant Plume

[R 299.9506(1)(g)(i)]

There is no plume at the site.

B3.B.4 Wells and Borings Within One Mile

[R 299.9506(1)(f)]

Attached is a copy of the Hydrogeological Report completed as part of the Act 64 Post-Closure Operating License Application, dated July 18, 1994 for the RRW.

B3.B.5 Contaminant Plume Description

[R 299.9506(1)(g)]

Not Applicable.

B3.C ENGINEERING REPORT FOR PROPOSED GROUNDWATER MONITORING PROGRAM

[R 299.9506(2) and (7)]

The engineering information included in the hydrogeologic report supports the proposed groundwater monitoring programs or waiver requests included in this application as Template B5, Environmental Monitoring Programs, and Template B2, Corrective Action.

B3.C.1 Waiver or Alternate Information Request

[R 299.9506(7)]

If you wish to request a waiver for information requirements in R 299.9506(2), or substitute information for that required by R 299.9506(2), you may check the boxes below. However, you

		e justification for waivers or substitutions, based on site-specific information, information, and references to the appropriate template for each unit.						
	Waive	r is requested for R 299.9506(2)						
\boxtimes	Alterna	ate information is substituted for information requirements in R 299.9506(2)						
B3.0	Soil Borings, Sampling, and Testing [R 299.9506(2)(a)(i) through (vi)]							
Not a	applicat	ble.						
		Number and Location of Soil Borings [R 299.9506(2)(a)(i)]						
Not a	applicat	ple						
B3.0	B3.C.2(b) Soil Sampling and Testing [R 299.9506(2)(a)(ii) and R 299.9506(6)(a)}							
Che	ck the b	ooxes below, as applicable:						
	The [Hazardous Waste Unit] is not a surface impoundment, landfill waste pile, or land treatment area. Soil sampling and testing information to meet requirements of R 299.9506(2)(a)(ii) is included in this section.							
æ resu	-	u have checked the box above, you must provide completed soil sampling and testing he following requirements:						
		A soil sample must be collected at each change in soil layers or lithology within each poring.						
	F	Two of the required five borings must be logged using continuous sampling methods. For sites larger than five acres, one of each of the three additional required borings must be logged using continuous sampling methods.						
	ŗ	Samples that are collected from changes in layers or lithology must be tested for particle size distribution (using both a sieve and a hydrometer), and Atterberg limits. Samples must also be classified using the Unified Soil Classification System.						
		licant should also include a description of soil sampling methods used, and results of defending Penetration Testing (using ASTM D1586-67).						
	treatm	dazardous Waste Unit unit is a landfill, surface impoundment, waste pile, or land ent area. Soil sampling and testing to meet the requirements of R 299.9506(2)(a)(ii) 299.9506(6)(a) is included in this section.						
	e requii	e unit is a landfill, surface impoundment, waste pile, or land treatment area, in addition rements of R 299.9506(2)(a)(ii), the sampling and testing must meet the requirements 06(6)(a): particle size distribution, Atterburg limits, and Unified Soil Classifications,						

completed at minimum five-foot intervals or change in geologic formation. Standard Penetration Testing should also be included at the same minimum interval.

B3.C	.2(c)	Soil Layer Evaluations [R 299.9506(2)(a)(iii) and R 299.9506(6)(b)]
Chec	ck the box	kes below, as applicable:
	treatmer	zardous Waste Unit] unit is not a landfill, surface impoundment, waste pile, or land area. Soil layer evaluations are included to meet the requirements of 506(2)(a)(iii).
		have checked the box above, you must describe the results of the evaluations done ayer, for the following:
	1. Mc	pisture content, using ASTM D422-63
	2. Pe	rmeability with water, using one of the methods defined in R 299.9506(2)(a)(iii)(b).
	treatmer	zardous Waste Unit] unit is a landfill, surface impoundment, waste pile, or land nt area. Soil layer evaluations have been included to meet the requirements of 506(2)(a)(iii) and R 299.9506(6)(b).
☞ R 29		have checked the second box, in addition to the requirements for)(a)(iii), you must conduct these soil evaluations at a minimum 10-foot interval.
B3.C	.2(d)	Boring Log Information [R 299.9506(2)(a)(iv) and (vi)]
Not a	applicable).
В3.С	5.2(e)	Borehole Completion [R 299.9506(a)(2)(v)]
Not a	applicable).
В3.С	:.3	Observation Wells, and Well Clusters [R 299.9506(2)(b) through (f)]
B3.C	5.3(a)	Static Water Levels, and Construction Details [R 299.9506(2)(b)]

The applicant must include static water level measurements from at least three observation wells and one well cluster, for the first 5 acres, and one well for each additional 10 acres. For land-based units, a minimum of three wells and one well cluster must be included for every 20 acres. For well construction, include reference to the appropriate sections of Templates B5, Environmental Monitoring, and Template B2, Corrective Action. These sections must show that the requirements of R 299.9612 have been met.

B3.C.3(b) Groundwater Maps

[R 299.9506(2)(c) and (d)]

See attached figures of ground water elevations from the December 2016 Hydraulic Monitoring Event.

B3.C.3(c) Justification for Observation Well Locations [R 299.9506(2)(e)]

Refer to attached copy of the Hydrogeological Report completed as part of the Act 64 Post-Closure Operating License Application, dated July 18, 1994 for the RRW.

B3.C.3(d) Logs for Borings Completed as Observation Wells [R 299.9506(2)(f)]

See attached boring logs for post closure monitoring wells.

B3.D GROUNDWATER MONITORING PROGRAM

[R 299.9506(3) through (5), R 299.9611(2)(b) and (3), R 299.9612, R 299.9629, and 40 CFR, Part 264, Subpart F, except 40 CFR §§264.94(a)(2) and (3), 264.94(b) and (c), 264.100, and 264.101}

The summary of preapplication monitoring information and information included in the engineering report establish the basis for determining the appropriate groundwater monitoring program for each unit at the River Raisin Warehouse facility. The proposed detection monitoring and compliance monitoring programs for applicable units are included in Template B5, Environmental Monitoring Programs. The proposed corrective action groundwater monitoring program for applicable units is included in Template B5, Environmental Monitoring Programs, and Template B2, Corrective Action. The table below identifies unit-specific determinations for groundwater monitoring programs and is identical to the table included in Section B5.A of Template B5.

Table B3.D.1 Unit-Specific Groundwater Monitoring Program

Unit	Land Disposal Unit (Yes) ¹	Land Disposal Unit (No) ²	Waiver ³	Detection Monitoring ⁴	Compliance Monitoring ⁵	Corrective Action ⁶
Western Containment Unit						
Eastern Containment Unit						

Surface impoundments, waste piles, and land treatment units or landfills (land disposal units) that receive hazardous waste after July 26, 1982, are considered regulated units and must comply with the requirements specified in 40 CFR §§264.91 through 264.99 except 40 CFR §§264.94(a)(2) and (3), and 264.94(b) and (c), and R 299.9629 for purposes of detecting, characterizing, and responding to releases to the uppermost aquifer. If the unit is a land disposal unit, check the "yes" column and indicate in the table whether a waiver for a groundwater monitoring program is being requested or if the facility is proposing a detection monitoring, compliance monitoring, or corrective action program.

- ⁴ If an applicant is not required to implement a compliance monitoring program or a corrective action program, in all other cases, the applicant must institute a detection monitoring program under 40 CFR §264.98.
- ⁵ Whenever hazardous constituents under 40 CFR §264.93 are detected at a compliance point, the applicant must institute a compliance monitoring program under 40 CFR §264.99. Detected is defined as statistically significant evidence of contamination as described in 40 CF §264.98(f).
- ⁶ If an unit is undergoing corrective action in accordance with R 299.9629 and 40 CFR, Part 264, Subpart F, except 40 CFR §§264.100 and 264.101, the application should refer to Template B2, Corrective Action, which discusses the groundwater monitoring associated with corrective action.

B3.E ADDITIONAL INFORMATION REQUIREMENTS

[R 299.9506(6)]

Check as appropriate:

The [Hazardous Waste Unit] unit is not a landfill, surface impoundment, waste pile, or land
treatment unit. The requirements of R 299.9506(6) do not apply.

The Eastern and Western Containment unit is a landfill, surface impoundment, waste pile, or land treatment unit. Additional information has been included to address requirements necessary to determine site suitability and facility design.

B3.E.1 Additional Soil Boring Tests

[R 299.9506(6)(a) and (b)]

Soil boring tests in accordance with R 299.9506(6)(a) and (b) are included in Sections B3.C.2(b) and B3.C.2(c), respectively.

B3.E.2 Soil Borings to Define Bedrock

[R 299.9506(6)(c)]

Refer to attached copy of the Hydrogeological Report completed as part of the Act 64 Post-Closure Operating License Application, dated July 18, 1994 for the RRW.

B3.E.3 Additional Geotechnical Characteristics

[R 299.9506(6)(d)]

Refer to attached copy of the Hydrogeological Report completed as part of the Act 64 Post-Closure Operating License Application, dated July 18, 1994 for the RRW.

B3.E.4 Geologic Cross Sections

² If the unit is not a land disposal unit, check the "no" column. The applicant should indicate in the table that a waiver is being requested.

³ The unit is a land disposal unit and the applicant is requesting a waiver for a groundwater monitoring program.

[R 299.9506(6)(e)]

Not Applicable due to the closed status of the onsite containment units.

B3.E.5 Water Budget Calculations [R 299.9506(6)(f)]

Not Applicable due to the closed status of the onsite containment units.

5.0 HYDROGEOLOGICAL REPORT

5.1 Site Assessment Summary

Site assessment data for this facility are derived from waste characterization and engineering studies prepared for Ford by Keck Consulting Services, Inc. and by Neyer, Tiseo and Hindo, Ltd. (NTH). The studies and the primary issues they address are as follows:

Date & Title

Keck 1981 Hydrogeological Investigation

Keck 1982 (October). Phase II Hydrogeological Investigation

Keck 1982 (December)
Phase III Hydrogeological
Investigation

NTH 1985
Phase I Engineering Study Closure of Areas A and B

NTH 1986 Evaluation of Feasibility of On-Site Sludge Stabilization

NTH 1987 (March) Phase I Feasibility Study -Closure of Disposal Areas

NTH 1987 (August) Supplemental Waste Characterization Study

Primary Topic

Preliminary review of site geology and hydrogeology.

Testing of dike soils for permeability and cation exchange capacity.

Installation of monitoring wells around Areas A, B, C and the West Lagoon.

Closure options for Areas A & B. Testing of soils and sludges in Areas A & B.

Evaluation of sludge solidification feasibility in Areas A and B.

Geological and hydrological conditions at the site and their impact on options for closing all impoundments.

Chemical testing of sludges and soils in Areas C, D and D-West.

NTH 1988
Phase II Preliminary
Engineering Field Investigation

NTH 1990 Solidification Study

NTH 1991 Area D Investigation

NTH 1992 West Marsh and North Intake Canal Study

NTH 1993 Report on Limited Hydrogeologic Investigation

NTH 1993
Supplemental Investigation West Marsh and North Intake
Canal

NTH 1993 Design Modifications

NTH 1994 Evaluation of VOC Monitoring Chemical testing of soils in Areas C and D and additional design studies.

Solidification of sludges in Areas A, B, C, D and non-sludge fill in Area C.

Geotechnical and chemical study of Area D soils and determination of waste volumes.

Investigate depth and extent of sludge in West Marsh and North Intake Canal.

Provide additional information on vertical hydraulic gradient, groundwater quality, (bedrock aquifer) and groundwater flow direction (upper water-bearing soils).

Provide additional information on extent of sludge in West Marsh and North Intake Canal

Present modified LCRS system design and supporting technical data

Present results of VOC emissions modelling from Area C

Copies of the studies have been submitted to the Michigan Department of Natural Resources (MDNR) by Ford in connection with the closure. A summary of the information collected during these investigations is presented below.

5.2 Site Geology

The near-surface geology of the Monroe area is a result of the most recent stage (Wisconsin) of Pleistocene glaciation. Following the glacial retreat the area was occupied by a large glacial lake, resulting in an extensive lacustrine deposit. In some areas the post-glacial deposits have been further altered due to erosion and deposition caused by stream channels and marshes.

The geology of the site is representative of the region and includes 1) a number of discontinuous sand deposits, 2) relatively continuous marsh deposits, 3) a layer of lacustrine and glacial clay, and 4) bedrock. Each of these principal features is described in detail below.

Discontinuous Sand Deposits - A number of sand deposits have been encountered at the site. One such deposit occurs in the south central portion of Area C. This deposit lies below the surficial fill materials, and it is believed to range up to approximately 9 feet in thickness. This sand deposit was not encountered in all test borings in Area C, suggesting that it represents a discontinuous stream channel deposit. This suggestion is further supported by the presence of significant quantities of shells and by historical aerial photographs which indicate that a stream channel originally passed through the site.

A similar sand deposit of loose gray and tan fine to coarse sand with varying amounts of silt, gravel, and shells occurs in the northwest portion of Area D. The thickness of this sand ranges from approximately 4.5 to 5.5 feet. Based on limited subsurface information, this sand deposit appears to extend south and west from Area D.

Marsh Deposits - The uppermost native soil layer at the site consists of a marsh or swamp deposit. This layer includes black organic silt and clay with seams of fibrous peat, marl, and fine sand. The maximum thickness of this layer is approximately 8 feet.

The marsh deposit is not present in the central portion of Area C and on the west end of Area D. These two areas coincide with the occurrence of the stream channel sand deposits described above.

Based on previous laboratory testing, the dry density of the marsh deposits varies between approximately 48 and 100 pounds per cubic foot (pcf), natural moisture content ranges between approximately 28% and 88%, and unconfined compressive strength ranges between approximately 500 and 1500 pounds per square foot (psf). In addition, the results of the observation well recharge data obtained during the Phase II field investigation indicate effective permeabilities in the marsh soil and fill

deposits ranging from approximately 2.6 \times 10⁻⁴ to 1.6 \times 10⁻³ cm/sec.

Native Clays - The Ford Monroe site is underlain by native clays which range in total thickness from approximately 2 to 24 feet in the closure areas. In terms of the proposed closure design, the native clays are the most significant soil layer at the site. As explained more fully in a later section of this report, the closure design will utilize the underlying clays as a vertical barrier to waste constituent migration. Cut-off walls keyed into the clay will enclose the disposal areas and serve as horizontal containment.

The native clays can be divided into two distinct deposits: lacustrine clay and glacial till. The lacustrine clay consists of medium to stiff mottled brown and gray silty clay with occasional reddish (rouge) clay inclusions. This deposit varies in thickness from zero to approximately 8 feet. The lacustrine clay does not occur in the northwest portion of Area D or in most of Area D-West.

Laboratory testing conducted during the Phase II investigation indicates dry density values for the lacustrine clay layer ranging from approximately 92 to 111 pcf, moisture contents ranging from approximately 16% to 36%, and unconfined compressive strengths ranging from approximately 400 to 3500

psf. In addition, laboratory falling-head permeabilities for this material are noted to range from approximately 1 x 10^{-8} to 7 x 10^{-8} cm/sec., and the organic carbon content was noted to range from approximately 3.4 to 6.4 percent by weight.

Underlying the lacustrine clay deposit, or the near-surface soils where no lacustrine clay was encountered, is a deposit of glacial till. This material is generally hard to very hard and consists of a silty clay matrix containing varying amounts of coarser material ranging in size from fine sand to cobbles. The glacial till appears to occur throughout the site, and it varies in thickness from approximately 2 to 20 feet. This deposit is thickest on the east side of Area C, while thinner zones occur in Area A, on the west side of Area D, and near the polishing lagoon in Area C.

Previous laboratory testing showed the dry density of the glacial till ranges from approximately 93 to 136 pcf, natural moisture contents range from approximately 6% to 30%, and unconfined compressive strength ranges from approximately 2500 to 3300 psf. Laboratory permeability values range from approximately 0.8 x 10⁻⁸ to 7.2 x 10⁻⁸ cm/sec, and the organic carbon content in the till ranges from approximately 2.3 to 3.6 percent by weight.

Bedrock - The Raisin River Dolomite (Bass Islands Group) underlies the glacial till at the site. Based on test borings at the site, this dolomite occurs in association with a layer of soft blue-gray shale. The shale and dolomite are often highly fractured or brecciated. At one location in the southwest portion of Area D, a seam of gravelly coarse sand was encountered below approximately 9 feet of shale breccia. Groundwater within the bedrock is under confined conditions.

5.3 Site Hydrogeology

According to the results of a hydrogeologic investigation by Keck Consulting Services, Inc. dated August 14, 1981, the City of Monroe obtains its municipal water supply from Lake Erie. A search of MDNR files revealed one water supply well within a 2-mile radius of the site. This well, located approximately 1 mile southwest of the Ford property, was screened in the bedrock. The Keck report indicates that the bedrock aquifer in the region is generally overlain by relatively impermeable glacial clay. The report further states that groundwater from the bedrock aquifer is highly mineralized and must be treated prior to use as a water supply.

Groundwater at the site occurs in both the shallow soils and bedrock. The two units are separated by a native deposit of saturated lacustrine clay and glacial clay till. Based on water elevations measured by NTH in deep observation wells, the

horizontal direction of groundwater flow in the bedrock aquifer is from north to south under a gradient of approximately 0.0006 to 0.004 ft/ft. Groundwater in the bedrock aquifer beneath the site exists under confined conditions; that is, the piezometric surface is above the contact between the rock formation and the overlying glacial clay. The piezometric surface of the bedrock aquifer is near or above the surface elevation at the site. Water level measurements indicate an upward vertical hydraulic gradient from the bedrock through the overlying soil deposits ranging from approximately 0.03 to 0.33 ft/ft. This gradient minimizes the possibility of the downward migration of waste constituents from the surface impoundments. Upward groundwater flow is restricted by the clay deposit which has a laboratory measured hydraulic conductivity on the order of 0.8 x 10⁻⁸ to 7.2 x 10⁻⁸ cm/sec.

Above the saturated clay, groundwater is encountered within the granular marsh sediments and discontinuous sand deposits. This shallow groundwater unit is not an aquifer because it is incapable of yielding sufficient quantities of groundwater to wells. Groundwater in the shallow sediments are hydraulically connected with surface water at the site, as evidenced by the close agreement between water elevations in shallow monitoring wells and the surrounding surface water.

5.4 Chemical Testing of Groundwater and Surface Water in Disposal Areas

During one of the several site assessments conducted at the facility, samples of water from soils underlying Areas A, C, D and D-West were collected for chemical analysis. Water samples were also collected from the underlying bedrock aquifer.

5.4.1. Water Samples from Underlying Soils

الرازين والتواوي المنافي سيوان ويستستنه يوفيننا شفاوا

None of the water samples from the soils beneath Areas A, C or D exhibited dissolved metals above the levels specified in the facility's sanitary sewer discharge permit. In Area D-West, the zinc concentration (4.5 ppm) in a single water sample taken from the saturated soil sample was higher than the level set in the sanitary sewer discharge permit (2.0 ppm).

Organic compounds detected in the water samples are presented in Table 5. Water samples taken from soils beneath Area C were found to contain several organic chemical constituents. Water samples from Areas A and D-West contained one organic compound each. No organic compounds were observed in the water samples from Area D.

5.4.2 Existing Groundwater Monitoring Program

Groundwater quality monitoring at the Ford Monroe facility has been conducted in accordance with the requirements of 40 CFR 265 Subpart F since 1983. As part of these requirements, Ford developed and followed a Groundwater Sampling and Analysis Plan. A copy of this plan is included in the separate Post-Closure Plan. The monitoring system consists of six monitoring wells (designated MW-1, 2, 3, 5, 6, and 8) approximately located as shown on Plate 10, Existing Monitoring Well Location Plan.

The existing groundwater monitoring system was designed by Ford to detect the migration of any hazardous waste constituents from the RCRA regulated units (Areas A and B) at the site. The wells were screened in the uppermost saturated soil unit (marsh deposits, shallow sands, or clay). This shallow unit is believed to be the most likely pathway for migration of waste constituents from the regulated units because of the protection offered to the bedrock aquifer by the overlying clay and a prevailing upward vertical hydraulic gradient.

Each monitoring well was installed to a depth of approximately 20 feet below ground surface. The wells are constructed of either 2-inch or 6-inch diameter plastic casing and screen, and the lower 15 feet of each well is screened.

Based on water level elevations measured during the initial groundwater monitoring period, the horizontal direction of shallow

groundwater flow was determined to be toward the east. Therefore, monitoring well MW-8 (located west of Areas A, B and C) has been used as the upgradient sampling location (located east of Areas A, B and C) for Areas A, B, and C while monitoring wells MW-1, 2, 3, 5, and 6 have been used as downgradient sampling locations. However, the 1993 limited hydrogeologic investigation and subsequent groundwater monitoring indicate that the groundwater flow direction in the upper water-bearing unit appears to be radially outward from the surface impoundment.

Statistically significant increases in indicator parameter levels have been noted at several times during the course of the monitoring program. In general, the detected concentrations of these parameters have been lower than health-based criteria or the concentrations have not been confirmed during subsequent sampling For instance, in December 1993 dissolved cadmium was events. detected in a groundwater sample from MW-8 at a concentration slightly higher than the health-based drinking water criterion developed by the MDNR. However, no dissolved cadmium was detected in a duplicate groundwater sample collected from MW-8 during the same sampling event. Similar sporadic occurrences of dissolved nickel, dissolved hexavalent chromium, and total cyanide have been noted, although none of other three parameters has been detected at concentrations greater than health-based criteria.

5.4.3 Water Samples from Bedrock

No dissolved metals were observed in the underlying bedrock aquifer at levels above the facility's sanitary sewer permit. Three phenolic compounds were observed in the water samples obtained from the bedrock under Area C. One phthalate compound was observed in the water sample from the bedrock under Area A. No organic compounds were observed in the water samples taken from the bedrock under Areas D or D-West.

TABLE 5
Groundwater Sampling Results
Phase II Engineering Field Investigation

AREA	AQUIFE	CONSTITUENT -	CONCENTRATION	TYPE B GROUNDWATER CRITERIA		
			FOUND	Health-Based	Aesthetic	
A	Bedrock	bis(2-Ethylhexyl)phthalate	23	2	ID	
E	Perchec	Hethylene chloride Chloroethane 1,1-Dichloroethane trans-1,2-Dichloroethane Benzene Ethylbenzene Toluene Xylenes Acenaphthene Anthracene Fluorene Fluoranthene Phenanthrene Phenanthracene Benzo(a)anthracene Naphthalene bis(2-Ethylhexyl)phthalate Di-n-octyl phthalate Methyl isobutyl ketone Phenol 2-methyl phenol	17 120 4 4,100 6,400 2,300 7 4 30 13 4 880 15 4 11,000 5 4 5,600 150 12 140 460 590 330 130 56 4 57 15 4 590 16 4 130 49,000 230 4 380 240 40 4 490	5 9 700 0.4 1 700 1,000 10,000 400 2,000 300 300 1b 200 0.006 30 2 100 400 400 400 400 400 400 400	ID ID ID ID ID 300 ID ID	
D	Bedrock Bedrock	Phenol 2-methyl phenol 4-methyl phenol	85 100 40	4,000 400 400	ID ID ID	
		None Detected		·		
D-West	Perched	Methylene chloride*	19	5	. ID	
D-North	Perched	Methylene chloride*	18	5	ID.	
NOTES: [1] All concentrations reported in micrograms per liter (μg/L - parts per billion). [2] ID - Insufficient datano criterion established. [3] * - Suspected laboratory contaminant.						

Surface water from several of the disposal areas was also tested for chemical constituents. The only organic compound detected was methyl ethyl ketone in a single sample collected from the Polishing Lagoon at 0.13 ppm. Inorganic levels were below the levels specified in the plant's sewer discharge permit.

Table 2: Synopsis of Criteria Exc	ceeda	ances	at GV	V Wel	ls (uç	3/L)																			
	ANTIMONY	ARSENIC	CADMIUM	COPPER	LEAD	MERCURY	NICKEL	SELENIUM	VANADIUM	AROCLOR 1248	VINYL CHLORIDE	CIS-1,2-DICHLOROETHENE	1,1-DICHLOROETHENE	CHLOROETHANE	METHYLENE CHLORIDE	1,1-DICHLOROETHANE	1,2-DICHLOROETHANE	1,1,1-TRICHLOROETHANE	TRICHLOROETHENE	1,1,2-TRICHLOROETHANE	TOLUENE	ETHYLBENZENE	TOTAL XYLENES	CHLOROFORM	1,1,2,2-TETRACHLOROETHANE
GW2 - Jan/Feb	13			33																					
GW-2dup GW2 - May	6.2 8.3			34			_	-			_								-						
GW2 - Nay GW2 - August/Sept.	0.3	-	-	-			-	-	-	_	-	-		-	_		_		\dashv		-	-		\dashv	
GW2 - Dec																			\neg	-		-			
GW5 - Jan/Feb	9.3							5.4																	
GW5 - May	7.7						_	_			_														
GW-5dup GW5 - August/Sept.	8.3	_			\rightarrow	_	\dashv	_	14	_	_	-			_		_		\dashv	_	_				
GW5 - Dec	-	-		-	\dashv		\neg		14	_		\neg		-	-		-		-	_	<u> </u>	_	_		_
GW7 - Jan/Feb	6.1		100					27																	
GW7 - May	10																								
GW7 - August/Sept.									12										\Box						
GW7 - Dec GW8 - Jan/Feb	42	-	4		-			5.9			_						_		\dashv	_	-				
GW8 - May	NA	NA	NA	NA	NA	NA	NA		NA	-	-	-	-						-	_		-	_	-	
GW8 - August/Sept.	NA	NA	NA	NA		NA		NA											=	_		-			
GW8 - Dec																									
GW9 - Jan/Feb	17							6.7																	
GW9 - May																1 12									
GW9 - August/Sept. GW9 - Dec	-	-			-		-	-	_	-		_			_						-				
GW10 - Jan/Feb	9.7	\vdash			\vdash	_	-	12	_			_		-		_	-		-						_
GW10 - May	12	\vdash			\vdash			1.6	-	-	_	-			\vdash	-	-					_			
GW-10dup		\vdash			\Box			8.2								- 3			П						$\overline{}$
GW10 - August/Sept.																									
GW10 - Dec															Trans.										
GW11R - Jan/Feb	0.4	130		130	42			12	32		47	_			_				Ш						
GW11R - May GW11R - August/Sept.	24	180			\vdash		_	14	-	-	14		-				-		_		-	\vdash			-
GW-11Rdup		310			\vdash						17		-	-					-			_			
GW11R - Dec	-	63									11								П						
GW12 - Jan/Feb	13							9,4			59														
GW12 - May								9,2			22						_			_					
GW12 - August/Sept. GW12 - Dec		├-			-			_	\vdash		66						_				-		_		
GW-12dup	_	-	_		\vdash			_			72			_			-			_	-		_		
GW13 - Jan/Feb	7.1							10													 		_		<u> </u>
GW-13dup	20							10																	
GW13 - May								6.3																	
GW13 - August/Sept.							_	_																	
GW13 - Dec GW14 - Jan/Feb	16	-					_	6.9		_	_	_			-				H	_	-	-		_	
GW14 - Jan/Feb GW14 - May	10	-	<u> </u>		\vdash			0.0	-						-		-	-		_	+				
GW14 - August/Sept.														-		-				_	-	_			_
GW14 - Dec													-1100-1109										1		
GW-14dup																									
GW15 - Jan/Feb	10						440	11			170*	130	5600**	1800		18,000	91	140,000	41	93	320	280	1300		
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Orange - Exceeds both DW and GSI criteria								_																	

NA - not available

[&]quot;Vinyl Chloride also exceeds Residential Criteria for Groundwater Volatilization to Indoor Air (110 ug/l)

**1,1-Dichloroethylene also exceeds Commercial/Industrial Criteria for Groundwater Volatilization to Indoor Air (1300 ug/l)

1 5, 윤 Š CHTOKOMETIMAĘ 2 S hg/L 身 DICHTORODIETOOROMETITANE 0.005 ng/L 2 HEXAVEENT CITEOMIUM hg/L £ ð ΤΟΤΑΣ CΥΑΝΙΏΕ 47 ng/L 1,700 375 'n SULFATE 1/8/1 22 2 ð MICKEL (6020) 18/1 9.0 윤 ş TEVD Dissolved.Motals 18 욧 33 身 соьъек 5.0 CITROMIUM 7 00 ⊷€ CADMIUM 0.5 75 ន µS/cm @ 25" C >1990 >1990 SPECIFIC CONDUCTANCE ᇙ 7.1 7 11d Detection Units P66-000322-)LW-01W P65-00031-)LW-01W P66-00043-)LW-04W P66-000411-)LW-01W CINITORING PHASE 3/21/00 through 3/28/00 3/22/00 through 4/11/00

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1,2,1-TRUCH LOROETHANE

15-DICHTOROELLIVAE

2,4-DICIILOROFROFANE

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вкомост гокоментуме

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2-BUTANONE

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1'1-DICLITOROETHENE

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NR = not reported, ND = not defected 1P = in progress, U = hold time exceeded

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GROUNDWATER MONITORING

S 웊 2 BENZO(GIII)LEKATENE ð ã 오 | 오 ₽ 9 윷 2 å 운 2 2 5.0 ž <10 ð 身 2 2 욷 9 ₽ 2 2 2 g 2 9 £ 2 DIBENZO(A.11) ANTI IRACENE rg/L g 5.0 000 2 9 g 2 £ g S g ð 2 2 묫 ģ ІИДЕЙО(1,2,3-СД)РҮТЕЙЕ 9 9 M 5,0 ÷ 9 ģ 2 욷 쉳 9 2 욧 2 2 2 ă 叧 2 BENZO(V)LXISENĖ 50 78/ ş £ ð 9 문 쥧 윤 县 욧 9 S 2 8 g 2 욧 BENZO(K) LE DORANTIENE S S 5.0 0 1 2 7 2 9 9 2 욷 £ 욧 욧 2 2 2 身 욧 ð μg/L 5.0 25 £ рі-и-оступліным та ð g 9 £ ð ã g 9 9 문 ě g £ llg/L 5.0 ş ã 2 욧 2 웃 g 2 2 ð 2 2 2 웃 身 2 ĝ 2 18/1 5.0 ₽ V 9 £ 9 £ 9 4 Ð ð 9 S g 2 g 9 l/A £ 3'3, DICHTOROBENSIDINE 30 9 충 2 2 5 2 2 Ş 2 g 2 Ş ð 2 £ 78/L 5.0 ð 2 2 9 S £ 2 문 9 2 ġ g £ 2 ð CITEASEME μg/L Semi-Volatiles (8270) 5.0 g 유 2 9 Ş 2 ND ND 2 S 2 9 £ 9 g 2 BENZO(V)VILLIBY CENE 呈 Lub Parameters Hg/L 2.0 쉳 2 £ 9 £ £ 뒫 ð £ 물 2 9 2 BIS(Z-EILYHEXYL)ADRATE Ŗ 문 πg/L 5.0 2 ç 2 2 £ £ 2 ð 2 9 9 £ ð BUTYLBEAZYLMINALATE 2 身 ę J/AH £ 20 5 9 ΩN PYRENE 욧 윶 윷 2 g 문 8 £ 윷 æ £ Ð 1.84 5.0 ş £ £ ð 8 ₽ ð õ 2 9 身 욧 9 2 Ş 2 787 2 ę 5.0 ě <u>۲</u> 욧 ð 욧 ð 윷 g 뎦 ġ 물 ě FLUORANTIENE 욧 2 1/81 유 2 QN g 5.0 £ 9 2 9 £ £ DI-N-BUTYLYIMIALATE 윷 23 윷 2 9 £ J/Si 으 ğ 2 ġ 2 Ş å 2 욧 9 문 운 g 윷 身 ð g CARBAZOLE μg/L 5.0 ₩. 문 g g Ş ę g 9 £ £ 9 S 皇 g 9 ₽ VALUEVCEME 1,61 5.0 운 g 문 £ £ £ 문 £ 욧 ð 2 Q. MENANTIRENE 2 8 ₽ Ð 18/1 g 5.0 9 000 Ð ĝ £ ę g 2 9 2 ġ. IEXVCI I OKOBĖNSEME 2 9 9 9 g 7/1 ٥ ۲ 8 5.0 윤 쥦. 욧. S 욧. 웃 2 á 2 夕 문 £ 욧 187 2 5.0 윷 ÷ 문 문 £ ă £ £ Ş £ £ и-ишкозоры тералумие 웃 呈 2 웊 ND ND μg/L 5.0 ÷ 皇 g 욧 2 ð 욧 -<u>£</u> 웊 S 욧 Ð 2 g S 12-DH JENATHADBYZINE H//H 8 ş g Š g ð ð 2 2 9 읒 문 £. 2 4-MILISOVÁITINE g Unite F66-000331-JLW-01W F66-000403-JLW-04W F66-000411-JLW-01W F66-010122-MPW-02W F66-010124-MPW-09W F66-010129-KSS-01W F66-122701-JRR-01W F66-122601-JRR-03W F66-122701-JRR-02W F66-000811-JLW-05W F66-000823-MPW-01W F66-000811-JLW-06W F66-000814-JLW-01W F66-010117-MPW-04W P66-053001-DAB-05W F66-053001-DAB-06W Sample Container No. F66-090501-KN-06W F66-091001-KN-01W aple Round Nuniber . 3; Graundwater Elevation = 567.62 ple Round Number - 4 Groundwater Elevation - 572,93 Groundwater Elevation - 559 53 * 5; Groundwater Elevatio Groundwater Elevat Groundwater Elen Date(s) Collected 3/12/02 17/1/101 10/05/5 10/27/01 10/05/5 NR = not reported, ND = not UJ = nold time exceeded ple Round Numbe mple Round Nu

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VISTEC AROE PLANT
POST-CLOSURE GROUNDWATER MONITORING
DETECTION MONITORING PHASE

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VISTEO ROE PLANT. POST-CLOS URE GROUNDWATER MONITORING DETECTION MONITORING PHASE

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POST-CI 'RE GROUNDWATER MONITORING BASELI. JNITORING PHASE

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*B.GROUNDWATER MONITORING ANTORING ANTORING PHASE

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			DIBENZO(A,H)ANTHRACENE	Hg/L	5.0	Š	8	
			ирено(1,2,3-ср) рудене	Hg/L	5.0	Ş	£	
			BENZO(V)ŁAKENE	±8∕L	5.0	£	£	
			BENZOK)EĽNOBVNIHENE	μg/L	S	문	2	
			BENZO(B) LLUORANTHENE	Hg/L	5.0	·δ	S	
			DI-N-OCTYLPHTHALATE	1/94	5.0	ΩN	£	
			DICACTOHEXAT SHIHVIVIE	Hg/L	0.2	5	용	
			BIS(2-ETHYLHEXYL)PHTHALATE	µ8/L	0.0	S	7.3	
			3'3DICHTOKOBENZIDINE	T/84	8	S	2	
-			CHKAZEME	7/8H	5.0	S	g g	
ŀ	22	270)	BENZO(A)ANTHRACENE	ng/L	5.0	9	S S	
	Lab Parameters	Somi-Volatiles (8270)	BIS(2-ETHYLHEXYL)ADPATE	T/SH	5.0	£	S	
Ì	ab Par	u-Vola	BUTYLBENZYLPHTHALATE	1/81	5.0	₽	2	7
۱	-	Sem	LAKENE	Hg/L	0.2	2	Ð	1.
			BENZIDINE	Hg/L	6.2	£	Q	
ŀ			FLUORANTHENE	191	0.2	£	Ð	1
1	•		DI-M-BULYLPHTHALATE	ne/L	5.0	2	Q.]
ļ			CARBAZOLE	T/Ant	5.	문	5	7
l			УИ ТНЖАСЕИЕ	H.B/L	5.0	2	₽	
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			HEXYCHTOKOBENSENE	T/8tt	5.0	£	QN QN]
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	Ì		1.2-DIPHENYLHYDRAZINE	µg/L.	5.0	S	g.	
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		•		Units	Detection Limit			747
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V27-021237-JRR-11W V27-021230-JRR-01W

V27-030611-JRR-01W V27-031208-LK-02W mple Round Number - 11; Groundwater Elevation = 578.08 tmple Round Number - 12; Groundwater, Erevation - \$79.29. 12/8/03

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imple Round Number #131 Groundivater Elevation # 578.44

V27-040607-JRR-02W

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j	Volatiles (8260)	LI,1,2-T-TETRACHLOROETHANE	,	7/8# 1/8# 1/8# -	1.0- 1.0 1.0	dy dy	-1		ON ON ON	and and
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	-		= 577.29	Sample Container No.	V27-021227-JRR-11W	V27-021230-JRR-01W	n = 579.14	V27-030611-JRR-01W	n = 578.08	V27-031208-LK-02W
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Lab Parameters

V27-040607-JRR-02W imple Round Number # 13; Groundwater Elevation = 578.44

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	ı	3-NITROAULINE	_	T µg/L	2		5		QN C		2		QN C		2
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	Semi-Volatiles (8270)	IEXYCHTOKOCACTOBENTADIENE	_1	T HE/L	0 2.0	. 5			Q N	.	2	∔	<u>8</u>	- 1	2
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Lab Parameters		HEXYCHTOKOBOLYDIENE		L µg/L	5.0	2	1	-	Q .	ļ-	g C	-	2		2
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			13	Sample Container No	V27-021227-/FR-11W	V27-021230-JRR-01W	9.14	-0306	8.08	V27-031208-LK-02W	5	V27-040607-JRR-02W	4	-050	
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			Units	Delection	:	
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		I'S-DIBHENALEAMINE	1/8t 7/8t	+-	5.0 5.0	e e
		Ф-ВИОМОБНЕЛАТЬНЕЛАГЕТНЕВ	/L µg/L	+	2.0	, <u>2</u>
		НЕХУСИГОВОВЕИХЕИЕ	7/81		5.0	£
		ънеимилиеме	1,7,61		2.0	9
i.		УИЛНИЧСЕИЕ	7/20	+	2,0	2
		DEWERAZOLE	HB/L HR		10	2
		DI-N-BUTYLPHTHALATE	ue/L ue/i	<u>-</u> 1	5.0 5.0	2
		BENZIDINE	/L us/L	_	5.0	+-
ĺ	S	ЪХИЕИЕ	8	È.	5.0	5
Lab	Semi-Volatiles (8270)	BOLALBENZYLPHTHALATE	1/41	_	5	5
Lab Parameters	ı) səffic	BIS(3-ETHYLHEXYL)ADIPATE	1/011	2	5.0	Ş
r.	8270)	BENZO(V)VNLHKVCENE		1.61	2.0	. 2
		CHEASEME	1/0 (7.61	5.0	1
		3'3'-DICHLOROBENZIDINE			20	1
		BIS(5-ÉLHATHEXAT)6HLHYTVLE	_	1/24	5.0	
		DICACTOHEXAL PHITIALATE	5	HEAT HE	5.0	
		DI-M-OCLIATEMLHETE	-	high high	5.0 5.0	-
		BENZOGOLFOORVALIHENE	-	7/8d 17/	5.0	-
		BENZO(V)PYRENE		T/Bri T	. 5	_
		INDENO(1'13-CD) LAKENE		- µVL	Ş	-1-
		DIBENZO(A.H)ANTHRACENE	~ †	1/8ri	۲	?
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Sample Round Number - 11; Groundwater Elevation - 578.08	Elevation = 578.08	BOOK BEEN A RECOVER OF THE STATE OF THE STAT			-			r	}	3		3	2	2	2	Q.	Z Z	2	Q	9	z g	A I
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_ -	+	- -	DICHTOROBET: DOROMETHAME.	18/F	9	· g	+	-
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and and	1000	Comprehensive transfer of the grand water Elevation #577.74	OR #577.74																٠														l			

2 6/6/02| F66-020606-JRR-06W NR = not reported ND = not detected IP = in progress.

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POST CL GROUNDWATER MONITORING WITORING PHASE

	VALHIKACENE
	PHENANTHRENE
	EXVCHTOROBENZENE
	омоьнеил <u>тънеилге</u> шне <i>в</i>
	шиозорьнеилгуміие
1	3-DIBHENATHADBYZINE
İ	4-ИЛТКОАЙІЛИЕ
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	BENZOK) FOODVILLENE	HET. HET.	5.0 5.0	2	9	_
1	BEANNO(B) LTOOF VALUE OF DI-M-OCLAI SHILHFY VALE	18/L #8	5.0	2	S S	-
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	3'3, DICHTOKOBENSIDINE	rg/r	92	£	皇	_
	CHRASEME	18/L	5.0	身	2	
8	BENZO(Y)VALHBYCENE	ne/L	5.0	Ş	9	
Seni-Volsilles (2770	BIS(3-EIHATHEXAF)VD(BVIE	Hg/L	5.0	2	9	_
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	BENZIDINE	/L µv/L	5.0	2	2	-
	DI-W-BUTYLPHTHENE	T/8H	5.0 5.0	2	- S	1
	CARBAZOLE	J/Srl	9	2	2 2	1
	VATHRACENE	17/11	0.0	2	2	1
	РИЕИЛИВЕИЕ	7	0.5	2	2	1
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1	и-инвозорфнеилгрміле	7/8t	5.0	2	£	
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MONITORING N'MONITORING PHASE

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inple Round Number . 9; Groundwater Elevation . NA	Unite	<u>s</u>	hS/cm	# 7/8rt	HE/L HE	S/L HE/L	L µg/L	T/Stu	ng/L	T/Au	цуT	1,3	18/1	1/20	17/211	116/1	1/01	l'au l'au	1				+			1	1		1	1	†	\dagger	
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V27-040607-JRR-03W

ample Round Number - 12; Groundwater Elevation = 578,91

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WISTEC ROE PLANT POST-CLOSURE GROUNDWATER MONITORING DETECTION MONITORING PHASE

		Visteon	ample Round Number - 9, Groundwater Elevation - NA	Sample Set Date(s) Collected	No.	70,0677	lupie Round Number - 10; Groundwaler Elevation - 578.86	1 6/11/03	Imple Round Number = 11; Groundwater Elevation = 578.31	1 12/8/03	mple Round Number # 11; Groundwater Etevation # 578,91	W 1001/19	imple Round Number - 13; Groundwajer Lievation - 578.59	12/28/04	
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		-СНГОВОЕТНОХУ)МЕТНУИЕ
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		LLYGGODI-N-EYOPYLAMINE
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ı		2(5-CHTOKOETHAT)ETHEK
ı		AMLINE
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		NITROSODIMETHYLAMINE
		'7'+-TRICHLOROBENZENE
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	3 (826	HEXYCHI OKOBOL VDIENE
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HEXACHLOROETHANE	ng/L ns		20	2	-1	4		9	_	
	HB/L HS		5.0	Z 2	┨	6		5	-	
BIS(S-CHTOKOISOBKOBAT)ELHER	Mg/L Hg	+	_	-	-	-		-		
BIS(5-CHTOKOELHAL)ELHEK	1	+	2.0	2	-	5	-1	2	-1	
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1,2,4-TRICHLOROBENZENE	188		9 9	身	-	ž		ĮŽ.		
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1,2-DIBROMO-3-CHLOROPROPAN	H&L	\perp	2	£		ş		2	1	
M-BOLALBENZENE	HEVL HEVL		7	8		£		£		
1'7-DICHTOROBENSENE	Maria Tright	ĺ,	3	g		g		£		
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		Suntaine Container No		V27-021230-JRR-02W		V27-030611-JRR-02%		V27-031208-LK-03W		
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	ž	in in it		27-02	578.	27-03	8,78	/27-03	18	I
	1001				18 lion		7ation		ACOR.	ı
	(E)				r Ele		r Ele		r Elen	
	Sample Round Number - 9; Groundwater Elevation - NA	bo			Sample Round Number - 10; Groundwater Eleration = 578.86		Sample Round Number = 11; Groundwater Elevation = 578.12.		Sainple Round Number # 12; Groundwater Elevation = \$78.91	١
E C	Logn	Dute(s) Collected		12/30/02	Grou	6/11/03	Grou	12/8/03	Croil	
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ample Round Unibite = 13; Groundwater Elevation = 578.59	1 V27-041228-JRR-04W R = not reported, NU = injection; [P = in numeree

AISTEC ROE PLANT
OST-CLUSURE GROUNDWATER MONITORING
DETECTION MONITORING PHASE

		Steon	Round Number + 9; Groundwater Elevation - NA	Date(s) Collected Sample Courainer No. Detection	12/50/02 W. V27-021230-JRR-02W	iber = 10; Groundwater Elevation = 578.86	\$11.03 \$4
İ		+-йПколицие	µg/L	20	2	ŀ	5
		1,2-БРИБИУГНҮБРАХІИЕ	Hg/L	5.0	身		g
		N-MITROSODIPHENYLAMINE	#g/L	5,0	ġ		£
		+ вкомовнелагънелагелнек	Hg/L	0.0	2	1	Q.
		HEXYCHTOKOBENSENE	μ8/L μ	5.0	9	١.	2
	٠.	PHENANTHRENE	HEVT H	5.0	2	1	- Q
		CARBAZOLE	HB/L HB/	5.0	2	-	ç
				01	Q Q	$\left \cdot \right $	C
		DI-M-BUTYLPHTENE	He'l He'l	5.0 5.0	S S	ŀ	ez.
		BENZIDINE	7,84	0.5.0	見	-	2
	s.	PYRENE	T HEAL	5.0	2		Š
Lab	Seni-Yolatiles (\$270)	BULAITBENSAITHUHYTYLE	L HB/L	5.0	12	1	, L
Lab Parameters) Septe	BIS(1-ETHYLHEXYL)ADIPATE	1/4	5.0	2	-1	1
Si Si	82	BENZO(V)VN1HBYCENE	HR/L	5.0	2		-
		CHEASENE	1,82	5.0	. 2		1
		3°3, DICHTOROBENZIDINE	18	20	Ę		1
		BIS(2-ETHYLHEXYL)PHITALATE	1.1		Ę		
		DICACTOHEXAL PHIHALATE	#WL H		1		
		DI-M-OCLATHUMYTVIE	Hg/L 42		┰	-1	
		BENZO(K): FROM WITHERE	AS/L us/L		5		-
		BENZO(A)PYRENE	ר יישר		-1-	-1	-
		INDENO(1.2.3-CD)PYRENE	12				
		DIBENZO(VH)VNIHKYCEKE	1/211	5 3	-	2	
ŀ	1	BENZO(CHI)PERYLENE	L/an	5	1	Ş	

uple Round Number - 13; Croundwater Lievatton = 578.59

REGROUNDWATER MONITORING -MONITORING PHASE

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	Γ	Ī	г)-ріснговорвореме	7/81	1.0		2
			1,1,1-TRICHLOROETHANE	μ8/L	2		g
			1,2-DICHLOROETHANE	μ8/L	0.1		2
		Ì	Z,Z-DICHLOROPROPANE	1/84	0.1		9
			СНГОВОЕОВМ	H8/L	2		윤 :
			ВКОМОСНГОКОМЕТНАИЕ	J/8H	9.		원 :
			CIS-1'5-DICHTOROETHENE	µg/L	9:		9 9
			2-BUTANONE	H8/L	5.0		9 9
:			1,1-Dichloroethane	μg/L	3		2 2
			МТВЕ	Hg/L	5.0	}-	9 9
			тванз-1,2-рісньовоетнене	HB/F	6.1	1	2 2
		(8260)	CARBON DISULFIDE	Hg/L	. S		2 9
		Volatiles (8260)	VINYL ACETATE	µg/L	9	-	2 2
		15	мелнугеле снгоморе	HB/L	5.0		2 2
			юрометнаме	7/81 7	9.1	\pm	2 8
	nelers		ACRYLOUTTRILE	L µg/L	1.0	+	2 2
	Lab Parameters		1,1-рісні окоєтнеме	L µg/L	0.1	1	
		1	VCELONE	L µg/L	8	į	
			TRICHLOROFLUÖROMETHANE	7/8n 7	2.	1	
			VCKOLEIN	T µg/L	5.0	Ž	
			СНГОВОЕТНАМЕ	T/8# T	0.1	5	
			ВКОМОМЕТНАИЕ	T HB/L	0.1	2	
			AINAFCHFORDE	7/8н 7/8н	1.0 1.0	Ę	
			CHLOROMETHANE	ng/L µB	1.0	2	
İ		76A	DICHI'ORODILI'NOROMEMINA	<u> </u>	0.005 1.	1 P	
		9010B 7196A	HEXAVEENT CHROMIUM	µg/L mg/L	5 0.0	2	+
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İ	-	375,4	SULFATE	L mg/L	5.0	1,300	1,300
l		(020)	<u>AI</u> CKET	7/8# 7.	ม	2	2
1		Dissolved Metals (6020)	reyd	FI BE	3.0	2	2
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		Field Parameters	SPECIFIC CONDUCTANCE	µS/cm @ 25° С		>1990	. >1990.
		Field	Hq	ß		5	1.7
				Units	Detection Limit		
			eou.	576.49	Sample Container No.	F66-000322-JLW-05W	F66-000322-JLW-06W F66-000323-JLW-01W
7-7			VIST	Groundwater Elevation = 576.49	ct Date(s) Collected	3/22/00	3/22 through 3/23/00
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NR = not reported, ND = not defected, IP = in progress, UJ = hold time exceeded

TRE GROUNDWATER MONITORING

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F66-020606-JRR-14W

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NR = not reported, ND = not detected, IP = in progress, UI = hold time exceeded

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			Units	Detection Limit			577.86			-577.79			579.05			577.15			578,91			578.56			579.87			
		.	6.49	Sample Container No.	F66-000322-JLW-05W	F66-000322-1LW-06W F66-000323-1LW-01W	Sample Round Number = 2; Groundwater Elevation = 577.86	F66-000808-1LW-05W	F66-000808-JLW-06W	Sample Round Number = 3; Oroundwater Elevation = 577,79	F66-010115-MPW-01W	F66-010115-MPW-02W	Sample Round Number = 4, Groundwater Elevation = 579,05	F66-052901-DAB-01W	F66-052901-DAB-02W	Sample Round Number # 51 Oroundwater Elevation # 577,15.	F66-091101-KN-05W F66-091001-KN-08W	F66-091/101-KN-06W F66-091/001-KN-09W	Sample Round Number = 6, Groundwater Elevation = 578,91	F66-121901-JRR-09W	F66-121901-JRR-10W	Sample Round Number # 7, Groundwater Elevation = 578.56	F66-020226-JRR-09W	F66-020226-JRR-10W	ample Round Number = 8; Groundwater Elegation = 579.87	6/6/02 F66-020606-JRR-13W	F66-020606-JRR-14W	$NR = 100$ reported, ND^{∞} not detected, $IP \approx 10$ progress, $UI \approx 100$ d time exceeded
4		VISTEON Sample Round Munitor = 1	er Elevation = 57	Dale(s) Collected	3/22/00	through 3/23/00	ind Number = 2;	8/8/00	8/8/00	nd Number = 3;	10/51/1	1/13/01	nd Number = 43	1 10/6Z/\$	\$729/0]	nd Number + 5;	10/01/6	9/11/01	nd Number = 6;	12/19/0	12/19/01	nd Number # 75	7,76,02	2/26/02	nd Number = 8;	6/6/02	6/6/02	NR = not reported, ND = not di UI = hold time exceeded
۲ ک 4		Sample Rou	Groundwaie	Simple Set No.	-	7	Sample Rou	,,,,,,,	7	Sample Rou		2	Şample Rou	₹ 1	2	Sample Ron		2	Sample Rou	1	7	Sample Rou	1	7	Sample Rou	-	2	NR = not rep UJ = hold lin

VISTEC ROE PLANT POST-CLOSURE GROUNDWATER MONITORING DETECTION MONITORING PHASE

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Sumple Round Number 13, Croundwater Elevation 55721		NR 31	0101	ON OX	$\frac{Q}{Z}$	9	2	1,300	92	QN	ON ON	2	9	9	<u> </u>	9	GK GK	2	9	92	Q	9	Q _N	Q Z	-{ }	-			웆	2	9	9
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VISTER (ROE PLANT) POST-CLUSURE GROUNDWATER MONITORING DETECTION MONITORING PHASE

Ţ ,			le Round Num	No.	-		le Kound Num	1.0	le Round Num		le Round Nun:	7	le Round Num	10 A	= not reparted, ND = r
		isteon	imple Round Number # 9; Groundingter Elevation = \$77.7	Date(s) Collected Sample Container No.		12/30/02: V27-021230-JRR-03W	mpie Round Number #10, Groundwater Elegation # 579.2	6/11/03 PMT. 3 4 VZ7-030611-JRR-03W	mple Round Mumber - 11; Groundwater Elevation - 578.78	1.12/9/03	uple Round Nunger = 133 Groundwater Blevation = 579,82	6/8/04 2011 - V27-040608-19 D. A.W.		1279/04/2017 VZ7-041229-JRR-03-W	tot detected, IP = in pro
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	ľ	LETRACHLOROETHENE	1/6/1		0,1	Q.		ŀ	욧		운		ND		g
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	PYRIDINE	1,8H	200	+	2	1
	и-ицвозоричетну, кмпие	HB/L	5.0	†	ģ	1
	1,2,4-твісньововеигеме	mg/L	5.0	- f-	g	1
6.	1,2,1-TAICHLOROBENZENE	μVL	5.0	Ī	ĝ	1
18 (826	НЕХУСИГОВОВЛУФЛЕИЕ	Hg/L	S		gʻ	
Volatiles (8260)	1,2-DIBROMO-3-CHLOROPROPANE	Hg/L	2		Q.	ĺ
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	1,7-DICHLOROBENZENE	Hg/L	3		N.	
		Colcs	Detection			
		vztion = 577,7.	Sample Container No.	. Y27-021227-JRR-07W	V27-021230-IRR-03W	The Party of the P
	Visteon	imple Round Number 9; Groundwater Elevation = 577,7,	Date(s) Collected .	12/27/02	12/30/02	Die Round Number w 16. Gronn dem en Wiener an
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			Section 10 Control of the Control of		
1 V27-040608-JRR-04W	Sample Round Number . 13; Groundwater Blevation - 579.21	1 12/29/04 5 12/29/04 1229-JRR-O3W	NR = not reported, ND = Not detected, IP = in progress,	U! = hold time exceeded	

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.V27-031209-LK-01W

ample Round Number # 12; Groundwater Elevation = 579.81

uple Round Number # 11; Graundwater Bievation # 578,78

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l se	LAKENE	12	5.0	Ę		Ş		Ş	1	Ę		Ş	
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MONITORING	
J "GROUNDWATER!	FORING PHASE
POST-CL	HASELIN

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			Vsteon	Groundweier Elevitin = 572,49	Sample Containor No.	00 Fd6-000323-JLW-02W			Sample Round Number # 21, Groundwater Elevation = 564.95		8/10/00 Israyin F66-000811-12-W-01-W- 9/15/00 P66-000819-M-W-01-W- P66-000819-M-W-01-W-	Sumple Raund Number - 3r Orunidwater Elevetion - 561.42	W10-W4W-911016-994
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RE GROUNDWATER MONITORING

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	Field Parameters	SPECIFIC COMBUCTANCE	µS/cm·@ 25° C		0663<	>1990		Ä	ă		>1990	>1990		
	Field P	Hq	83		7.6	7.8		N.	ž		6.9	6.9		
_			Units	Detection			NR			573.57			574.98	Salar Salar
		Visteon************************************	571.84	Sample Container No.	F66-00323-JLW-03W F66-000324-JLW-03W	F66-000324-ILW-04W	Sample Round Number = 2; Groundwater Elevation = NR	F66-000807-RRB-03'W	F66-000807-RRB-04W	Sample Round Number = 3; Groundwater Elevation = 573.57	F66-0101016-MPW-02W F66-010117-MPW-06W	F66-0101016-MPW-03W F66-010117-MPW-05W	Sample Round Number - 4; Groundwater Blevallon - 574.98	
9		VIST	Groundwater Elevation = 572.84	Dale(s) Collected	3/23 through 3/24/2000	3/24/00	and Number	877/00	977/00	nd Number =	1/16/01 1/11/01	1/16/01	ind Number -	
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-	7		Sample Round Number + 8; Groundwater Elevation - 575,51		1			ANK = not reported, ND = not detected, IP = in progress,	JJ = hold time exceeded
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POST.C 'E GROUNDWATER MONITORING . BASELI ... ACONITORING PHASE

	1'4-DICHTOKOBENZENE 1'3-DICHTOKOBENZENE 'ZEC-BOLATBENZENE	7/8п 7/8п 7/8п	1.0 1.0 1.0	QN QN		ON ON ON		2	ON ON ON	QN QN	2			Q.	QN QN QN	ND AD	S	-	GN GN GN	운		CZ CZ	2 2		CN CN	
	TERT-BUTYLBENZENE	Hg/L µg/L	0'1-	GZ GZ		CX QX	- 1		QN QN	- GX	QZ QZ	-1	- 1-		QN QN	ND ND			DN DN		4	CN CN			ON ON	4
	1,9,5-TRUMETHYLBENZENE	µg/L.	9:	9		QN I	1	2		Q Z	Q.		⊢		2	QN	+-		N ON			QN	-		Q	
	4-CHTOROLOFTENE	Hg/L µg/L	1.0	Q.		Q Q	- 1-		ND N	DN ON	ON ON	\dashv	- 1-		-1	GN. QN	<u> </u>		ON ON	1-		ON ON		1	QN QN	
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	САКВОИ ТЕТКАСИГОВІDE	rg/L	0.1	S	g		Q.	QN		g Z	g.		2	2		Q.	2		2	2		2	Ź.	·	S	S
		Under	Detection Limit			.NR			. 573.57			= 574:98			- 572.92			- 573.68			- 575.13			- 575,51		
	ic O	8	Sample Container No.	F66-000323-JLW-03W F66-000324-JLW-03W	F66-000324-JLW-04W	2; Groundwater Elevation - NR.	8/7/00 : F66-000807-RRB-03W	F66-000807-RRB-04W	Sample Round Number - 3; Groundwater Elevation - 573.57	F66-0101016-MPW-02W F66-010117-MPW-06W	F66-0101016-MPW-03W F66-010117-MPW-05W	Round Number - 4; Groundwater Elevation = 574.98	F66-052901-DAB-05W	F66-052901-DAB-06W	Sample Round Number = 51 Groundwater Elevation = 572,92	F66-09060 -KN-05W	F66-090601-KN-06W	= 6; Groundwater Elevation = 573.68	F66-121801-JRR-01W	P66-121901-JRR-01W	Sample Round Number - 7; Groundwater Elevation - 575.13	F66-020226-JRR-05W	F66-020226-JRR-06W	Sample Round Number - 8; Groundwater Elevation - 575,51	F66-020606-JRR-11W	2. 6/6/02 F66-020606-JRR-12W
nt pi (); epotyce : ntaryto	VISTE	Groundwater Blevation - 572.84		3/23 through 3/24/2000	3/24/00	Sanple Round Number - 2;	8/7/00	8/1/00	and Number - 3	1/12/01	1/16/01	ind Number = 4	10/67/5	10/67/5	and Number - 5	71	0/0/6	Sample Round Number - 6	12/18/01	12/19/01	und Number = 7	٠].	2/26/02	and Number - 8		6/6/02
) 1	Sample Rou	Groundwat	Sample Set	(2	Saniple Ro.	1	2	Sample Rot		. 2	Sample Ron	-	2	Sample Rot		7	Sample Ro	- (7	Sample Ro	_	7	Sample Ro	-	

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Pave 2 of 4

POST.C 'E GROUNDWATER MONITORING BASELI ... 120 ONITORING PHASE

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OST-C REGROUNDWATER MONITORING ASELII — MONITORING PHASE

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	ļ.		пиремо(1,2,3-ср)РУКЕМЕ	H8/L	5.	g.	5		9	2 5	2	£	. Q		2	ž Š	2	Ş	£		S	5		CZ	2 5	3	QZ	2 2	2
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			BIS(2-ETHYLHEXYL)PHTHALATE	μg/L	5.0	9.7	.8.9		5	2 2		-8	2].	S	Ş		2	g		9	2		ę	2		ã	Ñ	
			з'зріснгововеихіріне	μg/L	8	S.	Ą		S	£		2	2		£	Ş		9	g	1	S	9	7	£	£	1	S.	2	
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	h	270)	BENZO(A)ANTHRACENE	μØL	5.0	2	£	7	2	2		Q	2		g	£		£	2		g	2	1	g	2		g	S	1
	Lab Parameten	Semi-Volatiles (8270)	BIS(2-ETHYLHEXYL)ADPATE	7/8п	5,0	G.	£	}	£	g].	Ð	S		Š	£		2	9		9 S	£	1	£	2		Ð.	S	1
	Lab Pa	ni-Vola	BUTYLBENZYLPHTHALATE	Hg/L	5.0	ΩŽ	Q.		g	S		£	2		S	2		Š	.g		S	£		2	æ		ND	Q	
		Sen	LAKE /IE	Hg/L	5.0.	ND.	ΔN		2	S		ďΧ	ND		£	S		Q	2		Q.	문		2	2		ġ	ð	
		[BENZIDINE	μg/L	5.0	Ö	9].	ą	£		S	Ę		Ω	S		Ş	2		£	g		£	g]	£	2	
			FUORANTHENE	T/8H	5,0	QN	S		£	ΩX		S	S		Q	S.		QN.	Q		S	문		Ş	Ω.		2	Q	
			DI-N-BUTYLPHTHALATE	T/Sid	5.0	£	문	ŀ	g	ą		S S	S S		S	2		2	2	l	S	Ð	ľ	g	Ŋ	1	Q.	Ω	
-			CARBAZOLE	H&/L	.9	Ω	æ	1	9	ΩŽ		Đ	QN		Ω	S	-	g	S	1	2	£		Ž	£].	£	兒	
1			УИЛНИРСЕИЕ	H8/L	5.0	. g	2		£	£		2	8		ð	₽.		2	g]	S	g		2	£	Ĩ	£	g	1
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1	.		HEXVCHTOBOBENZEME	μg/L.	5.0	윤	2		2	£	ŀ	£	g		S	2		ð	ð		·Š	£		£	g		£	Ð	
			+ вкомоьнеилгынеилгетнек	7/8#	5.0	₽,	Ð	ŀ	S	£		δ.	S		ΩN	£		Ω	QN		S	Š.		g	2]	ž	8	
			N-NILKOZODIŁHENAT YMINE	J/84.	5.0	ΩN	ND		Ω	ġ		QX	Q.		ΩN	Ð		QN.	ND	ŀ	Q	Ω		Ð	g		ΩN	Ŋ.	
ļ	ĺ		г'5-рименагнаричхиле	µg/L	5.0	ΔN	ND	24.	S	문		. 2	g		ΩŅ	S		QN .	S		αŅ	Ð		QN	g		ND	£	
			4-NITROANILINE	1/8/1	29	Ö.	QN		Q.	£		Ŕ	£		ä	2		.QN	Q.		Ν	운		S	S		ξ	9	
				Units	Detection Limit			IR.			73,57			71.98			572.92			73.68			75.13			75.51			
	7.004 20.00 20.00 20.00		V/Steoning Production of the Control		Sample Containen No.	F66-000323-JLW-03W F66-000324-JLW-03W	F66-000324-JLW-04W	Sample Round Number - 2; Groundwater Elevation - NR	F66-000807-RRB-03W	F66-000807-RRB-04W	Sample Round Number . 3; Groundyater Elevation - 573,57	F66-0101016-MPW-02W F66-010117-MPW-06W	F66-0101016-MPW-03W F66-010117-MPW-05W	Sample Round Number - 4; Groundwater Elevation - 574,98	F66-052901-DAB-05W	F66-052901-DAB-06W	. 6	F66-090601-KN-05W	F66-090601-KN-06W	Sample Round Number 6. Groundwater Elevation - 573.68	F66-121801-JRR-01W	F66-121901-IRR-01W	Sample Round Number - 7; Groundwater Elevation = 575,13	F66-020226-JRR-05W;-	F66-020226-JRR-06W	Sample Round Number - 8; Groundwater Elevation - 575.51	F66-020606-JRR+11W	F66-020606-JRR-12W	NR = not reported, ND = not detected, IP = in progress,
			Steon	Groundwater Elevation - 572.84		wegg on ken	7. F66-00	er = 2; Ground	. F66-00	F66-000	er = 3; Ground	F65-010 F65-010	F66-010 F66-010	er = 4; Ground	F66-05.		er 5; Ground		F66-09	er = 6; Grounds	1 F66-12	i F66-12	r = 7; Grounda	F66-02	F66-02	r = 8; Ground	F66-02	F66-02	not detected,
7 /	2	- 410 - 50	Sample Round Number	ater Elevatio	Collected Collected	3/23 thrbugh 3/24/2000	3/24/00	ound Numb	8/7/00	00/1/8	dmud Numb	1/15/01	1/16/01	dina Nanta	5/29/01.	\$/29/01	ound Numbi	10/9/6	10/9/6	ound Numbe	12/18/01	12/19/01	ound Numbe	2/26/02	20/927	ound Numbe	6/6/02	6/6/02	reported, ND
אירם	٠ د د		Sample R	Groundw	Sample Set No.	-	7	Sample R		7	Sample R	-	7	Sample R	-	7	Sample R		7	Sample R	-4	7	Sample R	-	7	Sample R	1 .	2	NR = 1101.1

₹ O ₹	STE NROE PLANT	ST-CL SORE GROUNDWATER MONITORING	TECTION MONITORING PHASE
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		T	1,1-рісні окореме		L Mg/L	2		2		見]	£		ñ]	S S
	ļ		1,1,1-TRICHLOROETHANE	\downarrow	L MUL	1 5		2		2		2	1	2		QZ
		1	1,2-DICHLOROETHANE	_	L HS/L	100	+	2		Ž		Ω.		Ŋ		문
			3'3-DICHTOROPROPANE	_	1/8¾ 1	1 2	+	2 		2		2		Š		문
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			ВИОМОСНГОВОМЕТН∧ИЕ	\perp	L Mg/L	=	1	2		S		S		QN .		
			сіг-1'7-ріснговоєднемь	4	L HWL	2	1	2	ļ	g g		2		Q Z		문
			7-BUTANONE		7/2	25	5		I }	2		문		2		문
			1.1-DICHLOROETHANE		7A -	2	2		J-	S	ļ	2		QN	! -	
			SETM		7/Air	8	2		 -	2	-	S.		CZ.	l ∔	2
			TRANS-12-DICHLOROETHENE		7 Hg/L	2	5	\dashv	l ∤-	2	-	2		2	- ا	9
		Volatiles (8260)	СУИВОИ DIZOГИDE	-	7. Fa	8	2	1	⊢	2	⊦	2	1	9	` F	2
		olatile	AINAF VCELVIE		<u> </u>	8	ž	\dashv	- 1-	2	ŀ	2		2	- ⊩	2
			MELHATENE CHIORIDE		1/8/L	0.5.0	2	-1	-	2	ŀ	2	- 1	Q.	- 1	9
			IODOMETHANE	+.	T MB/L	1.0 - 1.0	2		-	2	- 1-	2	∤-	2	Į.	2
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	Par de		1,1-DICHLOROETHENE		787	8	2	-	- ⊢	2	- 1-	2	ŀ	2	- 1-	2
	-		VCELONE	1		91	ž	+	1	-1	· 1-	2	- 1-	2	⊢	2
			TRICHLOROFLUOROMETHANE			5.0	9	-	12		- 1-	2	⊢		- 1	2
			УСКОГЕ [И	Pol		1.0	ξ Ω	+	9	4	-	2	H		4	2
			BROMOMETHANE	1/6	,	91	2 9	1	2	-			-	2	7	⊣
:			AIAATCHTOSIDE	ue/L. u		0	g	-	9	-1	4	_	- H-	2	12	1
•			CHLOROMETHANE	nw/T/am			Q Q	$\frac{1}{2}$	9	1	C C	-1			5	- f
			DICHFORODILFOGOWETHANE	IIE/L	,	9	£	1	9	-1	42	-1	-	2	5	-∤
ı		7196A	HEXYAVEENT CHROMINM	mg/L		0,005	見	1	9	-	CZ.	-	9	-1	L N	-
		9010B	LOTAL CYANIDE	1/8		2	Q.	1	9	1	5		9	-1	Q.	
		375.4 9	SULFATE	ng/L		5.0	1,100	1	1,200		100	4	1 300		1,200	- ∤
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	ı	d Mola	COPPER	17,871	T	n	2	1	£		£		ź		£].
- 1		Dissolve	СНВОМЛИМ	μg/L	-	ို	75		2		2		2		£] -
			CADMIUM	Hg/L		0.5	g		₽		2		R		2]
		nctors	гьесплс соирпстуись	uS/cm			1358		1990	ľ	1462		1131		2395	
		Field Parameters	Hq	13			1.7		_		7,01		Z,		7.2	1.
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			,	Chits	Defection	Limit				·						i.
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			. :		Sample Container No	V27-021227-188-09W	V27-021230-JRR-04W		1 V27-030611-JRR-04W		12/11/03 12:11-LK-01W		- Y27-040608-1RR-02W		W.20	
					0	1227.1	1230	Ź,	0611-J	24 7	121		1-8090		V27-041229-02W	
				4.04	James	/27-02	77.02	75.47	/27-03	75.11	727 03	75.65	727-04	75,66	V27	
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		11.00	<u>.</u>	puno	Date(s) Collected	12/27/02	12/30/02	round	6/11/03	round	2/11/0	round		round	12/29/04	ਜ ਬੁੱ
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٧	>			N. pu	ž	1	1	ž		nd Nu		Z P		nd Nu		ne exc
J-W	÷. 1			Sample Round Number = 9; Groundwater Elevation = 574,04	Sample Sel	-		Sample Round Number = 10; Groundwater Elevation = 575.47	-	Sample Round Number Filt Groundwater Elevation = 575.11	-	Sample Round Number = 12; Groundwater Elevation = 575.65	-	Sample Round Number - 13; Groundwater Elevation - 575,66.	-	NK ** not reported, ND * not detected, IP ** in progress, UJ ** hold time exceeded
P	4		ه این از در این این این این به این ب	Samp						Samp		Samp		Samp		ž
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VISTEC NROE PLANT POST-CL COURSE GROUNDWATER MONITORING DETECTION MONITORING PHASE

			ТОЛЬЕМЕ Т. 1.2-ТИСНГОКОРКОРЕМЕ Т. 2-ТИСНГОКОРКОРЕМЕ Т. 2-ТИСНГОКОРКОРЕМЕ Т. 2-ТИСНГОКОРКОРЕМЕ Т. 2-ТИСНГОКОРКОРАМЕ Т. 2-ТИСНГОКОРКОРАМЕ Т. 2-ТИСНГОКОРКОРАМЕ Т. 2-ТИСНГОКОРКОРАМЕ Т. 2-ТИСНГОКОРКОРАМЕ Т. 2-ТИСНГОКОРКОРАМЕ Т. 2-ТИСНГОКОРКОРАМЕ Т. 2-ТИСНГОКОРКОРАМЕ Т. 2-ТИСНГОКОРКОРАМЕ Т. 2-ТИСНГОКОРКОРАМЕ Т. 3-ТИСНГОКОРКОРАМЕ Т. 3-ТИСНГОКОРКОРАМЕ Т. 3-ТИСНГОКОРКОРАМЕ Т. 3-ТИСНГОКОРКОРАМЕ Т. 3-ТИСНГОКОРКОРАМЕ Т. 3-ТИСНГОКОРКОРАМЕ Т. 3-ТИСНГОКОРКОРАМЕ Т. 3-ТИСНГОКОРКОРАМЕ Т. 3-ТИСНГОКОРГОКОРАМЕ Т. 3-ТИСНГОКОРГОКОРАМЕ Т. 3-ТИСНГОКОРГОКОРАМЕ Т. 3-ТИСНГОКОРКОРАМЕ Т. 3	Units 1891 1897 1891 1894 1894 1894 1897 1897 1897 1897		Linit 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	an an an an an an an an an an an an an a	
7-1		Voli	1,1-DICHLOROPRORE 1,1-DICHLOROPRORE 2-HEXANONE 2-HEXANONE	HS/L HB/L HS/L HS/L		1.0 50 1.0 1.0 1.0	מא מא מא מא מא מא	
	LAD Farmoters	Volatiles (8260)	7'1'3'3-JEIBYCHTOBOELHYNE 2LABENE BROWOEDBW, ELHATBENZENE CHTOBOBENZENE	polt ne/t ne/t ne/t ne/t ne/t	-81 -81 -81 -81	1.0 1.0 1.0 1.0 1.0 1.0	dy dy dy dy	
			TO 3-THIOMODIO THEME TO 3-THIOMODENZENE TO 3-THIOMODENZENE TO 3-THIOMODENZENE TO 3-CHIOMODENZENE DEMONOBENZENE TO 3-CHIOMODENZENE	Den The		3.0 1.0 1.0 1.0 1.0	Ş	!
			4-CHLONOTOLUENE 1,2,4-TRIMETHYLBENZENE 1,2,4-TRIMETHYLBENZENE 1,2,4-TRIMETHYLBENZENE		HELL HELL HELL HELL HELL HELL	01 01 01	9	2

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1 V27-030611-JRR-04W	Sample Round Number - 11; Groundwater Elevation - 575.11	1 4 7 12/11/03 8 5 7 7 7 7 7 7 12/11-LK-01W	Sample Round Number - 11; Groundynter Elevation - 575.65	V27-040608-JRR-02W	Sample Round Number - 13; Groundwater Elevation - 575,66	12/29/04 V27-041229-02W	NR = not reported, ND = not detected, IP = in progress, UJ = hold time exceeded

VISTEC ROE PLANT POST-CLOSURE GROUNDWATER MONITORING DETECTION MONITORING PHASE

	Visteon	Samole Round Number of Construction of the Con	Sample Set	No. Sample Container No.	12/27/02.	13	ample Round Number - 10; Groundwaler Elevation - 575.47
<u> </u>	7'S-DICHFOROBENSENE	Tinite	Tight High	Detection 1.0	Separate Sep	QN	
F	N-BOLATBENZENE	1		1.0	1	2	
	1,2-DIBROMO-3-CHLOROPROPAN		TENT HELL	1.0 5.0	1	ON ON	
	1,2,3-ТРІСНІ,ОВОВЕЙZЕЙЕ		1.83 T	5.0	Ţ	ģ	
1	1,2,4-TRICHLOROBENZENE	1	IØL	5.0		£	
-	и-итвосоргиетнуг смиче		1/8%	5.0	-1	2	1
-	. PYRIDINE .		ηg/L με	20 2	-	2	1
+	PIZO-CHI OBOETHAJ JETHEB VAITINE	-	7,84	20 5	-	2 9	+
-	ВІЗ(5-СНГОЙОІЗОБИОБАТ)ЕДНЕЙ ВІЗ(5-СНГОЙОЕДНАГ)ЕДНЕЙ	H	Hg/L Hg/L	5.0 5.0	_	S S	-
-	HEXYCHTOROGETHYNE	+	75 HB/L	2	_	Ω Ω	
-	N-MILEOSODI-N-EKOEAT VMINE	1	A MENT	3	-	S	-
1	MIJROBENZENE	1	T H8/L	5		2	
-	ISOPHORONE	1	L FEAL	\$		2	
	этэсс-снгоуоетножуметначе	1	T/S/I	٤	_	ð	
	1,2,4-TRICHLOROBENZENE		µg/L	3	3	QX	
	NAPHTHALENE	1	µg/L		3	Ð	
-	HEXACHLOROBUTADIENE	1	1/8#	1		2	1
Seni	1-CHTOBOVNITINE	†	18/1		₹	9	-1
Seni-Volatiles (8270)	2-МЕТНУГИАРИТНА ЕВИЕ	+	HB/E H		٠ ا	2	-1
s (827(EXACHLOROCYCLOPENTANE BISCA-CHLOROCYCLOPENTANE TO THE TOTAL THE TO	+	HE/L HE/L		5.0	6	-1
ล	3-CHTORONVEHLINVEHE		A. us/L		20 20	c Z	
٠	у-ипродицие	-	T #8/	_	2	2	-1
	Р СЕЙАРНТНУ ГЕ МЕ	_	T/Am		2.0	2	4
	DIMETHYLPHTATE		J/WL		2	Ę	1
1	1.3-DINTTROBENZENE		1,61		50	2	-
	2.6-DINITROTOLUENE		649	2	5.0	15	₹
	У СЕИ У ЪНТНЕИЕ		1/48		5.0	3	T.
	3-ИПВОРИПИЕ		1/011	2	8	1	D.
	DIBENZOŁNKYN		1/411	2	5.0] 9	Q
	3.4-DINITROTOLUENE		1/2		2.0	+-	2
	FLUORENE	_	_	700	5.0		Q.
	CHTOKOPHENYLPHENYLETHER	-	_	HWL HE	5.0 5	+	z 9
_	DIETHYLPHTAE		15	ΞT	5.0	Т	9

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VIETEC ROE PLANT POST-CLOSURE GROUNDWATER MONITORING DETECTION MONITORING PHASE

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mpie Round Number # 93 Croundwater Elevation # 574,04	Units	118/17	T/SH T/SH	L ugl	1,81	ng/L	1/8/I	Į Sin	7/8H	ng/L	1/8/1	I T/Sit	Hg/L	1/81	ng/L ng	ng/L ng/L	L 118/L	1/211	ne/L	n v.T.	1/211	L d ti	1/4	1/011	7
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mple Round Number = 10; Groundwater Elevation = 575.47			1							1	1	1	1	1	+	-	4	4	[Ц					

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5 6 2-сигокоетиту окоркореие 5 6 4-метиту-2-рептаноне 5 6 7 6 7 7 7 6 7 8 6 7 9 6 7 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 <td>2 д з-лиснтокоеличие 2 д демг-1-3-диснтоковковеме 3 д демг-1-3-диснтоковковеме 4 д демг-1-3-диснтоковковеме 2 д демг-1-3-диснтоковковеме 2 д демг-1-3-диснтоков деме 3 д демг-1-3-диснтоков деме 4 д демг-1-3-диснтоков демг-1-3-дис</td> <td>5 ф 1.1.2-Тицентокореме 5 ф 1.1.2-Тицентокореме 6 тклиз-1,3-риснтокореме 7 ф 1.1.2-Тицентокореме 8 ф 4-метичу-2-реитлиоме 9 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 11 ф 1.1.2-Тицентокореме 12 ф 1.1.2-Тицентокореме 13 ф 1.1.2-Тицентокореме 14 ф 1.1.2-Тицентокореме 15 ф 1.1.2-Тицентокореме 16 ф 1.1.2-Тицентокореме 17 ф 1.1.2-Тицентокореме 18 ф 1.1.2-Тицентокореме 19 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 10 1.1.2-Тицентокореме</td> <td> 2 2 1/3-DICHTOROBEOBURE 1/3 - DICHTOROBEOBURE 1/4 - DICHTOROBEOBURE</td> <td> 2 2 3-HEXANONE 2 2 3 3 3 3 3 3 3 3</td> <td> 2 2 2 2 2 2 2 2 2 2</td> <td> 2 2 2 2 2 2 2 2 2 2</td> <td> 2 2 1 1 1 1 1 1 1 1</td> <td></td> <td></td> <td>амантаологист</td> <td>µg/L</td> <td>1.0</td>	2 д з-лиснтокоеличие 2 д демг-1-3-диснтоковковеме 3 д демг-1-3-диснтоковковеме 4 д демг-1-3-диснтоковковеме 2 д демг-1-3-диснтоковковеме 2 д демг-1-3-диснтоков деме 3 д демг-1-3-диснтоков деме 4 д демг-1-3-диснтоков демг-1-3-дис	5 ф 1.1.2-Тицентокореме 5 ф 1.1.2-Тицентокореме 6 тклиз-1,3-риснтокореме 7 ф 1.1.2-Тицентокореме 8 ф 4-метичу-2-реитлиоме 9 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 11 ф 1.1.2-Тицентокореме 12 ф 1.1.2-Тицентокореме 13 ф 1.1.2-Тицентокореме 14 ф 1.1.2-Тицентокореме 15 ф 1.1.2-Тицентокореме 16 ф 1.1.2-Тицентокореме 17 ф 1.1.2-Тицентокореме 18 ф 1.1.2-Тицентокореме 19 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 10 1.1.2-Тицентокореме	2 2 1/3-DICHTOROBEOBURE 1/3 - DICHTOROBEOBURE 1/4 - DICHTOROBEOBURE	2 2 3-HEXANONE 2 2 3 3 3 3 3 3 3 3	2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2	2 2 1 1 1 1 1 1 1 1			амантаологист	µg/L	1.0
5 6 2-сигокоетиту окоркореие 5 6 4-метиту-2-рептаноне 5 6 7 6 7 7 7 6 7 8 6 7 9 6 7 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 10 <td>2 д з-лиснтокоеличие 2 д демг-1-3-диснтоковковеме 3 д демг-1-3-диснтоковковеме 4 д демг-1-3-диснтоковковеме 2 д демг-1-3-диснтоковковеме 2 д демг-1-3-диснтоков деме 3 д демг-1-3-диснтоков деме 4 д демг-1-3-диснтоков демг-1-3-дис</td> <td>5 ф 1.1.2-Тицентокореме 5 ф 1.1.2-Тицентокореме 6 тклиз-1,3-риснтокореме 7 ф 1.1.2-Тицентокореме 8 ф 4-метичу-2-реитлиоме 9 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 11 ф 1.1.2-Тицентокореме 12 ф 1.1.2-Тицентокореме 13 ф 1.1.2-Тицентокореме 14 ф 1.1.2-Тицентокореме 15 ф 1.1.2-Тицентокореме 16 ф 1.1.2-Тицентокореме 17 ф 1.1.2-Тицентокореме 18 ф 1.1.2-Тицентокореме 19 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 10 1.1.2-Тицентокореме</td> <td> 2 2 1/3-DICHTOROBEOBURE 1/3 - DICHTOROBEOBURE 1/4 - DICHTOROBEOBURE</td> <td> 2 2 3-HEXANONE 2 2 3 3 3 3 3 3 3 3</td> <td> 2 2 2 2 2 2 2 2 2 2</td> <td> 2 2 2 2 2 2 2 2 2 2</td> <td> 2 2 1 1 1 1 1 1 1 1</td> <td></td> <td></td> <td>вкоморіснгокометнале</td> <td>T/8H</td> <td></td>	2 д з-лиснтокоеличие 2 д демг-1-3-диснтоковковеме 3 д демг-1-3-диснтоковковеме 4 д демг-1-3-диснтоковковеме 2 д демг-1-3-диснтоковковеме 2 д демг-1-3-диснтоков деме 3 д демг-1-3-диснтоков деме 4 д демг-1-3-диснтоков демг-1-3-дис	5 ф 1.1.2-Тицентокореме 5 ф 1.1.2-Тицентокореме 6 тклиз-1,3-риснтокореме 7 ф 1.1.2-Тицентокореме 8 ф 4-метичу-2-реитлиоме 9 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 11 ф 1.1.2-Тицентокореме 12 ф 1.1.2-Тицентокореме 13 ф 1.1.2-Тицентокореме 14 ф 1.1.2-Тицентокореме 15 ф 1.1.2-Тицентокореме 16 ф 1.1.2-Тицентокореме 17 ф 1.1.2-Тицентокореме 18 ф 1.1.2-Тицентокореме 19 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 10 ф 1.1.2-Тицентокореме 10 1.1.2-Тицентокореме	2 2 1/3-DICHTOROBEOBURE 1/3 - DICHTOROBEOBURE 1/4 - DICHTOROBEOBURE	2 2 3-HEXANONE 2 2 3 3 3 3 3 3 3 3	2 2 2 2 2 2 2 2 2 2	2 2 2 2 2 2 2 2 2 2	2 2 1 1 1 1 1 1 1 1			вкоморіснгокометнале	T/8H	
	2 д тэ-даснтокоеднуле 2 д тячиг-1-з-даснтоковковене 2 д тячиг-з-рептиломе 2 д тэ-даснтоковкореме 2 д тэ-даснтокоркореме	2 2 1.1.2-ПСНГОВОРВОРВИЕ 1.1.2-ПСНГОВОРВОРВИЕ 1.1.2-ПСНГОВОВПЬЛОВЕ 1.1.2-ПСНГОВОВПЬЛОВЕ 1.1.2-ПСНГОВОВПЬЛОВЕ 1.1.2-ПСНГОВОВПЬЛОВЕ 1.1.2-ПСНГОВОВПЬЛОВЕ 1.1.2-ПСНГОВОВПЬЛОВЕ 1.1.2-ПСНГОВОВПЬЛОВЕ 1.1.2-ПСНГОВОВРВОВЕ 1.1.2-ПСНГОВОВРВОВЕ 1.1.2-ПСНГОВОРВОРВОВЕ 1.1.2-ПСНГОВОРВОРВОВЕ 1.1.2-ПСНГОВОРВОРВОВЕ 1.1.2-ПСНГОВОРВОРВОВЕ 1.1.2-ПСНГОВОРВОРВОВЕ 1.1.2-ПСНГОВОРВОРВОВЕ 1.1.2-ПСНГОВОРВОРВОВЕ 1.1.2-ПСНГОВОРВОРВОВЕ 1.1.2-ПСНГОВОВЕ 1.1.2-ПСНГОВОВЕ 1.1.2-ПСНГОВОВЕ 1.1.2-ПСНГОВОВЕ 1.1.2-ПСНГОВОВЕ 1.1.2-ПСНГОВОВЕ 1.1.2-ПСНГОВОРВОРВОВЕ 1.1.2-ПСНГОВОВОВЕ 1.1.2-ПСНГОВОВЕ	2 2 1/3-DICHTOROPROPRIE 1/3-DICHTOROPROPROPRIE 1/3-DICHTOROPROPRIE 1/3-DICHT	2 2 3-НЕХАИОИЕ 1,3-DICHLOROPROPENE 1,3-DICHLOROPROPENE 1,2-Тизсин-Окорепорем 1,2 2,2 2,2 2,2 2,3 2,3 3,4 2,3 3,4 2,4 3,4		2 E	2 2			3-CHTOKOELHAT AINAF ELHEK	µg/L	2
TRANS-1,3-DICHLOROPROPENE	TRANS-1,3-DICHLOROPROPENE	TRANS-1,3-DICHLOROPROPENE TRANS-1,3-DICHLOROPROPENE TOLUENE TOLUENE TOLUENE	1	2 1.3-DICHLOROPROPENE 1.3-DICHLOROPROPENE 1.1.2-TRICHLOROPROPENE 1.1.2-TRICHLOROPROPENE 1.1.2-TRICHLOROPROPENE 1.2DICHLOROPROPENE 1.3DICHLOR	2 2 1.1.2-ПИСНІ.ОКОРКОРЕИЕ 1.1.2-ПИСНІ.ОКОРКОРЕИЕ 1.1.2-ПИСНІ.ОКОРКОРЕИЕ 2.1.2-DICHI.OKOPROPENE 2.1.2-DICHI.OKOPROPENE 2.1.2-DICHI.OKOPROPENE 2.1.2-DICHI.OKOPROPENE 2.1.2-DICHI.OKOPROPENE 2.2.1.2-DICHI.OKOPROPENE	10 10 10 10 10 10 10 10	2 1.1.2-Писньокоргоре 2 1.1.2-Писньокоргоре 3 1.1.2-Писньокоргоре 4 1.1.2-Писньокоргоре 5 6 1.1.2-Писньокоргоре 6 7 1.1.2-Писньокоргоре 7 6 7 1.1.2-Писньокоргоре 8 1.1.2-Писньокоргоре 9 7 7 7 7 7 7 7 7 7			CI2-1'3-DICHTOKOSKOSENE	µg/L	0.1
	г. г.т.г. тизсноостилие	Toluene Toluene Toluene	1,1,2-TRICHLOROFIHANE TOLUENE TOLUENE TOLUENE TOLUENE TOLUENE TOLUENE TOLUENE	1,1,2-TRECHLOROETHANE	5 5 1.1.2-ПИСНІ.ОКОЕПНАМЕ 1.1.2-ПИСНІ.ОКОРЕПНАМЕ 2.1	1, 1, 2-ПИСНЕОВЛОВ 1, 1, 2-ПИСНЕОВЛОВ 1, 1, 2-ПИСНЕОВЛОВ 1, 2-ПИСНЕОВЛОВ 1, 2-ПИСНЕОВЛОВ 1, 3-ПИСНЕОВЛОВ	1.1.2-ПИСНІСОКОЕПНАМЕ 1.1.2-ПИСНІСОКОЕПНАМЕ 1.0 1.1.2-ПИСНІСОКОРКОРАМЕ 1.0 1.2-ВІСНІСОКОМЕТНАМЕ 1.2 1.2-ВІСНІСОКОВІТНЕМЕ 1.2 1.2 1.3 1.3 1.4 1.3 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.3 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.			+ WELHAT-3-PENTANONE	1 2	જ
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SAPROJECTS ENVIPEGANDOCS PCW-baselinedata.xlc

3/16/05

POST-C RE GROUNDWATER MONITORING BASEL. — MONITORING PHASE

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			2,6-DINITROTOLUENE	1/8	5.0			- -		-	ND.	ON D	9	2	! ⊦		2	- Q	2	-1	5		9	92	
			1'3-DINILKOBENSENE	1/8#	5.0				-		QN	ġΝ	身	Q				9	2		2	+	2	QZ	-
			DIMETHYLPHTHALATE	#8/L	1			1 5		_	QN	Q.	2	9	⊩	2 2	-1	E E	QZ	\exists	C	- i-	2	QN C	-
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.]			N-NITROSODI-N-PROPYLAMINE	ก พูล	28	9	<u> </u>	 2	9	1	1—1	2	S S	9	CZ	٠	1	Q.	Q.	+	Q.	9	f ⁻	9	2
l			нехуснговоетную	H8/L H		2	9	9	1 2	-	J	Q	2	2 E	Q.		1	8	Q.	┨	1 Q	9	-1	QN	2
		. 1	ВІЗ(2-СНГОВОІЗОРВОРУІ)ЕТНЕЯ	μg/L μ	5.0	Q.	2	9	2	1	 - -	2	├ ─-	2 2	2	- 	╁	. Q	9		9	9		S S	9
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.		·	N-NITROSOĎIMETHYLAMINE	겋	9	. Δ	1 =			$\frac{1}{2}$		<u>-</u>].	<u>e</u> .	╗		Ω				- .			+	e	Á
		-	1,24-TRICHLOROBENZENE	id 7/8ht	5.0.5	Q Z	2	2	2	1	Q Q		1	2 Q	Q.	2	١.	GN.	S.	-	-Q	Ä.	4.	N. N.	Q Z
		-	1,2,3-TRICHLOROBENZENE	P.B/L.	5.0	2	. <u>2</u>	S S	9	\parallel	9 9		\rightarrow	Q Q	9	S S		S S	2 2	1.	Q Q	S S	1	g Q	N ON
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7)		₹ -	1,2-DIBROMO-3-CHLOROPROPANE	μg/L μ̈́β	9			QN Q	+	-			1	Q.	1	Q Q			9	}	g Q	S.	-		2
ASI	-	-	N-BOLLATBENZENE	μg/L μg	. 9	8	QN Q	QN Q	ON ON		9 5	_1	1	Q Q	GN. GN	8		GN Q	2			SZ Q		ON ON	Q Q
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TOURI OKING PHASE				Units	Detection Limit			NR.		572.98		571.46		1			570.56			- 554,12			Sample Round Number - 8; Groundwater Elevation - 571.11		
ž	; ;		L		1			uon .		tion -		lon-					flon -			tlon =			Eg.		
					r No.	F66-000328-JLW-01W	F66-000329-JLW-01W F66-000331-JLW-02W F66-000403-JLW-01W	- 3; Groundwater Elevation F66-000807-RRB-07W F66-000808-JLW-03W	3-08W 7-04W	Eleva	F66-010117-MPW-03W F66-010122-MPW-03W	"-4; Groundwater Elevation	F66-053001-DAB-01W	Flave	ŏ.	02.W	Eleva	02 W 0 W 0 W	W.0-1	Eleys	W10-3	-02W	Eleva	W10-3	M.60-
5	(Š			ontain	, 1 ° 8	19-11.V 14-11.V 13-11.V	17-R2 18-11.V	77-RR 38-JLV 39-JLV	lwater	7-MP	water	I DA	water Total	KY.	N-KN	Trate	1.18.	1.18 1.18 1.18	iwater	26-JRF 28-JRG	26-JR.	1)vater	8.18	10-KN
			(1. 1일)	81	Sample Container No.	0003	F66-000329-JLW-01W F66-000331-JLW-02W F66-000403-JLW-01W	-0008C	F66-000807-RRB-08W F66-000808-JLW-04W F66-000809-JLW-01W	rount	01011	rounc	05300		F66-091701-KN-01W	F66-091701-KN-02W	LORUE	F66-121801-JRR-02W F66-122001-JRR-03W F66-011221-JRR-04W	F66-121901-JRR-07W F66-122601-JRR-01W F66-122701-JRR-05W	rounc	F66-020226-JRR-01W F66-020228-JRR-01W	F66-020226-JRR-02W F66-020301-JRR-10W	rouni	F66-020606-JRR-01W	F66-020610-KN-09W
1			Visteon	Groundwater Elevation = 571.81	. 85	F66	766 F66	F66	766 766	Sample Round Number 3; Groundwater Elev-	F66	7	P66	Sample Round Number # 5: Crunndwater Floveting # #11 or	FGE	F66	Sample Kound Number = 6; Groundwater Elevation	F66-12/801-JRR-02W F66-122001-JRR-03W F66-01/221-JRR-04W	F66 F66	Sample Round Number - 7; Groundwater Elevation	F66	F66	8,1	F66	F6.
2	Servi		VISTE	/atlon	ं हु	-# Q			2 50	mper	<u>.</u>		= =	unber	1				5 4 5	unber	8 8		inbe	, ,	, g
	-	:	Ž.	1 23	Date(s)	3/23 through 3/30/00	3/23 through 3/30/00	8/7/00 through	8/7/00 through 8/9/00	N Pu	1/17/01	Sample Round Number	10/05/5	ny pu	10/11/6	10/11/6	NG NG	12/21/01	12/19/01 through 12/27/01	nd Nu	2/26/02	2/26/02	ž pu	6/6/02	6/10/02
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PCW-8			<u> </u>	필년	Set. Set. No.	_	7	- ·	72	2	- 2	121	- 8	<u> </u>	_	7	¥1	1	. 7	, a	- 1	7		,	7

NR = not reported, ND = not detected, IP = in progress, UI = hold time exceeded

POST. RE GROUNDWATER MONITORING BASEL. AMONITORING PHASE

μg/L ON. 5.0 2 9 원 2 된 RENZO(CHI) SEKATENE rg/L Š g S 2 <u>Q</u> Ŕ 2 5.0 9 身 2 운 2 2 2 2 DIBENZO(A,H)ANTHRACENE 8 8 £ HB/L Š g ð 욧 2 ź 5.0 g g £ £ 2 2 å INDENO(1 3'3-CD) SAKENE μg/L 윤 2 g ŝ £ ġ 웆 2 문 2 윷 S 2 2 2 BENZO(A)PYRENE 2 µg∕£ Ω £ QV. S 5.0 9 물 2 Q. 2 Š g 2 2 9 2 BENZO(K)LTOOK VALHENE 9 ð µ8/I 5.0 S 윷 S Ş g ð å £ g ġ ģ ð 웆 2 9 BENZO(B)FLUORANTHENE 'n8∕L 5.0 S 윤 9 Š 9 2 Ð. 2 운 S £ 2 2 2 2 Q DI-N-OCLASSHHALATE 9 9 #g/L 5.0 S £ 9 ð £ 9 g 9 2 g 8 웊 2 Š DICACTOHEXAL PHTHALATE 운 운 Hg/L 5.0 9 9 2 2 윶 2 g Ŕ 2 9 ġ 운 ð 2 ng/L 2 Š 50 9 ġ g 呈 £ å 물 S. g ð 2 ĝ Š g 3'3'-DICHTOROBENSIDINE £ 2 HB/L ð g Q 5.0 8 ð S ĝ Š 2 ă ġ 2 2 Š CHEASEME J/An ð 2 5.0 £ g 물 2 2 2 S 2 ź 2 £ 윘 g ð BENZO(V) VALHIS Y CENE Serni-Volatiles (8270) Lab Parameters μg/L 5.0 2 ₽ Ð 9 g 윤 2 9 2 g 2 2 BIZ(5-ELHATHEXAT)VDIAVLE 운 9 皇 g rg/L S ġ 5.0 2 ā Ę 웊 S **JULI BENZYLPHTHALATE** 呈 £ 문 문 2 9 2 웊 g µy/L Q 2 2 2 5.0 £ 8 ᄝ Š ð 2 싶 g g 2 ġ 2 SAREME 焬 욧 Q. 2 2 5.0 g ã 2 Š ġ 2 2 Ź Q S ż 9 BENZIDINE QN S 1/8/I 2 S 身 g Š 5.0 2 웆 g 2 2 ₽ g g FLUORANTHENE 윷 ð Š 1/6/1 S δÑ 5.0 身 9 9 윷. ð. £ S ġ g £ 원 9 DI-N-BOLATAHIHVI VIE HB/L S S ġ £ S 2 9 2 2 9 2 g g 2 Ð ã 2 слева́госъ ř. å å ġ 9 ġ 5.0 2 2 뒫 2 2 S g ġ, ŝ Ž ð **YMTHRACENE** 18/L 5.0 Š £ Q S QN. g £ Š £ 문 ð 2 g 윷 Š 身 HENVILHBENE £ 1/8/1 2 g g ΩN Ž 5.0 ð £ g g £ 2 ã 2 9 S 9 2 £ Z μğ 2.0 ă £ 2 ĝ £ 2 2 5 ð 2 g 2 PBROMOPHENYLPHENYLETHER Ş 8 8 7/8n 2 g £ 5.0 2 ã 2 웊 2 문 ę и-ицкогоріьней ЛГУМІИЕ £ 물 9 ã HW/L 5.0 å Ö Š ð 9 夂 å 2 8 9 Ð g 8 £ ð hg/L 8. £ 9 2 g S å 9 2 8 Ą. 2 Š 9 g 물 욧 +-NITROAMLINE Detection Limit Units mple Round Number # 8; Groundwater Elevation F66-010117-MPW-03W P66-010122-MPW-03W. F66-053001-DAB-01W F66-053001-DAB-02W F66-000328-JLW-01W F66-00033 J-JLW-02W F66-000808-JLW-03W E66-000808-JLW-04W F66-091701-KN-01W F66-020606-JRR-01W F66-000807-RRB-07W F66-011221-JRR-04W Sample Container No. F66-000403-JLW-01W F66-091701-KN-02W oundwater Elevation - 571.81 NR = not reported; ND = not UJ = hold time exceeded Date(s) Collected 1/17/01 10/05/5 3/23 through 3/23 through 3/30/00 through 18/6/8. 10/1/1/01 12/18/01 through 12/21/01 12/19/01 through 12/27/0[1/22/01 5/30/01 8/8/00 10/11/6 6/6/02 Sample Set No.

POST-CE-USURE GROUNDWATER MONITORING DETECTION MONITORING PHASE NROE PLANT

Visteon	
Sample Round Number - 9; Gronndwater Blevation - 573,53	Ğ
Sample Sot Date(g) Collocted Sample Container No.	Detec
12/26/02 V27-021225-JRR-01W	

1.1-DICHLOROPROPENE

1,1,1-тълсньовоетнаме

1.2-DICHLOROETHANE

3.2-DICHLOROPROPANE

СНГОВОБОВУМ

BROMOCHLOROMETHANE

CIS-1,2-DICHLOROETHENE

3-BULAHONE

1,1-DICHLOROETHANE

затти

TRANS-1,1-DICHLOROETHENE

CYMBON DISOFLIDE

VINYL ACETATE

МЕЛЬИГЕИЕ СИГОИDE

ODOMELHVAE

VCRYLONITALE

1'1-DICHTOROETHENE

YCELONE

LISCHTOSOLTHOSOWELHVAE

VCROLEIN

СНГОУОЕЛНУИЕ

BROMOMETHANE

СНГОВОМЕТНАМЕ

DICHFORODILFOOROMETHANE

HEXYAVITEMI CHROMIUM

SULFATE

MICKET

TEVD

COPPER

CHROMIUM

САДМИТИМ

SPECIFIC CONDUCTANCE

Ηď

Lab Parameters

375

μg/L

1/8t 1/8t ج:

#B/L 0.1

1/2 2:

HB/L 5.0

18/L ŝ

T/Art 8

1/84 5.0

Lg/L 2

ng/L 9

Pg/L 001

1/21 1.0

187 5,0

ng/L 2

Hg/L 9.

J/A 0.1 rig/L 9.

nø/L 2

mg/L

17/8ri 5.0

ng/L

µg/L 52

HWL HB/L 3.0

My/L 5.0

J. J. 0.5

uS/cm

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0.005

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0.7 µg/L

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5.0 A.

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Sample Round Nu	Sample Round Number - 10; Groundwater Elevation - 574.59	Elevation = 574.59									1		-	$\frac{1}{2}$	-	-			-					2		2		2	N.	 C	z 2	2	
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	CO. CO.	Y27-030616-JRR-02W	N. N.	2030 ND ND	Q	_	QN C	2	ND ND UN	2	ND ND	5	4	2		1	4,1		-	ŀ	-	-		İ	$\left \cdot \right $								
Sample Round Nu	Sumple Round Number # 11; Groundwater Elevation # 575,01	Elevation = 575,91				-			ļ	}	2	שא שא שא שא שא שא שא שא שא שא שא שא שא ש	2	ź	2	2	Ž	2	2	Ž Q	ž	g	9	g	2	Ş Ş	2	2	ð	Q.	ş	g g	
	12/10/03	V27-031210-LK-04W	7.11	7.11 1418 ND ND	Q		Ę,	2	1 300	GN GN GN GN	1	9	1	٤		1			-	ŀ	-	-			-								1
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CAMPIE MULIU INE	Campie August Hamber - 14; Groundwaler Elevation - 575.04	Elevation = 575,04																	1	l	\mathbf{I}	ļ	1		1	-			!	1	1	2	
	1010/3				-					į	į	٠	i																				1
	- A 60 (A)	VZ7-040508-JRR-01W	N. N.	ON ON SCII	2		QN C	Ž	ON CN CN	2	Z	QN.	ND N	2	5	5	4		f		ŀ	-			ŀ	-			İ				i
Samule Round Nu	Samule Round Number # 13. Groupstwater Flausten ers. co	Flametten - Car ce	National State of the Control of the		-		-			:	-	ON ON ON ON ON ON ON ON ON ON ON ON ON O	-	į	ž	2	ž	2	2	z. 9	Z	9	2	2	S	9	9	2	2	9	9	QN	
	To the state of th	Escritton = 5/4/46																							1	1	1			1			7
	12/28/04	Was day acctanged.	777		-	+	-												i														
		W 00-WW-0777 -0-171	7.5	2410 ND ND	2	_	2	2	ND ND 1,400	2	웊	ON ON ON ON ON ON ON ON ON ON ON ON ON O	Q	Z	Ž	N	ź	2	5	9		-			ŀ					-	ŀ		ľ
							-	1				j				}	}	2	2	=	2	2	2	2	2	2 9	2	2	2	2	9		
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VISTEC NROE PLANT POST-CLOSURE GROUNDWATER MONITORING DETECTION MONITORING PHASE

PCW-8

1,2-DICHLOROPROPANE	J/Sit	L
DIBROMOMETHANE	섫	
BENZENE	T/811 T/811 T/811	
CARBON TETRACHLORIDE	μg/L	
	Units	Detection
Visteon	Sunnis Sel	Name Series Date(s) Collected Sample Contains No.

		_	_		L				ĺ	İ			-								_	_		_				_	-			-
Sample Round Number # 9; Groundwater Elevation = 573.53	Units	18/L #8/L	T LKI	J/MII	1/8/1	1.7	/40	1/01	1/61	- 1/4	-	1 1			Ľ					ļ	l	+	1	ļ	1			1	1	1	-	7
Sample Set							יייין בייין בייין בייין בייין הייין	1	1	3. 3.	-	1 1 2 S	<u> </u>	Tage 1	1	1,2	J/8/	187	HØ/L	T/Sit	HE/L H	S/L E	J. H.B.	1 µ8/1	1/8r	HWL.	HZ/L	1/21	"N"	1/2	1/4	
No. Date(s) Collected Sample Container No.	netection	1.0	0 1.0	1.0	1.0	-	0, 0, 0, 0, 0, 0,	-	\$		-	3	:	:			L		1	Ť	\dagger	÷	1	1	4					,		-
1, 150,50	Limit				:	?	1	3	₹	-	-: >:	.i	ુ -	0.1	•	2	0.	2	0.1	2	0.1	0.1	-	1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	_	0.1	0	9	-	<u>-</u>		
12/27/02 V77-02120-12W		S S	. Q	2	N	£	CX CX CX	Ę	- - -	5	-	1		!	L					T	1	+	+	+					:	2		,
Sample Round Number # 10; Groundwater Elevation = 574.39		$\frac{1}{2}$	-								and a	ž.	2	UN ON THE	2	GN GN GN	ND	Q.	ON ON ON	æ	2	z 9	2	ON ON ON ON	2	QV QV	ð	ON ON ON ON	9	9	ON ON	_
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W2/-051230-1X-04W	ON ON	N N	2		S ON	2	CAN CAN CAN CAN CAN CAN CAN CAN CAN CAN	Q	Q	2	į Ž	2	2	2	1	2	3	3	!			-	-	ŀ				t	1		ı	ı
Sample Round Number - 12; Groundwater Elevation = 575.04								-					,		1	Ž.	Ž	Ş	an an	Q.	Q.	z ġ	ON ON ON	2	ž	8 9	ON ON	ð	8	g	Q Q	_
6/8/04 V27-040608-JRR-01W	UN UN	QX	Ž	ž	Ę	Ş	02	4	4	1				-					Ī	ľ	ı											
Sample Round Number - 13; Groundwater Elevation - \$74.46)		סאן סאן סאן סאן סאן סאן סאן סאן סאן סאן	2	2	2	2	ž	2	2	2	2	2	g	9	묏	2	Z Q	2	2	9	ND	g	GN DN DN	2	ę	GN GN	-
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QV QV

1.4-DICHLOROBENZENE

1,3-FTRIMETHYLBENZENE
SEC-BUTYLBENZENE

1,3-DICHLOROBENZENE

2-CHLOROTOLUENE

+-CHLOROTOLUENE

2.3.-TRINETHYLBENZENE

2.4.-BUTZLBENZENE

N-PROPYLBENZENE

17.3-LEICHTOROBROBURE
LOLYT XAFEMEZ
17.7-3-LELBYCHTOROELHYME
21.AYEME
BROWOEDBW
ELHALTBENZEME

ТЕТЯАСЭЦОВОЕТИЕМЕ

1,1,1,2-ТЕТВАСЭЦОВОЕТИАМЕ

СРІ,ОВОВОЕТИЕМЕ

ЕТНУЕМЕРІВІКОМІРЕ

DIBROMOCHLOROMETHANE

3-HEXVIONE

TOLUENE 1.3-DICHLOROPROPANE

т.т.т.тиснговоетнаме

TRANS-1,3-DICHLOROPROPENE

4-METHYL-2-PENTANONE

3-снговоецнаг алааг еднев вкоморіснговометичае дисиговоеднеме

Lab Parameters Volatiles (8260) ON ON

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V27-041228-JRR-06W

 $NR = not \ reported, ND = not detected, IP = in progress, UI = hold time exceeded$

POST-CL-SURE GROUNDWATER MONITORING DETECTION MONITORING PHASE VROE PLANT

PCW-8				Sample Round	Sample Set No.	-		Sample Round	-	Sample Round	
			Visteon	Sample Round Number # 9; Groundwater Elegation # 573.53	· Date(s) Colfected	12/26/02	12/27/02	Sample Round Number . 10; Groundwater Elevation = 574.59	6/16/03	Sample Round Number = 11; Groundwater Elevation = 575.01.	
				tr Eleyation = 573.53	Sample Container No.	V27-021227-JRB-01W	V27-021226-JRR-07W	ter Elevation - 574,59	V27-030616-JRR-02W	er Elevation = 575.01.	
	Ľ.			Units	1	Limit	Z		2		
		\perp	1'3-DICHTOBOBENZEME	HE/L HE/L HE/L	9	4	S S		CN CN		
1	Vala		1,2-DIBROMO-3-CHLOROPROPANE	7. #B	-	4	Ω Q	-	2		
	Volaribe (8260)		HEXYCHTOROBUTABLENE	7 Hg/L	1 5	-	2		2	-1	
	(0)	<u> </u>	1,2,3-TRICHLOROBENZENE	L HE/L		-4	2		1	– ∤	
	1		1,2,4-TRICHLOROBENZENE	1/01		3	£		-	ž	
	L		N-NITROSODIAETHYLANINE	MK/L		á	Š		1	2	
- - /			., ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	1/21		97	£	1	-	Š	
			АИПИЕ	uv/L n		3	 9	1	⊢	Q.	
	ł	Ì	BIS(2-CHLOROETHYL)ETHER	16/1		5.0	5	1	⊢	2	
			PIS(3-CHLOROISOPROPY)ETHER	1/011		5.0 2	S S	+	- 1-	Q N	
			HEXYCH OBOETHANE	1/01	_	20 20	QN	-1	ŀ	9	
	ļ		MILEOSODI-M-BEOLAT VININE	Lan.	1	2 2	9	4	ŀ	오	
			IZOBHOKONE		181	5.0	2	-1	ŀ	용	
			BIS(2-CHLOROFIHOXY)METHANE		7.63 T	e.	5		-	Ω Ω	
		-	1'T+-IBICHTOROBENZENE		184 T	20	2		.	2	
1 46 7			НЕНТНАТЕИЕ		7/81	5.0	9			£	
I ah Duran stare			HEXYCHTOROBOLYDIENE		HB/L	5.0	[2		Ą	
	ا ۽	Sen	4-CHLOROANILINE	•	T/Sil	20		2		9	
ŀ	İ	ıi-Volaı	3-METHYLNAPHTHALENE		HØ/F	. 20	1	2		QN	
		Semi-Volutiles (8270)	Bis(2-CHLOROETHOXY)ETHANE	+-	μ. 1⁄8π	5.0	╂~	3		Z Q	
		ģ	HEXYCHTOBOCACTOBERTADIENE	+	HWL H	2.0	+	a Q		N. QN	
			1-NITROANLINE	+	нg/L µg/L	20 2	-	ON ON		QV QV	
			- VCENVBHIHATEME	-	7/F 12.8/L	20 5.0	+-	2		Ω.	
			DIWETHYLPHTHALATE	+	L µVL	20	┿	2	ľ	2	
			1,3-DINITROBENZENE	1	7. Hg/L	5.0		2		2	
			1.6-DINITROTOLUENE	1	L HWL	5.0	+	2		2	1
			УСЕИУЪНІНЕИЕ	1	L FE/L	5.0	1	2		g	1
			з-ипторишие	_	Hg/L	50	\int	문		2	
			DIBENSOFURAN		#8/L	5.0	1	ð		Q	
			ENEULOTORTINIG-L.S.	1	P.W.L.	0,5	+	2	1	S S	1
Ì			FLUORENE	1	ng/L	0.5	-	9		Q.	
		l	н-сигововнеихгънеихгетиев	-	rg/L	2 0 0	-	9	1	QN	-
-		T	DIETHYLPHTHALATE	_	μ8⁄L	0,0	. 1	<u>9</u>	7	2	_

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V27-031210-LK-04W	Elevation = 575.04	V27-040608-JRR-01W	Elevation = 574,46	V27-041228-JRR:06W	progress,
(2/10/03	Sample Round Number . 12; Groundwater Elevation = 575,04	P0/8/09	Sample Round Number - 13; Groundwater Elevation = 574,46	12/28/04	NR = not reported, ND w not detected, IP = in progress,
-	Sample Round	-	Sample Round		NR = not reporte

V27-031210-LK-04W

VISTE JNROE PLANT POST-CLOSURE GROUNDWATER MONITORING DETECTION MONITORING PHASE VISTE

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							į,					Sem	i-Vola	Semi-Volatiles (8270)	270)	1		1		l					
Visteon	aviliroatiiv.	1,2-DIPHENYLHYDRAZINE	N-MITROSODIPHENYLAMINE	4-BROMOPHENYLETHER	нехуснгововеихеие	ынемуликеме	Уизничене	CYMBYZOTE	TIAJAHTHALYTUB-N-IQ	FLUORANTHENE	BENZIDINE	PYRENE	BULYLBENZYLPHTHALATE	BIS(3-ETHYLHEXYL)ADIPATE	BEŃŢĆ(Y)YMIHBYCENE	СНИЛЗЕИЕ	3,3'-DICHLOROBENZEDINE	BIS(3-ELHATHEXAT)SHIHVIVIE	DICACTOHEXAL PHTHALATE	DI-M-OCLATMILITYTYIE	BENZO(K)ETOGEVILHENE BENZO(B)ETOGEVILHENE	BENZO(V) SAFENE	INDENO(1,23-CD)PYRENE	DIBENSO(V'H) YNJHIFYCENE	BENZO(CHI) BEKATENE
ample Round Burber 9; Groundwater Elevation = 573,53	Units . µg/L	'L #8/L	Jan 1	T/Att 7	1/AH	T/8H	Hg/L	1/81	1/Air	Hg/L	1/8/1	1/8	ng/L	T/Am	17,84	1.Sa	1/8/1	12	17/05/2	18/L	Lan Ton	7. u v/1	7. 196/1	1/61	1/8
No. Sample Sol. No. No.	Detection 20	3	5.0	5.0	5.0	5.0	5.0	2	5.0	5.0	5.0	5.0	5.0	8.0	0.5							-+-			•
1 (2/26/02 V27-021227-JRR-01W V27-021226-JRR-07W	GN.	2	2	- 2	S	Q	2	9	g	2	2	2	2	9	Ş	Ę	Ę	5	-		2 6			-+	
ample Round Number - 10; Groundwater Rlevalion = 574.59		-	1].]			1	1	1	7						1	-1	-1			2	2	Ž
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ON.	Q.	·S	£	2	9	2	Ş	Ę	S	Ş	5	5	9	-	1		-		Ŀ	⊢	ŀ	Į	- 1	- [
Sample Round Number - 11; Groundwater Elevation - 575.01	Secretary and the secretary an	1		4			1	1			2	2	2	-	2	2	 2	₹	2	9	200	2	2	2	2

V27-040608-JRR-01W

V27-031210-LK-04W

Sample Round Number * 12; Groundwater Elevation = 575.04

ample Round Namber - 13; Groundwater Blevation - 574.46

V27-041228-JRR-06W

POST-C TRE GROUNDWATER MONITORING G PHASE

BASEL	CW-9		Visteon	
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		in T				_				i										Tab	Lab Parameters	52														Γ
	 1 1			Field	Field Parameters		Dissolv	Dissolved Metais (6020)	tals (60.	20)	375	9010B	7196A								1			Volztil	Volatiles (8260)	6						1			1	П
ample R	VISTE	Isteon"		Hq	гьесные сомрастумсе	CADMIUM	СНВОМІЛИ	СОРРЕК	TEVD	NICKEL			HEXVAYTEM1 CHROMINM	DICHLORODIFLUOROMETHANE	AINATCHTOKIDE	ВКОМОМЕТНАИЕ	СНГОКОЕТНУИЕ	ACROLEM	ТЕЛСНГОКОЕГЛОКОМЕТНАМЕ	VCETONE	1,1-DICHLOROETHENE	ACRYLONITRILE	IODOWETHANE	METHYLENE CHLORIDE	AINAF ACETATE	CARBON DISULINDE	ESTM	1,1-DICHLOROETHANE	з-воталоме	сіг-1'х-ріснтововинеме	ВКОМОСНГОКОМЕТНУИЕ	СИГОУОЕОУМ	2,2-DICHLOROPROPANE	ј.2-ріснгокоетнаме	1,1,1-тиснговоетньме	1,1-DICHLOROPROPENE
Prounds	'ate	1 = 572.40	Units	SS	μΣ/cm @ 25° C	e) µg/L	, µg/L	1/8# -	L/\$H	7/8#	mg/L	T/8nf	mg/L y	n T/SH	HB/L H8	48/L µB/L	T µg/L	L Hg/L	Hg/L	He/L	1/8ti	T/Sit	T/Sri	HS/L H	HB/L H	hg/L µg/L	1 HØL	L µg/L	, µØL	µ8/L	1/8н	µg/L	HB/L	п Т/8н	1 7/811	1/211
Set No.			Detection Limit			50	50	25	3.0	23	1/3	ν.	0.005	1.0	1.0 1.	1.0	21	5.0	0:1	8.	1.0	9:	9:	5.0	Š.	50.	5.0	= =		0,1	0.1	0.1				9
- -	3/24/00	F66-000324-JLW-06W		9'9	> 1990		22	2		g	1,200	58	£	9	<u>8</u>	2 Q	見	£	g	9	£	Ð	£	£	2	<u>8</u>	2	£	Ş	S	Ş	5	- -		-1-	£
ample F	Cound Number	ample Round Nutriber - 1; Groundwater Elevation	ion = NR	6.7	> 1990	<u>Q</u>	- S	웊		g	1,200	£	0.005	2	ON ON	£	윤	見	2	2	2	£	£	見	+	+		┵		2	2	2	-			2 5
-	8/7/00	F66-000807-RRB-05W		N.	Ä	2	- 4	Ž		23	30	Ę				-	i ⊢	1 I	! ⊩			1	4 F	4 F	1	$\left\{ \right\}$	-1 1	-{ }	1				-1			
7	00/L/8	F66-000807-RRB-06W		Ž.	2	1	-	+-		;		3 1		+	+		_	- +		2	g	2	Q.	<u>2</u>	Q	ON ON	2	2	8	9	QN	QN	Ω	S S	g g	£
ample F	ample Round Number	171	ion = 571,89		. 411	2		-1		£ 4.	1,000	Q.	<u>2</u>	ę E	된 된	2	2	<u>Q</u>	£	9	g	Ð.	身	Q.	S S	<u>8</u>	2	B	문	£	£	呈	身	皇	9	£
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2	1/24/01	F66-010124-MPW-06W		6.7	>1990		+	2		<u> </u>	9	2 E	+	+			-			2	£	물		-+	2			운	문	8	Ω	Q.	Q.	Ω Ω	5	S.
ample }	Sound Number	ample Round Number = 4; Groundwater Elevation	lon = 573,21				4		1200			1	-	-1	5	2	2	2	2	Q.	£	Ę	g l	Q.	QN	QN QN	Q.	2	g	£	S	QN	Q.	9	S S	£
-	5/31/01	F66-053101-DAB-07W		7.1	2470	£	[z	2		2	1,400	00	Ę	G G	5	5	Ę	Ę.	Ę	4	1		'⊢	⊢	lŀ	l 1-	l H	1 1						1	1	7
2	5/31/01	F66-053101-DAB-08W		7.11	2460	2	55	+		2	300	Ş	-+	+-	+	-	-	+		2 5	⊋ !	2	-	+		-	\dashv	£	2	2	Ω	ð	2	ę.	Q.	Ð
ample F	tound Number	ample Round Number = 5; Groundwater Elevation	on = 554,24				4	-							-1	1		2	Z	QV.	Q.	Q	g	2	<u>~</u>	ON ON	2	2	£	2	Š	g	2	2 Q	QN.	Ę
	9/11/01 9/10/01 9/7/01	F66-091101-KN-01W F66-091001-KN-02W F66-090701-KN-03W		7.1	2710	0.8	2	S		130	1,400	25	N N	g g	8	2	2	£	£	£	Q.	S.	£	9	9	S S	2	Ð	2	S S	Q Z	2	9	9	1 5	5
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			1,3,5-TRUMETHYLBENZENE
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POST-C REGROUNDWATER MONITORING BASELL MONITORING PHASE

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		/isteon	= 572.40	Sample Container No.	F66-000324-JLW-06W	F66-000324-JLW-07W	mple Round Number # 2; Groundwater Elevation = NR	F66-000807-RAB-05W	F66-000807-RRB-06W	impie Round (Number 3; Groundwater Elevation = 571.85	F66-010124-MPW-05W	F66-010124-MPW-06W	mple Round Rumber # 4; Groundwater Elevation = 573.21	F66-053101-DAB-07W	F66-053101-DAB-08W.	- 5	127 3 4 4	F66-091101-KN-02W F66-091001-KN-03W F66-090701-KN-04W	imple Round Number = 6; Groundwater Elevation = 568.69	F66-121801-JRR-01W	
		VISTEO	roundwater Elevation = 572,40	Dale(s) Collected	3/24/00	3/24/00	Round Number	8/1/00	877/00	Kound Number	1/24/01	1/24/01	Round Number	10/16/5	\$/31/01	Round Number	9/11/01 9/10/01 9/10/01	9/11/01 9/10/01: 9/7/01	Round Number	12/18/0[
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STATION STATE CONTRACT ACTION	W.CZHW-M-02020-03-03-03-03-03-03-03-03-03-03-03-03-03	1/4/02	W CO-714Nr-t-05070-003		nple Round Mumber # 8; Groundwater Elevation = 574.27	6/10/2007 FEE 030610 VN 17W EEC B	6/11/2002 020611-JRR-04W	6/10/2002 F66-020610-KN-18W B66.	6/11/2002 020611-JRR-05W	
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Sample Round Number = 7; Groundwater Elevation = \$72.14

F66-121901-JRR-02W

VISTEC ROE PLANT
POST-CLOSURE GROUNDWATER MONITORING
DETECTION MONITORING PHASE

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			C.	anple Round Number - 9; Croundwater Elevation - 572.39	 		ample Round Number - 101 Groundwater Bievation = 573.58	6/12/03 / VZ7-030612-JRR-04W	I, Graundwater Elevation = 572.18	12/19/03 V27-031210-LK-02W	6/9/04. V22-040609-189-05W	if Groundwater Elevation # 572.7	12/30/2004 V27-041230-JRR-03W 01/03/05 V27-050103-JRR-04W	R = not reported, ND = not detected, IP = in progress, J = hold line exceeded	

VISTEC (ROE PLANT POST-CLOSURE GROUNDWATER MONITORING DETECTION MONITORING PHASE)

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mple Round Number = 9; Groundwater Dlevation = 572.39	Units µg/	HS/L HE/L	משור משוד	II IS/L	Van	1/4	1/6	1,6		1/2									_	+	+	+	+	\downarrow	4	1	_	_				-	-	7
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1 V27-040609-JRR-05W	Sample Round Number. 13, Groundwater Elevation = 572.7,	1230/2004 V27,041230-JRR-03W	UIUS/03 V27-050103-JRR-04W	MK - not reported, MD - not delected, IP - in progress,

V27-031210-LK-02W

Sample Round Number = 12; Groundwater Elevation = \$73.86

VISTE NROE PLANT
POST-CL-STRE GROUNDWATER MONITORING
DETECTION MONITORING PHASE

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Date(s) Collected Simple Countainer No. Libral (1) Container No. Libral (2) Countainer No. Libral (3) Container No. Libra	mple Round Number - 9; Groundwater Elevation = \$72.39			ug/L H	P/L 118		표.			7/81	T/Ari	1/8		{ − ,			1,01	1	T/an	+ :	1	+	-1-		_						_		_				. 1
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-10f Groundwater Elevation = 573.38 -10f Ground		30102-JRR-04W			-		: ا	-	-1-	3	3	2	2	R	8	3	9	ឧ				_					vi						5.0			5.0	
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VISTEC ROLE PLANT POST-CLOSURE GROUNDWATER MONITORING DETECTION MONITORING PHASE

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Sample Round Number - 91 Groundwater Elevation = 572.39	Units	Lg/L	hg/L	hg/L is	1/84	ug/L ug	HALL HALL	L ugl	L ue/L	. 124	ja n	50.2	100	1,2		1	Ī	1			1			ľ	
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TRE GROUNDWATER MONITORING -- CONITORING PHASE

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NR = not reported, ND = not detected, IP = in progress, UI = hold time exceeded.

TRE GROUNDWATER MONITORING POST. TRE GROUNDWATER BASEL. AONITORING PHASE

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TRE GROUNDWATER MONITORING BASEL. .-- AONITORING PHASE

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Sample Round Number = 7; Groundwater Elevation = 578.18	2/28/02 F66-020228-JRR-08W	2/28/02 F66-020228-JRR-09W	Sample Round Number = 8; Groundwater Elevation = 578 16	6/10/02 F66-020610-KN-05W
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1 6/10/02 | F66-020610-KN-05W F66-020610-KN-06W 6/10/02

POST-/ TRE GROUNDWATER MONITORING BASELL, E. MONITORING PHASE

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		VISTEON	n = \$78.78	Sample Container No.	F66-000329-1LW-03W	2 3/29/00 F66-000329-JLW-04W	er = 2; Groundwater Eleva	-	F66-000809-JLW-05W	Sample Round Number = 3; Groundwater Elevation =	F66-010124-MPW-03W	F66-010124-MPW-04W	Sample Round Mumber = 4; Groundwater Elevation	Feb-053001-DAB-09W	F66-053001-DAB-10W	Sample Round Number = 5; Groundwater Elevation ==	ें	F66-090501-KN-02W	Sample Round Mulhber = 6; Groundwater Elevation = 577,79	F66-122001-JRR-06W	F66-122001-JRR-07W	Sample Round Number # 7; Groundwater Elevation	F66-020228-JRR-08W	- F66-020228-JRR-09W	Sample Round Number = 8; Groundwater Elevation	1.0 mar and and and	F66-020610-KN-05W
PCW-10	-	VISTE	Groundwater Blevation = \$78,78	Sample Date(s) Set Collected No.	1 3/29/00	Sample Bound Number	Daniel Count (Author	1 8/9/00	2 8/9/00	Sample Round Numbe	1 1/24/01	10/57/1 7	Sample Round Numb	In/ne/ic	2 5/30/01	Sample Kound Numbe	+	2 9/5/01	Sample Round Numbe	12/20/01	2 12/2b/01	Sample Round Numbe	70/82/7. 1	2 2/28/02	Sample Round Numbe	1	70/01/0

NR = not reported, ND = not detected, IP = in progress, UJ = hold time exceeded

VISTEO NROE PLANT
POST-CLUSSEA GROUNDWATER MONITORING

DETECTION MONITORING PHASE

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			TRICHLOROFLUOROMETHANE	pg/L	1	3	윘
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į			AIAATCHTOHDE	'L µg/L	+	\rightarrow	2
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			tu.	e Round Number = 9; Groundwater Elevation = \$77.1	Date(s) Collected	1230	le Round Number + 10; Groundwater Elevation = 578.73
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-04W	Sample Round Number a 13, Groundwater Elevation = 578.87	1 6/9/04 55 V27-040609-JRR-01W	Sample Round Number + 13; Groundwater Elevation - 578,14	1 12/28/04 VZ7-041227-JRR-05W	NR = not reported, ND = not detected, IP = in progress.

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anple Round Number - 11; Groundwater Elevation - 578,13

VISTEC ROE PLANT
POST-CL CL CARE GROUNDWATER MONITORING
DETECTION MONITORING PHASE

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		۱		1,2,4-TRIMETHYL.PENZENE		ue/L.		0.	Q.	1	ł	£
		-		TERT-BUTYLBENZENE	•	I T/C		0	O.		t	<u></u>
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				4-CHLOROTOLUENE	\dashv	ng/L		0.1	윷		H	2
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				1,1,2,2-TETRACHLOROETHANE	1	J/Sid	9	:	욧		-	Ę
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		Sample Round Number = 12; Groundwater Elevation = 578.37			Ample Round Number - 13; Groundwater Elevation - 578.14		-	NR = not reported, ND = inti detected, IP = in progress.
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EO: TROE PLANT	CLOSOKE GROUNDWATER MONITORIN	DESERVED NEW CONTROD DATA OR
VISTEO.	POST-CLC	

01.11.70	nr-wo			VISI	imple Round Number - 9; Groundwater Elevation = 577.1	Sample Set	No.	 	imple Round Number # 10; Groundwater Elevation # 578.73
				u	7 Groundwaler Elen	Date(\$) Collected	2	12/30/02	10; Groundwater El.
	· · · · · · · · · · · · · · · · · · ·				vation = 577.1	Samuel Control M.	Fulpic Contained 190,	V27-021230-JRR-05W	evation = 578.73
					Units	Detection	Limit		
Į		L	L	1,2-РІСНІ ОКОВЕИХЕИЕ	784 7	╁	2	2	
			L	N-BOLLIBENSENE	1/8t 1/8t 1/8t 1/8t 1/8t	-	2	2	
_]	:.	Yotati	L	1,2-DIBROMO-3-CHLOROPROPAVE	1/8/L	. 1	2	윋	
		Volutiles (8260)	L	нехуснгововотуриеме	#8/L	+	9,	Q.	
-	<i>-</i>	6		1,2,3-тисньововеихеие	1/8t	L	5.0	£	
ļ	:	Ī.,	T	ямахмавояфлитт-+,с,г	μg/L	T	0.5	£	
			\mid	и-ипкозориетнул миие	π T/Aπ	+	5.0	£	┨.
			-	PYRIDINE	க்ர பூகர்	-	20	2	-1
·			F	BIZ(5-CHLOROETHYL)ETHER ANILINE	J/R T/A	+	20 5.0	S S	
			-	DISCS-CHTOPOISOPROPYLLITER	/Sin	4	0.5.0	ž	-1
			-	НЕХУСНГОЙОЕТНУИЕ	L µg/L	+	8	ž	-!
			1	N-MILKOSODI-N-BKOLKF PMINE	LE/L		. 30	2	┥.
				MILYOBENZEME	ue).		5.0	Ę	
				зорновом	1,2,1		5.0	Ę	
				BIS(2-CHLOROETHANE	ne/L	-	2	9	-1
	-		ŀ	1,2,4-TRICHLOROBENZENE	1/89		8	5	-1
	Lab Parameters		-	иминителе	l/o	-	5.0		2
	unctors		ŀ	HEXACHLOROBUTADIENE A-CHLOROANI INF	1/01		5.0	1	⊣i
		1		5-МЕТНУЛАРНТЬ ИЕ 4-СНГОВО ВИДИТИЕ	neft neft	È	20 20	┰	2
		l de la	NO.	BIZ(3-CHTOFOELHOXA)E1HVME			5.0	+	
		Sami Maladia (8978)	2 (27/0)	HEXYCHTOGOCACTOLENIADIENE	1 2		2.0	-	2
				3-CHLORONAPHTHALENE	727		20		Q.
			Ì	24-MITHORITH-2	1	1 20	70		Q Z
				УСЕИУЬНЦИЛГЕИЕ		1,61	5.0	-1-	2
				DIMETHYLPHTHALATE		7 7 8 H	20	+	9
				1,3-DINITROTOLUENE 2,6-DINITROTOLUENE		18 - NS	3 0 5		Z Q
				VGENVEITHENE VGENVEITHENE	-	18 1 18 1 18 1	40	-	S S
				3-NITROANTLINE		1. R8/L	2		Q.
			İ	DIBENZOŁNBYM		784	Ş		Q.
				2,4-DINITROTOLUENE		1.8/L	5		문
				HOOKENE	T	18	5		묏
				4-CHTOBONENATHENATELHEB		J/gr		2	å
				DIETHYLPHTHALATE		F8/L	4	2	ð

IR = not reported, ND * not detected, IP = in If = hold time exceeded

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· V27-040609-JRR-01W

mple Round Number - 13; Groundwater Elevation - 578.14

imple Round Number = 12; Groundwater Elevation = 579.87

uple Round Number + il; Groundivater Elevation - 578,13

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VISTEO: ROE PLANT
POST-CICLOURE GROUNDWATER MONITORING
DETECTION MONITORING PHASE

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Lab Parameters	Seni-Volatiles (8270)	BUTERICALPHINIVIE BENZIDINE H'OGENTHENE DI-N-BOLLIEHLENE CVEREZOIE CVEREZOIE	181 181 181 181 181 181 181 181 181	5.0 10 5.0 5.0 5.0 5.0 5.0	CN CN CN CN CN CN	
		PHENYALHIBENE REXYCHTOBOBENZENE +BYOWOSHENAITSHEK H-MILKOSODILHENAI/VPRINE	1/8 H B/L H8/L H8/L	5.0 5.0 5.0	dN dN dN	
		I'S-DIMENATHADIKYZINE +MILIKOYNITINE	Uaits µg/L µg/L	Detection 20 5.0	QN QN	1200 X 200 X
			Elevation = 577.1	Sample Container No.	V27-021230-JRR-05W	r Elevation = 578.73
-10		Visteon	Round Number * 9; Groundwater Elevation = 577.1	nple Set Dute(s) Collected No.	12/30/02	Round Number . 10; Groundwater Elevation . 578.73

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 GN< V27-040609-JRR-01W V27-041227-JRR-05W mple Round Number - 12; Groundwater Elevation - 578,87 ample Round Number " 13; Groundwater Elevation = 578.14

V27-031208-LK-04W

imple Round Number - 11, Groundwater Elevation - 578.13

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POST-/ TRE GROUNDWATER MONITORING BASEL.

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	V .			Field Parameters	Imeters	a	Dissolved Metals (6020)	d Metal:	(6020)		375 901	9010B 7196A	3										Vola	Volatiles (8260)	ĝ										
ample Ro	VISTE	rteon.		Hq	гьесніс соиристуисе	CADMIUM	СНВОМІЛИ	СОРРЕК	TEVD	NICKET	SULFATE TOTAL CYANIDE	HEXAVALENT CHROMIUM	DICHTOKODILFNOKOMETHYME	СНГОВОМЕТНАМЕ	AJAATCHI OBIDE	эмантамомояв	СНГОУОЕТНУИЕ	VCROLEIN .	Тисньокогьоометнаме	1,1-DICHLÖROETHENE	, VCEATONITAILE	Юрометнаме	МЕТНУТЕМЕ СИГОВІDE	ATATADA JYWIV	САКВОИ ВІЗПЕНБЕ	MTBE ATTENDED TO THE TENTON OF	1/1-ріснговоеднуме	3-ВЛТУИОИЕ	сіз-1,2-рісньокоетнеме	вкомоснгокометныме	СНГОКОЕОВМ	2,2-DICHLOROPROPANE	1,2-рісні овобтиля	1,1,1-TRICHLOROPENE 1,1-DICHLOROPROPENE	
roundwa	Groundwater Elevation = \$76.56	= \$76.56	Units	8	μS/cm @ 25° C	7/8н	7/8H	η/Zπ	Hg/L H	Hg/L m	mg/L µg	hg/L mg/L	A HgA	L µg/L	J/gr	πg/L	hg/L	Hg/L	T/Sti 7/Sti	/L µg/L	T pg/L	Hg/L	Hg/L	HB/L p	Hg/L	HB/L HB/L	1/8rt	L µ8/L	H&L	µ8/L	1,81	Hg/L	Hg/L Hg	Hg/L Hg/L	
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mple Ro	und Number	= 3; Groundwater Elevation	= 577,85							-	-	+	\downarrow				1	1	\dashv	\dashv	_			7	\dashv		1								
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-	5/30/01	F66-053001-DAB-03W		7.14	2510	0.54	£	Q		- 9	1,400 ND	2	2	É	Ę	Ę	5	62		1	\vdash	- }-	1	⊢	ļ	-	 -	Ιŀ					$\ \cdot\ $	1	1 [
2	10/05/5	F66-053001-DAB-04W		7.15	2230	Q.	皂	Q			┸	+			Ę	+			-	-1-	2 5	-+-	₹ !	_			-	-	9	2	2			원 원	<u> </u>
ample Rc	und Number	ample Round Number = 5; Groundwater Elevation ==	= 572.68].		:		┚	1						-1	-1	-	-1		2	2	2		2	2	Q.	g	g	g	모 원	<u>8</u>	
-	10/5/6	. F66-090501-KN-03W		8.2	549	Q	10	Ö		- ₽	1,000 ND	5	2	2	2	Ę.	GX	CZ	CZ CZ	2	2	Š	9	1	⊢	- }-	- 1⊢	H				-	-	łŀ	1 1
2	10/5/6	F66-090501-KN-04W		8.2	5,69	문	7.6	2		2	1	+	+		£	-+-	+	+	+-	+	+	2 9	2 5		-		-+-		2	2	2	-+		원 원	
ample Rc	and Number	unple Round Number # 6; Groundwater Elevation	= 578.03						TANKE PARTY	i	۵.	1	4	-1		!				-	-1	2	2	2	2	2	2	8	2	2	g	<u>2</u>	Z Q	e e	
-	10/92/21	F66-011221-JRR-01W F66-011226-JRR-05W		NA A	1203	g	£	£		2	1,000	N 9	2	2	2	£	2	2	2	5	Ş	Ę	. 5	5		5	<u> </u>	-		-		-	⊢	I }	
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-	2/28/02	F66-020228-JRR-04W .		7.1	2010	S	12.0	Q		9	1 200	2	2	5	Ę	5	1	-	-	-	-	- ⊩-		 -	F	! -	l F	ŀ			1			1	1 1
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ample Ro	and Number	ample Round Number = 8; Groundwater Elevation	- 579.53									1		Ž	Ž.	2	2	Z Q	<u>원</u>	2	2	2	Q Z	Ω	Q.	ON ON	2	2	£	£	8	£	9	S S	_
-	6/10/02	F66-020610-KN-07W		8.9	1491	£	2	8		S S	1,200 ND	Q Q	Ω Q	S	g	Ð	S	Q	ON ON	Q. Q	Q.	Ę	. 5	CZ	C Z	1 G	92	I [-]		1 I-	I ⊢	┨┝	-{ }-	1 [
2	6/10/02	F66-020610-KN-08W		6.8	1491	£	Q.	g		<u>-</u>	1,200 N	S S	2	2	S	2	2	2	+-			+	É		+		+	2 2	2 5	2 2			2 :		
R = not re I = hold ii	sported, ND = 1	NR = not reported, $ND = not $ detected, $IP = in $ progress, $UI = bold $ time expeeded	s f														'	1:	-	-∤		_		-1	-	}		_	2	2	2	2		2	

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POST-C TRE GROUNDWATER MONITORING BASELL AONITORING PHASE PCW-11

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10 10 10 10 10 10 10 10	Muller Round Number CCARBON TETRACHLORDE BROMODICHLOROPROPROPENE BENZENE BROMODICHLOROPROPROPENE CIS-1,3-DICHLOROPROPROPENE BENZE BENZENE BENZENE BENZE BENZENE BENZENE BENZE BENZENE BENZ
C	- 576.56
Characteristic Char	
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C	ON ON ON ON ON ON ON ON
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Not Not	F66-010125-MPW-01W
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N	F66-053001-DAB-03.W CA ND ND ND ND ND ND ND ND ND
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Columb C	rt = 6; Groundwater Elevation = 578,03 F66-011221-JRR-01W
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A	<u>.</u>
C	F66-020228-JRR-04W K K ND
ON ON ON ON ON ON ON ON	GN GN GN GN GN GN GN
GN GN<	er = 8; Groundwater Elevation = 579,53.
CN	P66-020610-KN-07W ND
	2 614002 F66-020610-KN-08W ND

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POST-C RE GROUNDWATER MONITORING BASELL AONITORING PHASE

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İ		FUORENE	L HB/L	2,5	. +	+	2	2			2	Ž		2	2	1 2			2	8	-	\vdash	2	1	
		2,4-DIMITROTOLUENE	L µg/L	- S	-		2	2	-		S S	5	⊣	S C	2			-{ }	2	£	_	\vdash	2	15	-
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		3-NITROAVILINE	T HB/L	28	2	+	2	2	+		S	2			2	5	-	-1 F	2	9		 -	Z	. 2	+
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1		2,6-DINITROTOLUENE	mg/L	5.0	Ş		2	2			£	£	—I i	- 1	g	2			2	8			2	S	-
		1,3-DINITROBENZENE	- Hg/L	5.0	ž	-	2	2			Ω Ω	2	1		2	Z	-	-1 ⊩	8	8			2	Š	-
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		2-NITROANILINE	H8/L	50	Ę	+	2	2			8	£	-		2 N	S		1	Ž	g			द्र	2	╫
		з-снгокоихінтнагеиЕ	1/8rt	70	12	+	2	£	2	_	Ð	2	-11			S	+	┇	g	g		2 2		g	+-
	8270)	HEXACHLOROCYCLOPENT ADJENE	H 8/L	2.0	g	+-	2	g	2	4	2	見	-4 }	-	2	2	+	┨ ╂╌	2	2		2 5	-	2	2
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	mi-Vol	S-METHYLUAPHTHALENE	17/8r	50	呈			2	2		2	2			2	ž		┨┞	2	2	1 F	2 2		£	2
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		віз(2-СНГОВОЕТНҮІ.)ЕГНЕВ	L FEAL	5.0	2	2	-11	2	2	4	2	2	4 F	2 5		S O	Q			<u>£</u>	ļ-	2 2		2	g.
		VAITIAE	T µe/L	8	2	2		2	2	-	2	£	∤ ⊩	2 5		S C	g			<u>Q</u>	-	2 2		2	2
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	_	и-ипкозоріметнуг Аміие	L µg/L	5.0	2	2	-1 1	2	£	-	2	2	- 1 ⊩	2 5	-1	2	£.	2		9		2 2	-	g	S
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	Volatiles (8260)	НЕХАСИГОВОВОТАБІЕИЕ	L Hg/L	5.0	2	g	┧╏	<u>8</u>	8	4	2	Ŕ	∤	2 2		2	Ω Ω	5	-+-	2	2			ė.	£
	Volati	1,2-DIBROMO-3-CHLOROPROPAUE	7/an 1	0.1	2	2	┨┞	2	2		2	S S	2	- -		2	9	Ę		2	5		-	Q Q	g
		N-BALAFBENSENE	L µg/L	1.0	QN	2	11	2	2	-	2	2	2		-	g	£	£		2	2			2	見
	Ш	1'S-DICHTOKOBENZEME	µ8/L	1.0	QN	g		2	2		2	2	5	2	1	Q	£	2		2	Ę	2 2		g	g
٠. ٠			Units	Detection Limit			= 577,80 .			577.85			£79.08		572.68			578.03			/778/G		= 579.53		
	• • •			<u>o</u>	<u>₹</u>	7.W	atton	2W	3W	ation	¥ 1.8	75.W	ample Round Number = 4, Groundwater Elevation = 5:	₩	Sample Round Number = 5; Groundwater Elevalion = 57.	<u>_</u>	*	W W	* *	Sample Round Number 7: Cround 1:00	¥ Kilon		vation	Mι	<u>*</u>
				giner N	1.W-0	LW-0,	er Ele	T.W-0.	T,W-0.	er Eler	4PW-0	4FW-0	AB-0)AB-0	er Elex	KN-03	KN.9	RR-01	18.8-0.	IRR-O	RR-0	1RR-05	er Ele	KN-0,	WN-0
				Sample Container No.	F66-000320-JLW-01W	F66-000330-JLW-02W	= 2; Groundwater Elevation	F66-000809-JLW-02W	F66-000809-JLW-03W F66-000810-JLW-03W	=3; Groundwater Elevation	F66-010124-MPW-01W F66-010125-MPW-01W	F66-010125-MPW-02W	F66-053001-DAR-01W	F66-053001-DAB-04W	adwate	F66-090501-KN-03W	F66-090501-KN-04W	1221-)	F66-011221-JRR-02W	F66-011226-JRR-06W	F66-020228-JRR-04W	F66-020228-JRR-05W	ndwati	F66-020610-KN-07W	F66-020610-KN-08W
		UO.	6.56	Sampl	99-99	00-99	Srou	86-99	66-00	Groun)[0-99	66-01	Groun 66-05	20-99	S O	F66-09	F66-09	F66-01	10-99	F66-01	99-05	66-02	Grou	F66-0.	F66-0.
	1 2 - 2 *****	ste	roundwater Elevation = 576.56			-	r=2;	-		r = 3;	-	14	# H	12.	11 = 5			î	\perp				Sample Round Number = 8; Groundwater Elevation		_
		5	leyatto	Date(s). Collected	3/30/00	3/30/00	Numb	8/9/00	8/9/00 through 8/10/00	Yumb	1/24/01	1/25/01	5/30/01	5/30/01	Vumb	10/5/6	9/5/01	12/21/01	12/21/01	12/26/01	2/28/02	2/28/02	Aum	6/10/02	6/10/02
PCW-11		VISTO	uler E	ä छ	37	3/2	Sample Round Number	8	æ 4∃ % 1,8	Round Number	3 2 5	i 🖺	5/5	5/2	Duno	6	à	12	2 2	12	2	27.	Dung	9	/9
C.		September 1997	wpun	Set No.	_	2	ple R		۲.	ampte Ro		2	- ple R	2	nle R	-	2	1	2	nge 8	_	2	Ple R		2.
<u>~</u> .		Sa 83	_ မို	2			San			\$ап	<u>. </u>		z	<u> </u>	ž.	l			<u> </u>		L		Sal.		

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POST-C "TRE GROUNDWATER MONITORING BASELL AONITORING PHASE

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ŀ		BENZO(CHI)\FEKATENE	L µg/L	5.0	5	-		2		_	. ₽	2		Z		-	2	2		g 2	2	1	Q ²	-	-1	2	
	-	DIBENZO(V'H) VMLHBYCENE	L Jug/L	5.0	Ę			2	8	_	S	8		S			S.	2	-	2	2	-	2	+		8	웃
	1	INDENO(1,2,3-CD)PYRENE	L Hg/L	5.0	Ę		4	g	 	_	2	2		2			8	g		2	2	-1	2	+	-1:	. S	2
		BENZO(V)PYRENE	μg/L	5.0	12	1	Ⅎ.	2	2	_	2	£	4	2			£	2		£	2]	. ₽	+	- ∮	S	皇
		BENZO(K)ŁTNOKYNIHEME	µg/L	5.0	[2			£	£	_	S	R]	2		ŀ	Ø.	Ê	l	g	2		2	+	_	2	£
		BENZO(B)ŁTNOKYMIHENE	J/gri	5.0	12	B		£	ð		£	1 8	1	2	S		g	2		ž	£		£	2		g	£
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1		DICACTOHEXAT MILHVIVLE	ue/L	5.0	2	2		£	용		£	2	ŀ	2	身		원	2		£	£		9	身		县	£
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	(0/2	BENZO(A)ANTHRACENE	ug/L	5.0.	₽	2		£	見		2	2	7	身	皇		욧	身		£	夏	1	Ź	2].	身	皇
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ab Parameters	Semi-Volatiles (8270)	BOLKEBENZKEHHALATE	1/8rl	5.0	2	£	11	£	£	1	S	身	1	9	2		£	見		8	Æ	1	£	윤	1	2	Ð.
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		BENSIDINE	ng/L	5.0	£	兒	11	£	2		£	皇	1	S	g	.	£	2	l	Ð	£		£	見		Q.	£
		ELUORANTHENE	18%T	-0	g	12		£	- g	1.	9	- <u>§</u>	1.	Ð	見	-	욧	2		ð	£	1	É	£	1	9	£
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			ng/L µ	20 5	9	Q Q	-	2	2		Q.	<u></u>		QN QN	2	- 1-	9 9	-1	⊢	<u>2</u>	2		Q.	Q.		<u></u>	9
		4-NILKOVNITINE	- 3		Z	, Z		2	4		2	Z (4)		2	2		2 /			2	2		2	2		2	
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 				o Z	<u>×</u>	72.W	vatton	72W	M£ M£	vatfon	W10	F66-010125-MPW-02W	vation	. W.C	<u>₹</u>		3 ×	Varion	ě	2,4%	. M.9	vation	¥	λS	vatlor	M.	
				ainer	JLW-C	JLW-C	a l	J.W.	11.W-0	er Ele	MPW- MPW-	MP.W.	er El	DAB-	PAB.		2 2 2 2 2 3	1	JRR-C	JRR-0	IRR-0		JRR-0	JRR-0	iei E	KN	KN O
		Visteon	3.P	Sample Container No.	F66-000330-JLW-01W	F66-000330-JLW-02W	ndwa	F66-000809-JLW-02W	F66-000809-11.W-03.W F66-000810-11.W-03.W	ndwa	F66-010124-MPW-01W F66-010125-MPW-01W	F66-010125-MPW-02W F66-010125-MPW-02W	nawa	F66-053001-DAB-03W	F66-053001-DAB-04W		F66-090501-KN-03W	ndwa	11221	F66-011226-JRR-05W	11226	ndwa.	F66-020228-JRR-04W	F66-020228-JRR-05W	BMDG	F66-020610-KN-07W	F66-020610-KN-08W
		ō 🐪	76.56	Samp	F66-00	F66-00	ē 5	F66.0	F66-00 F66-00	Grou	10-99	99-01	ē	F66-03	F66-03		1.66-0	Ę.	F66-0	F66-0	F66-0	ě	F66-0	F66-0	흥	F66-0	F66-0
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914	1 945. . 121.	S #	evalle	lte(s)	3/30/00	3/30/00	2	00/6/8	8/9/00 hrough 8/10/00	4mm	1/24/01	1/25/01	E E	5/30/01	5/30/01	100	9/5/01	Yumb	21/01	12/26/01	26/01	副	2/28/02	2/28/02	餇	20/01/9	6/10/02
PCW-11		VISTEO	Froundwater Elevalion = 576.56	Date(s) Collected	€.	£6	ampie Kound Number = 2; Groundwater Elevation = 577,80	60 E	8/9/00 through 8/10/00	Sample Round Number = 3; Groundwater Elevation =	¥ ¥ }	: S	imple Round Number	%	2 5/30/01 F66-053001-DAB-04W	ľ	6	ound 1	. 12/21/01 F66-01/221-JRR-01W	12 12	2 12/26/01 F66-011226-JRR-06W	Duno	7	77	ample Round Number = 8; Groundwater Elevation	9	2 6/10/02
*	1.2	ple Rc	npqw	Set No.		7	ž		2	ple R		2		_	2		2	ple R		_ T	7	#[#		2	He K	<u>.</u> ,	2
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POST-CLC. — GROUNDWATER MONITORING DETECTION MONITORING PHASE TROE PLANT VISTEON

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	Field Parameters	Visteon	mpte Round Number = 9; Groundwater Elevation = 577,61,	Dair(s) Collected. Sample Container No. Detection	Limit	-021230-JRR-06W 7.5	umple Round Number = 10; Groundwater Elevation = 578,77	V27-030611-JRR-06W	
		СИБОИЛИМ СНЕОТНО СИБОИЛИМ	μS/cm μg/L μg/L.			1370 ND 7		2017	
	Dissolved Meials (6020)	TEVD COPPER	Hg/L Hg/L		23 3.0	2 Z			Q.
	. 328 (**************************************	Hg/L mg/L		25 5	ND 1,200		⊢	ND 1,200
	9010B	HEXYAVIENT CHROMINE LOTAL CYANIDE	ng/L ms	7	5 0.005	ON EN		1	S S
	7196A	СНГОВОМЕДНУИЕ ВІСНГОВОВІ-ГЛОВОМЕДНУИЕ	ms/L us/L us/l		0.5 1.0 1.0	ON ON			2 2
		AIAATCHTOKIDE	J/a !!	à	2	Đ.	-1	ŀ	Ş
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		лисн. околетиль Тисн. околети	5		5.0 1.0	ž	-1	.	9
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ters		УСКАГОМІЪТГЕ	1	7.6	0.7	12			Q
		порометнуве		HAL HE	1.0 5.0	9	-1		ON ON
	Volatiles (8260)	AJMAT VCETATE	_	181	8		2		Q Z
	(09)	ТВАМЗ-1.2-DICHLOROETHENE САВВОМ DISULFIDE		1/8t 1/8t	50	-1	מא		QN CN
		затм	╧	μg/L	0.5 0.1		Q.		CN.
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		С12-1"3-ріснговоєцнеме	\downarrow	T/SH T	9.	+	2		2
		ВКОМОСНТОКОМЕТНАЙЕ		J/8rf	2	1	2		2
		СНГОЙОТОВИ	+	# R/L	0:		<u>2</u> 8		2
ŀ		1.2-DICHLOROPROPAUE	+	Hg/L Hg	0	-1	e e		27
		3,1,3-TRICHLOROETHANE		HB/L HB/L	0.1	4	2		1
		1,1-DICHLOROPROPENE ,	-	L µg/L	0.1		문	1	1

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V27-031209-LK-04W

Sample Round Number - 12; Groundwater Elevation - 579,64

ample Round Namber - 13; Groundwater Ejevation - 578,74 6/8/04

V27-040608-JRR-05W

ATER MONITORING PHASE

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7	CLOSURE GROUNDWA
DETECTION	ON MONITORING PH
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	CVEBON IELEYCHFOSIDE	DIBKOMOMELHVAE	1,2-DICHLOROPÀOPAVE TRICHLOROETHENE	BROWODICHTOROWETHANE	CIS-1'3-DICHTOROBROBENE	4-METHYL-2-PENTANONE	1,1,2-тисн.оворкореле	LOFNEME	1,3-рісньоворкорлие	7-HEXVIONE	БІВКОМОСНІ ОКОМЕТИЛЬЕ	JELBYCHTOBOELHENE		CHTOKOBENZENE .	ЕПНУГВЕРСТЕИЕ	миоломояв	SLABENE	1,1,2,2-TETRACHLOROETHANE TOTAL XYLENES	1,1,3-TRICHLOROPROPANE	12OPROPYL BENZENE	BROMOBENZENE	и-ъвоългвеихеие	з-снговодоглеме	4-CHPOBOLOFINENE	1,3,5-TRIMETHYLBENZENE	TERT-BUTYLBENZENE	1,2,4-TRIMETHYLBENZENE	SEC-BOLATBENSEME	1'4-БІСНГОВОВЕИХЕИЕ 1'3-БІСНГОВОВЕИХЕИЕ	
und Number = 9; Groundwater Elevation = 577.61	Units µg/L	HB/L HB/L	Hg/L Hg/L	T/ari	1/8t T/8ti	1/84	T/Sit T/Sit	L Hg/L	Hg/L	Hg/L	HEAL HEAL	77	L BS/L	L'su	1/an	Van	1	l'an l'an	1	1					1			- 1 .	+	1
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und Number * 10; Groundwater Elevation * 578.77	_		-		-1	2	2		Q.		2	2	2	2	Q.	g	2	QN QN	2	문	2	g	Q.	ă	Ŋ	Q.	ð	2	S S	
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VISTEO ROE PLANT
POST-CLOSURE GROUNDWATER MONITORING
DETECTION MONITORING PHASE

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		-	·		Vota	Votatiles (8260)	. (09														Scmi	Volatife	Semi-Volatites (8270)	_											
	iteon.			1,2-DICHLOROBENZENE	I,2-DIBROMO-1-CHLOROPROPANE	HEXYCHTOROBUTADIENE	1,2,3-TRICHLOROBENZENE	1,2,4,774.CHLOROBENZENE	и-илукозоріметнук уміме	эмдиу	BIZ(T-CHTOROELHAT)ELHER VAITIAE	BIS(1-CHLOROISOPROPYL)ETHER	HEXYCHIOBOELHYME	N-MILKOSODI-N-DROPYLAMINE	MITROBENZENE	ІЗОРНОЙОИЕ	DIZ(5-CHTOYOELHOXA)WELHYME	1/2/4-TRICHLOROBENZENE	NAPHTHALENE	НЕХУСНГОВОЛТУРИЕЛЕ	4-CHLOROANILINE	2-METHYLMAPHTHALENE	PISCS-CHTOSOELHOXA)ELHVAE	3-CHTOBONYMILHYTENE HEXVCHTOBOCACTOBEALYDIENE	у-ипкоригие	Р СЕИРЬНІНАГЕ́ИЕ	DIMETHYLPHTHALE	1.3-DINITROBENZENE	ENEUJOTOATINIG-8.5	ACENAPHTHENE	3-MITROANILINE	DEBENCOLORYN	1,4-DINITROTOLUENE	4-СИГОКОРИЕЛУГРИЕЛУГЕТИЕК	DIELHAUDHLIÄYTYLE
Sample Round Number	Sample Round Number - 91 Groundwater Elevation = 577,61	on = 577,61	Units	781 187 1887 1887	VL 48	A. pg.	Tight 1	HØ'L	hg/L	H8/L H	hg/L hg	HE'L HE'L	/811	T/8tl	T/Sit	rg/L	#g/L	1.6/L	7	HELL	n N/an	HE/L H	II/K	ne/L ne/L	8	Lugh	1/211	Van	1/4	50 1	1/0	1,41	1 5		
Sample Ser No.	Date(\$) Collected	Sample Container No.	Detection	9	, 63	0.5	50.	5.0	5.0	2	20 5.0	0.8	20	8	5.0	5.0	2	, 2			۶	, ,			1 2		_			į ;		1	-	- L	-
	12/30/02	V27-021230-JRR-06W		2	2	2	2	Q	£		+-	-1-	+	-1-		9	4		,	+	Į.	+		-+	-1		-	7	?	2	-1	-	-	3	
Sample Round Number	Sample Round Number - 10; Groundwater Elevation - 578 77	ion = 578.77		-	-				1		4		-1			2	2	2	<u>}</u>	2	2	2	2	ON CIN	Q 2	a a	2	g	Q Z	Q.	Q.	Z Q	ON ON	2	2
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1	0.11/03	V27-030611-JRR-06W	CN ON ON ON
Sample Round Nu.	Sample Round Number - 11; Groundwater Elevation - 578,45	levation = 578,45	GN GN GN GN GN GN GN GN GN GN GN GN GN G
	12/9/03	V27-031209-LK-04W	The second of th
Sample Round No.	Sample Round Namber - 12; Groundwater Elevation - 579,64	levation = 579,64	N DN DN DN DN DN DN DN DN DN DN DN DN DN
1	6/8/04	V27-040608-JRR-05W	DN DN DN
Sample Round Nu.	Sampie Round Number . 131 Groundwater Elevation 578,74	levation = 578,74	GN GN GN GN GN GN GN GN GN GN GN GN GN G
7	12/28/04	V27-041228-JRR-02W	The second of th
NP m not reported	NR m to recorded ND a not Assessed 19		GN GN GN GN GN GN GN GN GN GN GN GN GN G

VISTEOI ROE PLANT POST-CLOSSAG GROUNDWATER MONITORING DETECTION MONITORING PHASE

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QN		QN		QN	
1 427-030611-JRR-05W	Sample Round Number = 113, Groundwater Elevation = 578.45	12/9/03 V27-031209-LK-04W	Sainple Round Number, #12, Groundwater Etevation = \$79,64	1 1 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Sample Round Number - 13; Groundynter Eteration - 578.74

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Sample Round Number # 149, Graundwater Elevation # 578.77

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	NR = 110(p	Jim Hall	Í
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POST-C TE GROUNDWATER MONITORING
BASELINE MONITORING PHASE
PCW-12

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	VISTEO T		₩d	SPECIFIC CONDUCTANCE	CADMIUM	СНВОМІЛМ	COPPER	PROKEI	NICKET	TOTAL CYANIDE	HEXYAVIENT CHROMIUM	DICHTORODIETNOROMETHANE	СНГОВОМЕПНАИЕ	AIAAFCHFOSIDE	BROMOMETHANE	СНГОКОЕЦНРИЕ	TRICHLOROPLUOROMETHANE	VCETONE	1,1-рісисокоєтнеме	VCKATOMILBITE	амантамодог	WELHAFENE CHTORIDE	AJNAT YCELYLE	СУВВОИ DISTITEDE	TRANS-1,2-DICHLOROETHENE	1,1-ысньокоетнаме	з-вптаноме	сіг-1'5-ріснговоелнеме	ВУОМОСНГОКОМЕТНУИЕ	СНТОВОЕОВМ	2,2-рісні окоркораиє	1,2-БІСНІ,ОКОЕТНАМЕ	1,1,1-TRICHLOROETHANE	ј, г-ртсидокоркореме
٠.	oundwater Clevation = 575.07	Unite	IS	µS/cm @ 25° C	hg/L	HB/L	пв/L	Hg/L. µg	ug/L mg/	Tett 1)	T mg/L	1/8rl	7/8n	Hg/L	1/8rt	hg/L µg	µg/L µg/L	T hg/L	T Hg/L	hg/L	μØL	Hg/L	T/8ri	ug/I. µ	ng/L us	us/L us/L	T/an 7	1/21	1/611	J/all	1/01		1,4	10
		Detection Limit			0,5	5.0	ង	3.0	25 5.0	٠	0.005	0:1:0	1.0	01	1.0	1.0 5.0	0.1	0 100	9.	1.0	1.0	!		1										9 9:
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	5/31/01. F66-053101-DAB-02W		6.65	2550	£ 2	6 -	<u> </u>	4 Z	8 8	8 8	2 2	9 9	2 2	包 5	2 2	2 2	2 2		1	2 5	2	2	-		1	\vdash	\vdash		g	£	9	e e	2	S S
ΞI	ber =	ation = 574.98			1	1	藍		-1	1	_	-1		-	-1	-1		2	2	2	2	Q Z	2	2 9	Z Q	ON ON	2	2	2	g	£	2	<u>2</u>	2
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f	9/10/01 F66-091101-KN-04W 9/10/01 F66-091001-KN-07W		7.2	1972	2	7.2	£	17	29 (.50	2	2	ð	8				-!			9 5	È	2 2	1			5 5	2 9	2 2	9 9	2				2
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_ <u>⊒</u> 1	nple Round Number = 7; Groundwater Elevation	tlon = 576.09												{		-1	[-1	-				\dashv		<u> </u>	-1	Q.	2	Ž,	£	<u> </u>	ę g	2	g
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. 1	6/10/02 FEG-020610-KN-12W		6.5	1587	9	2 2	2	ĮZ	₽.1 Q2	ļ	-	╅	-		-		-			2 5	2 !	2 !		-+-				\dashv	9	\dashv	-+	-		Q
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POST-C - RE GROUNDWATER MONITORING BASELIAL MONITORING PHASE

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POST-CLOSURE GROUNDWATER MONITORING
DETECTION MONITORING PHASE

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POST-CLOSUKE GROUNDWATER MONITORING
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mple Round Number - 9; Groundwaler Elevation - 576,31	ı, .	Units µg/L	Jan Jan	n 1/Au	S/L µg/L	1,81	II.S/L	1	Lev.	1/2.11	7. 110/1			1					1		-	╁	+	\dashv	\dashv	_	_	_						
No. Date(s) Collected	Sample Container No.	Detection			-1						201	1 28 1	7 20 7	1/8/1	T/8H	1,61	μg/L	μg/L	HB/L	1/2	hg/L	1/8/I	Rg/L µ	1/8rl 1/8rl	A HEAL	L HB/L	L KE/L	1/8x1	18	Hg/L	HB/L	1/84	18/1	
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VISTEO ROE PLANT
POST-CLOSURE GROUNDWATER MONITORING
DETECTION MONITORING PHASE

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VISTEO ROE PLANT POST-CLOSORE GROUNDWATER MONITORING

DETECTION MONITORING PHASE

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DI-N-OCTYLPHTHALATE

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3,3-DICHLOROBENZIDINE

CHEASENE

ВЕИХО(А)АИТНЯАСЕИЕ

LASEME BENZIDÍNE FLUORANTHENE

Semi-Volatiles (8270) Lab Parameters

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POST-C REGROUNDWATER MONITORING BASELIL WONTORING PHASE

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VISTEON ROLF PLANT
POST-CLOSURE GROUNDWATER MONITORING
DETECTION MONITORING PHASE

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VISTEO ROE PLANT
POST-CLOSURE GROUNDWATER MONITORING
DETECTION MONITORING PHASE

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VISTEON ROE PLANT
POST-CLOSURE GROUNDWATER MONITORING
DETECTION MONITORING PHASE

VISTEG ROE PLANT POST-CLOSURE GROUNDWATER MONITORING DETECTION MONITORING PHASE

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mine Round Number - 9; Groundwater Elevation - 572.8	Units	uz/L	1/20	1/40	" 1/011		_	1,000		•	1				+	1	1		1							
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VZ7-031211-LK-03W

Sample Round Mumber - 12; Groundwater Elevation - 273.87

POST-C RE GROUNDWATER MONITORING BASELL CARONITORING PHASE



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unple Ro	VIST	/Isteon		Нq	SPECIFIС СОИDUCTANCE	CYDMINM	. снвомилм	COPPER	FEVD	NICKET	SULFATE	HEXVAVITENT CHEOMIUM LOLYT CAVNIDE	DICHTORODILTOOROMETHANE	СНГОЙОМЕТНАИЕ	VINYLCHLORIDE	вкомомецичие	СНГОКОЕТНАИЕ	VCKOLEIN	ТИСНГОКОЕГЛОВОМЕТНАМЕ))-DICHI OBOETHENE VCÉLONE	1,1-DICHLOROETHENE ACRYLONITRILE	IODOMETHANE	MEJHATENE CHTOKIDE	VINYLACETATE	CARBON DISULTIDE	ткамз-1,2-рісньовоетнеме	AdTM	1,1-ріснговоєтнайє	3-БИТАИОИЕ	сте-1,2-ртсньовоетнеме	CHLOROFORM BROMOCHLOROFORM	2,2-DICHLOROPANE	1,2-ріснговоєтнаме	1,1,1-TRICHLOROETHANE	1,1-DICHLOROPROPENE
roundwa	roundwater Elevation = \$71,64	n = \$71,64	Units	SI	µS/ст@ 25° С	re/L	Hg/L	HEAL	μe/L μ	µ8/L m	g/L	μg/L mg/L	/L µg/L	L µg/L	Hg/L	ng/L	Hg/L	μg/L μ	HeAT.	Hg/L µg	1/8rd	Hg/L µg/L	L µg/L	T/Sit	Hg/L	ug/L	Hg/L	i j	ne/L u	n T/an	uz/J. no	1/011	1/01		1
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Ē,	. : .				Sample Container No.	F66-000329-JLW-05W F66-000331-JLW-06W	F66-000331-JLW-07W Groundwater Elevation	P66-000809-JLW-07W F66-000810-JLW-01W	F66-000809-1LW-08W F66-000810-1LW-02W	3; Groundwater Elevation = F66-010124-MPW-07W	F66-010124-MPW-08W	F66-053101-DAB-05W	F66-053101-DAB-06W	# 5; Groundwater Elevation #	F66-090701-KN-06W	Eleva	F66-121901-JRR-03W F66-121901-JRR-04W	= 7; Groundwater Eleyation =	F66-020304-MHZ-09W F66-020307-KN-02W	F66-020304-MHZ-10W F66-020307-KN-03W	= 8; Groundwater Elevation	F66-020610-KN-15W F66-020611-JRR-02W	F66-020610-KN-16W F66-020611-JRR-03W	gord ii
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ц Z			Б 	-2	Sample	99-000	06-000 Groun)00-99 99-000	99 - 000	S6-010	010-99	56 053	56-053	3roun	,60-99	roun	66-121	Joung	96-020	66-020	roun	20-99	96-020	lected,
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BASELI	: - ست		Visteon	evation	Date(s) Collected	3/31/00	3/31/00 d Number	8/9/00 through 8/10/00	8/9/00 through 8/10/00	1/24/01	1/24/01 4 N	5/31/01	5/31/01	d Number 9/7/01	101/1/6	IIII	10/61/21	umber	3/4/02 3/7/02	3/4/02 3/7/02	umber	6/10/02	6/11/02	, ND =
Ц.	7-14		N punc	iter El	ది శ్రా (で自労	Round Number = 2; Groundwater Elevation	.8 .1 .1 .1	thr 8	172	1/2	S/S	5/3	76 97	7%	and S	121	Round Number	37	2, E	Round Numb	55	6/1	ported ime ext
	PCW-14	•	VIST	Groundwater Elevation = 571.64	Set		2 Sample Ro		7	1 1/24/01	2 1/24/01 F66-010124-MPW-08W	-	2	I 9/7/01	2	ample Round Number = 6; Groundwater Elevation	2	ample Ro	÷	2	ple Rc	_	2	NR = not reported, ND = not detected, IP = in progress, UI = hold time extreeded
	Д.		Sam	6	ā	<u>;,</u>	San				_ 5	شتا				ZZ _		San		-	Sample			ξ.

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					Š	Volatiles (8260)	(8260)																Carri Websites		(0000)										1		
unple Roc		Visteon"		1'5-DICHTOKOBENZENE	N-BOLAFBENSENE	1,2-рівкомо-з-сигокогкогай	нехуснтововатуриеме .	1,2,3-тяйсньоковеихеие	1,2,4-TRICHLOROBENZENE	и-илткозориметнугьмире	PYRIDINE	ENLINA THE TANK TO BE CASE	ыз(5-снговоізоьковлі)еннек віз(5-снговоеннаг)еннек	HEXACHLOROFTHANE	N-NILKOSODI-N-ÞKOÞAFAMINE	ицковеихеие	ІЗОЪНОКОИЕ	BIS(2-CHLOROETHOXY)/METHANE	1,2,4-TRICHLOROBENZENE	NAPHTHATENE	HEXYCHTOKOBOLYDIENE	4-CHLOROANILIVE	з-метнулиритнателе	BIS(3-CHTOBOELHOXX)ELHVNE	нех у снговосустовентельне	7-СНГОЙОИАРНТНАТЕИЕ	2-NITROANILINE	РЕМУБНИНАГЕМЕ	DIMETHYLPHTHALATE	1,3-DINITROBENZENE	2,6-рімтротогиеме	ACENAPHTHENE	э-иптколицие рівеихогикли	2,4-DINITROTOLUENE	FLUORENE	нентоковиемагьнек	DIETHYLPHTHALATE
roundwai	Froundwater Blevation	=571.64	Units	n T/SH	μα/L μ	HB/E	1 7/8ri	Hg/L	l 7/8d	µ8/L µ	ng/L	hg/L ju	gi T⁄gii	Hg/L µg	us/L ps/L	T HB/T	T HB/L	L HØ/L	1/8# 1	hg/L	T/arr	H&L	rg/L	T/Ant	HB/L	Hg/L	17/811	Hg/L }	Hg/L	1/8n	Hg/L	ng/L n	J/8n	7/ ng/L	T Hg/L	_ =	T ms/L
sample Sei No.	Date(s) Collected	Sample Container No.	Detection 1	0,1	0:	0:	0.80	5.0	5.0	5.0	8	20 5	5.0 5.	5.0 20	20	5.0	5.0	8	୍ଷ	0.2	5.0	20	2	5.0	5.0	8	8	0%	20								
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2 mote Re	3/31/00	2 3/31/00 F66-000331.JLW-07W	H.	9	9	g g	9	£	見	£	9	9	Q Z	見	12	Q Q	2	2	2	9	足	g	£	9	2	£	9	Ę									-
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- 7	10/16/5	F66-053101-DAB-05W F66-053101-DAB-06W	* Z	2 2	2 2	2 2	S S	9 5	2 5	9 9	Q Q	ON C	\vdash	<u> </u>		\vdash			1	1	9	S	.2	₽	9	윉	9	9	<u>2</u>	Q.	QN QN	QN	QN QN	QN C	QN C	2	2
mple Ro	ample Round Number	= 5; Groundwater Elevation	± 555.27	4	_		{	-1		-	[[ON ON	2	2	2	2	2	£	£	9	g	2	욧	9	2	Ð	S.	2	ð	2	9	S S	2	2	2	2
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	6/11/02	F66-020610-KN-15W F66-020611-JRR-02W		9	£	P P	£	£	9	£	9	Z Q	QN QN		2	2	<u> </u>	9	5	1	2			[1 i	1 ⊢	┨┞	┨ ├-	┨┠┈	Ⅎ Ͱ	-1 H	-l -	-1 1-	41	4.
2	6/10/02	F66-020610-KN-16W F66-020611-JRR-03W	4	2	e E	2	見	2		9		Z Q	-							2 2	2 2	2 2	2 2	2 2	2 2	2 6	9 9	2 5	2 2			-					
(R = not rej J = hold tin	IR = not reported, ND = 1 JJ = hold time exceeded	= not reported, ND = not detected, IP = in progress, = hold time exceeded		1	1	1	1	1	1	1	1	-	-	-	-	4			i								 -			2	2	2	ON ON	2	2	9	9

POST-C RE GROUNDWATER MONITORING BASELL AONITORING PHASE

	BENZO(CHI) LEKATENE DIBENZO(V'H) VALHKYCENE	Hg/L µg/L	5.0 5.0	Q Q	GN GN	! !	Q Z		9	+	ON ON	ON ON	ON ON	GZ CZ		4	QV QN	S S	- ∤	QN QN		-1	C N		<u> </u>
	INDENO(1,2,3-CD)PYRENE	T/8n	5.0	Q.	2	-1 }	2 2		9			윘	S	Ę		-1	£	N ON		Q.	2	-	5	+	 9
	BENSO(V)bakene	Hg/L	5.0	£	£		£ 5	}	1	2 5	9	£	£	Ę	2		2	S		£	9		Ç	1 5	2
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	BIS(3-ELHATHEXAT)bHILHYTYLE	ηg/L	5.0	24	_ ≅		2 2		20	£		Ð	£	2	見		g	ã	1	Ė	£	1	£	É	3
	3'3-DICHTOFOBENZIDINE	µg/L.	8	見	-2		2 2		2	2	7	9	2	£	£		2	ĝ		£	£	1	£	£	3
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ters (8270)	веихо(у) уилни усеие	1/8tl	5.0	9	兒		2 2		g	9] [9 !	2	2	£	11	문	Ð		£	ă	1	皇	£	}
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Lab Parame Semi-Volatiles	BOLKFBENZKI-BHLHATALE	µg/L	5.0 .	£	£	1	9		Ð	£		£ 5	2	£	2		2	£		£	£	1	2	£	! ;
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	1,2-DIPHENYLHYDRAZINE	J/Brt.	5.0	·8	9	£	. 2	7	£	₽		2 2	1	£	g.	1	2	2		g	Ð		Ę	ę	1
	4-MILKOYMITIME	µ8/L	20	₽	£	£	£	1.	£	Ð	5	2 2	1	£	£	9	2	2		2	£	[]	£	£	1
		Units	Detection Limit			25/1.49		= 571.34			= 572.32		555.17			18.805			=5/1.54			= 573.4			Particular September 1
1.	VISTEON	n=571.64	Sample Container No.	F66-000329-ILW-05W F66-000331-ILW-06W	ample Round Number = 2. Grand - 57	F66-000809-ILW-07W F66-000810-II W-01W	F66-000809-JLW-08W F66-000810-JLW-02W	ample Round Number = 3; Groundwater Elevation =	F66-010124-MPW-07W	F66-010124-MPW-08W	1 5/31/01 F66-053101-DAB-05W 1985-132	F66-053101-DAB-06W	aniple Round Muniber = 5; Groundwater Elevation.=	#66-090701-KN-05W	ample Round Number & C. Control of St.	E66.121901-TRP. 0310	# Co-NYC-100171-001	F. Croundwinger Dieser	34/02 F66-020304-MHZ-09W	F66-020307-KN-02W	F66-020307-KN-03W	8; Groundwater Elevation	1 6/11/02 F66-020610-KN-15W 6/11/02 F66-020611-JRR-02W	F66-020610-KN-16W F66-020611-JRR-03W	(b)
† 	VISTEON	Groundwater Elevation	Date(s) Collected	12929 13/31/00	2 3/31/00 Interest	8/9/00 1 through	8/9/00 2 through 8/10/00	e Round Number	1/24/01	1/24/01	5/31/0[5/31/01	e Round Number	10/L/6	2 9/7/01	12/19/01	10/10/01	e Round Number	3/4/02	3/7/02	37/02	e Round Number	6/11/02	2 6/10/02 6/11/02	A Section of the second

VISTEO (ROB PLANT)
POST-CLOSURE GROUNDWATER MONITORING
DETECTION MONITORING PHASE

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Visteon			Hq	гьесилс соиристуисе	CADARUM	СНВОМЛОМ	COPPER	NICKET	SULPATE	TOTAL CYANDE	НЕХАУАТЕИТ СИВОМЛОМ	DICHTORODILTHOROWETHANE	CHLOROMETHANE	AIMAFCHTORIDE	вкомометнуме	CHTOROETHANE	ИЗТОХОЧ	TRICHLOROFLUORONETHANE	ACETONE 1,1-DICHLOROETHENE	ACRYLONITRILE ACRYLONITRILE	юрометнуме	МЕТНУТЕИЕ СИГОИDE	VINYL ACETATE	сувном discipline	твлия-1,1-рісні овоєтнєме	затм	1.1-ріснговоєтначе	Y-BUTANONE	сіз-1,2-рісньокоетнеме	ВКОМОСНІОКОМЕТНАМЕ	СНГОВОЬОВМ	3.2-БІСНІ,ОКОРКОРАИБ	1'5-DICHTOBOETHANE	1,1,1-TRICHLOROETHANE	I,1-DICHLOROPROPENE
mple Round Number # 9; Groundwater Elevation # 571.56	ion = 571,56	Units	ıs	kS/cm ;	1/21	ne/L u	I/AT 119/1	1/01	1/4/4	1	1 2				†	1						\perp	T	J	1		1	1	7		1	1	1	\dashv	_
Sample Set 1 Date(s) Collected		Detection							1_	-		, P.W.L.	7/38	Hg/L	7,84	1/21	#g/L	н8/Г µя	μg/L μg	HE/L HE/L	Tegal T	re/L	7,81	HB/L	Hg/L	µ8/L	#B/L	H&L I	7/81	Hg/L	7,81	HE/J. H	H8/17	HB/L	Hg/L
No.	ownpre Conginer No.	Limit .		* ***	0.5	5.0	25 . 3.0	ង	* ^ .	5.0	0.005	27	0.1	91	97	9	5.0	1.0	1.00	0.7	2	5.0	8	ŝ	9	5.0	2	5.0	3	0	9	0		6	5
172/03	V27-030102-JRR-03W		77	1604	Q	8.4	QN	2	1,300	2	:2	GN.	ź	ź	2	5	i i		1	+	4			1	1	1	1	+	1		1				,]
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6/12/03	V27-030612-JRR-03W		9	0000	67	⊢		1	⊢	- 1-	⊢	-		ļ		1	1							į											1
mpie Round Number - 11; Groundwater Elevation = 572.32	ition = 572,32			-	_	7	5	2	200	2		£	2	æ	g	2	2 E	2 2	원 원	묏	2	QZ.	ð	Q.	QN	Q	윤	2	2 S	9	QN	Q.	NO.	9	Q
12/9/03	V27-031209-LK-03W V27-031210-LK-01W		7.07	1408	No.	2	QN	S.	400	5	2	2	5	9	-	ļ	-	- 1-		-	-	. ⊢										1.	1	1 1	1 [
mple Round Number = 12 Groundwater Elevation = 573.37	ulon = 573.37				1	_					-1	3	3		2	2	a.		QN QN	2	2	2	ğ	g	QX	9	2	g	g	9	2	2	<u>.</u> 9	9	2
1 6/9/04	V27-040609-JRR-04W		ž	1174	2	1.5	5	Ž	136	2	1	Ŀ	` [-	H	. i⊢	1-	- 1-	-	ŀ	- 1												1	7
mple Round Number # 134 Groundwater Bieration # 572,15	ulon = 572.15			-	-	4			4	⊸ i	-1	2		2	2	2	2	9		e a	g Q	Q.	Q.	ð	Q	ð	ND	g	Q.	Q.	QN	QN	2 QN	5	2
12/30/04	V27-041230-JRR-04W V27-050103-JRR-03W		7.2	2560	9	S S	Q.	Q.	1,300	2	2	2	£	ç	Ş	£	5	1		\vdash			- 1			-		 -						╽╌┠	1 ,
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VISTEC KROE PLANT
POST-CLOSURE GROUNDWATER MONITORING
DETECTION MONITORING PHASE

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Lab Parameters Volatites (8260)

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1'4-DICHTOROBENZENE		1,8/1	2	£		Š	4	£		Š	┙.	9
1,3-DICHLOROBENZEVE		- HB/L	2	2		Š		2		Ž		S
SEC-BULKIBENZENE		- E	2	2		2		.₽		ĝ		문
1,2.4-TRIMETHYLBENZENE	_	- FB/L	2	2		Ę		QV	1	2		£
TERT-BUTYLBENZENE	_	H.	0.1	Įĝ		8		2		2		-QV
1,3.5-TRIMETHYLBENZENE	4	J/Sit	2	18		9		£		S	-1	N _O
4-CHLOROTOLUENE	4	- µg/L	2	2		S]	문	1	2		£
3-CHFOXOLOFNENE	1	T/AH	2	3		9]]	8		8]	2
N-PROPYLBENZENE	1	 - -	0.	2		ş] [2		Ş	1	2
ВКОМОВЕИХЕИЕ	_	L #8/L	0.1	g		呈] [2		문	1	8
ISOPROPYLBENZENE	-	L µg/L	2	2		2		9		£		2
1,2.3-TRICHLOROPROPANE	+	7 2 2	 0:	2		2		<u>₹</u>		S	┨┟	2
TOTAL XYLENES	- 1	L µg/L	97	ĝ		2		2		g.	┦┟	8
1,1,2-TETRACHLOROETHANE		L µg/l	2	2		ON C		9		S		Ę
\$TYRENE		1 Hg.	2	QN		2	-	2		QN	-	S .
MAOPOMORE	+	1 Jan 1	0.1	QV C		Q C	-	5		gN	-	2
ELHATBENSENE		1,20	0.1	QN C		S S	<u> </u> -	2		Q	1 F	2
CHTOBOBENZENE		1.661	1.0	N C		2	· -	2		QN C	l ⊢	9
TETRACHLOROETHENE		184	-i -i	g a	.	된	. ⊦	2	-	Ω Ω	⊢	2
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DIBROMOCHLOROMETHANE	8	;	0.1	Z Q	- 1	2	- 1-	9	H	Q Q	-	2
2-HEXYNONE	170		<u>-</u>	Z Q	. ⊩	2 9	- ⊩	2	- }-	g g	-	
1,3-рісньоворяме	1/21	-	2	2	-	2		_	· -	2	9	
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1,1,2-TRICHLOROETHANE	I I			<u>2</u>	- 1-		1		- 1-	2	9	-1
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4-METHYL-2-PENTANONE	17			2	- 1-	2	5	-	- 1	2	2	
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TRICHLOROETHENE		-	3 9	2	ç		2		5		92	
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BENSENE	7/81	9	1 5		2		9	1	S S	_	£	1
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		Sample Container No.	V27-030102-JRR-03W		V27-030612-JRR-03W		V27-031209-LK-03W V27-031210-LK-01W		V27-040609-JRR-04W	-	V27-041230-JRR-04W V27-050103-JRR-03W	
	71.56	San	V27	577.79	ķ	572.72	427	573.37	427	572.15	V27	١.,
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www.samera.com	water	00	1/2/03	dwate	6/17/03	dyate	12/9/03	dirace	6/9/04	dwater	12/30/04	17
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Ste	6	<u>.</u>		r = 10:		r= 11;		r = 12;		13		not de
<i>5 </i>	Aumbe	<u>.</u>		4gmp		Numbe		amb		vumbe.		d, NO
	uple Round Number - 91 Groundwater Revotion = 571.56	No.		pie Round Number - 10; Groundwater Elevation = 572.79	-	ple Round Number # 11; Groundwater Elevation & 572.32	-	ple Round Number = 12; Groundwater Elevation = 573,37	-	ple Round Number # 131 Groundwater Elevation # 572.15	-	= not reported, ND = not detected, 1P = in progress,
	nple }	5 .		nple F	-	ag l		병	;	ple R	.	100

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POST-CL STATE MONITORING

DETECTION MONITORING PHASE

				DIEJIAJTIAJIHVIVIJE +CHTOKOBERAVIJHERAJTEJHEK 5'+DIMIJKOJOFICEME 3-MIJKOVAJTIME VCENYKAJHEME	l) and	2	5.0 20 5.0 5.0 5.0 5.0 5.0	ON ON ON ON ON ON	ON ON ON ON			ON ON ON ON ON ON	GN GN GN GN GN GN	
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	Lab Parameters	Sani Walaille Control	0/78) Sameno A-mero.	HEXYCHTOBOCLGTOBENIEDBER BISG-CHTOBOCLHOXA)ELHYME J-WELHAI'NYBHLHYTEME +CHTOBOVMETINE HEXYCHTOBOPALYDEENE NYBHLHYTEME J-Z-Y-LHICHTOBOBENIEME	T 48/L 48/L 48/L 48/L 48/L 48/L 48/L	20 50 50 20 20 50	0.00 02 02 03 03	ON ON ON ON ON ON ON	מא מא מא מא מא מא פא	GN GN GN GN GN GN GN		ON ON ON ON ON ON ON	מא מא מא מא מא מא מ	
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PCW_14	+T-=) ·			Visteon"	Sample Set	No. Dute(s) Collected Sample Container No.	1/2/03 V27-030192-JRR-03W	Sample Round Number - 10; Groundigater Bievation = 572.79	1 1 V27-030612-JRR-033W Sample Round Number - 115 Groundwater Elevation = 572,32	12/903 V27-031209-LK-03W Samula Round Number 12/10/03	6/9/04 V27-040609-RR-01W	Sample Round Munber - 13; Groundwaler Blevation - 272,15	1230/04 V27-041230-JRR-034W V27-040103-JRR-03W V27-030103-JRR-03W V27-030103-JRR-03W	116 — Land times and the controlled, if a in progress,

VISTE - (ROE PLANT POST-CLUSURE GROUNDWATER MONITORING DETECTION MONITORING PHASE

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		DIBENZO(A.H)ANTHRACENE		T/ST	5.0	S.		QN	1	2		Q.	1	9
		INDENO(1,2,3-CD)PYRENE		7	5.0	£		9	1	g		Ω.	1	9
		BENZO(A)PYRENE		787	5.0	身	1	g	1	Q.		g		Q
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	1.	BENZO(B)FLÜORANTHENE		T.S.L	5.0	£	1	2		g g		2	1	욧
	1	DI-N-OCLAIBHLHVIVIE	5	181	2.0	9		9		g	ı	Đ.	ŀ	9
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		BIS(2-ETHYLHEXYL)PHTHALATE	5	1	5.0	2		9		2	ı	2		9
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'n	. (0/2	∌ЕИ ХО(А)АИТИАСЕИЕ	ns/L		٥.	Q.		g		Ę	-	2	.	9
unida	Ules (B	BIS(3-ELHATHEXAF)VDIBVLE	1/2		5,0	ð		٤		2	Ī	2		2
Lab Parantelers	Senti-Voluties (8270)	BUTYLBENZYLPHTHALATE	77,81		20	Ř		2	1	1				2
_	Sen	ьлиеие	7/84		0,0	9	- 1	ş	9	,		Ž	-	2
		BENZIDINE	rg/L		۵	夏	-	2	15			į		2
		FLUORANTHENE	187	:	3	县	4	2	£		1	2	5	Į į
		DI-N-BOLYLPHTHALATE	1,8,1	-	2	9	9	2	Ę		5		. 5	
		CVERVOTE	167	5	3	윘	ġ	Ì	2	1	9	—Į.	5	1
		УИТНВАСЕИЕ	n8/L	5	;	9	Ę	7	. 2	1	5		Ş	_
		DHENVALHBENE	ng/L	5	;	2	Ę		9		C 2		É	
		HEXYCHTOROBENSEME	T/git	5	3	g	£	!	2	1	S	-4	9	┧ .
		1-ВИОМОРНЕМУЛИТЕЛИЕР	hg/L	5		2	19	1	£	1	ű,		2	
		и-илиозорьнеих) чиие	ug/L	9		2	2		£	1	2		£	1
		1,2-DIPHENYLHYDRAZIVE	Hg/L	0,5		2	£		2		Q	†	g.	
	. [4-VITROAUILINE	T/SH	28	1.9	Ž.	£		g		S.		2	
•			Units	Detection	Link					No. of the last of		New Presentation I		
			er Elevation = 571.56	lected. Sample Container No.	V27-030102-18 B-03W	tter Elevation = 572,79	35 V27-030612-JRR-03W	iter Elevation = 572.32	3 7 V27-031209-LK-03W 7 V22-031210-LK-01W	iter Bieration = 573,37	V27-040609-JRR-04W	iter Blevation - 572,15	1/03/04 V27-041230-JRR-Q4W	
		Visteon	Sample Round Nurhber = 93 Groundwater Elevation = \$71.56	No. Datc(s) Collected.	1	Sample Round Mumber - 10; Groundwater Eteration - 572,79	1	Sample Round Number - 11; Groundwater Eleration - 572.32	12/9/03	Sample Round Number # 12; Groundwater Bievatlon = 573,37	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Sample Round Number - 13; Groundwater Elevation - 572.15	12/30/04	NR = not reported, ND = itol detected, IP = in progress, UJ = Itold time exceeded

Post-Closure Piezometers

		,																																
	1		Jul		Octo			nuary		arch	Aug		Janu			pril	Septer		Febr		Marc		June		ember		mber		arch	June		otember	Novem	
	Top of	Ground	199	99		99		000		000	20	00	200	01		001	200	1		02	2002		2002		002		002		2003	2003		2003	2003	/3
Piezometer	Casing	Surface	water		water		water	1	water		water		water		water	1 1	water	1 1	water	1	water	- 1	water	water		water	1	water	Wa		water		water	
ID	Elevation	Elevation ¹	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev date	elev	date	elev	date	elev		ev date	elev	date	elev	date
PCP-1	585.94	583.6	567.22	7/2/1999	568.40	10/6/1999	565.54	1/11/2000	567.01	3/14/2000	566.44	8/2/2000		1/9/2001	566.23	4/26/2001	566.03	9/28/2001	566.28	2/27/2002	566.30 3/2	28/2002	566.06 6/4/20	2 562.77	9/6/2002	564.50	12/10/2002		3/26/2003 56		3 566.39	9/3/2003	566.20 11	1/25/2003
PCP-2	586.48	584.0	577.56	7/2/1999	575.92	10/6/1999	573.48	1/11/2000	575.43	3/14/2000	077.00	8/2/2000	576.91	1/9/2001	577.08	4/26/2001	576.70	9/28/2001	577.76	2/27/2002	575.91 3/2	28/2002	578.96 6/4/20	2 576.52	9/6/2002	0,0.00	12/10/2002			.14 6/10/200	3 577.79	9/3/2003	576.23 11	1/25/2003
PCP-3	586.33	583.5	575.94	7/2/1999	576.27	10/6/1999	573.63	1/11/2000	575.95	3/14/2000	575.99	8/2/2000	577.26	1/9/2001	578.42	4/26/2001	577.10	9/28/2001	578.19	2/27/2002	578.39 3/3	28/2002	578.34 6/4/20	2 577.15	9/6/2002	578.47	12/10/2002	577.77	3/26/2003 57	.64 6/10/200	3 578.20	9/3/2003	576.86 11	1/25/2003
PCP-4	589.99	589.4	573.78	7/2/1999	573.01	10/5/1999	573.95	1/11/2000	572.33	3/14/2000	572.56	8/2/2000	572.60	1/9/2001	572.22	4/26/2001	572.38	9/28/2001	572.23	2/27/2002	571.93 3/2	28/2002	571.83 6/4/20	2 570.40	9/6/2002	571.67	12/10/2002	571.40	3/26/2003 57	.79 6/10/200	3 571.87	9/3/2003	571.99 11	1/25/2003
PCP-5	588.54	586.7	565.24	7/2/1999	563.34	10/6/1999	566.04	1/11/2000	565.23	3/14/2000	565.39	8/2/2000	565.37	1/9/2001	565.42	4/26/2001	565.32	9/28/2001	565.72	2/27/2002	565.69 3/2	28/2002	565.72 6/4/20	2 562.41	9/6/2002	565.36	12/10/2002	565.49	3/26/2003 56	.77 6/10/200	3 565.64	9/3/2003	565.63 11	1/25/2003
PCP-6	587.45	585.1	568.11	7/2/1999	567.83	10/5/1999	565.35	1/11/2000	567.04	3/14/2000	566.55	8/2/2000	566.71	1/9/2001	566.44	4/26/2001	566.60	9/28/2001	566.81	2/27/2002	567.13 3/2	28/2002	566.54 6/4/20	2 566.59	9/6/2002	566.48	12/10/2002	566.26	3/26/2003 56	.24 6/10/200	3 566.45	9/3/2003	566.45 11	1/25/2003
PCP-7	588.09	587.7	568.49	7/2/1999	568.70	10/5/1999	565.95	1/11/2000	567.76	3/14/2000	567.21	8/2/2000	567.27	1/9/2001	567.73	4/26/2001	567.09	9/28/2001	567.48	2/27/2002	567.67 3/2	28/2002	567.16 6/4/20	02 564.52	9/6/2002	566.57	12/10/2002	565.37	3/26/2003 56	.37 6/10/200	3 566.25	9/3/2003	566.29 11	1/25/2003
PCP-8	589.14	585.9	569.96	7/2/1999	570.92	10/6/1999	566.94	1/11/2000	568.59	3/14/2000	568.42	8/2/2000	568.15	1/9/2001	568.05	4/26/2001	567.89	9/28/2001	567.69	2/27/2002	567.67 3/2	28/2002	567.46 6/4/20	2 567.60	9/6/2002	567.50	12/10/2002	567.23	3/26/2003 56	.32 6/10/200	3 567.38	9/3/2003	567.26 11	1/25/2003
PCP-9	592.65	590.8	571.12	7/2/1999	568.75	10/6/1999	566.61	1/11/2000	568.52	3/14/2000	569.70	8/2/2000	568.66	1/9/2001	568.68	4/26/2001	564.06	9/28/2001	568.59	2/27/2002	568.50 3/2	28/2002	568.64 6/4/20	2 567.95	9/6/2002	567.89	12/10/2002	568.05	3/26/2003 56	.14 6/10/200	3 567.72	9/3/2003	567.82 11	1/25/2003
PCP-10	590.19	587.9	569.14	7/2/1999	566.23	10/6/1999	568.19	1/11/2000	566.02	3/14/2000	565.66	8/2/2000	565.89	1/9/2001	565.78	4/26/2001	565.84	9/28/2001	565.75	2/27/2002	565.88 3/2	28/2002	565.55 6/4/20	2 565.82	9/6/2002	565.89	12/10/2002	565.83	3/26/2003 56	.78 6/10/200	3 565.68	9/3/2003	565.71 11	1/25/2003
PCP-11 ^{4,13}	590.37	587.7	578.10	7/2/1999	576.50	10/6/1999	572.54	1/11/2000	576.17	3/14/2000	577.34	8/2/2000	577.60	1/9/2001	578.84	4/26/2001	577.47	9/28/2001	578.48	2/27/2002	579.05 3/2	28/2002	579.71 6/4/20	02 577.43	9/6/2002	577.55	12/10/2002	578.32	3/26/2003 57	.10 6/10/200	3 578.51	9/3/2003	577.93 11	1/25/2003
PCP-12	590.56	587.9	576.94	7/2/1999	575.74	10/6/1999	573.01	1/11/2000	575.39	3/14/2000	576.03	8/2/2000	576.48	1/9/2001	577.65	4/26/2001	576.44	9/28/2001	577.19	2/27/2002	577.79 3/2	28/2002	578.03 6/4/20	2 576.98	9/6/2002	576.97	12/10/2002	577.00	3/26/2003 57	.95 6/10/200	3 577.45	9/3/2003	576.82 11	1/25/2003
PCP-13	592.92	590.6	573.61	7/2/1999	572.47	10/6/1999	570.17	1/11/2000	572.62	3/14/2000	571.08	8/2/2000	574.01	1/9/2001	574.62	4/26/2001	574.03	9/28/2001	574.60	2/27/2002	575.01 3/2	28/2002	574.87 6/4/20	02 574.24	9/6/2002	574.70	12/10/2002	575.12	3/26/2003 57	.38 6/10/200			575.05 11	1/25/2003
PCP-14	592.64	590.5	564.70	7/2/1999	564.77	10/6/1999	563.14	1/11/2000	565.83	3/14/2000	565.93	8/2/2000	565.21	1/9/2001	565.48	4/26/2001	564.82	9/28/2001	564.69	2/27/2002	564.67 3/2	28/2002	565.09 6/4/20	02 564.73	9/6/2002	564.50	12/10/2002	565.06	3/26/2003 56	.98 6/10/200	3 564.59	9/3/2003	564.94 11	1/25/2003
PCP-15 ¹⁴	585.98	580.4	n/d	7/2/1999	n/d	10/6/1999	n/d	1/11/2000	n/d	3/14/2000	n/d	8/2/2000	n/d	1/9/2001	n/d	4/26/2001	n/d	9/28/2001	n/d	2/27/2002	n/d 3/2	28/2002	n/d 6/4/20	02 n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 r	d 6/10/200	3 n/d	9/3/2003	n/d 11	1/25/2003
PCP-16 ¹⁴	588.64	581.1	n/d	7/2/1999	n/d	10/6/1999	n/d	1/11/2000	n/d	3/14/2000	n/d	8/2/2000	n/d	1/9/2001	n/d	4/26/2001	n/d	9/28/2001	n/d	2/27/2002	n/d 3/2	28/2002	n/d 6/4/20	02 n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 r	d 6/10/200	3 n/d	9/3/2003	n/d 11	1/25/2003
PCP-17 ¹⁴	588.76	581.2	n/d	7/2/1999	n/d	10/6/1999	n/d	1/11/2000	n/d	3/14/2000	n/d	8/2/2000	n/d	1/9/2001	n/d	4/26/2001	n/d	9/28/2001	n/d	2/27/2002	n/d 3/2	28/2002	n/d 6/4/20	02 n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 r	d 6/10/200	3 n/d	9/3/2003	n/d 11	1/25/2003
PCP-3 (DEEP) 582.24	580.0	578.16	7/2/1999	576.39	10/5/1999	576.00	1/11/2000	576.46	3/14/2000	577.50	8/2/2000	577.79	1/9/2001	579.08	4/26/2001	577.78	9/28/2001	578.84	2/27/2002	579.22 3/2	28/2002	579.83 6/4/20	02 577.61	9/6/2002	577.82	12/10/2002	578.52	3/26/2003 57	.21 6/10/200	3 578.66	9/3/2003	577.98 11	1/25/2003
PCL-1	595.45	592.6	570.79	7/2/1999	570.30	10/5/1999	568.05	1/11/2000	569.81	3/14/2000	569.48	8/2/2000	569.27	1/9/2001	569.11	4/26/2001	568.89	9/28/2001	568.87	2/27/2002	568.97 3/2	28/2002	568.74 6/4/20	2 568.71	9/6/2002	568.57	12/10/2002	568.45	3/26/2003 56	.43 6/10/200	3 568.41	9/3/2003	568.42 11	1/25/2003
PCL-2	612.63	610.7	576.96	7/2/1999	575.48	10/6/1999	573.43	1/11/2000	575.12	3/14/2000	574.63	8/2/2000	573.85	1/9/2001	573.58	4/26/2001	572.65	9/28/2001	572.55	2/27/2002	572.45 3/2	28/2002	572.26 6/4/20	2 572.07	9/6/2002	571.94	12/10/2002	572.11	3/26/2003 57:	.00 6/10/200	3 571.89	9/3/2003	571.74 11	1/25/2003
PCL-3	609.25	606.9	576.42	7/2/1999	575.25	10/6/1999	572.95	1/11/2000	574.82	3/14/2000	575.46	8/2/2000	574.59	1/9/2001	574.26	4/26/2001	573.31	9/28/2001	574.51	2/27/2002	574.77 3/2	28/2002	574.14 6/4/20	2 573.72	9/6/2002	573.71	12/10/2002	573.02	3/26/2003 57	.88 6/10/200	3 571.80	9/3/2003	571.34 11	1/25/2003
PCL-4	601.62	599.6	571.56	7/2/1999	569.91	10/6/1999	568.22	1/11/2000	570.13	3/14/2000	570.31	8/2/2000	570.57	1/9/2001	570.55	4/26/2001	570.09	9/28/2001	570.30	2/27/2002	570.10 3/2	28/2002	570.01 6/4/20	2 569.49	9/6/2002	569.29	12/10/2002	569.53	3/26/2003 56	.90 6/10/200	3 569.30	9/3/2003	569.44 11	1/25/2003
PCL-5	601.98	600.1	577.23	7/2/1999	575.80	10/6/1999	573.38	1/11/2000	575.65	3/14/2000	576.87	8/2/2000	577.22	1/9/2001	578.33	4/26/2001	577.19	9/28/2001	578.20	2/27/2002	578.77 3/2	28/2002	579.37 6/4/20	2 577.35	9/6/2002	577.41	12/10/2002	578.09	3/26/2003 57	.81 6/10/200	3 578.25	9/3/2003	577.65 11	1/25/2003

Post-Closure Wells

			July	/	Octo	ober	Jar	nuary	M	arch	Aug	ust	Janu	iary	Ap	oril	Ma	v	Septe	mber	Septen	nber	Nove	ember	Decen	nber	Febr	uary	Ma	arch	Jı	ne	Sept	ember	Dec	ember
	Top of	Ground	199	9	19	999	20	000	1 2	2000	20	00	20	01	20	001	200	1	200	11 ⁵	200	11	20	001	200	1	200	02	20	002	20	02	20	002	2	002
Piezometer	Casing	Surface	water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water	
ID	Elevation	Elevation ¹	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
PCW-1	580.40	580.5	554.96	7/2/1999	558.40	10/5/1999	565.86	1/17/2000	577.49	3/15/2000	566.75	8/2/2000	567.62	1/9/2001	572.93	4/26/2001	572.66	5/30/2001	558.31	9/4/2001	555.41 9	/28/2001	557.32	11/1/2001	562.92	12/21/2001	572.15	2/27/2002	555.65	3/28/2002	559.53	6/4/2002	557.90	9/6/2002	563.87	12/10/2002
PCW-2 ¹⁷	580.97	580.5	571.24	7/2/1999	574.38	10/5/1999	574.64	1/17/2000	578.53	3/15/2000	575.00	8/2/2000	576.97	1/9/2001	577.27	4/26/2001	577.13	5/30/2001	569.59	9/4/2001	576.58 9	/28/2001	n/a	11/1/2001	578.11	12/21/2001	578.64	2/27/2002	578.36	3/28/2002	n/d ⁶	6/4/2002	577.03	9/6/2002	576.10	12/10/2002
PCW-3	579.36	580.4	555.57	7/2/1999	562.29	10/6/1999	568.02	1/17/2000	576.31	3/17/2000	572.04	8/2/2000	572.21	1/9/2001	572.46	4/30/2001	570.53	5/30/2001	575.61	9/6/2001	567.92 9	/28/2001	571.06	11/1/2001	575.53	12/21/2001	576.33	2/27/2002	572.53	3/28/2002	577.74	6/4/2002	575.71	9/6/2002	575.92	12/10/2002
PCW-3R	580.38	580.4	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15
PCW-4	583.45	581.2	578.20	7/2/1999	576.66	10/5/1999	576.00	1/11/2000	576.46	3/15/2000	577.61	8/2/2000	577.79	1/9/2001	579.05	4/26/2001	578.82	5/30/2001	577.15	9/10/2001	577.67 9	/28/2001	n/a	11/1/2001	578.91	12/17/2001	578.56	2/27/2002	579.19	3/28/2002	579.87	6/4/2002	577.67	9/6/2002	577.77	12/10/2002
PCW-5	583.55	581.3	554.30	7/2/1999	561.20	10/5/1999	570.70	1/11/2000	572.37	3/15/2000	564.37	8/2/2000	561.48	1/9/2001	560.14	4/26/2001	565.16	5/30/2001	564.05	9/10/2001	555.35 9	/28/2001	557.40	11/1/2001	564.81	12/17/2001	553.85	2/27/2002	555.11	3/28/2002	560.61	6/4/2002	560.03	9/6/2002	570.22	12/10/2002
PCW-6	582.52	580.2	573.78	7/2/1999	572.81	10/5/1999	572.61	1/11/2000	572.71	3/15/2000	573.57	8/2/2000	573.57	1/9/2001	574.98	4/26/2001	574.80	5/30/2001	572.92	9/6/2001	573.44 9	/28/2001	n/a	11/1/2001	573.68	12/18/2001	575.13	2/27/2002	575.57	3/28/2002	575.51	6/4/2002	574.12	9/6/2002	573.69	12/10/2002
PCW-7	582.24	580.0	573.91	7/2/1999	571.80	10/5/1999	572.04	1/11/2000	572.42	3/15/2000	573.11	8/2/2000	572.76	1/9/2001	574.13	4/26/2001	574.09	5/30/2001	570.54	9/10/2001	572.06 9	/28/2001	n/a	11/1/2001	573.43	12/20/2001	573.92	2/27/2002	573.98	3/28/2002	574.55	6/4/2002	571.59	9/6/2002	571.48	12/10/2002
PCW-8	583.37	581.1	556.05	7/2/1999	571.63	10/5/1999	573.65	1/11/2000	573.22	3/16/2000	572.86	8/2/2000	572.98	1/9/2001	571.46	4/26/2001	573.75	5/30/2001	571.97	9/14/2001	556.12 9	/28/2001	562.06	11/1/2001	570.56	12/18/2001	554.14	2/27/2002	557.63	3/28/2002	571.11	6/4/2002	569.78	9/6/2002	573.40	12/10/2002
PCW-9	578.44	576.1	573.82	7/2/1999	572.24	10/6/1999	571.64	1/11/2000	572.32	3/16/2000	573.95	8/2/2000	571.85	1/9/2001	573.21	4/26/2001	573.35	5/30/2001	554.24	9/7/2001	571.80 9	/28/2001	n/a	11/1/2001	568.69	12/17/2001	572.14	2/27/2002	572.71	3/28/2002	574.27	6/4/2002	573.33	9/6/2002	571.33	12/10/2002
PCW-10	582.89	582.2	567.51	7/2/1999	574.56	10/6/1999	574.51	1/17/2000	577.68	3/16/2000	578.83	8/2/2000	578.98	1/9/2001	578.72	4/26/2001	578.73	5/30/2001	565.61	9/5/2001	578.34 9	/28/2001	n/a	11/1/2001	577.79	12/20/2001	578.28	2/27/2002	570.79	3/28/2002	578.16	6/4/2002	578.09	9/6/2002	578.25	12/10/2002
PCW-11	582.60	583.1	574.92	7/2/1999	576.41	10/6/1999	576.70	1/17/2000	576.42	3/16/2000	577.41	8/2/2000	577.85	1/9/2001	579.08	4/26/2001	578.95	5/30/2001	572.35	9/4/2001	577.28 9	/28/2001	n/a	11/1/2001	578.03	12/20/2001	578.27	2/27/2002	578.91	3/28/2002	579.53	6/4/2002	577.19	9/6/2002	577.33	12/10/2002
PCW-12	584.08	581.6	576.53	7/2/1999	575.19	10/5/1999	574.35	1/11/2000	574.87	3/16/2000	576.05	8/2/2000	575.70	1/9/2001	576.76	4/26/2001	576.65	5/30/2001	574.98	9/10/2001	575.76 9	/28/2001	n/a	11/1/2001	575.82	12/17/2001	576.09	2/27/2002	576.99	3/28/2002	577.57	6/4/2002	575.98	9/6/2002	575.59	12/10/2002
PCW-13	582.74	580.4	572.42	7/2/1999	571.64	10/5/1999	570.99	1/11/2000	571.34	3/16/2000	572.10	8/2/2000	572.04	1/9/2001	572.84	4/26/2001	572.79	5/30/2001	571.64	9/10/2001	572.18 9	/28/2001	n/a	11/1/2001	572.54	12/17/2001	572.27	2/27/2002	573.03	3/28/2002	573.67	6/4/2002	572.56	9/6/2002	572.37	12/10/2002
PCW-14	582.77	580.4	557.72	7/2/1999	572.05	10/6/1999	571.12	1/11/2000	570.27	3/16/2000	574.09	8/2/2000	571.34	1/9/2001	572.32	4/26/2001	572.46	5/30/2001	555.27	9/7/2001	571.31 9	9/28/2001	n/a	11/1/2001	568.81	12/17/2001	571.54	2/27/2002	571.21	3/28/2002	573.40	6/4/2002	572.69	9/6/2002	571.23	12/10/2002

Groundwater Monitoring Wells & Stream Gauges

			Jul	у	Octo	ober	Jan	uary	Ma	arch	Aug	just	Jan	ıary	Ap	oril	Ma	зу	Aug	just	Septemb	r	December	Febr	uary	Ma	rch	Ju	ine	Septe	ember	Dece	ember	Marc	ch
	Top of	Ground	199	19	19	99	20	000	20	000	20	00	20	01	20	001	20	01	20	01	2001		2001	200	02	20	02	20	02	20	02	2	002	200	/3
	Casing	Surface	water		water		water		water		water		water		water		water		water		water	wat	er	water		water		water		water		water		water	$\overline{}$
Well ID	Elevation	Elevation ¹	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev d	te ele	v date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
GW-1	580.53	580.9	574.65	7/2/1999	574.59	10/6/1999	574.26	1/11/2000	575.22	3/15/2000	575.39	8/2/2000	574.79	1/9/2001	576.47	4/26/2001	n/d		n/d		575.20 9/28	2001 n/	d	576.04	2/27/2002	574.65	3/28/2002	575.78	6/4/2002	574.71	9/6/2002	574.69	12/10/2002	576.00 3	3/26/2003
GW-2	582.31	580.0	574.12	7/2/1999	571.46	10/6/1999	572.73	1/11/2000	574.00	3/15/2000	574.27	8/2/2000	573.75	1/9/2001	576.18	4/26/2001	575.07	5/10/2001	573.01	8/27/2001	573.94 9/28	2001 570	.51 12/5/2001	576.43	2/27/2002	576.57	3/28/2002	576.70	6/4/2002	572.07	9/6/2002	572.85	12/10/2002	573.30 3	3/26/2003
GW-3	581.41	579.1	574.03	7/2/1999	573.63	10/6/1999	574.36	1/11/2000	574.62	3/15/2000	574.57	8/2/2000	574.24	1/9/2001	575.30	4/26/2001	n/d		n/d		574.38 9/28	2001 n/	d	575.18	2/27/2002	575.07	3/28/2002	575.04	6/4/2002	573.51	9/6/2002	573.91	12/10/2002	572.85 3	3/26/2003
GW-4	581.40	579.2	573.83	7/2/1999	572.38	10/6/1999	572.48	1/11/2000	573.79	3/15/2000	573.91	8/2/2000	573.84	1/9/2001	574.89	4/26/2001	n/d		n/d		573.00 9/28	2001 n/	d	576.15	2/27/2002	575.75	3/28/2002	575.66	6/4/2002	572.71	9/6/2002	572.78	12/10/2002	573.74 3.	3/26/2003
GW-5	580.15	578.1	573.28	7/2/1999	571.94	10/6/1999	572.23	1/11/2000	572.76	3/15/2000	573.41	8/2/2000	573.09	1/9/2001	574.16	4/26/2001	573.49	5/10/2001	572.05	8/27/2001	571.80 9/28	2001 574	.05 12/5/2001	573.48	2/27/2002	574.07	3/28/2002	574.25	6/4/2002	572.35	9/6/2002	571.61	12/10/2002	573.48 3	3/26/2003
GW-6	579.74	577.5	573.95	7/2/1999	572.04	10/6/1999	572.64	1/11/2000	573.99	3/15/2000	573.37	8/2/2000	574.29	1/9/2001	575.82	4/26/2001	n/d		n/d		572.84 9/28	2001 n/	d	576.29	2/27/2002	575.50	3/28/2002	574.09	6/4/2002	572.89	9/6/2002	572.69	12/10/2002	575.36 3	3/26/2003
GW-7	580.52	578.2	573.09	7/2/1999	571.24	10/6/1999	572.72	1/11/2000	574.00	3/15/2000	572.78	8/2/2000	573.96	1/9/2001	574.40	4/26/2001	573.85	5/10/2001	571.57	8/27/2001	572.18 9/28	2001 575	.59 12/5/2001	574.63	2/27/2002	575.03	3/28/2002	574.65	6/4/2002	571.72	9/6/2002	571.97	12/10/2002	575.09 3	3/26/2003
GW-8	583.07	580.8	571.47	7/2/1999	571.47	10/6/1999	572.16	1/11/2000	572.09	3/15/2000	572.83	8/2/2000	571.80	1/9/2001	572.08	4/26/2001	571.85	5/10/2001	572.12	8/27/2001	572.48 9/28	2001 573	.02 12/5/2001	571.86	2/27/2002	572.13	3/28/2002	572.15	6/4/2002	572.14	9/6/2002	572.09	12/10/2002	575.71 3.	3/26/2003
GW-9	580.44	578.0	572.64	7/2/1999	571.87	10/6/1999	572.48	1/11/2000	571.87	3/15/2000	573.18	8/2/2000	571.46	1/9/2001	572.98	4/26/2001	572.19	5/10/2001	570.54	8/27/2001	571.86 9/28	2001 572	.81 12/5/2001	573.49	2/27/2002	572.79	3/28/2002	573.59	6/4/2002	571.45	9/6/2002	571.52	12/10/2002	574.26 3	3/26/2003
GW-10	582.48	580.0	571.93	7/2/1999	570.33	10/5/1999	572.48	1/11/2000	574.27	3/16/2000	572.03	8/2/2000	572.62	1/9/2001	574.66	4/26/2001	573.02	5/10/2001	571.83	8/28/2001	575.16 9/28	2001 574	.69 12/5/2001	575.14	2/27/2002	574.44	3/28/2002	576.90	6/4/2002	570.60	9/6/2002	573.03	12/10/2002	574.91 3	3/26/2003
GW-11	582.93	580.7	575.13	7/2/1999	573.32	10/5/1999	n/d ²	1/11/2000	n/d²		n/d ²		n/d ²		n/d²		577.24	5/10/2001	n/d²		n/d²	n/c	2	n/d ²		n/d ²		n/d ²		n/d ²		n/d ²		n/d²	
GW-11R	580.23	580.7	n/d ²	7/2/1999	n/d ²		n/d²	1/11/2000	n/d²		573.32	8/2/2000	573.12	1/9/2001	574.72	4/26/2001	571.77	5/10/2001	573.38	8/28/2001	573.14 9/28	2001 573	29 12/5/2001	567.47	2/27/2002	573.74	3/28/2002	574.11	6/4/2002	573.29	9/6/2002	572.38	12/10/2002	573.41 3	/26/2003
GW-12	580.87	578.4	570.96	7/2/1999	570.53	10/5/1999	569.17	1/11/2000	571.28	3/16/2000	571.82	8/2/2000	571.02	1/9/2001	573.09	4/26/2001	571.74	5/10/2001	569.47	8/28/2001	568.72 9/28	2001 572	21 12/5/2001	565.40	2/27/2002	572.82	3/28/2002	573.50	6/4/2002	571.14	9/6/2002	570.69	12/10/2002	572.56 3	3/26/2003
GW-13	583.70	581.3	574.16	7/2/1999	572.15	10/5/1999	572.68	1/11/2000	573.25	3/16/2000	573.06	8/2/2000	572.96	1/9/2001	574.93	4/26/2001	578.93	5/10/2001	570.95	8/27/2001	573.22 9/28	2001 573	.89 12/5/2001	571.24	2/27/2002	574.27	3/28/2002	574.64	6/4/2002	571.72	9/6/2002	571.31	12/10/2002	573.42 3	3/26/2003
GW-14	578.48	578.9	573.58	7/2/1999	574.37	10/5/1999	573.46	1/11/2000	574.75	3/16/2000	574.17	8/2/2000	574.30	1/9/2001	574.31	4/26/2001	574.63	5/10/2001	573.26	8/27/2001	573.32 9/28	2001 573	.82 12/5/2001	570.62	2/27/2002	573.46	3/28/2002	573.69	6/4/2002	572.86	9/6/2002	576.34	12/12/02*		3/26/2003
GW-15	582.69	581.8	575.06	7/2/1999	575.85	10/6/1999	576.34	1/11/2000	576.72	3/16/2000	578.24	8/2/2000	n/d	1/9/2001	578.57	4/26/2001	574.61	5/10/2001	578.49	8/27/2001	577.88 9/28	2001 577	58 12/5/2001	577.78	2/27/2002	577.68	3/28/2002	578.68	6/4/2002	578.07	9/6/2002	576.44	12/10/2002	576.79 3.	3/26/2003
GW-16	585.90	583.5	579.15	7/2/1999	578.34	10/6/1999	575.04	1/11/2000	577.29	3/16/2000	578.71	8/2/2000	576.16	1/9/2001	577.59	4/26/2001	n/d		577.30	9/6/2001	577.22 9/28	2001 576	26 12/18/2001	576.76	2/27/2002	571.12	3/28/2002	578.19	6/4/2002	577.58	9/6/2002	575.77	12/10/2002	576.24 3	3/26/2003
GW-16R	583.35	580.6	n/d 11		n/d ''		n/d 11		n/d 11		n/d 11		n/d 11		n/d 11		n/d 11	1 1	n/d ''		n/d 11	n/d	11	n/d 11		n/d 11		n/d 11		n/d 11		n/d 11		n/d 11	

		July	y	Octo		Janu	iary			Aug		Jan	04	Ap	ril 04	Septer 200		Febr 20		Ma	arch		une	Septer		Decer 20			arch 003	Ju	ine 003		ember 003		ember 003
Stream	Monument	water	1	water	33	water	00	water	000	water		water	01	water	V1	water	"i l	water	I	water	002	water	:002	water	2	water	1	water	003	water	,03	water	003	water	703
Gauge	Elevation	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
SG-1	578.01	573.81	7/2/1999	572.82	10/5/1999	572.91	1/17/2000	572.79	3/16/2000	573.28	8/2/2000	573.17	1/9/2001	572.64	4/26/2001	n/d	9/28/2001	n/d	2/27/2002	n/d	3/28/2002	574.05	6/4/2002	n/d	9/6/2002	n/d (dry)	12/10/2002	n/d (dry)	3/26/2003	n/d (dry)	6/10/2003	n/d (dry)	9/3/2003	n/d (dry)	11/25/2003
SG-2	576.70	573.56	7/2/1999	571.95	10/5/1999	572.19	1/17/2000	572.34	3/16/2000	573.11	8/2/2000	571.60	1/9/2001	572.75	4/26/2001	571.71	9/28/2001	571.05	2/27/2002	572.25	3/28/2002	573.60	6/4/2002	573.09	9/6/2002	571.40	12/10/2002	571.76	3/26/2003	572.79	6/10/2003	575.45	9/3/2003	571.24	11/25/2003
SG-3	581.62	574.94	7/2/1999	573.50	10/5/1999	573.05	1/14/2000	572.63	3/16/2000	572.71	8/2/2000	573.08	1/9/2001	573.59	4/26/2001	572.34	9/28/2001	573.17	2/27/2002	573.77	3/28/2002	573.52	6/4/2002	572.59	9/6/2002	572.69	12/10/2002	573.01	3/26/2003	572.68	6/10/2003	578.85	9/3/2003	572.65	11/25/2003
SG-4	579.37	573.95	7/2/1999	n/d	10/5/1999	573.28	1/14/2000	572.93	3/16/2000	573.02	8/2/2000	573.23	1/9/2001	574.07	4/26/2001	n/d	9/28/2001	573.97	2/27/2002	574.14	3/28/2002	574.54	6/4/2002	574.02	9/6/2002	573.38 (dry)	12/10/2002	573.12	3/26/2003	573.52	6/10/2003	577.47	9/3/2003	n/d (dry)	11/25/2003
SG-5	578.11	573.81	7/2/1999	571.85	10/5/1999	571.76	1/14/2000	572.45	3/16/2000	572.85	8/2/2000	571.73	1/9/2001	572.52	4/26/2001	571.62	9/28/2001	571.21	2/27/2002	572.33	3/28/2002	573.23	6/4/2002	572.75	9/6/2002	571.40	12/10/2002	571.62	3/26/2003	572.64	6/10/2003	576.40	9/3/2003	571.31	11/25/2003
SG-6	578.81	573.50	7/2/1999	571.90	10/5/1999	576.80	1/17/2000	572.11	3/16/2000	572.78	8/2/2000	571.42	1/9/2001	572.57	4/26/2001	571.55	9/28/2001	571.04	2/27/2002	572.38	3/28/2002	573.42	6/4/2002	572.81	9/6/2002	571.62	12/10/2002	571.62	3/26/2003	572.63	6/10/2003	576.85	9/3/2003	571.01	11/25/2003

Leachate Collection System Cleanouts Western Containment Unit

		Jul	у	Oct	ober	Jan	uary	Ma	arch	Aug	gust	Jan	uary	A	ril	Septe	mber	Feb	ruary	N	larch	Jur	ne	Septer	mber	Dece	ember	N	larch		lune	Sep	tember	No	vember
	Top of	199	9	19	99 ³	20	00 ³	2	000	20	000	2	001	20	01	20	01	20	02	:	2002	200	02	200	02	21	002	1 :	2003		2003		2003		2003
Cleanout	Cleanout	water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water	
ID	Elevation	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
D1-1	589.0	n/d	n/d	<567.7	10/6/1999	<570.8	1/13/2000	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	2/27/2002	n/d	3/28/2002	n/d 6	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003	n/d	6/10/2003	n/d	9/3/2003	n/d	11/25/2003
D1-2	588.4	n/d	n/d	565.9	10/6/1999	<563.2	1/13/2000	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	2/27/2002	n/d	3/28/2002	n/d 6	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003	n/d	6/10/2003	n/d	9/3/2003	n/d	11/25/2003
D1-3	588.7	n/d	n/d	<568.4	10/6/1999	<566.7	1/13/2000	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	2/27/2002	n/d	3/28/2002	n/d 6	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003	n/d	6/10/2003	n/d	9/3/2003	n/d	11/25/2003
D2-1	587.8	n/d	n/d	<566.8	10/6/1999	<566.8	1/13/2000	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	2/27/2002	n/d	3/28/2002	n/d 6	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003	n/d	6/10/2003	n/d	9/3/2003	n/d	11/25/2003
D2-2	586.2	n/d	n/d	<569.0	10/6/1999	<566.4	1/13/2000	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	2/27/2002	n/d	3/28/2002	n/d 6	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003	n/d	6/10/2003	n/d	9/3/2003	n/d	11/25/2003
D2-3	588.0	n/d	n/d	<570.7	10/6/1999	<566.3	1/13/2000	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	2/27/2002	n/d	3/28/2002	n/d 6	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003	n/d	6/10/2003	n/d	9/3/2003	n/d	11/25/2003
D2-4	589.3	n/d	n/d	<571.6	10/6/1999	<567.7	1/13/2000	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	2/27/2002	n/d	3/28/2002	n/d 6	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003	n/d	6/10/2003	n/d	9/3/2003	n/d	11/25/2003
D3-1	587.4	n/d	n/d	565.4	10/6/1999	<561.7	1/13/2000	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	2/27/2002	n/d	3/28/2002	n/d 6	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003	n/d	6/10/2003	n/d	9/3/2003	n/d	11/25/2003
D3-2	589.3	n/d	n/d	<569.6	10/6/1999	<564.8	1/13/2000	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	2/27/2002	n/d	3/28/2002	n/d 6	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003	n/d	6/10/2003	n/d	9/3/2003	n/d	11/25/2003
D3-3	593.4	n/d	n/d	567.9	10/6/1999	570.3	1/13/2000	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	2/27/2002	n/d	3/28/2002	n/d 6	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003	n/d	6/10/2003	n/d	9/3/2003	n/d	11/25/2003
D3-4	588.0	n/d	n/d	566.1	10/6/1999	<564.9	1/13/2000	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	2/27/2002	n/d	3/28/2002	n/d 6	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003	n/d	6/10/2003	n/d	9/3/2003	n/d	11/25/2003
D4-1	589.9	n/d	n/d	<565.5	10/6/1999	<565.5	1/13/2000	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	2/27/2002	n/d	3/28/2002	n/d 6	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003	n/d	6/10/2003	n/d	9/3/2003	n/d	11/25/2003
D4-2	589.5	n/d	n/d	<566.1	10/6/1999	<564.2	1/13/2000	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	2/27/2002	n/d	3/28/2002	n/d 6	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003	n/d	6/10/2003	n/d	9/3/2003	n/d	11/25/2003
D4-3	590.1	n/d	n/d	568.4	10/6/1999	<563.0	1/13/2000	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	2/27/2002	n/d	3/28/2002	n/d 6	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003	n/d	6/10/2003	n/d	9/3/2003	n/d	11/25/2003
DN(W)	590.7	n/d	n/d	<566.0	10/6/1999	<566.0	1/13/2000	n/d	n/d	n/d	n/d	n/d	n/d	567.53	04/27/01	558.06	9/28/2001	558.06	2/27/2002	561.26	3/28/2002	566.37	6/4/2002	562.99	9/6/2002	567.37	12/10/2002	563.5	3/26/2003	565.24	6/10/2003	564.98	9/3/2003	565.85	11/25/2003
DN(E)	588.5	n/d	n/d	<572.3	10/6/1999	<564.9	1/13/2000	n/d	n/d	n/d	n/d	n/d	n/d	580.33	04/27/01	564.42	9/28/2001	567.35	2/27/2002	569.97	3/28/2002	567.13	6/4/2002	567.27	9/6/2002	563.05	12/10/2002	567.2	3/26/2003	563.04	6/10/2003	563.04	9/3/2003	563.00	11/25/2003
DW	588.5	n/d	n/d	<583.4	10/6/1999	n/d		n/d	n/d	n/d	n/d	n/d	n/d	583.55	04/27/01	566.55	9/28/2001	556.75	2/27/2002	557.24	3/28/2002	n/d 6	6/4/2002	557.80	9/6/2002	556.79	12/10/2002	558.2	3/26/2003	558.03	6/10/2003	557.93	9/3/2003	557.91	11/25/2003
DS(W)	588.5	n/d	n/d	<565.0	10/6/1999	<565.0	1/13/2000	n/d	n/d	n/d	n/d	n/d	n/d	563.90	04/27/01	564.06	9/28/2001	555.30	2/27/2002	563.99	3/28/2002	564.30	6/4/2002	563.55	9/6/2002	563.66	12/10/2002	564.4	3/26/2003	563.97	6/10/2003	563.52	9/3/2003	563.59	11/25/2003
DS(E)	588.0	n/d	n/d	<572.4	10/6/1999	<567.1	1/13/2000	n/d	n/d	n/d	n/d	n/d	n/d	571.98	04/27/01	572.83	9/28/2001	572.83	2/27/2002	563.32	3/28/2002	572.58	6/4/2002	573.45	9/6/2002	563.80	12/10/2002	563.5	3/26/2003			564.49			11/25/2003
DE	589.3	n/d	n/d	<570.3	10/6/1999	<570.3	1/13/2000	n/d	n/d	n/d	n/d	n/d	n/d	576.14	04/27/01	570.85	9/28/2001	570.85	2/27/2002	569.90	3/28/2002	572.76	6/4/2002	571.81	9/6/2002	570.09	12/10/2002	569.7	3/26/2003	569.68	6/10/2003	570.21	9/3/2003	570.03	11/25/2003

Leachate Collection System Cleanouts Eastern Containment Unit

					ioni omi																												
		Jul	V	Oct	ober	Jan	nuary	M	arch	Aug	ust	Jar	nuary	A	ril	Septer	mber	Feb	ruary	Ma	rch	J	lune	Septe	mber	Decei	mber	M	arch	June		September	November
	Top of	199	99	19	99 ³	20	00 ³	2	000	20		2	001	20	01	200	01		002	20	002	2	2002	20		20	02		003	2003		2003	2003
Cleanout	Cleanout	water		water		water		water		water		water		water		water		water		water		water		water		water		water	wa	er	wat	er	water
ID	Elevation	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date el	v dat	e ele	v date	elev date
A-1	588.6	n/d	n/d	573.3	10/6/1999	571.8	1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	02/27/02		3/28/2002		6/4/2002		9/6/2002		12/10/2002	n/d	3/26/2003 n	d 6/10/2	003 n/o	9/3/2003	n/d 11/25/2003
A-2	-	CLEANOUT	EMPTIES	DIRECTLY	INTO MANI-	OLE																											
A-3	582.5	n/d	n/d	567.0	10/6/1999		1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	02/27/02	n/d	3/28/2002	n/d	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 n	d 6/10/2	003 n/o		n/d 11/25/2003
A-4	581.9	n/d	n/d	566.8	10/6/1999	<565.1	1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	02/27/02	n/d	3/28/2002	n/d	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 n	d 6/10/2	003 n/o		n/d 11/25/2003
A-5	583.3	n/d	n/d	569.9	10/6/1999	567.9	1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	573.40	04/27/01	n/d	n/d	n/d	02/27/02	n/d	3/28/2002	n/d	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 n	d 6/10/2	003 n/o		n/d 11/25/2003
B-1	585.0	n/d	n/d	578.6	10/5/1999	<578.3	1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	02/27/02	n/d	3/28/2002	n/d	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 n	d 6/10/2	003 n/o	9/3/2003	n/d 11/25/2003
B-2	584.8	n/d	n/d	<566.1	10/5/1999	40, 0.0	1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	02/27/02	n/d	3/28/2002		6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 n	d 6/10/2	003 n/o		n/d 11/25/2003
B-3	586.4	n/d	n/d	<566.5	10/5/1999		1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	02/27/02	n/d	3/28/2002		6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 n	d 6/10/2	003 n/o		n/d 11/25/2003
B-4	586.2	n/d	n/d	<567.9	10/5/1999	<579.2	1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	02/27/02	n/d	3/28/2002	n/d	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 n	d 6/10/2	003 n/o	9/3/2003	n/d 11/25/2003
C1-1	583.8	n/d	n/d	570.7	10/6/1999		1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	568.94	04/27/01	n/d	n/d	n/d	02/27/02	n/d	3/28/2002	n/d	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 n	d 6/10/2	003 n/o		n/d 11/25/2003
C1-2	584.1	n/d	n/d	570.8	10/6/1999		1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	02/27/02	n/d	3/28/2002	n/d	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 n	d 6/10/2	003 n/o		n/d 11/25/2003
C1-3	583.2	n/d	n/d	569.5	10/6/1999	<564.1	1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	02/27/02	n/d	3/28/2002	n/d	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 n	d 6/10/2	003 n/d		n/d 11/25/2003
C1-4 ¹⁸	583.1	n/d	n/d	569.9	10/6/1999	<562.2	1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	02/27/02	n/d	3/28/2002	n/d	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 n				n/d 11/25/2003
C1-5	586.9	n/d	n/d	571.9	10/6/1999	<567.0	1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	02/27/02	n/d	3/28/2002	n/d	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 n	d 6/10/2	003 n/o		n/d 11/25/2003
C1-6	586.2	n/d	n/d	570.6	10/6/1999	<580.4	1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	02/27/02	n/d	3/28/2002	n/d	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 n	d 6/10/2	003 n/o		n/d 11/25/2003
C2-1	586.3	n/d	n/d	<566.5	10/5/1999	<565.0	1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	02/27/02	n/d	3/28/2002	n/d	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 n	d 6/10/2	003 n/o	9/3/2003	n/d 11/25/2003
C2-2	586.4	n/d	n/d	<567.1	10/5/1999		1/13/2000		n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	02/27/02	n/d	3/28/2002		6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 n	d 6/10/2	003 n/o		n/d 11/25/2003
C2-3	586.5	n/d	n/d		10/5/1999		1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	02/27/02	n/d	3/28/2002	n/d	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 n	d 6/10/2	003 n/o		n/d 11/25/2003
C2-4	586.1	n/d	n/d	<569.2		<567.8	1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	02/27/02	n/d	3/28/2002	n/d	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 n	d 6/10/2	003 n/o	9/3/2003	n/d 11/25/2003
C2-5	586.6	n/d	n/d	<565.7	10/0/1000	<564.6	1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	02/27/02	n/d	3/28/2002		6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 n	0,10,2	003 n/o	0,0,2000	n/d 11/25/2003
C2-6	585.9	n/d	n/d	564.2	10/5/1999	<559.7	1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	02/27/02	n/d	3/28/2002	n/d	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 n				n/d 11/25/2003
AN	585.3	n/d	n/d	<565.7	10/5/1999	568.5	1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	575.68	04/27/01	568.07	09/28/01	568.07	02/27/02	561.27	3/28/2002	557.76	6/4/2002	552.82	9/6/2002	559.60	12/10/2002	561.3	3/26/2003 560	.79 6/10/2	003 560.	62 9/3/2003	560.64 11/25/2003
AW(N)	588.2	n/d	n/d	<576.6	10/5/1999	<572.3	1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	582.66	04/27/01	565.42	09/28/01	565.28	02/27/02	565.32	3/28/2002	565.32	6/4/2002	576.08	9/6/2002	576.12	12/10/2002	576.0	3/26/2003 576	.31 6/10/2	003 576.	12 9/3/2003	565.48 11/25/2003
AW(S)	582.7	n/d	n/d	570.1	10/6/1999	567.4	1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	564.04	09/28/01	564.04	02/27/02	565.55	3/28/2002	568.06	6/4/2002	562.93	9/6/2002	562.68	12/10/2002	562.9	3/26/2003 562	.92 6/10/2	003 562.	86 9/3/2003	562.75 11/25/2003
BN	584.8	n/d	n/d	566.6	10/5/1999	407 0.0	1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	02/27/02	n/d	3/28/2002	n/d	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 n	d 6/10/2	003 n/o	9/3/2003	n/d 11/25/2003
BE	586.3	n/d	n/d	<576.3	10/5/1999	<567.4	1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	577.16	04/27/01	560.23	09/28/01	560.23	02/27/02	558.59	3/28/2002		0/ 1/2002	556.86	9/6/2002	561.29	12/10/2002	561.7	3/26/2003 561	.10 6/10/2			561.46 11/25/2003
C1W	582.9	n/d	n/d	569.6	10/6/1999	561.2	1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	563.98	09/28/01	562.86	02/27/02	562.55	3/28/2002	562.84	6/4/2002	569.04	9/6/2002	568.37	12/10/2002	567.2	3/26/2003 565	71 6/10/2	003 565.	77 9/3/2003	567.05 11/25/2003
C1S ⁸	586.0	n/d	n/d	<580.2	10/6/1999	<566.3	1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	569.32	04/27/01	568.88	09/28/01	568.88	02/27/02	565.69	3/28/2002	553.46	6/4/2002	565.08	9/6/2002	568.85	12/10/2002	567.3	3/26/2003 567		003 567.		566.26 11/25/2003
C2E	586.1	n/d	n/d	n/d			1/13/2000		n/d	n/d	n/d	n/d	n/d	577.17	04/27/01	574.37	09/28/01	560.05	02/27/02		3/28/2002			558.08	9/6/2002	557.05	12/10/2002			.47 6/10/2			557.50 11/25/2003
C2S	585.4	n/d	n/d	565.1	10/5/1999	563.5	1/13/2000	0 n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	02/27/02	n/d	3/28/2002	n/d	6/4/2002	n/d	9/6/2002	n/d	12/10/2002	n/d	3/26/2003 n	d 6/10/2	003 n/o	9/3/2003	n/d 11/25/2003

Leachate Collection System Manholes

Eastern Containment Unit

	Rim Elevation	July 1999	Octo	^^	Janu 200		Ma 20	rch 000	Aug 200	ust 00	Jan 20	04	Ap 20	,,,,	Septen 200	nber 1	Febr 20			arch 002		June 2002	Septer 200		Decer 20	^^	۱ ،	arch 003	J	une 9003		ember 003		ember 003
Manhole			water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water	
ID			elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
LMH-1	583.65	n/d	562.20	10/5/1999	559.20	1/11/2000	560.80	3/16/2000	562.69	8/2/2000	n/d	1/9/2001	562.38	4/26/2001	563.15	9/28/2001	565.29	2/27/2002	565.86	3/28/2002	563.43	6/4/2002	561.47	9/6/2002	562.37	12/10/2002	561.54	3/26/2003	561.77	6/10/2003	561.83	9/3/2003	561.62	11/25/200
LMH-2	583.49	n/d	569.51	10/6/1999	561.34	1/11/2000	563.14	3/16/2000	563.44	8/2/2000	n/d	1/9/2001	562.97	4/26/2001	563.33	9/28/2001	562.82	2/27/2002	561.71	3/28/2002	562.98	6/4/2002	561.91	9/6/2002	563.56	12/10/2002	563.55	3/26/2003	561.77	6/10/2003	563.29	9/3/2003	563.04	11/25/200
LMH-3	583.61	n/d	563.11	10/6/1999	561.46	1/11/2000	563.48	3/16/2000	563.43	8/2/2000	n/d	1/9/2001	563.44	4/26/2001	563.46	9/28/2001	563.47	2/27/2002	563.47	3/28/2002	563.34	6/4/2002	563.49	9/6/2002	563.56	12/10/2002	563.27	3/26/2003	562.16	6/10/2003	563.55	9/3/2003	563.34	11/25/200
LMH-4	585.50	n/d	558.92	10/5/1999	558.05	1/11/2000	559.08	3/16/2000	557.71	8/2/2000	n/d	1/9/2001	559.42	4/26/2001	560.01	9/28/2001	559.64	2/27/2002	559.27	3/28/2002	559.06	6/4/2002	559.95	9/6/2002	559.91	12/10/2002	559.86	3/26/2003	560.33	6/10/2003	558.92	9/3/2003	558.82	11/25/200

Western Containment Unit

	Rim Elevation	July 1999	Octo	ober 99	Janu 20			arch 000	Aug 20		Jan 20	uary 01	Ap 20	oril 01	Septen 200		Feb	ruary 002		arch 002	1	June 2002	Septer 200			ember 002		arch 2003	;	June 2003		tember 2003		ember 003
Manhole			water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water	
ID		1 1	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
LMH-5	584.09	n/d	561.34	10/6/1999	558.54	1/11/2000	561.48	3/16/2000	561.00	8/2/2000	n/d	1/9/2001	560.55	4/26/2001	560.58	9/28/2001	560.27	2/27/2002	560.56	3/28/2002	561.40	6/4/2002	561.11	9/6/2002	560.36	12/10/2002	561.47	3/26/2003	561.25	6/10/2003	560.81	9/3/2003	561.18	11/25/2003
LMH-6	587.12	n/d	562.54	10/6/1999	563.01	1/11/2000	563.66	3/16/2000	560.83	8/2/2000	n/d	1/9/2001	563.91	4/26/2001	564.63	9/28/2001	564.51	2/27/2002	563.71	3/28/2002	563.37	6/4/2002	563.38	9/6/2002	564.41	12/10/2002	564.66	3/26/2003	562.81	6/10/2003	562.90	9/3/2003	564.18	11/25/2003
LMH-7	587.85	n/d	566.25	10/6/1999	569.75	1/11/2000	567.88	3/16/2000	564.19	8/2/2000	n/d	1/9/2001	567.64	4/26/2001	568.64	9/28/2001	568.61	2/27/2002	567.78	3/28/2002	567.10	6/4/2002	569.08	9/6/2002	568.48	12/10/2002	568.16	3/26/2003	569.99	6/10/2003	568.94	9/3/2003	568.45	11/25/2003

- Ground surface elevations were determined at the time of well/piezometer installation.
 Ground water monitoring well GW-11 was destroyed between 7/2/99 and 11/9/99. Replacement well GW-11R installed on 5/17/00
 Top of casing elevation prior to 1/25/00 = 590.64 (casing was trimmed so outer protective casing lid would close completely).
 Groundwater elevation data collected on this date was used primarily for well volume calculations See following Sept 01 data for hydraulic monitoring
 Well filled with water due to truck damage
 Top of casing elevation prior to 5/21/03 = 579.94 (casing was trimmed for a level TOC elevation).
 Top of casing elevation prior to 5/21/03 = 580.25 (cleanout piping was mended)
 Top of casing elevation prior to Corbor 2003: PCW-1-679/76, PCW-2=579.89, PCW-10=582.31 (TOCs were extended due to raised well pads)
 OW-16 removed during EDSA interim response activities

- GW-16r was installed on 12/10/04 upon completion of EDSA interim response activities for replacement of GW-16. Top-of-casing elevation is 583.35 msl.
 Water elevation for PCW-2 was not obtained due to well damage from truck.
 Top of casing elevation prior to April 20, 2005: PCP-11=590.55, PCW-2=580.40 (casing was trimmed so well casing could closed and locked properly)
- 14. PCP-15, PCP-16 and PCP-17 were installed on March 20, 2008.
- 15. PCW-3 removed on 3/16/10
 16. PCW-3R was installed on 2/26/10
 17. PCW-2 Top of casing elevation prior to April 6, 2012: 580.33 (casing was extended due to continued submersion)
 18. C1-4 Top of casing prior to July 2012: 581.5 (casing was extended due to damage).
 n/d denotes data not determined or available

Post-Closure Piezometers
Post-Closure Piezometers

			F-1		_	l		tb							0																0		D				To a	
	Tan 26	Ground		ruary 104		June 2004		tember 2004		cember 2004		arch		une		tember		ember		arch 006		une 006		otember 2006		ember		arch 007		une 007		tober nn7		ember 007		arch 008	Jun 200	
Diamonatas	Top of Casing	Surface	water	104	water	2004	water	2004	water	2004	water	005	water	005	water	005	water	2005	water	JU6	water	006	water	2006 I	water	006	water	007	water I	007	water	007	water	007	water	008	water	J8
Piezometer	Elevation		water	data	water	444	water	٠	water	date	elev	4040	water	data	water	data	water	444	elev	date	water	data	water	4.44	water	data	elev	4040	water	444	water	data	elev	data	water	4040	-	data
PCP-1	585.94	583.6	565.89	2/26/200	4 566 00	6/2/2004	566 04	0/26/2004	568.32	12/22/200/	560 40	2/22/2006	567.44	E/10/200E	566.26	0/21/2005	566 20	12/15/2005		3/30/2006	565.59	e/9/200e	566.04	9/27/2006	E6E 02	11/28/2006		3/8/2007	565.38	7/12/2007	565.43	10/1/2007	565.40	12/27/2007	E66 41	2/14/2009	565.29	6/20/2009
PCP-2	586.48	503.0	577.82	2/26/200	4 570.30	6/3/2004	570 10	8/26/2004	577.00	12/22/2004	570.02	3/22/2005	570 40	6/10/2005		0/21/2005		12/15/2005			578.82	6/8/2006		9/27/2006		11/28/2006		3/8/2007	577.64	7/13/2007	570.27	10/1/2007	570.40	12/27/2007	570.10	3/14/2008	578.91	6/20/2008
PCP-3	506.40	583.5	578 23	2/20/200	4 570.72	6/3/2004	570.10	0/20/2004	570.35	12/22/2004	570 FF	2/22/2005	570.40	6/10/2005	577.00	0/24/2005	578.43		570.72	3/30/2000	582.47	6/0/2000	578.70	9/27/2006	579.31	11/20/2000	570.03	3/8/2007	570.24	7/13/2007	570.04	10/1/2007	570.00	12/27/2007	575.10	3/14/2008	570.51	6/20/2008
PCP-3	580.00	300.0	571.77	2/26/200	4 574.04	6/3/2004	574.0F	0/20/2004	574.07	12/22/2004	574.00	3/22/2005	579.01 574.65	6/10/2005	571.00	9/21/2005	574.77	1/4/2005	574.65	3/30/2006	502.47	6/0/2006	571.01	9/27/2006	579.31	11/20/2006	574.60	3/0/2007	570.31	7/13/2007	579.04	10/1/2007	579.00	12/27/2007	579.79	3/14/2008	579.02	6/20/2008
PCP-4	588.54	586.7	565.85	2/26/200	4 565.44	6/3/2004	57 1.95	8/26/2004	565.76	12/22/2004	565.93	2/22/2005	565.90	6/10/2005	571.39	9/21/2005	565.70	12/15/2005	565 03	3/30/2006	565.90	6/8/2006	565.97	9/27/2006	5/ 1.09 565 07	11/28/2006	566.02	3/8/2007	571.59	7/13/2007	5/ 1.00	10/1/2007	5/1./4	12/27/2007	5/1.01	3/14/2008	566.08	6/20/2008
PCP-6	587.45	585.1	566.27	2/26/200	4 566 02	6/3/2004	566.42		566.45	12/22/2004	1 566.27		566.25	6/10/2005				12/15/2005		3/30/2006	566.22	6/8/2006	566.64	9/27/2006		11/28/2006		3/8/2007	566.20	7/13/2007	566 57	10/1/2007	566.47	12/27/2007	565.70	3/14/2008	566.00	6/20/2008
PCP-7	588.09	587.7	566.20	2/26/200	4 566 07	6/3/2004	566 11	8/26/2004		12/22/2004	1 566.21	2/22/2005		6/10/2005				12/15/2005		3/30/2006	565.88		566.14	9/27/2006		11/28/2006			565.45	7/13/2007	565.66	10/1/2007	565 90	12/27/2007	505.76	3/14/2008	565.24	6/20/2008
PCP-8	589.14	507.7	567.16	2/26/200	4 567 71	6/3/2004		8/26/2004		12/22/2004	560.21	3/22/2005		6/10/2005				12/15/2005								11/28/2006			566.06	7/13/2007	567.12	10/1/2007	567.04	12/27/2007	566.02	3/14/2008	566.60	6/20/2008
PCP-9	592.65	590.8	568.36	2/26/200	4 569 07	6/3/2004	569.27	9/26/2004	560.40	12/22/2004	1 560 42	0		6/10/2005				12/15/2005		3/30/2006	568.39		568.28			11/28/2006		3/8/2007	567.10	7/13/2007	567.12	10/1/2007	567.04	12/27/2007	567.20	3/14/2008	567.16	6/20/2008
PCP-10	590.19		565.80	2/26/200	4 565 54	6/3/2004	565.02	8/26/2004	566.0E	12/22/2004	565 90			6/10/2005		9/21/2005		12/15/2005		0.00.00	565.00	6/8/2006	565.00	9/27/2006		11/28/2006		3/8/2007	565.61	7/13/2007	565.60	10/1/2007	507.21 565.56	12/27/2007	565.52	3/14/2008	56F 46	6/20/2008
PCP-11 ^{4,13}	590.13	587.7	578.87	2/26/200	1 570 74			8/26/2004	578 97	12/22/2004	570.00	3/22/2005		6/10/2005				12/15/2005			580.01		570.32			11/28/2006		3/8/2007	578 07	7/13/2007	570.68	10/1/2007	570.75	12/27/2007	580.14	3/14/2008	580.31	6/20/2008
PCP-12	590.56	587.0	577.53	2/26/200	1 578 61	6/3/2004	577.86	8/26/2004	577.70	12/22/2004	578.70	3/22/2005	578.35	6/10/2005	577.10			12/15/2005		3/30/2006	578.61		578.07			11/28/2006		3/8/2007	562.60	7/13/2007	578.27	10/1/2007	578 10	12/27/2007	578.51	3/14/2008	570.01	6/20/2008
PCP-13	592.92	590.6	576.47	2/26/200	4 576.49	6/3/2004	576.05	8/26/2004	576.03	12/22/2004	577.03	3/22/2005	0.0.00	6/10/2005	575.80			12/15/2005		3/30/2006	576.41	0/0/2000	576.98	0/21/2000		11/28/2006		3/8/2007	576.69	7/13/2007	577.16	10/1/2007	577.20	12/27/2007	577.62	3/14/2008	577.92	6/20/2008
PCP-14	592.64	590.5	566 18	2/26/200	4 565 36	6/3/2004		8/26/2004		12/22/2004	1 564.81	0		6/10/2005				12/15/2005		3/30/2006	565.25			9/27/2006		11/28/2006		3/8/2007	563.70	7/13/2007	564.03	10/1/2007	563.71	12/27/2007	563.32	3/14/2008	563.69	6/20/2008
PCP-15 ¹⁴	585.98	580.4	n/d	2/26/200	4 n/d	6/3/2004	n/d	8/26/2004	n/d	12/22/2004	1 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	12/15/2005	n/d	3/30/2006	n/d	6/8/2006	n/d	9/27/2006	n/d	11/28/2006	n/d	3/8/2007	n/d	7/13/2007	n/d	10/1/2007	n/d	12/27/2007	n/d	3/14/2008	576.80	6/20/2008
PCP-16 ¹⁴	588.64	581.1	n/d	2/26/200	4 n/d	6/3/2004	n/d	8/26/2004	n/d	12/22/2004	1 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005		12/15/2005		3/30/2006	n/d	6/8/2006	n/d	9/27/2006		11/28/2006	n/d	3/8/2007	n/d	7/13/2007	n/d	10/1/2007	n/d	12/27/2007	n/d	3/14/2008	579.38	6/20/2008
PCP-17 ¹⁴	588.76	581.2	n/d	2/26/200	4 n/d	6/3/2004	n/d	8/26/2004	n/d	12/22/2004	1 n/d	3/22/2005		6/10/2005	n/d	9/21/2005		12/15/2005	n/d	3/30/2006	n/d	6/8/2006	n/d	9/27/2006	n/d	11/28/2006	n/d	3/8/2007	n/d	7/13/2007	n/d	10/1/2007	n/d	12/27/2007	n/d	3/14/2008	582.26	6/20/2008
PCP-3 (DEEP	582 24	580.0	578.99	2/26/200	4 579.86	6/3/2004	579.10	8/26/2004	579.04	12/22/2004	580.13	3/22/2005	579.54	6/10/2005	578.41	9/21/2005	578.99	12/15/2005	579.93	3/30/2006	580.05	6/8/2006	578.43	9/27/2006	579.91	11/28/2006	579.24	3/8/2007	578.96	7/13/2007	579.67	10/1/2007	579.73	12/27/2007	580.49	3/14/2008	580.30	6/20/2008
PCL-1	595.45	592.6	568.33	2/26/200	4 568.17	6/3/2004	568.23	8/26/2004	568.29	12/22/2004	568.18	3/22/2005	568.16	6/10/2005	567.13	9/21/2005	568.33	12/15/2005	568.03	3/30/2006	567.96	6/8/2006	568.05	9/27/2006	568.21	11/28/2006	568.02	3/8/2007	567.49	7/13/2007	568.00	10/1/2007	568.06	12/27/2007	567.50	3/14/2008	567.81	6/20/2008
PCL-2	612.63	610.7	571.81	2/26/200	4 571.81	6/3/2004	571.74	8/26/2004	571.76	12/22/2004	570.18	3/22/2005	571.71	6/10/2005				12/15/2005		3/30/2006	571.52		571.56			11/28/2006		3/8/2007	572.48	7/13/2007	571.38	10/1/2007	571.50	12/27/2007	571.64	3/14/2008	571.41	6/20/2008
PCL-3	609.25	606.9	571.98	2/26/200	4 571.73	6/3/2004	571.66	8/26/2004	571.60	12/22/2004	571.89	3/22/2005	571.31	6/10/2005	571.48	9/21/2005	571.21	12/15/2005	570.45	3/30/2006	571.46	6/8/2006	571.43	9/27/2006	571.49	11/28/2006	571.49	3/8/2007	572.97	7/13/2007	571.42	10/1/2007	571.37	12/27/2007	571.55	3/14/2008	571.44	6/20/2008
PCL-4	601.62	599.6	569.97	2/26/200	4 570.02	6/3/2004	570.03	8/26/2004	570.10	12/22/2004	570.33	3/22/2005	570.32	6/10/2005				12/15/2005		3/30/2006	570.74				571.16	11/28/2006		3/8/2007	570.21	7/13/2007	570.59	10/1/2007	570.43	12/27/2007	570.51	3/14/2008	570.85	6/20/2008
PCL-5	601.98	600.1	578.75	2/26/200	4 579.58	6/3/2004	578.82	8/26/2004	578.89	12/22/2004	579.84	3/22/2005	579.38	6/10/2005				12/15/2005			579.85					11/28/2006		3/8/2007	578.85	7/13/2007	579.57	10/1/2007	579.63	12/27/2007	579.93	3/14/2008	580.22	6/20/2008

Post-Closure Wells	Post-Closure Wells

			Ma	rch		June	Sept	tember	Nov	ember	Fe	bruary	J	une	Sep	tember	Dec	cember	Ma	ırch		June	Sep	tember	Dec	ember	Ma	arch	J	une	Sept	tember	Nov	ember	M:	arch	Ju	ıne
	Top of	Ground	20	03	2	003 ⁷	2	2003	1 2	2003	1 :	2004	2	004	2	2004		2004	20	005	:	2005	:	2005	2	005	2	006	2	006	2	006	2	006	2	007	20	07
Piezomete	Casing	Surface	water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water	T
ID	Elevation	n Elevation ¹	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
PCW-1	580.40	580.5	558.10	3/26/2003	563.37	6/10/2003	558.15	9/3/2003	575.52	11/25/2003	3 574.90	2/26/2004	579.66	6/3/2004	577.46	8/26/2004	574.85	12/22/2004	564.84	3/22/2005	570.21	6/10/2005	567.39	9/21/2005	570.94	12/15/2005	568.60	3/30/2006	572.06	6/8/2006	566.84	9/27/2006	571.23	11/28/2006	564.63	3/8/2007	558.16	7/13/2007
PCW-2 ¹⁷	580.97	580.5	NA	3/26/2003	578.47	6/10/2003	578.43	9/3/2003	576.98	11/25/2003	3 578.15	2/26/2004	579.06	6/3/2004	577.79	8/26/2004	578.37	12/22/2004	n/d ¹²	3/22/2005	578.96	6/10/2005	577.95	9/21/2005	577.98	12/15/2005	579.23	3/30/2006	579.30	6/8/2006	579.69	9/27/2006	578.48	11/28/2006	579.53	3/8/2007	579.23	7/13/2007
PCW-3	579.36	580.4	NA	3/26/2003	579.03	6/10/2003	579.03	9/3/2003	578.13	11/25/2003	3 578.01	2/26/2004	579.03	6/3/2004	578.46	8/26/2004	578.71	12/22/2004	579.26	3/22/2005	578.58	6/10/2005	577.92	9/21/2005	576.51	12/15/2005	578.86	3/30/2006	579.33	6/8/2006	579.35	9/27/2006	579.17	11/28/2006	579.26	3/8/2007	578.09	7/13/2007
PCW-3R	580.38	580.4	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15
PCW-4	583.45	581.2	578.44	3/26/2003	579.22	6/10/2003	578.65	9/3/2003	577.87	11/25/2003	578.97	2/26/2004	579.84	6/3/2004	579.13	8/26/2004	578.97	12/22/2004	580.11	3/22/2005	579.53	6/10/2005	578.25	9/21/2005	578.73	12/15/2005	579.93	3/30/2006	580.06	6/8/2006	579.32	9/27/2006	579.92	11/28/2006	580.94	3/8/2007	578.87	7/13/2007
PCW-5	583.55	581.3	560.99	3/26/2003	569.95	6/10/2003	560.40	9/3/2003	569.93	11/25/2003	561.96	2/26/2004	571.61	6/3/2004	558.51	8/26/2004	571.73	12/22/2004	564.96	3/22/2005	571.77	6/10/2005	562.39	9/21/2005	570.69	12/15/2005	565.05	3/30/2006	571.35	6/8/2006	563.60	9/27/2006	570.49	11/28/2006	572.59	3/8/2007	554.18	7/13/2007
PCW-6	582.52	580.2	574.78	3/26/2003	575.48	6/10/2003	575.62	9/3/2003	574.97	11/25/2003	575.55	2/26/2004	575.68	6/3/2004	575.07	8/26/2004	575.64	12/22/2004	575.74	3/22/2005	575.53	6/10/2005	575.03	9/21/2005	574.84	12/15/2005	575.67	3/30/2006	575.69	6/8/2006	575.63	9/27/2006	575.70	11/28/2006	575.69	3/8/2007	575.52	7/13/2007
PCW-7	582.24	580.0	572.91	3/26/2003	573.90	6/10/2003	573.37	9/3/2003	572.23	11/25/2003	573.39	2/26/2004	574.43	6/3/2004	572.46	8/26/2004	572.85	12/22/2004	574.46	3/22/2005	574.08	6/10/2005	571.63	9/21/2005	571.84	12/15/2005	573.93	3/30/2006	574.26	6/8/2006	572.74	9/27/2006	573.33	11/28/2006	574.28	3/8/2007	573.21	7/13/2007
PCW-8	583.37	581.1	568.91	3/26/2003	574.49	6/10/2003	569.15	9/3/2003	573.82	11/25/2003	567.88	2/26/2004	574.89	6/3/2004	568.48	8/26/2004	574.32	12/22/2004	570.34	3/22/2005	575.17	6/10/2005	570.39	9/21/2005	573.52	12/15/2005	571.14	3/30/2006	575.04	6/8/2006	570.25	9/27/2006	574.01	11/28/2006	570.21	3/8/2007	556.52	7/13/2007
PCW-9	578.44	576.1	572.00	3/26/2003	573.42	6/10/2003	573.19	9/3/2003	571.81	11/25/2003	3 572.20	2/26/2004	573.97	6/3/2004	573.30	8/26/2004	572.52	12/22/2004	573.71	3/22/2005	574.10	6/10/2005	572.08	9/21/2005	571.91	12/15/2005	573.34	3/30/2006	573.72	6/8/2006	572.54	9/27/2006	573.00	11/28/2006	573.34	3/8/2007	573.95	7/13/2007
PCW-10	582.89	582.2	578.77	3/26/2003	578.58	6/10/2003	578.88	9/3/2003	577.94	11/25/2003	3 578.22	2/26/2004	578.82	6/3/2004	578.69	8/26/2004	578.38	12/22/2004	578.82	3/22/2005	578.80	6/10/2005	578.39	9/21/2005	578.15	12/15/2005	578.71	3/30/2006	578.98	6/8/2006	578.70	9/27/2006	578.65	11/28/2006	578.48	3/8/2007	578.44	7/13/2007
PCW-11	582.60	583.1	578.16	3/26/2003	578.87	6/10/2003	578.26	9/3/2003	577.57	11/25/2003	578.63	2/26/2004	579.48	6/3/2004	578.77	8/26/2004	578.65	12/22/2004	579.60	3/22/2005	579.07	6/10/2005	576.92	9/21/2005	570.91	12/15/2005	579.45	3/30/2006	579.57	6/8/2006	579.14	9/27/2006	579.52	11/28/2006	579.62	3/8/2007	577.84	7/13/2007
PCW-12	584.08	581.6	576.08	3/26/2003	577.10	6/10/2003	576.66	9/3/2003	575.94	11/25/2003	576.67	2/26/2004	577.65	6/3/2004	577.01	8/26/2004	576.69	12/22/2004	577.76	3/22/2005	577.39	6/10/2005	576.30	9/21/2005	576.37	12/15/2005	577.48	3/30/2006	577.56	6/8/2006	577.11	9/27/2006	577.46	11/28/2006	577.71	3/8/2007	577.00	7/13/2007
PCW-13	582.74	580.4	572.86	3/26/2003	573.15	6/10/2003	573.01	9/3/2003	572.68	11/25/2003	573.89	2/26/2004	574.20	6/3/2004	573.83	8/26/2004	573.38	12/22/2004	574.57	3/22/2005	574.47	6/10/2005	573.62	9/21/2005	573.75	12/15/2005	574.92	3/30/2006	575.02	6/8/2006	574.52	9/27/2006	574.86	11/28/2006	574.93	3/8/2007	574.53	7/13/2007
PCW-14	582.77	580.4	571.74	3/26/2003	572.77	6/10/2003	572.85	9/3/2003	571.36	11/25/2003	571.54	2/26/2004	573.26	6/3/2004	573.22	8/26/2004	571.97	12/22/2004	573.21	3/22/2005	573.50	6/10/2005	572.68	9/21/2005	571.76	12/15/2005	572.72	3/30/2006	573.06	6/8/2006	572.35	9/27/2006	572.61	11/28/2006	572.87	3/8/2007	572.26	7/13/2007

Groundwater Monitoring Wells & Stream Gauges

Groundwater	Monitoring	Wells & Stream	
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			Ju	ne	Sep	tember	Nov	vember	F	ebruary	J	une	Sep	tember	De	cember	N.	arch	J	lune	Sep	otember	De	ember	Ma	arch	Ju	ine	Sep	tember	No	vember	M	arch	J	une	Oct	ober
	Top of	Ground	20	03	2	003	1	2003		2004	2	004	1 2	004	:	2004	:	2005	2	2005		2005		2005	2	006	20	06	2	2006		2006	2	007	2	2007	20	007
	Casing	Surface	water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water	
Well ID	Elevation	Elevation ¹	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
GW-1	580.53	580.9	575.83	6/10/2003	576.05	9/3/2003	575.10	11/25/200	3 575.30	2/26/200	4 576.32	6/3/2004	574.99	8/26/2004	575.33	12/22/200	4 576.18	3/22/2005	575.74	6/10/2005	574.71	9/21/2005	574.86	12/15/2005	574.62	3/30/2006	575.78	6/8/2006	575.38	9/27/2006	575.62	11/28/2006	575.70	3/8/2007	575.38	7/13/2007	575.40	10/1/200
GW-2	582.31	580.0	575.22	6/10/2003	576.55	9/3/2003	573.93	11/25/200	3 574.99	2/26/200	4 576.32	6/3/2004	572.95	8/26/2004	574.88	12/22/200	4 576.28	3/22/2005	576.61	6/10/2005	572.19	9/21/2005	573.27	12/15/2005	575.66	3/30/2006	575.59	6/8/2006	573.94	9/27/2006	574.85	11/28/2006	576.17	3/8/2007	573.34	7/13/2007	573.23	10/1/200
GW-3	581.41	579.1	574.70	6/10/2003	575.00	9/3/2003	574.52	11/25/200	3 575.08	2/26/200	4 575.20	6/3/2004	574.10	8/26/2004	574.77	12/22/200	4 575.63	3/22/2005	574.81	6/10/2005	573.51	9/21/2005	574.16	12/15/2005	574.77	3/30/2006	574.77	6/8/2006	574.36	9/27/2006	574.86	11/28/2006	575.26	3/8/2007	573.96	7/13/2007	574.06	10/1/200
GW-4	581.40	579.2	575.17	6/10/2003	575.45	9/3/2003	573.42	11/25/200	3 574.85	2/26/200	4 576.16	6/3/2004	573.80	8/26/2004	575.46	12/22/200	4 577.13	3/22/2005	574.84	6/10/2005	572.75	9/21/2005	573.42	12/15/2005	576.29	3/30/2006	575.93	6/8/2006	574.36	9/27/2006	576.66	11/28/2006	575.10	3/8/2007	573.86	7/13/2007	574.34	10/1/200
GW-5	580.15	578.1	573.80	6/10/2003	573.47	9/3/2003	572.51	11/25/200	3 573.90	2/26/200	4 574.57	6/3/2004	573.08	8/26/2004	574.15	12/22/200	4 574.63	3/22/2005	573.76	6/10/2005	572.22	9/21/2005	572.46	12/15/2005	574.51	3/30/2006	574.20	6/8/2006	572.80	9/27/2006	574.35	11/28/2006	573.84	3/8/2007	573.04	7/13/2007	573.15	10/1/200
GW-6	579.74	577.5	574.86	6/10/2003	575.14	9/3/2003	574.17	11/25/200	3 574.05	2/26/200	4 575.85	6/3/2004	573.88	8/26/2004	575.41	12/22/200	4 576.43	3/22/2005	574.61	6/10/2005	573.00	9/21/2005	573.74	12/15/2005	575.68	3/30/2006	575.43	6/8/2006	574.92	9/27/2006	576.08	11/28/2006	575.40	3/8/2007	573.83	7/13/2007	574.48	10/1/200
GW-7	580.52	578.2	573.85	6/10/2003	573.19	9/3/2003	572.82	11/25/200	3 575.68	2/26/200	4 574.94	6/3/2004	571.92	8/26/2004	575.12	12/22/200	4 575.93	3/22/2005	573.24	6/10/2005	571.59	9/21/2005	572.55	12/15/2005	575.23	3/30/2006	574.17	6/8/2006	572.81	9/27/2006	575.37	11/28/2006	575.37	3/8/2007	572.01	7/13/2007	572.70	10/1/200
GW-8	583.07	580.8	572.61	6/10/2003	576.78	9/3/2003	575.20	11/25/200	3 575.74	2/26/200	4 574.66	6/3/2004	572.16	8/26/2004	577.47	12/22/200	4 574.68	3/22/2005	572.12	6/10/2005	572.05	9/21/2005	572.08	12/15/2005	572.37	3/30/2006	572.08	6/8/2006	572.07	9/27/2006	572.63	11/28/2006	573.46	3/8/2007	572.17	7/13/2007	572.08	10/1/200
GW-9	580.44	578.0	572.42	6/10/2003	574.06	9/3/2003	574.10	11/25/200	3 573.32	2/26/200	4 573.21	6/3/2004	572.37	8/26/2004	572.80	12/22/200	4 573.78	3/22/2005	572.58	6/10/2005	571.18	9/21/2005	572.12	12/15/2005	572.96	3/30/2006	572.22	6/8/2006	571.87	9/27/2006	573.07	11/28/2006	573.19	3/8/2007	571.44	7/13/2007	571.55	10/1/200
GW-10	582.48	580.0	573.72	6/10/2003	575.53	9/3/2003	574.51	11/25/200	3 574.10	2/26/200	4 575.27	6/3/2004	575.30	8/26/2004	574.30	12/22/200	4 574.56	3/22/2005	573.26	6/10/2005	570.12	9/21/2005	573.50	12/15/2005	574.27	3/30/2006	573.64	6/8/2006	573.13	9/27/2006	574.40	11/28/2006	573.41	3/8/2007	572.06	7/13/2007	574.75	10/1/200
GW-11	582.93	580.7	n/d ²		n/d ²		n/d ²		n/d ²		n/d ²		n/d ²		n/d ²		n/d ²		n/d ²		n/d ²		n/d ²		n/d ²		n/d ²		n/d ²		n/d ²		n/d ²		n/d ²		n/d ²	T
GW-11R	580.23	580.7	571.94	6/10/2003	571.42	9/3/2003	570.85	11/25/200	3 573.43	2/26/200	4 575.24	6/3/2004	574.03	8/26/2004	573.76	12/22/200	4 572.45	3/22/2005	575.29	6/10/2005	569.74	9/21/2005	570.40	12/15/2005	572.70	3/30/2006	572.05	6/8/2006	573.80	9/27/2006	574.17	11/28/2006	574.87	3/8/2007	574.44	7/13/2007	574.34	10/1/200
GW-12	580.87	578.4	571.06	6/10/2003	570.79	9/3/2003	568.74	11/25/200	3 572.97	2/26/200	4 573.27	6/3/2004	571.91	8/26/2004	572.88	12/22/200	4 571.24	3/22/2005	572.72	6/10/2005	567.64	9/21/2005	567.64	12/15/2005	570.79	3/30/2006	571.26	6/8/2006	571.46	9/27/2006	573.17	11/28/2006	573.51	3/8/2007	571.37	7/13/2007	570.89	10/1/200
GW-13	583.70	581.3	578.54	6/10/2003	578.49	9/3/2003	578.16	11/25/200	3 573.48	2/26/200	4 574.27	6/3/2004	571.34	8/26/2004	573.07	12/22/200	4 578.52	3/22/2005	573.81	6/10/2005	577.96	9/21/2005	582.91	12/15/2005	579.89	3/30/2006	578.64	6/8/2006	570.91	9/27/2006	572.67	11/28/2006	574.00	3/8/2007	573.18	7/13/2007	572.32	10/1/200
GW-14	578.48	578.9	574.69	6/10/2003	574.65	9/3/2003	573.36	11/25/200	3 573.44	2/26/200	4 573.66	6/3/2004	577.11	8/26/2004	573.10	12/22/200	4 573.48	3/22/2005	573.34	6/10/2005	574.09	9/21/2005	572.80	12/15/2005	573.73	3/30/2006	575.10	6/8/2006	573.30	9/27/2006	573.57	11/28/2006	573.43	3/8/2007	573.00	7/13/2007	n/d	10/1/200
GW-15	582.69	581.8	574.74	6/10/2003	574.71	9/3/2003	573.22	11/25/200	3 576.48	2/26/200	4 579.08	6/3/2004	578.83	8/26/2004	577.36	12/22/200	4 578.98	3/22/2005	579.21	6/10/2005	577.71	9/21/2005	577.95	12/15/2005	578.77	3/30/2006	578.74	6/8/2006	575.56	9/27/2006	577.65	11/28/2006	576.55	3/8/2007	579.18	7/13/2007	n/d	10/1/200
GW-16	585.90	583.5	564.02	6/10/2003	564.08	9/3/2003	563.87	11/25/200	3 576.24	2/26/200	4 n/d 10		n/d 10		n/d 10		n/d 10		n/d 10		n/d 10		n/d 10		n/d 10		n/d 10		n/d 10		n/d 10		n/d 10		n/d 10		n/d 10	
GW-16R	583.35	580.6	n/d 11		n/d 11		n/d 11		n/d 11		n/d 11		n/d 11		n/d 11		579.64	3/22/2005	579.31	6/10/2005	562 71	9/21/2005	564 57	12/15/2005	563 99	3/30/2006	564 47	6/8/2006	578 89	9/27/2006	579 29	11/28/2006	579 37	3/8/2007	578.58	7/13/2007	579.04	10/1/200

		Febr	uary		une	Sep	tember		cember		larch		lune	Sept	tember		cember	Ma	arch		June	Sept	tember	Nov	ember	Ma	rch	Ju	une		ctober		ember		arch	Ju	ne
		20	04	2	2004	2	2004		2004	1 2	2005		2005	2	2005		2005	20	006	1 2	2006	2	2006	2	2006	20	07	20	007		2007	2	007	20	800	20	80
Stream	Monument	water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water	
Gauge	Elevation	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
SG-1	578.01	n/d (dry)	2/26/2004	573.67	6/3/2004	n/d (dry)	8/26/2004	573.07	12/22/2004	573.42	3/22/2005	n/d (dry)	6/10/2005	n/d (dry)	9/21/2005	n/d (dry)	12/15/2005	n/d (dry)	3/30/2006	n/d (dry)	6/8/2006	n/d (dry)	9/27/2006	n/d (dry)	11/28/2006	574.25	3/8/2007	n/d (dry)	7/13/2007	n/d (dry)	10/1/2007	n/d (dry)	12/27/2007	574.09	3/14/2008	573.82	6/20/2008
SG-2	576.70	571.98	2/26/2004	573.53	6/3/2004	574.51	8/26/2004	572.30	12/22/2004	573.31	3/22/2005	4.00	6/10/2005	572.20	9/21/2005	572.18	12/15/2005	572.80	3/30/2006	573.22	6/8/2006	572.70	9/27/2006	572.92	11/28/2006	572.98	3/8/2007	574.27	7/13/2007	572.49	10/1/2007	571.81	12/27/2007	573.38	3/14/2008	573.08	6/20/2008
SG-3	581.62	583.04	2/26/2004	573.41	6/3/2004	572.71	8/26/2004	572.83	12/22/2004	573.66	3/22/2005	8.32	6/10/2005	572.84	9/21/2005	572.61	12/15/2005	573.22	3/30/2006	573.38	6/8/2006	573.30	9/27/2006	573.09	11/28/2006	573.95	3/8/2007	573.36	7/13/2007	573.50	10/1/2007	573.72	12/27/2007	574.40	3/14/2008	574.20	6/20/2008
SG-4	579.37	573.34	2/26/2004	573.71	6/3/2004	n/d (dry)	8/26/2004	572.67	12/22/2004	573.30	3/22/2005	n/d (dry)	6/10/2005	n/d (dry)	9/21/2005	n/d (dry)	12/15/2005	573.57	3/30/2006	573.83	6/8/2006	n/d (dry)	9/27/2006	n/d (dry)	11/28/2006	574.25	3/8/2007	n/d (dry)	7/13/2007	n/d (dry)	10/1/2007	573.23	12/27/2007	574.43	3/14/2008	574.31	6/20/2008
SG-5	578.11	571.89	2/26/2004	573.48	6/3/2004	572.96	8/26/2004	572.23	12/22/2004	573.16	3/22/2005	5.57	6/10/2005	572.08	9/21/2005	571.94	12/15/2005	572.59	3/30/2006	573.10	6/8/2006	572.54	9/27/2006	572.75	11/28/2006	573.00	3/8/2007	572.30	7/13/2007	572.45	10/1/2007	571.71	12/27/2007	573.13	3/14/2008	573.37	6/20/2008
SG-6	578.81	571.94	2/26/2004	573.23	6/3/2004	572.80	8/26/2004	572.35	12/22/2004	572.99	3/22/2005	10.32	6/10/2005	571.99	9/21/2005	571.84	12/15/2005	572.55	3/30/2006	572.90	6/8/2006	568.49	9/27/2006	568.72	11/28/2006	568.96	3/8/2007	565.00	7/13/2007	572.1	10/1/2007	572.25	12/27/2007	573.14	3/14/2008	569.67	6/20/2008

Leachate Collection System Cleanouts Western Containment Unit

Leachate Collection System Cleanor Western Containment Unit

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1		Febr			une		otember	De	cember		larch		June		tember		cember		arch		une		ember		ember		larch		une		tober		ember		arch	Jun	-
	Top of	20	04		004		2004		2004		2005		2005		2005		2005		006		006		006		006		2007		007		007		007		800	200	18
Cleanout	Cleanout	water	1	water		water		water	1	water		water		water		water	l	water	l	water		water		water		water		water		water		water		water		water	1 1
ID	Elevation	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
D1-1	589.0	n/d	2/26/2004	n/d	6/3/2004	n/d	8/26/2004	l n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	3/14/2008	n/d	6/20/2008
D1-2	588.4	n/d	2/26/2004	n/d	6/3/2004	n/d	8/26/2004	n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	3/14/2008	n/d	6/20/2008
D1-3	588.7	n/d	2/26/2004	n/d	6/3/2004	n/d	8/26/2004	n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	3/14/2008	n/d	6/20/2008
D2-1	587.8	n/d	2/26/2004	n/d	6/3/2004	n/d	8/26/2004	n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	3/14/2008	n/d	6/20/2008
D2-2	586.2	n/d	2/26/2004	n/d	6/3/2004	n/d	8/26/2004	n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	567.10	7/13/2007	567.10	10/1/2007	567.10	12/27/2007	567.10	3/14/2008	567.10	6/20/2008
D2-3	588.0	n/d	2/26/2004	n/d	6/3/2004	n/d	8/26/2004	n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	566.90	7/13/2007	566.90	10/1/2007	566.90	12/27/2007	566.90	3/14/2008	566.90	6/20/2008
D2-4	589.3	n/d	2/26/2004	n/d	6/3/2004	n/d	8/26/2004	n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	3/14/2008	n/d	6/20/2008
D3-1	587.4	n/d	2/26/2004	n/d	6/3/2004	n/d	8/26/2004	n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	3/14/2008	n/d	6/20/2008
D3-2	589.3	n/d	2/26/2004	n/d	6/3/2004	n/d	8/26/2004	n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	567.40	7/13/2007	567.40	10/1/2007	567.40	12/27/2007	567.40	3/14/2008	567.40	6/20/2008
D3-3	593.4	n/d	2/26/2004	n/d	6/3/2004	n/d	8/26/2004	l n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	3/14/2008	n/d	6/20/2008
D3-4	588.0	n/d	2/26/2004	n/d	6/3/2004	n/d	8/26/2004	n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	3/14/2008	n/d	6/20/2008
D4-1	589.9	n/d	2/26/2004	n/d	6/3/2004	n/d	8/26/2004	n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	3/14/2008	n/d	6/20/2008
D4-2	589.5	n/d	2/26/2004	n/d	6/3/2004	n/d	8/26/2004	n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	3/14/2008	n/d	6/20/2008
D4-3	590.1	n/d	2/26/2004	n/d	6/3/2004	n/d	8/26/2004	l n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	3/14/2008	n/d	6/20/2008
DN(W)	590.7	568.11	2/26/2004	564.63	6/3/2004	25.10	8/26/2004	565.60	12/22/200	4 565.86	3/22/2005	565.86	6/10/2005	565.08	9/21/2005	565.13	12/15/2005	566.03	3/30/2006	566.17	6/8/2006	562.94	9/27/2006	562.04	11/28/2006	6 554.70	3/8/2007	566.00	7/13/2007	566.00	10/1/2007	566.00	12/27/2007	566.00	3/14/2008	566.00	6/20/2008
DN(E)	588.5	563.17	2/26/2004	563.15	6/3/2004	25.29	8/26/2004	563.21	12/22/200	4 563.28	3/22/2005	569.17	6/10/2005	563.26	9/21/2005						6/8/2006	567.23	9/27/2006	559.4	11/28/2006	6 564.50	3/8/2007	567.50	7/13/2007	567.50	10/1/2007	567.50	12/27/2007	567.50	3/14/2008	567.50	6/20/2008
DW	588.5	558.72	2/26/2004	563.21	6/3/2004	30.92	8/26/2004	557.58			3/22/2005						12/15/2005		3/30/2006		6/8/2006	582.62	9/27/2006	553.39	11/28/2006	551.32	3/8/2007	565.00	7/13/2007	565.00	10/1/2007	565.00	12/27/2007	565.00	3/14/2008	565.00	6/20/2008
DS(W)	588.5	564.93	2/26/2004	563.77	6/3/2004	24.89	8/26/2004	563.61					6/10/2005										9/27/2006	568.39	11/28/2006	559.52	3/8/2007	564.70	7/13/2007	564.70	10/1/2007	564.70	12/27/2007	564.70	3/14/2008	564.70	6/20/2008
DS(E)	588.0	568.65	2/26/2004	563.95	6/3/2004	24.37							6/10/2005								6/8/2006	560.04	9/27/2006	560.73	11/28/2006	552.90	3/8/2007	567.10	7/13/2007	567.10	10/1/2007	567.10	12/27/2007	567.10	3/14/2008	567.10	6/20/2008
DF	589.3	572.73	2/26/2004	570.29	6/3/2004	19.11							6/10/2005				12/15/2005						9/27/2006					567.20	7/13/2007	567.20	10/1/2007	567.20	12/27/2007	567.20	3/14/2008	567.20	6/20/2008

Leachate Collection System Cleanouts Eastern Containment Unit

Leachate Collection System Cleanor Eastern Containment Unit

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		Febr	uary		June	Se	ptember	De	ecember	N	larch		June	Sep	tember	Dec	ember	M	arch		une	Sep	tember	No	vember	M	arch		June	00	ctober	Dec	ember	M	March	Ju	ine
	Top of	20	04		2004		2004		2004	1 :	2005	2	2005		2005	2	2005	2	006	2	006	2	2006	1 :	2006	2	007	:	2007	1 2	2007	1 :	2007	1 2	2008	20	08
Cleanout	Cleanout	water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water	
ID	Elevation	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
A-1	588.6	n/d	2/26/2004	n/d	6/3/2004	n/d	8/26/2004	1 n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	565.90	7/13/2007	565.90	10/1/2007	565.90	12/27/2007		3/14/2008	565.90	6/20/2008
A-2	-	CLEANOUT																																	OUT EMPTIES		
A-3	582.5		2/26/2004		6/3/2004	n/d			12/22/200		3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d		7/13/2007				12/27/2007				6/20/2008
A-4	581.9		2/26/2004		6/3/2004	n/d	8/26/2004		12/22/200		3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d		7/13/2007				12/27/2007			564.20	6/20/2008
A-5	583.3		2/26/2004			11/0	8/26/2004		12/22/200		3/22/2005		6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d		7/13/2007	564.80	10/1/2007	564.80	12/27/2007		3/14/2008	564.80	6/20/2008
B-1	585.0		2/26/2004		6/3/2004	n/d	8/26/2004		12/22/200		3/22/2005		6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	566.30	7/13/2007	566.30	10/1/2007	566.30	12/27/2007	566.30		566.30	6/20/2008
B-2	584.8		2/26/2004		6/3/2004	n/d	8/26/2004	1 n/d	12/22/200		3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	3/14/2008	n/d	6/20/2008
B-3	586.4	n/d	2/26/2004	n/d	6/3/2004	n/d	8/26/2004	1 n/d	12/22/200		3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	3/14/2008	n/d	6/20/2008
B-4	586.2		2/26/2004	n/d	6/3/2004	n/d	8/26/2004	1 n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	3/14/2008	n/d	6/20/2008
C1-1	583.8		2/26/2004	n/d	6/3/2004	n/d	8/26/2004	1 n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	3/14/2008	n/d	6/20/2008
C1-2	584.1		2/26/2004		6/3/2004	n/d	8/26/2004		12/22/200		3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d		3/14/2008	n/d	6/20/2008
C1-3	583.2		2/26/2004	n/d	6/3/2004	n/d	8/26/2004	1 n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d		3/14/2008	n/d	6/20/2008
C1-4 ¹⁸	583.1		2/26/2004	n/d	6/3/2004	n/d	8/26/2004	1 n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	563.00	7/13/2007	563.00	10/1/2007	563.00	12/27/2007		3/14/2008	563.00	6/20/2008
C1-5	586.9		2/26/2004		6/3/2004		8/26/2004		12/22/200		3/22/2005		6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d		3/14/2008	n/d	6/20/2008
C1-6	586.2		2/26/2004		6/3/2004	n/d	8/26/2004	1 n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d		3/14/2008	n/d	6/20/2008
C2-1	586.3		2/26/2004		6/3/2004	n/d	8/26/2004	1 n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	3/14/2008	n/d	6/20/2008
C2-2	586.4		2/26/2004		0,0,00	n/d	8/26/2004		12/22/200		3/22/2005		6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d		3/14/2008	n/d	6/20/2008
C2-3	586.5		2/26/2004		6/3/2004	n/d	8/26/2004		12/22/200	4 n/d	3/22/2005		6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	565.80	7/13/2007	565.80	10/1/2007		12/27/2007		3/14/2008	565.80	6/20/2008
C2-4	586.1		2/26/2004		6/3/2004	n/d	8/26/2004		12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	567.60	7/13/2007	567.60	10/1/2007	567.60	12/27/2007	567.60	0, , ,, _ 0 0 0 0	567.60	6/20/2008
C2-5	586.6		2/26/2004		6/3/2004	n/d	8/26/2004	1 n/d	12/22/200		3/22/2005	11/0	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	3/14/2008	n/d	6/20/2008
C2-6	585.9	1170	2/26/2004	n/d	6/3/2004	n/d	8/26/2004		12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	n/d	3/14/2008	n/d	6/20/2008
AN	585.3	560.78	2/26/2004	565.81	6/3/2004	26.03	8/26/2004	559.27	12/22/200	4 560.10	3/22/2005	558.45	6/10/2005	559.75	9/21/2005	558.45	12/15/2005	559.46	3/30/2006	561.26	6/8/2006	574.05	9/27/2006	562.56	11/28/2006	559.30	3/8/2007	565.10	7/13/2007	565.10	10/1/2007	565.10	12/27/2007		3/14/2008	565.10	6/20/2008
AW(N)	588.2	565.55	2/26/2004	565.40	6/3/2004	22.79	8/26/2004	1 565.41	12/22/200	4 565.18	3/22/2005	565.37	6/10/2005	565.38	9/21/2005	574.87	12/15/2005	565.31	3/30/2006	565.09	6/8/2006	581.70	9/27/2006	561.60	11/28/2006	567.20	3/8/2007	565.00	7/13/2007	565.00	10/1/2007	565.00	12/27/2007		3/14/2008	566.52	6/20/2008
AW(S)	582.7		2/26/2004		6/3/2004	17.23	8/26/2004		12/22/200			000.07	6/10/2005	561.86	9/21/2005	566.92	12/15/2005	000.11			6/8/2006	560.94	0,2.,2000			559.72	3/8/2007	565.00	7/13/2007	565.00	10/1/2007	000.00	12/27/2007		3/14/2008	565.00	6/20/2008
BN	584.8		2/26/2004	n/d	6/3/2004	n/d	8/26/2004	1 n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	12/15/2005	n/d	3/30/2006		6/8/2006	n/d	n/d	n/d	n/d	n/d	n/d	564.90	7/13/2007	564.90	10/1/2007	564.90	12/27/2007			564.90	6/20/2008
BE	586.3	560.98	2/26/2004	568.47	6/3/2004	24.98	8/26/2004	561.32	12/22/200	4 562.07	3/22/2005	560.41	6/10/2005	575.47	9/21/2005	576.53	12/15/2005	576.18	3/30/2006	576.18	6/8/2006	575.30		574.67		573.80	3/8/2007	567.40	7/13/2007	567.40	10/1/2007	567.40	12/27/2007		3/14/2008	567.40	6/20/2008
C1W	582.9		2/26/2004		6/3/2004							000.00	6/10/2005	558.74		556.99	12 10 2000					565.88			11/28/2006		3/8/2007		7/13/2007	564.70	10/1/2007	001110	12/27/2007		3/14/2008	564.70	6/20/2008
C1S ⁸	586.0						8/26/2004																9/27/2006							566.30			12/27/2007			566.30	6/20/2008
C2E	586.1		2/26/2004		6/3/2004	28.35							6/10/2005	557.19		558.39					6/8/2006				n/d	552.10			7/13/2007	565.00	10/1/2007		12/27/2007		3/14/2008		6/20/2008
C2S	585.4	n/d	2/26/2004	n/d	6/3/2004	n/d	8/26/2004	1 n/d	12/22/200	4 n/d	3/22/2005	n/d	6/10/2005	n/d	9/21/2005	n/d	12/15/2005	n/d	3/30/2006	n/d	6/8/2006	n/d	n/d	n/d	n/d	n/d	n/d	563.00	7/13/2007	563.00	10/1/2007	563.00	12/27/2007	563.00	3/14/2008	563.00	6/20/2008

Leachate Collection System Manholes

Leachate Collection System Manhol

Eastern Containment Unit

Eastern Containment Unit

	Fel	bruary	J	une	Sept	tember	De	cember	N	arch		June	Sep	tember	De	cember	M	arch	J	une	Sep	tember	Nov	ember	Ma	ırch	J	une	00	ctober	Dec	cember	M:	arch	Jun	ie
		2004	2	004	2	004		2004	1 2	005		2005	1	2005		2005	1 2	006	2	006	2	006	1 2	2006	20	007	2	007	- 2	2007	2	2007	2/	008	200	18
Manh	le water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water	
ID	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
LMH	1 562.00	2/26/2004	562.81	6/3/2004	561.86	8/26/2004	561.37	12/22/2004	563.05	3/22/2005	562.21	6/10/2005	562.65	9/21/2005	562.01	12/15/2005	562.33	3/30/2006	562.93	6/8/2006	562.96	9/27/2006	562.96	11/28/2006	561.63	3/8/2007	556.47	7/13/2007	556.70	10/1/2007	556.90	12/27/2007	557.13	3/14/2008	556.95	6/20/2008
LMH	2 563.05	2/26/2004	566.78	6/3/2004	565.97	8/26/2004	568.28	12/22/2004	569.83	3/22/2005	563.81	6/10/2005	562.85	9/21/2005	564.71	12/15/2005	564.13	3/30/2006	564.61	6/8/2006	564.29	9/27/2006	564.29	11/28/2006	559.70	3/8/2007	561.71	7/13/2007	561.56	10/1/2007	560.68	12/27/2007	561.59	3/14/2008	560.39	6/20/2008
LMH	3 563.38	2/26/2004	563.09	6/3/2004	562.91	8/26/2004	563.03	12/22/2004	563.33	3/22/2005	563.45	6/10/2005	561.91	9/21/2005	559.89	12/15/2005	563.03	3/30/2006	562.94	6/8/2006	562.77	9/27/2006	562.77	11/28/2006	563.61	3/8/2007	563.67	7/13/2007	563.65	10/1/2007	563.48	12/27/2007	562.38	3/14/2008	560.01	6/20/2008
LMH	1 550 07	2/26/200/	550 31	6/3/2004	558 85	8/26/2004	550 56	12/22/2004	550 08	3/22/2005	561 08	6/10/2005	550 25	0/21/2005	560.00	12/15/2005	550 08	3/30/2006	560.03	6/8/2006	550 75	9/27/2006	550 75	11/28/2006	550.66	3/8/2007	560.04	7/13/2007	561 13	10/1/2007	550 30	12/27/2007	560 13	3/14/2008	561 10	6/20/2008

Western Containment Unit

	Febru 200	uary 04	ž	lune 2004		tember 2004		cember 2004		larch 2005		lune 2005		tember 005		ember 005		arch 006		June 2006		otember 2006		ember 2006		larch 2007		lune 2007		ctober 2007		ember 2007		arch 008	Ju 20	ne 08
Manhole	water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water	1
ID	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
LMH-5	561.86	2/26/2004	561.26	6/3/2004	561.29	8/26/2004	560.97	12/22/2004	555.91	3/22/2005	561.56	6/10/2005	561.95	9/21/2005	560.47	12/15/2005	561.96	3/30/2006	561.93	6/8/2006	561.71	9/27/2006	561.71	11/28/2006	558.89	3/8/2007	559.37	7/13/2007	560.07	10/1/2007	558.55	12/27/2007	557.24	3/14/2008	557.09	6/20/2008
LMH-6	567.54	2/26/2004	564.04	6/3/2004	564.44	8/26/2004	562.46	12/22/2004	563.92	3/22/2005	564.54	6/10/2005	563.86	9/21/2005	564.00	12/15/2005	563.90	3/30/2006	563.92	6/8/2006	564.40	9/27/2006	564.40	11/28/2006	560.90	3/8/2007	561.63	7/13/2007	559.97	10/1/2007	560.68	12/27/2007	559.96	3/14/2008	560.12	6/20/2008
LMH-7	572.70	2/26/2004	566.92	6/3/2004	567.60	8/26/2004	564.49	12/22/2004	566.95	3/22/2005	567.78	6/10/2005	567.63	9/21/2005	567.63	12/15/2005	568.55	3/30/2006	567.57	6/8/2006	567.86	9/27/2006	567.86	11/28/2006	565.05	3/8/2007	565.56	7/13/2007	567.33	10/1/2007	565.26	12/27/2007	567.01	3/14/2008	566.05	6/20/2008

- Ground surface elevations were determined at the time of well/piezometer installation.
 Ground water monitoring well GW-11 was destroyed between 7/2/99 and 11/9/99. Replacement well GW-11R installed on 5/17/00
 Top of casing elevation prior to 1/25/00 = 590.64 (casing was trimmed so outer protective casing lid would close completely).
 Groundwater elevation data collected on this date was used primarily for well volume calculations See following Sept 01 data for hydraulic monitoring
 Well filled with water due to truck damage
 Top of casing elevation prior to 5/21/03 = 579.94 (casing was trimmed for a level TOC elevation).
 Top of casing elevation prior to 5/21/03 = 588.25 (cleanout piping was mended)
 Top of casing elevation prior to Cutober 2003: PCW-1=579.76, PCW-2=579.89, PCW-10=582.31 (TOCs were extended due to raised well pads)
 GW-16 removed during EDSA interim response activities
- GW-16r was installed on 12/10/04 upon completion of EDSA interim response activities for replacement of GW-16. Top-of-casing elevation is 583.35 msl.
 Water elevation for PCW-2 was not obtained due to well damage from truck.
 Top of casing elevation prior to April 20, 2005: PCP-11=590.55, PCW-2=580.40 (casing was trimmed so well casing could closed and locked properly)
- 14. PCP-15, PCP-16 and PCP-17 were installed on March 20, 2008.

- 15. PCW-3 removed on 3/16/10
 16. PCW-3R was installed on 2/26/10
 17. PCW-2 Top of casing elevation prior to April 6, 2012: 580.33 (casing was extended due to continued submersion)
 18. C1-4 Top of casing prior to July 2012: 581.5 (casing was extended due to damage).

 n/d denotes data not determined or available

Post-Closure Piezometers

			Septe	mbar I	Dana	mber	Mar	rah I			Septe	bar	Das	ember	М.	arch		las.	Cant	ember	Dane	ember	Ma	rah	lum .		Cont	ember	Dece		Ma			
	Top of	Ground	20			108	Mar 200			une 009	20			009		010		lay 010)10		010	W a		Jur 201			011	20		1VI a		20	ine
Piezometer	Casing	Surface	water	08	water	108	water	09	water	JU9	water	09	water	009	water	J10	water	710	water	חט	water	710	water	J11	201	1	water	711	water	11	water	12	water	12
ID	Elevation	Elevation ¹	elev	data	olov	date	olov	date	elev	date	olov	date	olov	data	elev	date	elev	date	elev	date	olov	date	elev	date	water elev	date	elev	date	olov	date	elev	date	elev	date
PCP-1	585.94	583.6	564.99	0/20/2008	565.44	12/3/2008	565.27	3/20/2000	565.40	6/18/2009	565.48	9/25/2009	565.36	12/23/2000		3/18/2010		5/21/2010	565.48	9/9/2010	565.51	12/8/2010	565.30	3/16/2011	566.14	6/16/2011	585.94	0/30/2011	565.62	12/8/2011	565.50	3/27/2012		6/15/2012
PCP-2	586.48	584.0	578.20	9/29/2008	577.43	12/3/2008	579.34	3/20/2009	579.06	6/18/2009	578 15	9/25/2009	578 19	12/23/2009	578.82	3/18/2010	579.29	5/21/2010	577.38	9/9/2010	577.38	12/8/2010	579.05	3/16/2011	578.63	6/16/2011	578 12	9/30/2011	579 18	12/8/2011	579.70	3/27/2012	578.37	6/15/2012
PCP-3	586.33	583.5	578.81	9/29/2008	578.02	12/3/2008	580.02	3/20/2000	579.68	6/18/2000	578.02	9/25/2000	578.02	12/23/2000	570.02	3/18/2010	570.08	5/21/2010	577.98	9/9/2010	578.01	12/8/2010	579.81	3/16/2011	580.43	6/16/2011	578 73	9/30/2011	580.02	12/8/2011	579.47	3/27/2012	578.36	6/15/2012
PCP-4	589 99	589.4	571.55	9/29/2008	571.50	12/3/2008	571.51	3/20/2009	571.55	6/18/2009	571.52	9/25/2009	571.34	12/23/2009	571.12	3/18/2010	571.36	5/21/2010	571.16	9/9/2010	571.34	12/8/2010	571.19	3/16/2011	571.33	6/16/2011	571.50	9/30/2011	571.59	12/8/2011	571.26	3/27/2012	571.12	6/15/2012
PCP-5	588.54	586.7	566.03	9/29/2008	565.89	12/3/2008	565.97	3/20/2009	566.10	6/18/2009	565.94	9/25/2009	565.98	12/23/2009	565.99	3/18/2010	566.13	5/21/2010	565.98	9/9/2010	565.94	12/8/2010	566.06	3/16/2011	566.26	6/16/2011	566.11	9/30/2011	566.17	12/8/2011	566.26	3/27/2012	566.13	6/15/2012
PCP-6	587.45	585.1	566.63	9/29/2008	566.47	12/3/2008	566.20	3/20/2009	566.35	6/18/2009	566.55	9/25/2009	566.43	12/23/2009	566.23	3/18/2010	566.36	5/21/2010	566.66	9/9/2010	566.55	12/8/2010	566.26	3/16/2011	566.34	6/16/2011	566.70	9/30/2011	566.63	12/8/2011	566.30	3/27/2012	566.32	6/15/2012
PCP-7	588.09	587.7	565.24	9/29/2008	565.59	12/3/2008	565.33	3/20/2009	564.25	6/18/2009	565.38	9/25/2009	565.47	12/23/2009	565.23	3/18/2010	565.20	5/21/2010	565.29	9/9/2010	560.50	12/8/2010	565.24	3/16/2011	565.13	6/16/2011	565.39	9/30/2011	565.23	12/8/2011	565.15	3/27/2012	565.01	6/15/2012
PCP-8	589.14	585.9	567.06	9/29/2008	566.90	12/3/2008	566.72	3/20/2009	566.75	6/18/2009	566.91	9/25/2009	566.81	12/23/2009	566.65	3/18/2010	566.75	5/21/2010	566.86	9/9/2010	566.80	12/8/2010	566.64	3/16/2011	567.01	6/16/2011	566.99	9/30/2011	566.98	12/8/2011	566.77	3/27/2012	566.58	6/15/2012
PCP-9	592.65	590.8	566.77	9/29/2008	566.88	12/3/2008	566.98	3/20/2009	567.06	6/18/2009	566.83	9/25/2009	566.87	12/23/2009	566.95	3/18/2010	567.11	5/21/2010	567.01	9/9/2010	567.04	12/8/2010	567.35	3/16/2011	567.55	6/16/2011	567.32	9/30/2011	567.27	12/8/2011	567.51	3/27/2012	567.38	6/15/2012
PCP-10	590.19	587.9	565.49	9/29/2008	565.49	12/3/2008	565.47	3/20/2009	565.48	6/18/2009	565.44	9/25/2009	565.51	12/23/2009	565.39	3/18/2010	565.49	5/21/2010	565.50	9/9/2010	565.58	12/8/2010	565.56	3/16/2011	565.48	6/16/2011	565.58	9/30/2011	565.63	12/8/2011	565.49	3/27/2012	565.43	6/15/2012
PCP-11 ^{4,13}	590.37	587.7	579.32	9/29/2008	578.78	12/3/2008	580.68	3/20/2009	580.28	6/18/2009	579.64	9/25/2009	579.60	12/23/2009	580.07	3/18/2010	580.63	5/21/2010	578.62	9/9/2010	578.67	12/8/2010	580.48	3/16/2011	580.99	6/16/2011	579.14	9/30/2011	580.70	12/8/2011	581.34	3/27/2012	579.90	6/15/2012
PCP-12	590.56	587.9	578.09	9/29/2008	577.41	12/3/2008	579.34	3/20/2009	579.02	6/18/2009	578.62	9/25/2009	578.22	12/23/2009	578.46	3/18/2010	579.25	5/21/2010	577.47	9/9/2010	574.52	12/8/2010	578.87	3/16/2011	579.76	6/16/2011	577.82	9/30/2011	579.23	12/8/2011	579.49	3/27/2012	578.62	6/15/2012
PCP-13	592.92	590.6	577.19	9/29/2008	576.75	12/3/2008	578.36	3/20/2009	578.14	6/18/2009	577.79	9/25/2009	577.54	12/23/2009	577.77	3/18/2010	578.44	5/21/2010	576.90	9/9/2010	579.69	12/8/2010	578.42	3/16/2011	579.00	6/16/2011	577.30	9/30/2011	578.69	12/8/2011	576.98	3/27/2012	578.10	6/15/2012
PCP-14	592.64	590.5	563.68	9/29/2008	563.58	12/3/2008	563.70	3/20/2009	563.71	6/18/2009	563.66	9/25/2009	563.63	12/23/2009	563.74	3/18/2010	564.05	5/21/2010	563.91	9/9/2010	563.86	12/8/2010	564.10	3/16/2011	564.12	6/16/2011	563.94	9/30/2011	564.00	12/8/2011	564.08	3/27/2012	563.96	6/15/2012
PCP-15 ¹⁴	585.98	580.4	580.26	9/29/2008	579.34	12/3/2008	585.50	3/20/2009	584.88	6/18/2009	583.99	9/25/2009	581.65	12/23/2009	585.77	3/18/2010	582.90	5/21/2010	579.53	9/9/2010	578.84	12/8/2010	583.68	3/16/2011	583.72	6/16/2011	581.00	9/30/2011	580.04	12/8/2011	581.11	3/27/2012	582.59	6/15/2012
PCP-16 ¹⁴	588.64	581.1	579.04	9/29/2008	578.80	12/3/2008	579.38	3/20/2009	579.24	6/18/2009	579.10	9/25/2009	578.91	12/23/2009	579.12	3/18/2010	579.43	5/21/2010	578.98	9/9/2010	578.50	12/8/2010	579.15	3/16/2011	579.50	6/16/2011	579.24	9/30/2011	579.44	12/8/2011	579.55	3/27/2012	579.22	6/15/2012
PCP-17 ¹⁴	588.76	581.2	583.05	9/29/2008	585.10	12/3/2008	585.87	3/20/2009	584.11	6/18/2009	584.81	9/25/2009	582.33	12/23/2009	584.31	3/18/2010	585.65	5/21/2010	582.46	9/9/2010	580.16	12/8/2010	581.31	3/16/2011	583.85	6/16/2011	584.43	9/30/2011	584.45	12/8/2011	584.59	3/27/2012	582.81	6/15/2012
PCP-3 (DEEP)	582.24	580.0	579.03	9/29/2008	578.78	12/3/2008	580.66	3/20/2009	580.26	6/18/2009	578.69	9/25/2009	579.52	12/23/2009	579.89	3/18/2010	580.63	5/21/2010	578.62	9/9/2010	578.64	12/8/2010	580.39	3/16/2011	580.99	6/16/2011	579.16	9/30/2011	580.72	12/8/2011	581.32	3/27/2012	579.88	6/15/2012
PCL-1	595.45	592.6	568.00	9/29/2008	567.99	12/3/2008	567.85	3/20/2009	567.75	6/18/2009	567.85	9/25/2009	568.00	12/23/2009	567.87	3/18/2010	567.84	5/21/2010	567.83	9/9/2010	568.06	12/8/2010	567.91	3/16/2011	567.74	6/16/2011	567.89	9/30/2011	568.07	12/8/2011	567.94	3/27/2012	567.73	6/15/2012
PCL-2	612.63	610.7	575.72	9/29/2008	571.35	12/3/2008	571.45	3/20/2009	571.42	6/18/2009	571.30	9/25/2009	571.33	12/23/2009	571.35		571.45	5/21/2010	571.31	9/9/2010	569.32	12/8/2010	571.40	3/16/2011	571.42	6/16/2011	571.44	9/30/2011	571.37	12/8/2011	571.43	3/27/2012	571.28	6/15/2012
PCL-3	609.25	606.9	571.37	9/29/2008	571.22	12/3/2008	571.50	3/20/2009	571.27	6/18/2009	571.31	9/25/2009	571.34	12/23/2009	570.36	3/18/2010	571.49	5/21/2010	571.30	9/9/2010	571.23	12/8/2010	571.38	3/16/2011	571.46	6/16/2011	571.25	9/30/2011	571.38	12/8/2011	571.51	3/27/2012	571.34	6/15/2012
PCL-4	601.62	599.6	570.61	9/29/2008	570.51		570.90	3/20/2009	571.10	6/18/2009	570.34	9/25/2009	570.65	12/23/2009	570.72	3/18/2010	571.27	5/21/2010	570.79	9/9/2010	570.70	12/8/2010	571.11	3/16/2011	571.76	6/16/2011	571.09	9/30/2011	571.30	12/8/2011	571.79	3/27/2012	571.54	6/15/2012
PCL-5	601.98	600.1	579.34	9/29/2008	578.70	12/3/2008	580.61	3/20/2009	580.25	6/18/2009	579.63	9/25/2009	579.55	12/23/2009	579.80	3/18/2010	580.64	5/21/2010	578.63	9/9/2010	578.67	12/8/2010	580.43	3/16/2011	580.95	6/16/2011	579.11	9/30/2011	580.63	12/8/2011	581.25	3/27/2012	579.88	6/15/2012

Post-Closure Wells

			Oct	ober	Dece	mber	Mai	rch	Ju	une	Sept	ember	Dec	ember	M:	arch	J	une	Sep	tember	Dec	cember	Ma	arch	Ma	ay	Sept	ember	Dece	ember	Ma	rch	Ju	ne
	Top of	Ground	20	07	20	07	20	08	20	008	2	800	2	2008	2	009	2	009	2	2009	1	2009	20	010	20	10	2	010	20	010	20	011	20	11
Piezometer	Casing	Surface	water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water	
ID	Elevation	n Elevation ¹	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
PCW-1	580.40	580.5	566.40	10/1/2007	570.62	12/27/2007	564.70	3/14/2008	n/d	6/20/2008	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011
PCW-217	580.97	580.5	579.09	10/1/2007	n/d	12/27/2007	580.25	3/14/2008	580.08	6/20/2008	579.32	9/29/2008	578.50	12/3/2008	n/d	3/20/2009	580.21	6/18/2009	579.05	9/25/2009	579.24	12/23/2009	580.28	3/18/2010	580.33	5/21/2010	578.40	9/9/2010	578.40	12/8/2010	578.40	3/16/2011	580.31	3/16/2011
PCW-3	579.36	580.4	578.59	10/1/2007	n/d	12/27/2007	n/d	3/14/2008	578.45	6/20/2008	577.88	9/29/2008	578.01	12/3/2008	579.21	3/20/2009	578.56	6/18/2009	577.87	9/25/2009	578.66	12/23/2009	n/d 16	3/18/2010	n/d 16	5/21/2010	n/d 16	9/9/2010	n/d 16	12/8/2010	n/d 16	3/16/2011	n/d 16	3/16/2011
PCW-3R	580.38	580.4	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	n/d 15	TBD	3/18/2010	572.83	5/21/2010	572.53	9/9/2010	572.36	12/8/2010	572.53	3/16/2011	572.74	3/16/2011
PCW-4	583.45	581.2	579.67	10/1/2007	579.72	12/27/2007	579.75	3/14/2008	580.29	6/20/2008	579.43	9/29/2008	578.74	12/3/2008	580.63	3/20/2009	580.27	6/18/2009	579.61	9/25/2009	579.59	12/23/2009	579.92	3/18/2010	580.60	5/21/2010	578.63	9/9/2010	578.61	12/8/2010	578.63	3/16/2011	581.02	3/16/2011
PCW-5	583.55	581.3	560.06	10/1/2007	570.76	12/27/2007	559.66	3/14/2008	n/d	6/20/2008	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	3/16/2011
PCW-6	582.52	580.2	575.72	10/1/2007	575.72	12/27/2007	575.80	3/14/2008	575.74	6/20/2008	575.72	9/29/2008	575.68	12/3/2008	575.76	3/20/2009	575.74	6/18/2009	575.67	9/25/2009	575.68	12/23/2009	575.74	3/18/2010	575.87	5/21/2010	575.51	9/9/2010	575.40	12/8/2010	575.51	3/16/2011	575.81	3/16/2011
PCW-7	582.24	580.0	573.17	10/1/2007	573.65	12/27/2007	574.73	3/14/2008	574.48	6/20/2008	573.03	9/29/2008	573.03	12/3/2008	574.81	3/20/2009	574.73	6/18/2009	573.54	9/25/2009	573.4	12/23/2009	574.06	3/18/2010	574.99	5/21/2010	572.82	9/9/2010	572.53	12/8/2010	572.82	3/16/2011	575.13	3/16/2011
PCW-8	583.37	581.1	569.95	10/1/2007	574.17	12/27/2007	567.56	3/14/2008	n/d	6/20/2008	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	3/16/2011
PCW-9	578.44	576.1	572.32	10/1/2007	572.28	12/27/2007	573.26	3/14/2008	573.93	6/20/2008	572.47	9/29/2008	571.66	12/3/2008	574.08	3/20/2009	573.98	6/18/2009	573.72	9/25/2009	572.55	12/23/2009	572.87	3/18/2010	573.66	5/21/2010	571.62	9/9/2010	576.43	12/8/2010	571.62	3/16/2011	568.66	3/16/2011
PCW-10	582.89	582.2	578.81	10/1/2007	579.10	12/27/2007	579.29	3/14/2008	578.84	6/20/2008	578.38	9/29/2008	578.18	12/3/2008	579.15	3/20/2009	579.00	6/18/2009	578.83	9/25/2009	578.2	12/23/2009	579.34	3/18/2010	579.58	5/21/2010	578.46	9/9/2010	578.21	12/8/2010	578.46	3/16/2011	579.51	3/16/2011
PCW-11	582.60	583.1	579.19	10/1/2007	579.24	12/27/2007	579.90	3/14/2008	579.77	6/20/2008	575.49	9/29/2008	578.28	12/3/2008	580.11	3/20/2009	579.76	6/18/2009	579.15	9/25/2009	579.06	12/23/2009	579.41	3/18/2010	580.14	5/21/2010	578.05	9/9/2010	578.22	12/8/2010	578.05	3/16/2011	580.47	3/16/2011
PCW-12	584.08	581.6	577.23	10/1/2007	577.02	12/27/2007	577.75	3/14/2008	578.18	6/20/2008	577.12	9/29/2008	576.34	12/3/2008	578.33	3/20/2009	577.98	6/18/2009	577.74	9/25/2009	577.14	12/23/2009	577.28	3/18/2010	578.13	5/21/2010	576.50	9/9/2010	576.24	12/8/2010	576.50	3/16/2011	578.53	3/16/2011
PCW-13	582.74	580.4	574.81	10/1/2007	574.56	12/27/2007	575.29	3/14/2008	575.69	6/20/2008	575.05	9/29/2008	574.47	12/3/2008	576.15	3/20/2009	575.98	6/18/2009	575.84	9/25/2009	575.25	12/23/2009	575.56	3/18/2010	575.04	5/21/2010	574.94	9/9/2010	574.73	12/8/2010	574.94	3/16/2011	576.81	3/16/2011
PCW-14	582.77	580.4	572.23	10/1/2007	571.92	12/27/2007	572.47	3/14/2008	573.10	6/20/2008	572.00	9/29/2008	571.52	12/3/2008	573.43	3/20/2009	573.47	6/18/2009	573.49	9/25/2009	572.35	12/23/2009	572.14	3/18/2010	573.05	5/21/2010	571.90	9/9/2010	571.13	12/8/2010	571.90	3/16/2011	574.18	3/16/2011

			3auges																				Ground	dwater Mon	itoring Wells	& Stream	Gauges							
	WH		mber	Mai	rch	Jur	ne	Septe	ember	Dece	mber	M	arch	J	une	Sept	tember	Dec	ember	M	arch	M	ay	Septe	mber	Dece	ember	Ma	rch	J	lune	Sept	ember	
	Top of		20	07	20	08	200	08	20	800	20	800	2	2009	2	009	2	2009	2	2009	2	010	20	10	201	10	20	010	20	11	2	2011	21	011
	Casing	Surface	water		water		water		water		water		water		water		water		water		water		water		water		water		water		water	T 7	water	
Well ID	Elevation	Elevation ¹	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
GW-1	580.53	580.9	576.07	12/27/2007	576.53	3/14/2008	576.08	6/20/2008	575.16	9/29/2008	575.15	12/3/2008	576.60	3/20/2009	575.99	6/18/2009	575.20	9/25/2009	575.34	12/23/2009	576.62	3/18/2010	577.29	5/21/2010	574.96	9/9/2010	575.11	12/8/2010	576.75	3/16/2011	576.29	6/16/2011		9/30/2011
GW-2	582.31	580.0	576.09	12/27/2007	578.67	3/14/2008	575.91	6/20/2008	572.66	9/29/2008	573.19	12/3/2008	578.09	3/20/2009	575.61	6/18/2009	573.06	9/25/2009	574.34	12/23/2009	576.79	3/18/2010	577.92	5/21/2010	572.33	9/9/2010	573.21	12/8/2010	577.83	3/16/2011	576.32	6/16/2011		
GW-3	581.41	579.1	575.45	12/27/2007	576.26	3/14/2008	571.86	6/20/2008	574.37	9/29/2008	574.63	12/3/2008	576.06	3/20/2009	574.86	6/18/2009	574.30	9/25/2009	574.83	12/23/2009	576.06	3/18/2010	576.40	5/21/2010	573.62	9/9/2010	574.50	12/8/2010	576.16	3/16/2011	575.24	6/16/2011	575.89	9/30/2011
GW-4	581.40	579.2	578.48	12/27/2007	578.05	3/14/2008	575.00	6/20/2008	573.28	9/29/2008	577.66	12/3/2008	578.52	3/20/2009	575.28	6/18/2009	573.37	9/25/2009	577.60	12/23/2009	578.57	3/18/2010	578.30	5/21/2010	572.90	9/9/2010	574.36	12/8/2010	578.75	3/16/2011	576.22	6/16/2011		9/30/2011
GW-5	580.15	578.1	575.02	12/27/2007	575.40	3/14/2008	573.65	6/20/2008	572.45	9/29/2008	572.17	12/3/2008	575.88	3/20/2009	574.07	6/18/2009	572.86	9/25/2009	573.26	12/23/2009	574.59	3/18/2010	575.74	5/21/2010	572.40	9/9/2010	571.57	12/8/2010	575.35	3/16/2011	574.89	6/16/2011	577.36	
GW-6	579.74	577.5	0.0.12	12/27/2007	576.85	3/14/2008	574.88	6/20/2008	573.79	9/29/2008	574.55	12/3/2008	577.03	3/20/2009	575.20	6/18/2009	574.01	9/25/2009	575.04	12/23/2009	577.12	3/18/2010	577.20	5/21/2010	573.29	9/9/2010	573.60	12/8/2010	577.29	3/16/2011	575.94	6/16/2011		
GW-7	580.52	578.2	576.09	12/27/2007	577.16	3/14/2008	573.36	6/20/2008	571.82	9/29/2008	573.06	12/3/2008	576.81	3/20/2009	573.89	6/18/2009	572.23	9/25/2009	574.40	12/23/2009	576.71	3/18/2010	576.67	5/21/2010	571.66	9/9/2010	572.56	12/8/2010	576.85	3/16/2011	574.56	6/16/2011	574.27	9/30/2011
GW-8	583.07	580.8	573.98	12/27/2007	579.07	3/14/2008	572.03	6/20/2008	571.92	9/29/2008	571.76	12/3/2008	574.72	3/20/2009	572.01	6/18/2009	571.72	9/25/2009	572.05	12/23/2009	579.22	3/18/2010	574.26	5/21/2010	571.98	9/9/2010	571.74	12/8/2010	573.65	3/16/2011	573.26	6/16/2011	n/d (dry)	9/30/2011
GW-9	580.44	578.0	573.66	12/27/2007	575.09	3/14/2008	572.42	6/20/2008	572.08	9/29/2008	573.85	12/3/2008	574.79	3/20/2009	573.40	6/18/2009	572.11	9/25/2009	572.94	12/23/2009	571.62	3/18/2010	573.75	5/21/2010	Invalid	9/9/2010	572.45	12/8/2010	574.77	3/16/2011	574.03	6/16/2011	575.25	9/30/2011
GW-10	302.70	300.0	373.30	12/27/2007	574.38	3/14/2008	573.98	6/20/2008	572.56	9/29/2008	575.11	12/3/2008	575.43	3/20/2009	574.04	6/18/2009	574.93	9/25/2009	574.23	12/23/2009	575.02	3/18/2010	574.97	5/21/2010	570.94	9/9/2010	574.64	12/8/2010	575.84	3/16/2011	574.64	6/16/2011		9/30/2011
GW-11	582.93	580.7	n/d²		n/d²	3/14/2008	n/d²	6/20/2008	n/d²	9/29/2008	n/d²	12/3/2008	n/d ²	3/20/2009	n/d²	6/18/2009	n/d²	9/25/2009	n/d²	12/23/2009	n/d²	3/18/2010	n/d²	5/21/2010	n/d²	9/9/2010	n/d²	12/8/2010	n/d ²	3/16/2011	n/d²	6/16/2011	n/d²	9/30/2011
GW-11R	580.23	580.7	574.22	12/27/2007	575.68	3/14/2008	575.52	6/20/2008	573.86	9/29/2008	573.18	12/3/2008	576.62	3/20/2009	576.19	6/18/2009	574.10	9/25/2009	573.82	12/23/2009	575.67	3/18/2010	577.15	5/21/2010	576.62	9/9/2010	573.37	12/8/2010	575.10	3/16/2011	577.08	6/16/2011	576.69	9/30/2011
GW-12	580.87	578.4	573.41	12/27/2007	574.67	3/14/2008	572.15	6/20/2008	570.73	9/29/2008	570.92	12/3/2008	574.85	3/20/2009	572.90	6/18/2009	571.17	9/25/2009	572.06	12/23/2009	574.48	3/18/2010	574.52	5/21/2010	568.97	9/9/2010	570.39	12/8/2010	574.59	3/16/2011	573.62	6/16/2011		
GW-13	583.70	581.3	573.25	12/27/2007	574.50	3/14/2008	574.45	6/20/2008	573.19	9/29/2008	572.62	12/3/2008	574.75	3/20/2009	574.79	6/18/2009	573.67	9/25/2009	573.34	12/23/2009	574.69	3/18/2010	575.15	5/21/2010	570.04	9/9/2010	572.09	12/8/2010	574.49	3/16/2011	575.05	6/16/2011		
GW-14	578.48	578.9	n/d	12/27/2007	573.99	3/14/2008	573.53	6/20/2008	572.99	9/29/2008	572.91	12/3/2008	574.11	3/20/2009	573.76	6/18/2009	573.50	9/25/2009	573.49	12/23/2009	574.07	3/18/2010	574.63	5/21/2010	578.21	9/9/2010	573.05	12/8/2010	574.13	3/16/2011	575.20	6/16/2011		9/30/2011
GW-15	582.69	581.8	577.91	12/27/2007	578.69	3/14/2008	579.71	6/20/2008	578.12	9/29/2008	n/d	12/3/2008		3/20/2009	579.77	6/18/2009	578.88	9/25/2009	577.31	12/23/2009	578.57	3/18/2010	579.93	5/21/2010	574.56	9/9/2010	577.30	12/8/2010	578.46	3/16/2011	580.49	6/16/2011		9/30/2011
GW-16	585.90	583.5	n/d 10		n/d 10	3/14/2008	n/d 10	6/20/2008	n/d 10	9/29/2008		12/3/2008	n/d 10	3/20/2009	n/d 10	6/18/2009	n/d 10	9/25/2009	n/d 10	12/23/2009	n/d 10	3/18/2010		5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011		9/30/2011
GW-16R	583.35	580.6	579.66	12/27/2007	579.98	3/14/2008	579.10	6/20/2008	578.44	9/29/2008	578.87	12/3/2008	579.99	3/20/2009	578.71	6/18/2009	578.66	9/25/2009	578.87	12/23/2009	580.09	3/18/2010	580.21	5/21/2010	581.09	9/9/2010	578.75	12/8/2010	580.47	3/16/2011	579.87	6/16/2011	580.11	9/30/2011

		Septer	nber	Dece	mber	Mar	rch		ıne		ember		ember	Ma		М		Sept	tember	Dec	ember	Ma	rch	Jur		Septe	ember	Dece	mber	Ma	rch	J	une
		200	8	20	08	20	09	20	009	20	009	2	2009	20	10	20	10	2	010	2	010	20	111	201	1	20	111	20)11	20	12	2	012
Stream	Monument	water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water	
Gauge	Elevation	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
SG-1	578.01	n/d (dry)	9/29/2008	n/d (dry)	12/3/2008	574.17	3/20/2009	573.99	6/18/2009	574.03	9/25/2009	573.71	12/23/2009	n/d (dry)	3/18/2010	n/d (dry)	5/21/2010	n/d (dry)	9/9/2010	n/d (dry)	12/8/2010	n/d (dry)	3/16/2011	573.97	6/16/2011	n/d (dry)	9/30/2011	n/d (dry)	12/8/2011	574.24	3/27/2012	n/d (dry)	6/15/2012
SG-2	576.70	573.08	9/29/2008	571.70	12/3/2008	573.97	3/20/2009	573.81	6/18/2009	573.75	9/25/2009	572.50	12/23/2009	570.96	3/18/2010	573.43	5/21/2010	572.30	9/9/2010	571.60	12/8/2010	572.30	3/16/2011	573.97	6/16/2011	572.57	9/30/2011	573.00	12/8/2011	573.97	3/27/2012	576.46	6/15/2012
SG-3	581.62	573.20	9/29/2008	573.30	12/3/2008	574.71	3/20/2009	574.20	6/18/2009	573.76	9/25/2009	573.46	12/23/2009	574.04	3/18/2010	574.34	5/21/2010	573.48	9/9/2010	573.23	12/8/2010	574.24	3/16/2011	575.46	6/16/2011	573.32	9/30/2011	574.64	12/8/2011	574.82	3/27/2012	572.20	6/15/2012
SG-4	579.37	n/d (dry)	9/29/2008	n/d (dry)	12/3/2008	574.72	3/20/2009	574.73	6/18/2009	573.54	9/25/2009	573.59	12/23/2009	574.05	3/18/2010	574.75	5/21/2010	n/d (dry)	9/9/2010	n/d (dry)	12/8/2010	574.21	3/16/2011	574.75	6/16/2011	574.01	9/30/2011	574.98	12/8/2011	575.19	3/27/2012	575.58	6/15/2012
SG-5	578.11	572.68	9/29/2008	571.39	12/3/2008	573.57	3/20/2009	573.41	6/18/2009	573.39	9/25/2009	572.13	12/23/2009	572.07	3/18/2010	573.01	5/21/2010	572.25	9/9/2010	571.49	12/8/2010	572.05	3/16/2011	573.49	6/16/2011	572.37	9/30/2011	572.79	12/8/2011	573.64	3/27/2012	577.84	6/15/2012
SG-6	578.81	568.98	9/29/2008	568.47	12/3/2008	569.86	3/20/2009	569.65	6/18/2009	573.74	9/25/2009	572.28	12/23/2009	571.70	3/18/2010	572.92	5/21/2010	572.44	9/9/2010	577.64	12/8/2010	571.98	3/16/2011	573.78	6/16/2011	571.90	9/30/2011	572.78	12/8/2011	573.39	3/27/2012	570.59	6/15/2012

Leachate Collection System Cleanouts Western Containment Unit

		Septe			mber	Mar		Ju	ıne		ember		ember		arch		Мау		tember		cember	Ma		Ju	ıne		ember		ember		arch		ıne
	Top of	20	08	20	08	20	09		009		009		2009		010		010		010		2010	20)11	20	011	20	011	20	011		012		012
Cleanout	Cleanout	water		water		water	1	water	1	water		water		water	l	water	1	water		water		water	l 1	water	1	water		water	1 1	water	1	water	1 1
ID	Elevation	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
D1-1	589.0	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012	n/d	6/15/2012
D1-2	588.4	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012	n/d	6/15/2012
D1-3	588.7	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012	n/d	6/15/2012
D2-1	587.8	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012	n/d	6/15/2012
D2-2	586.2	567.10	9/29/2008	567.10	12/3/2008	567.10	3/20/2009	567.10	6/18/2009	567.10	9/25/2009	567.10	12/23/2009	567.10	3/18/2010	567.10	5/21/2010	567.10	9/9/2010	567.10	12/8/2010	567.10	3/16/2011	567.10	6/16/2011	567.10	9/30/2011	567.1	12/8/2011	567.1	3/27/2012	567.10	6/15/2012
D2-3	588.0	566.90	9/29/2008	566.90	12/3/2008	566.90	3/20/2009	566.90	6/18/2009	566.90	9/25/2009	566.90	12/23/2009	566.90	3/18/2010	566.90	5/21/2010	566.90	9/9/2010	566.90	12/8/2010	566.90	3/16/2011	566.90	6/16/2011	566.90	9/30/2011	566.9	12/8/2011	566.9	3/27/2012	566.90	6/15/2012
D2-4	589.3	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012	n/d	6/15/2012
D3-1	587.4	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012	n/d	6/15/2012
D3-2	589.3	567.40	9/29/2008	567.40	12/3/2008	567.40	3/20/2009	567.40	6/18/2009	567.40	9/25/2009	567.40	12/23/2009	567.40	3/18/2010	567.40	5/21/2010	567.40	9/9/2010	567.40	12/8/2010	567.40	3/16/2011	567.40	6/16/2011	567.40	9/30/2011	567.4	12/8/2011	567.4	3/27/2012	567.40	6/15/2012
D3-3	593.4	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012	n/d	6/15/2012
D3-4	588.0	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012	n/d	6/15/2012
D4-1	589.9	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012	n/d	6/15/2012
D4-2	589.5	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012	n/d	6/15/2012
D4-3	590.1	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012	n/d	6/15/2012
DN(W)	590.7	566.00	9/29/2008	566.00	12/3/2008	566.00	3/20/2009	566.00	6/18/2009	566.00	9/25/2009	566.00	12/23/2009	566.00	3/18/2010	566.00	5/21/2010	566.00	9/9/2010	566.00	12/8/2010	566.00	3/16/2011	566.00	6/16/2011	566,00	9/30/2011	566.0	12/8/2011	566.0	3/27/2012	566.00	6/15/2012
DN(F)	588.5	567.50	9/29/2008	567.50	12/3/2008	567.50	3/20/2009	567.50	6/18/2009	567.50	9/25/2009	567.50	12/23/2009	567.50	3/18/2010	567.50	5/21/2010	567.50	9/9/2010	567.50	12/8/2010	567.50	3/16/2011	567.50	6/16/2011	567.50	9/30/2011	564.9	12/8/2011	564.9	3/27/2012	564.90	6/15/2012
DW	588.5	565.00	9/29/2008	565.00	12/3/2008	565.00	3/20/2009	565.00	6/18/2009	565.00	9/25/2009	565.00	12/23/2009	565.00	3/18/2010	565.00	5/21/2010	565.00	9/9/2010	565.00	12/8/2010	565.00	3/16/2011	565.00	6/16/2011	565.00	9/30/2011	565.0	12/8/2011	565.0	3/27/2012	565.00	6/15/2012
DS(W)	588.5	564.70	9/29/2008	564.70	12/3/2008	559.25	3/20/2009	565.00	6/18/2009	565.00	9/25/2009	565.00	12/23/2009	565.00	3/18/2010	565.00	5/21/2010	565.00	9/9/2010	565.00	12/8/2010	565.00	3/16/2011	565.00	6/16/2011	565.00	9/30/2011	565.0	12/8/2011	565.0	3/27/2012	565.00	6/15/2012
DS(E)	588.0	567.10	9/29/2008	567.10	12/3/2008	567.10	3/20/2009	567.10	6/18/2009	567.10	9/25/2009	567.10	12/23/2009	567.10	3/18/2010	567.10	5/21/2010	567.10	9/9/2010	567.10	12/8/2010	567.10	3/16/2011	567.10	6/16/2011	567.10	9/30/2011	567.1	12/8/2011	567.1	3/27/2012	567.10	6/15/2012
DE	589.3	567.20	9/29/2008	567.20	12/3/2008	567.20	3/20/2009	567.20	6/18/2009	567.20	9/25/2009	567.20	12/23/2009	567.20	3/18/2010	567.20	5/21/2010	567.20	9/9/2010	567.20	12/8/2010	567.20	3/16/2011	567.20	6/16/2011	567.20	9/30/2011	567.2	12/8/2011	567.2	3/27/2012	567.20	6/15/2012

Leachate Collection System Cleanouts Eastern Containment Unit

			ember	Dece		Mai			ıne		ember		cember	Ma			ay		ember		ember		arch	Ju			ember		mber		arch	Jun	
	Top of		800		08	20	09		009		009		2009	20	10		10		010		010		011	20	11		011		111		012	201	12
Cleanout	Cleanout	water	1	water	l l	water	1	water	l l	water	١	water		water		water		water		water		water	1 1	water	1 1	water	٠	water	l l	water	1 1	water	
ID	Elevation	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
A-1	588.6	565.90	9/29/2008	565.90	12/3/2008	565.90	3/20/2009	565.90	6/18/2009	565.90	9/25/2009	565.90	12/23/2009	565.90	3/18/2010	565.90	5/21/2010	565.90	9/9/2010	565.90	12/8/2010	565.90	3/16/2011	565.90	6/16/2011	565.90	9/30/2011	565.9	12/8/2011	565.9	3/27/2012	565.9	6/15/2012
A-2	-	HOLE	0/00/0000	500.50	40/0/0000	500.50	0/00/0000	500.50	0/40/0000	500.50	0.05.0000	500.50	40/00/0000	500 50 1	0/40/0040	- /-1	E (04 (0040	- /-	0/0/0040	- /-/	40/0/0040		JT EMPTIES	DIRECTLY)LE	0.000.00044	500.0	40/0/0044	F00.0	10/07/0040	500.0	0/45/0040
A-3	582.5	563.50	9/29/2008	563.50	12/3/2008	563.50	3/20/2009	563.50	6/18/2009	563.50	9/25/2009	563.50	12/23/2009	563.50	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d	9/30/2011	562.0	12/8/2011	562.0	3/27/2012		6/15/2012
A-4	581.9	564.20	9/29/2008	564.20	12/3/2008	564.20	3/20/2009	564.20	6/18/2009	564.20	9/25/2009	564.20	12/23/2009	564.20	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d 564.80	12/8/2010	n/d	3/16/2011	n/d 564.80	6/16/2011	n/d	9/30/2011	564.2	12/8/2011	564.2	3/27/2012		6/15/2012
A-5 B-1	583.3 585.0	564.80 566.30	9/29/2008	564.80 566.30	12/3/2008	564.80 566.30	3/20/2009	564.80	6/18/2009	564.80 566.30	9/25/2009	564.80 566.30	12/23/2009	564.80 566.30	3/18/2010	564.80 566.30	5/21/2010	564.80 566.30	9/9/2010	566.30	12/8/2010	564.80 566.30	3/16/2011	566.30	6/16/2011	564.80 566.30	9/30/2011	564.8 566.3	12/8/2011	564.8 566.3	3/27/2012		6/15/2012
B-1 B-2	585.0	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012		6/15/2012
B-2	586.4	n/d	9/29/2008	n/d n/d	12/3/2008	n/d n/d	3/20/2009	n/d	6/18/2009	n/d n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d n/d	5/21/2010	n/d n/d	9/9/2010	n/d n/d	12/8/2010	n/d n/d	3/16/2011	n/d n/d	6/16/2011		9/30/2011	n/d	12/8/2011	n/d	3/27/2012		6/15/2012
B-3	586.2	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012		6/15/2012
C1-1	583.8	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012		6/15/2012
C1-2	584.1	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012		6/15/2012
C1-2	583.2	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012		6/15/2012
C1-4 ¹⁸	583.1	563.00	9/29/2008	563.00	12/3/2008	563.00	3/20/2009	563.00	6/18/2009	563.00	9/25/2009	563.00	12/23/2009	563.00	3/18/2010	563.00	5/21/2010	563.00	9/9/2010	563.00	12/8/2010	563.00	3/16/2011	563.00	6/16/2011	563.00	9/30/2011	563.0	12/8/2011	563.0	3/27/2012		6/15/2012
C1-5	586.9	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012		6/15/2012
C1-6	586.2	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009		3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012		6/15/2012
C2-1	586.3	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012		6/15/2012
C2-2	586.4	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012	n/d (6/15/2012
C2-3	586.5	565.80	9/29/2008	565.80	12/3/2008	565.80	3/20/2009	565.80	6/18/2009	565.80	9/25/2009	565.80	12/23/2009	565.80	3/18/2010	565.80	5/21/2010	565.80	9/9/2010	565.80	12/8/2010	565.80	3/16/2011	565.80	6/16/2011	565.80	9/30/2011	565.8	12/8/2011	565.8	3/27/2012		6/15/2012
C2-4	586.1	567.60	9/29/2008	567.60	12/3/2008	567.60	3/20/2009	567.60	6/18/2009	567.60	9/25/2009	567.60	12/23/2009	567.60	3/18/2010	567.60	5/21/2010	567.60	9/9/2010	567.60	12/8/2010	567.60	3/16/2011	567.60	6/16/2011	567.60	9/30/2011	567.6	12/8/2011	567.6	3/27/2012	567.6	6/15/2012
C2-5	586.6	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012	n/d	6/15/2012
C2-6	585.9	n/d	9/29/2008	n/d	12/3/2008	n/d	3/20/2009	n/d	6/18/2009	n/d	9/25/2009	n/d	12/23/2009	n/d	3/18/2010	n/d	5/21/2010	n/d	9/9/2010	n/d	12/8/2010	n/d	3/16/2011	n/d	6/16/2011	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012	n/d 6	6/15/2012
AN	585.3	565.10	9/29/2008	565.10	12/3/2008	565.10	3/20/2009	565.10	6/18/2009	565.10	9/25/2009	565.10	12/23/2009	565.10	3/18/2010	565.10	5/21/2010	565.10	9/9/2010	565.10	12/8/2010	565.10	3/16/2011	565.10	6/16/2011	565.10	9/30/2011	565.1	12/8/2011	565.1	3/27/2012	565.1	6/15/2012
AW(N)	588.2	566.52	9/29/2008	566.52	12/3/2008	566.52	3/20/2009	566.52	6/18/2009	566.52	9/25/2009	566.52	12/23/2009	566.52	3/18/2010	566.52	5/21/2010	566.52	9/9/2010	566.52	12/8/2010	566.52	3/16/2011	566.52	6/16/2011	566.52	9/30/2011	566.5	12/8/2011	566.5	3/27/2012	566.5	6/15/2012
AW(S)	582.7	565.00	9/29/2008	565.00	12/3/2008	565.00	3/20/2009	565.00	6/18/2009	565.00	9/25/2009	565.00	12/23/2009	565.00	3/18/2010	565.00	5/21/2010	565.00	9/9/2010	565.00	12/8/2010	565.00	3/16/2011	565.00	6/16/2011	565.00	9/30/2011	565.0	12/8/2011	565.0	3/27/2012	565.0	6/15/2012
BN	584.8	564.90	9/29/2008	564.90	12/3/2008	564.90	3/20/2009	564.90	6/18/2009	564.90	9/25/2009	564.90	12/23/2009	564.90	3/18/2010	564.90	5/21/2010	564.90	9/9/2010	564.90	12/8/2010	564.90	3/16/2011	564.90	6/16/2011	564.90	9/30/2011	564.9	12/8/2011	564.9	3/27/2012	564.9	6/15/2012
BE	586.3	567.40	9/29/2008	567.40	12/3/2008	567.40	3/20/2009	567.40	6/18/2009	567.40	9/25/2009	567.40	12/23/2009	567.40	3/18/2010	567.40	5/21/2010	567.40	9/9/2010	567.40	12/8/2010	567.40	3/16/2011	567.40	6/16/2011	567.40	9/30/2011	567.4	12/8/2011	567.4	3/27/2012	567.4	6/15/2012
C1W	582.9	564.70	9/29/2008	564.70	12/3/2008	564.70	3/20/2009	564.70	6/18/2009	564.70	9/25/2009	564.70	12/23/2009	564.70	3/18/2010	564.70	5/21/2010	564.70	9/9/2010	564.70	12/8/2010	564.70	3/16/2011	564.70	6/16/2011	564.70	9/30/2011	564.7	12/8/2011	564.7	3/27/2012	564.7	6/15/2012
C1S ⁸	586.0	566.30	9/29/2008	566.30	12/3/2008	566.30	3/20/2009	566.30	6/18/2009	566.30	9/25/2009	566.30	12/23/2009	566.30	3/18/2010	566.30	5/21/2010	566.30	9/9/2010	566.30	12/8/2010	566.30	3/16/2011	566.30	6/16/2011	566.30	9/30/2011	566.3	12/8/2011	566.3	3/27/2012		6/15/2012
C2E	586.1	565.00	9/29/2008	565.00	12/3/2008	565.00	3/20/2009	565.00	6/18/2009	565.00	9/25/2009	565.00	12/23/2009	565.00	3/18/2010	565.00	5/21/2010	565.00	9/9/2010	565.00	12/8/2010	565.00	3/16/2011	565.00	6/16/2011	565.00	9/30/2011	565.0	12/8/2011	565.0	3/27/2012		6/15/2012
C2S	585.4	563.00	9/29/2008	563.00	12/3/2008	563.00	3/20/2009	563.00	6/18/2009	563.00	9/25/2009	563.00	12/23/2009	563.00	3/18/2010	563.00	5/21/2010	563.00	9/9/2010	563.00	12/8/2010	563.00	3/16/2011	563.00	6/16/2011	563.00	9/30/2011	563.0	12/8/2011	563.0	3/27/2012	563.0	6/15/2012

es

Leachate Collection System Manholes

Eastern Containment Unit

	Septer	mber	Decei	nber	Mar	rch	Ju	ne	Sept	ember	De	cember	M	arch	l N	ay	Sept	ember	Dec	ember	Ma	rch	Jun	ie	Septe	ember	Dece	ember	Ma	rch	Jr	une
	200	08		2008 2009 water water		09	20	09	2	009		2009	2	010	20	10	2	010	2	010	20	11	201	1	20	011	20	011	20	112	20	012
Manhole	water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water	
ID	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
LMH-1	558.49	9/29/2008	556.71	12/3/2008	556.52	3/20/2009	556.92	6/18/2009	557.05	9/25/2009	556.67	12/23/2009	560.65	3/18/2010	556.94	5/21/2010	557.06	9/9/2010	556.48	12/8/2010	557.29	3/16/2011	557.55	6/16/2011	556.65	9/30/2011	556.86	12/8/2011	557.34	3/27/2012	557.17	6/15/2012
LMH-2	561.49	9/29/2008	561.41	12/3/2008	561.13	3/20/2009	559.84	6/18/2009	559.77	9/25/2009	560.41	12/23/2009	560.16	3/18/2010	560.67	5/21/2010	561.54	9/9/2010	560.51	12/8/2010	563.29	3/16/2011	561.59	6/16/2011	562.84	9/30/2011	561.45	12/8/2011	561.41	3/27/2012	560.58	6/15/2012
LMH-3	559.25	9/29/2008	559.85	12/3/2008	560.06	3/20/2009	558.70	6/18/2009	559.34	9/25/2009	560.10	12/23/2009	559.95	3/18/2010	560.50	5/21/2010	559.95	9/9/2010	560.06	12/8/2010	559.37	3/16/2011	559.71	6/16/2011	560.19	9/30/2011	559.48	12/8/2011	560.20	3/27/2012	560.11	6/15/2012
I MH-4	560.40	9/29/2008	560.93	12/3/2008	560 64	3/20/2009	560.62	6/18/2009	560.52	9/25/2009	560 55	12/23/2009	560.50	3/18/2010	560.65	5/21/2010	559 52	9/9/2010	559 65	12/8/2010	559 10	3/16/2011	561.02	6/16/2011	559 29	9/30/2011	560.04	12/8/2011	560 44	3/27/2012	559.34	6/15/2012

Western Containment Unit

	Septe	mber	Decer	nber	Mar	ch	Ju	ne	Septe	ember	Dec	ember	Ma	arch	N	lay	Sept	ember	Dec	ember	Ma	rch	Jun	е	Septe	ember	Dece	mber	Ma	rch	J	une
	20	08	200	08	200		20	09	20	109	2	2009	2	010	20	010	2	010	2	010	20	11	201	1	20	111	20	11	20	12	2	2012
Manhole	water		water		water		water		water		water		water		water		water		water		water		water		water		water		water		water	T
ID	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
LMH-5	557.34	9/29/2008	557.64	12/3/2008	556.23	3/20/2009	557.61	6/18/2009	557.40	9/25/2009	555.89	12/23/2009	557.01	3/18/2010	557.44	5/21/2010	557.24	9/9/2010	556.34	12/8/2010	557.37	3/16/2011	557.74	6/16/2011	557.17	9/30/2011	557.49	12/8/2011	557.23	3/27/2012	554.16	6/15/2012
LMH-6	560.31	9/29/2008	560.06	12/3/2008	560.56	3/20/2009	560.14	6/18/2009	560.61	9/25/2009	560.67	12/23/2009	560.12	3/18/2010	560.61	5/21/2010	559.44	9/9/2010	559.78	12/8/2010	560.09	3/16/2011	559.36	6/16/2011	560.47	9/30/2011	560.09	12/8/2011	560.70	3/27/2012	560.05	6/15/2012
1.8411.7	505.45	0/00/0000	507.44	40/0/0000	FO4 40	0/00/0000	F00 74	0/40/0000	20000	0/05/0000	F0F 00	40/00/0000	FO 4 CO	0/40/0040	504.00	F (04 (004 0	FOF 00	0/0/0040	F04 0F	40/0/0040	FO 4 O 7	0/40/0044	27	0/40/0044	F07.44	0.000.004.4	1	10/0/0044	F00 40	0/07/0040	F00.00	0/45/0040

- Ground surface elevations were determined at the time of well/piezometer installation.
 Ground water monitoring well GW-11 was destroyed between 7/2/99 and 11/9/99. Replacement well GW-11R installed on 5/17/00
 Top of casing elevation prior to 1/25/00 = 590.64 (casing was trimmed so outer protective casing lid would close completely).
 Groundwater elevation data collected on this date was used primarily for well volume calculations See following Sept 01 data for hydraulic monitoring
 Well filled with water due to truck damage
 Top of casing elevation prior to 5/21/03 = 579.94 (casing was trimmed for a level TOC elevation).
 Top of casing elevation prior to 5/21/03 = 579.95 (cleanout piping was mended)
 Top of casing elevation prior to Cotober 2003: PCW-1-679/76, PCW-2=579.89, PCW-10=582.31 (TOCs were extended due to raised well pads)
 OW-16 removed during EDSA interim response activities
- GW-16r was installed on 12/10/04 upon completion of EDSA interim response activities for replacement of GW-16. Top-of-casing elevation is 583.35 msl.
 Water elevation for PCW-2 was not obtained due to well damage from truck.
 Top of casing elevation prior to April 20, 2005: PCP-11=590.55, PCW-2=580.40 (casing was trimmed so well casing could closed and locked property)
- 14. PCP-15, PCP-16 and PCP-17 were installed on March 20, 2008.

- 15. PCW-3 removed on 3/16/10
 16. PCW-3R was installed on 2/26/10
 17. PCW-2 Top of casing elevation prior to April 6, 2012: 580.33 (casing was extended due to continued submersion)
 18. C1-4 Top of casing prior to July 2012: 581.5 (casing was extended due to damage).
 n/d denotes data not determined or available

			Octo	ber	Decem	ber	Mar	rch	Ju	ine	Sept	ember	Dec	ember	М	arch	Ju	ne	Septe	ember	Dece	mber	M	arch	Ma	ıv İ	Septe	mber	Nove	ember	Marc	ch I	Jı	ine	Septen	nber	Decem	ber
	Top of	Ground	20		2012	2	201		20	013		013	2	013		014	20		20			114		2015	201	5	20		20		201	6		016	201		2016	à
Piezometer	Casing	Surface		,	water		water		water		water		water		water	Ī .			water		water		water		water		water		water		water		water		water		water	
ID	Elevation	Elevation ¹	water elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	water elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
PCP-1	585.94	583.6	565.69	10/16/2012 5	565.57 1	12/5/2012	565.38		565.61	6/13/2013	565.80	9/18/2013	565.75	12/13/2013	565.78	3/20/2014	565.77	6/12/2014	565.92	9/29/2014	565.89	12/22/2014	566.38	3/12/2015	565.53	5/7/2015	566.02	9/4/2015	566.02	11/3/2015	565.84	3/17/2016	565.84	6/10/2016	565.91	9/16/2016	566.08 9	9/16/2016
PCP-2	586.48	584.0	576.84	10/16/2012 5	577.02 1	12/5/2012	577.72	3/8/2013	578.26	6/13/2013	577.98	9/18/2013	576.96	12/13/2013	578.24	3/20/2014	578.18	6/12/2014	577.67	9/29/2014	577.24	12/22/2014	576.62	3/12/2015	576.78	5/7/2015	577.03	9/4/2015	576.50	11/3/2015	576.88	3/17/2016	576.60	6/10/2016	575.53	9/16/2016	575.60 9	/16/2016
PCP-3	586.33	583.5	577.82	10/16/2012 5	577.56 1	12/5/2012	578.73	3/8/2013	579.66	6/13/2013	579.35	9/18/2013	578.12	12/13/2013	579.60	3/20/2014	579.87	6/12/2014	579.50	9/29/2014	579.34	12/22/2014	578.67	3/12/2015	579.72	5/7/2015	579.76	9/4/2015	579.30	11/3/2015	580.14	3/17/2016	579.99	6/10/2016	579.20	9/16/2016	579.33 9	/16/2016
PCP-4	589.99	589.4	571.29	10/16/2012 5	571.21 1	12/5/2012	571.03	3/8/2013	571.11	6/13/2013	571.26	9/18/2013	571.15	12/13/2013	571.16	3/20/2014	571.14	6/12/2014	571.25	9/29/2014	571.31	12/22/2014	571.21	3/12/2015	571.35	5/7/2015	571.40	9/4/2015	571.41	11/3/2015	571.10	3/17/2016	571.09	6/10/2016	571.16	9/16/2016	571.38 9	/16/2016
PCP-5	588.54	586.7	566.06	10/16/2012 5	565.94 1	12/5/2012	565.97	3/8/2013	566.16	6/13/2013	566.20	9/18/2013	566.19	12/13/2013	567.51	3/20/2014	567.09	6/12/2014	566.35	9/29/2014	566.31	12/22/2014	566.18	3/12/2015	566.22	5/7/2015	566.39	9/4/2015	566.36	11/3/2015	566.37	3/17/2016	579.41	6/10/2016	577.52	9/16/2016	566.44 9	9/16/2016
PCP-6	587.45	585.1	566.65	10/16/2012 5	566.49 1	12/5/2012	566.16	3/8/2013	566.29	6/13/2013	566.63	9/18/2013	566.57	12/13/2013	566.26	3/20/2014	566.27	6/12/2014	566.67	9/29/2014	566.56	12/22/2014	566.23	3/12/2015	566.20	5/7/2015	566.64	9/4/2015	566.74	11/3/2015	565.97	3/17/2016	566.37	6/10/2016	564.67	9/16/2016	566.90 9	/16/2016
PCP-7	588.09	587.7	565.36	10/16/2012 5	565.32 1	12/5/2012	565.06	3/8/2013	565.01	6/13/2013	565.08	9/18/2013	565.27	12/13/2013	565.07	3/20/2014	564.88	6/12/2014	565.08	9/29/2014	565.24	12/22/2014	564.96	3/12/2015	564.85	5/7/2015	564.97	9/4/2015	565.19	11/3/2015	565.92	3/17/2016	565.80	6/10/2016	566.43	9/16/2016	566.79 9	9/16/2016
PCP-8	589.14	585.9	566.86	10/16/2012 5	566.72 1	12/5/2012	566.62	3/8/2013	566.66	6/13/2013	566.86	9/18/2013	566.79	12/13/2013	566.60	3/20/2014	566.57	6/12/2014	566.84	9/29/2014	566.78	12/22/2014	566.90	3/12/2015	566.23	5/7/2015	566.85	9/4/2015	566.82	11/3/2015	566.16	3/17/2016	566.58	6/10/2016	566.76	9/16/2016	566.90 9	/16/2016
PCP-9	592.65	590.8	567.01	10/16/2012 5	567.00 1	12/5/2012	567.04	3/8/2013	567.22	6/13/2013	567.16	9/18/2013	567.12	12/13/2013	567.42	3/20/2014	567.47	6/12/2014	567.23	9/29/2014	567.34	12/22/2014	567.39	3/12/2015	567.54	5/7/2015	567.62	9/4/2015	567.55	11/3/2015	567.63	3/17/2016	567.71	6/10/2016	568.35	9/16/2016	566.73 9	9/16/2016
PCP-10	590.19	587.9	565.58	10/16/2012 5	565.53 1	12/5/2012	565.42	3/8/2013	565.45	6/13/2013	565.57	9/18/2013	565.61	12/13/2013	566.02	3/20/2014	565.45	6/12/2014	565.60	9/29/2014	565.60	12/22/2014	565.63	3/12/2015	565.42	5/7/2015	565.54	9/4/2015	565.61	11/3/2015	565.52	3/17/2016	565.45	6/10/2016	565.54	9/16/2016	565.63 9	/16/2016
PCP-11 ^{4,13}	590.37	587.7	578.59		578.47 1	12/5/2012	010.10	3/8/2013	580.26	6/13/2013	579.99	9/18/2013	578.94	12/13/2013	580.21	3/20/2014	580.46	6/12/2014	580.26	9/29/2014	580.06	12/22/2014	579.37	3/12/2015	580.38	5/7/2015	580.32	9/4/2015		11/3/2015	580.76	3/17/2016	580.63	6/10/2016		9/16/2016		9/16/2016
PCP-12	590.56	587.9	577.22		577.20 1	12/5/2012	578.05	3/8/2013	578.98	6/13/2013	578.65	9/18/2013	577.51	12/13/2013	578.85	3/20/2014	579.20	6/12/2014	578.96	9/29/2014	578.82	12/22/2014	578.06	3/12/2015		5/7/2015	579.29	9/4/2015	584.30	11/3/2015	579.38	3/17/2016	579.60	6/10/2016	578.76			
PCP-13	592.92	590.6	577.04	10/16/2012 5	576.95 1	12/5/2012	577.87	3/8/2013	578.58	6/13/2013	578.28	9/18/2013	577.31	12/13/2013	578.43	3/20/2014	578.80	6/12/2014	578.27	9/29/2014	578.65	12/22/2014	577.96	3/12/2015	578.77	5/7/2015	578.67	9/4/2015	578.35	11/3/2015	579.16	3/17/2016	579.14	6/10/2016	578.55	9/16/2016	578.23 9	9/16/2016
PCP-14	592.64	590.5	563.91	10/16/2012 5	563.61 1	12/5/2012	563.59	3/8/2013	563.70	6/13/2013	563.82	9/18/2013	563.81	12/13/2013	563.84	3/20/2014	563.96	6/12/2014	563.85	9/29/2014	563.89	12/22/2014	563.96	3/12/2015	564.31	5/7/2015	563.75	9/4/2015	563.66	11/3/2015	563.82	3/17/2016	564.24	6/10/2016	563.90	9/16/2016	563.94 9	/16/2016
PCP-15 ¹⁴	585.98	580.4	579.38	10/16/2012 5	585.19 1	12/5/2012	585.98	3/8/2013	585.96	6/13/2013	584.59	9/18/2013	582.69	12/13/2013	585.98	3/20/2014	585.58	6/12/2014	585.25	9/29/2014	584.18	12/22/2014	585.47	3/12/2015	585.76	5/7/2015	585.25	9/4/2015		11/3/2015	585.89	3/17/2016	585.94		584.04	9/16/2016		9/16/2016
PCP-16 ¹⁴	588.64	581.1	578.55	10/10/2012	578.31 1	12/5/2012	578.87	3/8/2013	579.10	6/13/2013	579.18	9/18/2013	578.83	12/13/2013	579.36	3/20/2014	579.39	6/12/2014	579.18	9/29/2014	578.88	12/22/2014	578.94	3/12/2015	579.06	5/7/2015	579.35	9/4/2015	579.13	11/3/2013	578.93	3/17/2016	577.89	0/10/2010	578.26	0) 10/2010	578.53	/16/2016
PCP-17 ¹⁴	588.76	581.2	580.84		579.87 1	12/5/2012	581.08	3/8/2013	582.31	6/13/2013	582.71	9/18/2013	581.22	12/13/2013	582.93	3/20/2014	583.29	6/12/2014	582.15	9/29/2014	581.50	12/22/2014	581.61	3/12/2015	582.36	5/7/2015		9/4/2015		11/0/2010	002.01	3/17/2016	583.35	6/10/2016	581.52	9/16/2016	581.57	/16/2016
PCP-3 (DEEP)	582.24	580.0	578.55		578.43 1	12/5/2012	579.38	3/8/2013	580.23	6/13/2013	579.96	9/18/2013	578.90	12/13/2013	580.23	3/20/2014	580.41	6/12/2014	580.11	9/29/2014	580.00	12/22/2014	579.31	3/12/2015	580.82	5/7/2015				11/3/2015	580.69	3/17/2016	580.59	6/10/2016	579.77	9/16/2016	579.96	/16/2016
PCL-1	595.45	592.6	567.92	TO/ TO/LOTE C	567.99 1	12/5/2012	567.91	3/8/2013	567.75	6/13/2013	567.83	9/18/2013	568.06	12/13/2013	567.89	3/20/2014	566.71	6/12/2014	567.87	9/29/2014	568.07	12/22/2014	567.91	3/12/2015	567.79	5/7/2015	567.79	9/4/2015	567.97	11/3/2015	567.84	3/17/2016	567.92	0/10/2010	567.85	9/16/2016		9/16/2016
PCL-2	612.63	610.7	571.29		571.25 1	12/5/2012	0	0.0.20.0	571.44	6/13/2013	571.18	9/18/2013	571.26	12/13/2013	571.37	3/20/2014	571.36	6/12/2014	571.21	9/29/2014	571.23	12/22/2014	571.23			01112010	571.25			11/3/2015		3/17/2016		6/10/2016		01 - 01 - 0 - 0		
PCL-3	609.25	606.9	571.24		571.14 1	12/5/2012	571.26	3/8/2013	571.36	6/13/2013	571.26	9/18/2013	571.19	12/13/2013	571.36	3/20/2014	571.36	6/12/2014	571.27	9/29/2014	571.25	12/22/2014	571.23	3/12/2015	571.35	5/7/2015	571.28	9/4/2015	571.23	11/3/2015	571.37	3/17/2016	571.37	6/10/2016	571.19	9/16/2016	571.25	/16/2016
PCL-4	601.62	599.6	570.91		570.87 1	12/5/2012	571.07	3/8/2013	571.56	6/13/2013	571.59	9/18/2013	571.44	12/13/2013	571.84	3/20/2014	572.13	6/12/2014	571.64	9/29/2014	571.74	12/22/2014	571.72	3/12/2015	572.07	5/7/2015	572.18	9/4/2015	571.97	11/3/2015	572.29	3/17/2016	572.61	6/10/2016	571.98	9/16/2016	572.34 9	/16/2016
PCL-5	601.98	600.1	578.61	10/16/2012 5	578.46 1	12/5/2012	579.45	3/8/2013	580.29	6/13/2013	579.96	9/18/2013	578.93	12/13/2013	580.27	3/20/2014	580.69	6/12/2014	580.14	9/29/2014	580.07	12/22/2014	580.48	3/12/2015	580.41	5/7/2015	580.33	9/4/2015	580.01	11/3/2015	580.75	3/17/2016	580.68	6/10/2016	579.83	9/16/2016	579.95	/16/2016

	1		Sente	amher	Dece	mhor	M	arch	1	June		Octobe	r	Decer	mher	M:	rch	Ju	ne	l so	tombor	I n	ecember	1 N	March		une	Sonto	mher	Dece	mher	Ma	rch	Ms	av	Sente	mher	Nover	nher	Ms	ırch		une	Sont	tember	Dece
	Top of	Ground	20	111	20	11	2	012		2012	- 1	2012	"	20:	12	21	13	20	13	"	2013		2013	1 3	2014	0	014	20	14	20		20	115	201	15	201		201	15	20	116	2	016	2	016	20
Piezomete	Casing	Surface		<u> </u>	water		water	T	wate	r T	w	ater		water		water			Ĭ	water	1	water	1	water	20.4	water	1	water		water		water	,,,,	water		water	-	water		water	,,,	water	T	water		water
ID	Elevation	Elevation ¹	water elev	date	elev	date	elev	date	elev	date	. е	elev	date	elev	date	elev	date	water elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev
PCW-1	580.40	580.5	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012	2 n/d	6/15/20	012	n/d 10/	16/2012	n/d	12/5/2012	n/d	3/8/2013	n/d	6/13/201	3 n/d	9/18/201	3 n/d	12/13/201	3 n/d	3/20/2014	n/d	6/12/2014	n/d	9/29/2014	n/d	12/22/2014	n/d	3/12/2015	n/d	5/7/2015	n/d	9/4/2015	n/d	11/3/2015	n/d	3/17/2016	n/d	6/10/2016	n/d	9/16/2016	n/d
PCW-2 ¹⁷	580.97	580.5	580.32	9/30/2011	580.47	12/8/2011	580.77	3/27/2012	584.8	9 6/15/20	012 57	78.89 10/	16/2012	578.47	12/5/2012	580.97	3/8/2013	580.77	6/13/201	3 579.80	9/18/201	3 578.69	12/13/201	580.97	3/20/2014	580.36	6/12/2014	580.03	9/29/2014	580.30	12/22/2014	579.87	3/12/2015	580.97	5/7/2015	580.97	9/4/2015	580.27	11/3/2015	581.57	3/17/2016	580.97	6/10/2016	580.23	9/16/2016	580.87
PCW-3	579.36	580.4	n/d ¹⁶	9/30/2011	n/d	12/8/2011	n/d	3/27/2012	2 n/d	6/15/20	012	n/d 10/	16/2012	n/d	12/5/2012	n/d	3/8/2013	n/d	6/13/201	3 n/d	9/18/201	3 n/d	12/13/201	3 n/d	3/20/2014	n/d	6/12/2014	n/d	9/29/2014	n/d	12/22/2014	n/d	3/12/2015	n/d	5/7/2015	n/d	9/4/2015	n/d	11/3/2015	n/d	3/17/2016	n/d	6/10/2016	n/d	9/16/2016	n/d
PCW-3R	580.38	580.4	572.94	9/30/2011	574.52	12/8/2011	569.27	3/27/2012	572.5	5 6/15/20	012 57	73.27 10/	16/2012	572.23	12/5/2012	572.50	3/8/2013	573.16	6/13/201	3 571.77	9/18/201	3 572.39	12/13/201	572.56	3/20/2014	572.59	6/12/2014	572.75	9/29/2014	572.50	12/22/2014	572.25	3/12/2015	572.64	5/7/2015	573.11	9/4/2015	572.52	11/3/2015	572.64	3/17/2016	572.51	6/10/2016	572.59	9/16/2016	572.54
PCW-4	583.45	581.2	579.17	9/30/2011	580.67	12/8/2011	581.33	3/27/2012	579.8	9 6/15/20	012 57	70.64 10/	16/2012	578.42	12/5/2012	579.38	3/8/2013	580.25	6/13/201	3 579.97	9/18/201	3 578.86	12/13/201	580.16	3/20/2014		6/12/2014				12/22/2014	579.32	3/12/2015	580.34	5/7/2015	580.30	9/4/2015	579.58	11/3/2015	580.70	3/17/2016	580.74	6/10/2016	580.65	9/16/2016	579.80
PCW-5	583.55	581.3	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012	n/d	6/15/20	012	n/d 10/	16/2012	n/d	12/5/2012	n/d	3/8/2013	n/d	6/13/201	3 n/d	9/18/201	3 n/d	12/13/201	3 n/d	3/20/2014	n/d	6/12/2014	n/d	9/29/2014	n/d	12/22/2014	n/d	3/12/2015	n/d	5/7/2015	n/d	9/4/2015	n/d	11/3/2015	n/d	3/17/2016	n/d	6/10/2016	n/d	9/16/2016	n/d
PCW-6	582.52	580.2	575.78	9/30/2011	575.79	12/8/2011	575.82	3/27/2012	575.6	8 6/15/20	012 57	75.50 10/	16/2012	575.37	12/5/2012	575.71	3/8/2013	575.84	6/13/201	3 575.75	9/18/201	3 575.71	12/13/201	575.75	3/20/2014	575.80	6/12/2014	575.78	9/29/2014	575.74	12/22/2014	575.75	3/12/2015	575.77	5/7/2015	575.78	9/4/2015	575.76	11/3/2015	576.19	3/17/2016	575.75	6/10/2016	575.60	9/16/2016	575.71
PCW-7	582.24	580.0	573.92	9/30/2011	574.96	12/8/2011	575.33	3/27/2012	574.0	01 6/15/20	012 57	71.99 10/	16/2012	572.11	12/5/2012	573.53	3/8/2013	574.41	6/13/201	3 573.75	9/18/201	3 573.12	12/13/201	574.51	3/20/2014	574.76	6/12/2014	574.07	9/29/2014	573.86	12/22/2014	573.84	3/12/2015	575.59	5/7/2015	574.38	9/4/2015	573.88	11/3/2015	574.33	3/17/2016	574.32	6/10/2016	577.14	9/16/2016	572.93
PCW-8	583.37	581.1	n/d	9/30/2011	n/d	12/8/2011	n/d	3/27/2012	2 n/d	6/15/20	012	n/d 10/	16/2012	n/d	12/5/2012	n/d	3/8/2013	n/d	6/13/201	3 n/d	9/18/201	3 n/d	12/13/201	3 n/d	3/20/2014	n/d	6/12/2014	n/d	9/29/2014	n/d	12/22/2014	n/d	3/12/2015	n/d	5/7/2015	n/d	9/4/2015	n/d	11/3/2015	n/d	3/17/2016	n/d	6/10/2016	n/d	9/16/2016	n/d
PCW-9	578.44	576.1	572.66	9/30/2011	573.34	12/8/2011	574.13	3/27/2012	573.5	6/15/20	012 57	70.76 10/	16/2012	571.42	12/5/2012	572.57	3/8/2013	573.76	6/13/201	3 573.07	9/18/201	3 571.92	12/13/201	572.82	3/20/2014	574.08	6/12/2014	573.55	9/29/2014	573.28	12/22/2014	572.64	3/12/2015	573.83	5/7/2015	574.64	9/4/2015	573.44	11/3/2015	573.69	3/17/2016	575.01	6/10/2016	573.84	9/16/2016	572.81
PCW-10	582.89	582.2	579.74	9/30/2011		12/8/2011		3/27/2012	0,0.,	3 6/15/20	012 57	78.30 10/	16/2012	577.71	12/5/2012	578.87	3/8/2013	579.80	6/13/201	3 579.07	9/18/201	3 578.43	12/13/201	580.00	3/20/2014	579.78	6/12/2014	579.47	9/29/2014	578.97	12/22/2014	582.88	3/12/2015	579.77	5/7/2015	580.07	9/4/2015	579.12	11/3/2015	580.06	3/17/2016	579.86	6/10/2016	579.05	9/16/2016	579.26
PCW-11	582.60	583.1	578.59	9/30/2011			580.78	3/27/2012	579.3	6/15/20	012 57	78.09 10/	16/2012	577.89	12/5/2012	578.88	3/8/2013	579.69	6/13/201	3 579.39	9/18/201	3 578.38	12/13/201	579.67	3/20/2014	579.83	6/12/2014	579.58	9/29/2014	579.48	12/22/2014	577.07	3/12/2015	579.71	5/7/2015	579.65	9/4/2015	579.31	11/3/2015	580.10	3/17/2016	578.98	6/10/2016	578.40	9/16/2016	579.20
PCW-12	584.08	581.6	576.83	9/30/2011	578.04	12/8/2011	578.68	3/27/2012	577.5	9 6/15/20	012 57	76.17 10/	16/2012	576.19	12/5/2012	576.88	3/8/2013	578.87	6/13/201	3 577.51	9/18/201	3 576.32	12/13/201	577.69	3/20/2014	578.06	6/12/2014	577.93	9/29/2014	577.73	12/22/2014	576.95	3/12/2015	577.79	5/7/2015	578.41	9/4/2015	577.82	11/3/2015	578.18	3/17/2016	578.02	6/10/2016	577.31	9/16/2016	577.59
PCW-13	582.74	580.4	575.30	9/30/2011	576.40	12/8/2011	576.77	3/27/2012	576.1	6 6/15/20	012 57	74.90 10/	16/2012	575.07	12/5/2012	575.72	3/8/2013	576.54	6/13/201	3 576.23	9/18/201	3 575.08	12/13/2013	576.20	3/20/2014	576.76	6/12/2014	576.55	9/29/2014	576.75	12/22/2014	575.99	3/12/2015	576.84	5/7/2015	576.99	9/4/2015	576.39	11/3/2015	577.02	3/17/2016	577.32	6/10/2016	576.80	9/16/2016	576.16
PCW-14	582.77	580.4	572.03	9/30/2011	573.22	12/8/2011	573.75	3/27/2012	573.0	5 6/15/20	012 57	71.13 10/	16/2012	571.12	12/5/2012	571.82	3/8/2013	572.93	6/13/201	3 572.65	9/18/201	3 570.99	12/13/201	571.68	3/20/2014	573.54	6/12/2014	573.01	9/29/2014	573.02	12/22/2014	571.96	3/12/2015	573.23	5/7/2015	574.03	9/4/2015	573.03	11/3/2015	573.36	3/17/2016	574.28	6/10/2016	573.57	9/16/2016	571.95

			Dece	ember	Mar	ch	Jur	ne	0	ctober	D	ecember		March		June		Septem	ber	Dec	ember		March		June	Sept	ember	Dece	mber	Ma	rch	Ma	ıy	Septe	mber	Nove	mber	Ma	rch	Ju	ne	Septe	mber	Decen	nber
	Top of	Ground	20	011	20	2	201	12		2012	1	2012		2013	1	2013	- 1	2013	:		2013	1	2014	1	2014	2	014	20	14	20	15	201	15	201	15	20	15	20	16	20	16	20	16	201	6
	Casing	Surface			water		water		water		water		wate	r	wa	ter				water		water		water		water		water		water		water		water		water		water		water		water		water	
Well ID	Elevation	Elevation ¹	water elev	date	elev	date	elev	date	elev	date	elev	date	elev	da	ite el	ev da	te wat	er elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
GW-1	580.53	580.9	576.99	12/8/2011	576.65	3/27/2012	575.44	6/15/2012	575.67	10/16/201	12 574.42	2 12/5/20	12 575.6	3/8	3/2013 576	6.10 6/13	/2013 57	75.27	9/18/2013	574.93	12/13/20	3 575.57	3/20/20	14 575.69	6/12/201	4 575.48	9/29/2014	575.03	12/22/2014	575.41	3/12/2015	575.89	5/7/2015	575.20	9/4/2015	575.22	11/3/2015	576.16	3/17/2016	575.45	6/10/2016	575.13	9/16/2016	574.23	9/16/2016
GW-2	582.31	580.0	577.94	12/8/2011	577.96	3/27/2012	574.41	6/15/2012	571.48	10/16/201	12 571.98	3 12/5/20	12 575.6	3/8	3/2013 578	3.73 6/13	/2013 57	73.42	9/18/2013	573.82	12/13/20	3 577.76	3/20/20	14 573.82	6/12/201	4 574.06	9/29/2014	573.77	12/22/2014	575.60	3/12/2015	575.77	5/7/2015	575.60	9/4/2015	573.36	11/3/2015	576.46	3/17/2016	575.07	6/10/2016	574.43	9/16/2016	574.74	9/16/2016
GW-3	581.41	579.1	576.35	12/8/2011	576.00	3/27/2012	574.44	6/15/2012	573.78	10/16/201	12 573.9°	1 12/5/20	12 575.2	21 3/8	3/2013 576	6.19 6/13	/2013 57	74.05	9/18/2013	574.18	12/13/20	3 575.09	3/20/20	14 574.62	6/12/201	4 574.47	9/29/2014	574.56	12/22/2014	574.86	3/12/2015	574.98	5/7/2015	574.66	9/4/2015	574.63	11/3/2015	575.51	3/17/2016	574.59	6/10/2016	574.16	9/16/2016	574.68	9/16/2016
GW-4	581.40	579.2	578.70	12/8/2011	579.03	3/27/2012	574.49	6/15/2012	577.94	10/16/201	12 578.83	3 12/5/20	12 579.2	23 3/8	3/2013 578	3.39 6/13	/2013 57	79.02	9/18/2013	578.43	12/13/20	3 579.36	3/20/20	14 578.79	6/12/201	4 579.10	9/29/2014	578.79	12/22/2014	579.32	3/12/2015	579.07	5/7/2015	578.92	9/4/2015	578.89	11/3/2015	576.93	3/17/2016	577.06	6/10/2016	578.78	9/16/2016	578.81	9/16/2016
GW-5	580.15	578.1	574.08	12/8/2011	576.01	3/27/2012	573.40	6/15/2012	571.94	10/16/201	12 572.07	7 12/5/20	12 574.4	14 3/8	3/2013 574	.48 6/13	/2013 57	73.55	9/18/2013	573.21	12/13/20	3 575.40	3/20/20	14 574.24	6/12/201	4 574.32	9/29/2014	573.75	12/22/2014	574.43	3/12/2015	577.18	5/7/2015	574.29	9/4/2015	573.85	11/3/2015	574.27	3/17/2016	574.47	6/10/2016	573.86	9/16/2016	574.08	9/16/2016
GW-6	579.74	577.5	577.52	12/8/2011	576.57	3/27/2012	574.41	6/15/2012	573.40	10/16/201	12 573.76	6 12/5/20	12 576.7	73 3/8	3/2013 577	.61 6/13	/2013 57	74.92	9/18/2013	574.90	12/13/20	3 577.36	3/20/20	14 575.56	6/12/201	4 576.49	9/29/2014	575.83	12/22/2014	576.36	3/12/2015	572.99	5/7/2015	576.32	9/4/2015	576.15	11/3/2015	577.45	3/17/2016	575.39	6/10/2016	575.18	9/16/2016	575.36	9/16/2016
GW-7	580.52	578.2	577.06	12/8/2011	576.77	3/27/2012	572.85	6/15/2012	571.85	10/16/201	12 572.58	3 12/5/20	12 575.4	18 3/8	3/2013 575	6.04 6/13	/2013 57	73.03	9/18/2013	574.10	12/13/20	3 577.64	3/20/20	14 573.95	6/12/201	4 574.77	9/29/2014	574.85	12/22/2014	575.52	3/12/2015	575.60	5/7/2015	575.31	9/4/2015	575.43	11/3/2015	577.22	3/17/2016	577.17	6/10/2016	572.72	9/16/2016	575.14	9/16/2016
GW-8	583.07	580.8	574.01	12/8/2011	574.11	3/27/2012	572.06	6/15/2012	572.05	10/16/201	12 571.99	9 12/5/20	12 572.5	55 3/8	3/2013 575	6.08 6/13	/2013 57	72.12	9/18/2013	573.05	12/13/20	3 573.05	3/20/20	14 572.10	6/12/201	4 572.02	9/29/2014	572.13	12/22/2014	574.69	3/12/2015	572.95	5/7/2015	572.59	9/4/2015	572.06	11/3/2015	573.80	3/17/2016	574.09	6/10/2016	571.99	9/16/2016	572.83	9/16/2016
GW-9	580.44	578.0	574.58	12/8/2011	574.46	3/27/2012	572.27	6/15/2012	571.88	10/16/201	12 569.84	12/5/20	12 572.8	3/8	3/2013 575	6.70 6/13	/2013 57	72.35	9/18/2013	569.84	12/13/20	3 575.50	3/20/20	14 573.51	6/12/201	4 573.14	9/29/2014	573.25	12/22/2014	575.31	3/12/2015	573.38	5/7/2015	573.80	9/4/2015	573.21	11/3/2015	574.25	3/17/2016	573.63	6/10/2016	573.16	9/16/2016	573.72	9/16/2016
GW-10	582.48	580.0	575.41	12/8/2011	575.17	3/27/2012	573.11	6/15/2012	574.07	10/16/201	12 574.00	6 12/5/20	12 574.8	3/8	3/2013 576	6.79 6/13	/2013 57	73.66	9/18/2013	573.87	12/13/20	3 576.19	3/20/20	14 575.12	6/12/201	4 574.07	9/29/2014	574.73	12/22/2014	578.54	3/12/2015	575.14	5/7/2015	576.07	9/4/2015	574.73	11/3/2015	575.16	3/17/2016	574.08	6/10/2016	573.91	9/16/2016	575.08	9/16/2016
GW-11	582.93	580.7	n/d	12/8/2011	n/d	3/27/2012	n/d	6/15/2012	n/d	10/16/201	12 n/d	12/5/20	12 n/d	3/8	3/2013 n	/d 6/13	/2013	n/d	9/18/2013	n/d	12/13/20	13 n/d	3/20/20	14 n/d	6/12/201	4 n/d	9/29/2014	n/d	12/22/2014	n/d	3/12/2015	n/d	5/7/2015	n/d	9/4/2015	n/d	11/3/2015	n/d	3/17/2016	n/d	6/10/2016	n/d	9/16/2016	n/d	9/16/2016
GW-11R	580.23	580.7	578.61	12/8/2011	577.93	3/27/2012	575.11	6/15/2012	572.92	10/16/201	12 572.69	9 12/5/20	12 575.6	3/8	3/2013 576	6.42 6/13	/2013 57	75.12	9/18/2013	574.09	12/13/20	3 577.89	3/20/20	14 576.48	6/12/201	4 575.52	9/29/2014	574.41	12/22/2014	574.72	3/12/2015	576.39	5/7/2015	575.54	9/4/2015	574.58	11/3/2015	577.74	3/17/2016	576.21	6/10/2016	576.78	9/16/2016	574.48	9/16/2016
GW-12	580.87	578.4	575.01	12/8/2011	574.88	3/27/2012	571.33	6/15/2012	568.77	10/16/201	12 570.02	2 12/5/20	12 573.2	26 3/8	3/2013 572	2.84 6/13	/2013 57	70.95	9/18/2013	570.83	12/13/20	3 574.80	3/20/20	14 572.75	6/12/201	4 571.53	9/29/2014	572.35	12/22/2014	573.70	3/12/2015	573.78	5/7/2015	572.02	9/4/2015	572.17	11/3/2015	574.92	3/17/2016	575.07	6/10/2016	574.44	9/16/2016	573.36	9/16/2016
GW-13	583.70	581.3	575.52	12/8/2011	575.55	3/27/2012	577.15	6/15/2012	571.39	10/16/201	12 571.82	2 12/5/20	12 573.7	78 3/8	3/2013 574	1.45 6/13	/2013 57	73.84	9/18/2013	573.49	12/13/20	3 574.79	3/20/20	14 574.55	6/12/201	4 574.27	9/29/2014	573.85	12/22/2014	574.24	3/12/2015	574.41	5/7/2015	573.89	9/4/2015	574.12	11/3/2015	575.21	3/17/2016	574.07	6/10/2016	573.79	9/16/2016	573.52	9/16/2016
GW-14	578.48	578.9	575.49	12/8/2011	575.20	3/27/2012	573.89	6/15/2012	573.63	10/16/201	12 573.3	5 12/5/20	12 574.2	20 3/8	3/2013 574	1.85 6/13	/2013 57	72.88	9/18/2013	563.05	12/13/20	3 576.99	3/20/20	14 574.03	6/12/201	4 574.74	9/29/2014	574.54	12/22/2014	574.30	3/12/2015	575.38	5/7/2015	563.46	9/4/2015	575.36	11/3/2015	569.52	3/17/2016	574.25	6/10/2016	562.38	9/16/2016	564.22	9/16/2016
GW-15	582.69	581.8	579.83	12/8/2011	579.81	3/27/2012	579.89	6/15/2012	578.35	10/16/201	12 577.3	1 12/5/20	12 577.9	3/8	3/2013 580	0.41 6/13	/2013 57	79.51	9/18/2013	577.56	12/13/20	3 578.08	3/20/20	14 580.59	6/12/201	4 579.50	9/29/2014	578.27	12/22/2014	576.67	3/12/2015	579.75	5/7/2015	579.89	9/4/2015	578.63	11/3/2015	579.93	3/17/2016	580.37	6/10/2016	575.71	9/16/2016	578.63	9/16/2016
GW-16	585.90	583.5	n/d	12/8/2011	n/d	3/27/2012	n/d	6/15/2012	n/d	10/16/201	12 n/d	12/5/20	12 n/d	3/8	3/2013 n	/d 6/13	/2013	n/d	9/18/2013	n/d	12/13/20	13 n/d	3/20/20	14 n/d	6/12/201	4 n/d	9/29/2014	n/d	12/22/2014	n/d	3/12/2015	n/d	5/7/2015	n/d	9/4/2015	n/d	11/3/2015	n/d	3/17/2016	n/d	6/10/2016	n/d	9/16/2016	n/d	9/16/2016
GW-16R	583.35	580.6	580.29	12/8/2011	580.24	3/27/2012	578.91	6/15/2012	578.66	10/16/201	12 578.12	2 12/5/20	12 579.9	3/8	3/2013 580	0.86 6/13	/2013 57	79.42	9/18/2013	578.98	12/13/20	3 580.91	3/20/20	14 580.20	6/12/201	4 579.72	9/29/2014	579.87	12/22/2014	580.61	3/12/2015	580.47	5/7/2015	580.93	9/4/2015	579.33	11/3/2015	579.37	3/17/2016	580.32	6/10/2016	579.14	9/16/2016	579.40	9/16/2016

		Octo	ber	Dece	mber	Ma	ırch	J	une	Sept	ember	Dec	ember	Ma	arch	Jui	ne	Septe	ember	Dec	ember	l l	March	M	ay	Septer	mber	Nove	ember	Ma	ırch	Ju	ine	Septe	ember	Dec	ember
		20	12	20	112	20	013	2	013	20	013	2	013	2	014	201	14	20	014	2	014		2015	20	115	201	15	20	015	20	016	20	116	20	116	2	016
Stream	Monument			water		water		water		water		water		water				water		water		water		water		water		water		water		water		water		water	
Gauge	Elevation	water elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	water elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
SG-1	578.01	n/d (dry)	10/16/2012	n/d (dry)	12/5/2012	n/d (dry)	3/8/2013	n/d (dry)	6/13/2013	n/d (dry)	9/18/2013	n/d (dry)	12/13/2013	573.47	3/20/2014	573.77	6/12/2014	578.01	9/29/2014	573.63	12/22/2014	574.11	3/12/2015	573.66	5/7/2015	574.81	9/4/2015	573.79	11/3/2015	573.17	3/17/2016	574.82	6/10/2016	578.82	9/16/2016	578.82	9/16/2016
SG-2	576.70	567.72	10/16/2012	571.70	12/5/2012	572.25	3/8/2013	572.76	6/13/2013	572.96	9/18/2013	571.87	12/13/2013	571.77	3/20/2014	573.44	6/12/2014	573.38	9/29/2014	573.05	12/22/2014	572.32	3/12/2015	573.47	5/7/2015	574.47	9/4/2015	573.60	11/3/2015	574.69	3/17/2016	574.74	6/10/2016	No Data	9/16/2016	No Data	9/16/2016
SG-3	581.62	572.90	10/16/2012	573.04	12/5/2012	573.76	3/8/2013	573.73	6/13/2013	573.78	9/18/2013	573.70	12/13/2013	574.50	3/20/2014	574.24	6/12/2014	573.83	9/29/2014	573.90	12/22/2014	574.20	3/12/2015	574.14	5/7/2015	574.42	9/4/2015	574.15	11/3/2015	573.44	3/17/2016	574.00	6/10/2016	No Data	9/16/2016	572.57	9/16/2016
SG-4	579.37	n/d (dry)	10/16/2012	n/d (dry)	12/5/2012	574.00	3/8/2013	574.25	6/13/2013	573.82	9/18/2013	573.86	12/13/2013	574.83	3/20/2014	574.45	6/12/2014	573.99	9/29/2014	573.92	12/22/2014	574.63	3/12/2015	574.63	5/7/2015	574.63	9/4/2015	574.63	11/3/2015	574.63	3/17/2016	574.63	6/10/2016	No Data	9/16/2016	No Data	9/16/2016
SG-5	578.11	571.07	10/16/2012	571.93	12/5/2012	571.65	3/8/2013	572.63	6/13/2013	572.43	9/18/2013	571.54	12/13/2013	572.39	3/20/2014	573.20	6/12/2014	573.21	9/29/2014	573.28	12/22/2014	572.27	3/12/2015	573.27	5/7/2015	574.07	9/4/2015	573.07	11/3/2015	572.82	3/17/2016	574.59	6/10/2016	573.80	9/16/2016	573.80	9/16/2016
SG-6	578.81	570.98	10/16/2012	567.64	12/5/2012	568.27	3/8/2013	568.94	6/13/2013	568.53	9/18/2013	567.75	12/13/2013	572.08	3/20/2014	573.26	6/12/2014	573.20	9/29/2014	571.92	12/22/2014	572.26	3/12/2015	573.87	5/7/2015	574.36	9/4/2015	573.36	11/3/2015	573.07	3/17/2016	574.42	6/10/2016	573.27	9/16/2016	573.27	9/16/2016

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| 589.0 | 565.60 | 10/16/2012 | 565.60 | 12/5/2012 | 565.60 | 3/8/2013 | 565.60
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| 588.7 | 567.00 | 10/16/2012 | 567.00 | 12/5/2012 | 567.00 | 3/8/2013 | 567.00
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| 587.8 | 567.10 | 10/16/2012 | 567.10 | 12/5/2012 | 567.10 | 3/8/2013 | 567.10
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| 590.1 | 565.60 | 10/16/2012 | 565.60 | 12/5/2012 | 565.60 | 3/8/2013 | 569.96
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 | 11/3/2015 | 571.31 | 3/17/2016 | 571.17 | 6/10/2016
 | 571.40 | 9/16/2016 | 571.17 | 9/16/2016 |
| 590.7 | 566.00 | 10/16/2012 | 566.00 | 12/5/2012 | 566.00 | 3/8/2013 | 566.00
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| 588.5 | 565.00 | 10/16/2012 | 565.00 | 12/5/2012 | 565.00 | 3/8/2013 | 565.00
 | 6/13/2013 | 3 565.00 | 9/18/2013 | 565.00 | 12/13/2013
 | 565.00 | 3/20/2014 | 565.00 | 6/12/2014 | 565.00
 | 9/29/2014 | 565.00 | 12/22/2014 | 565.00 | 3/12/2015
 | 565.00 | 5/7/2015 | 565.00 | 9/4/2015 | 565.00
 | 11/3/2015 | 565.00 | 3/17/2016 | 565.00 | 6/10/2016
 | 565.00 | 9/16/2016 | 565.00 | 9/16/2016 |
| 588.0 | 567.10 | 10/16/2012 | 567.10 | 12/5/2012 | 567.10 | 3/8/2013 | 567.10
 | 6/13/2013 | 3 567.10 | 9/18/2013 | 567.10 | 12/13/2013
 | 567.10 | 3/20/2014 | 567.10 | 6/12/2014 | 567.10
 | 9/29/2014 | 567.10 | 12/22/2014 | 567.10 | 3/12/2015
 | 567.10 | 5/7/2015 | 567.10 | 9/4/2015 | 567.10
 | 11/3/2015 | 567.10 | 3/17/2016 | 567.10 | 6/10/2016
 | 567.10 | 9/16/2016 | 567.10 | 9/16/2016 |
| 589.3 | 566 10 | 10/16/2012 | | 12/5/2012 | 566 10 | 3/8/2013 | 566.10
 | 6/13/2013 | | | |
 | | 3/20/2014 | 566.26 | |
 | | | | 566.31 |
 | | 01112010 | | 9/4/2015 |
 | 11/3/2015 | 566.38 | 3/17/2016 | | 0 0 0 . 0
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| | Top of Cleanout Elevation 588.0 588.4 588.5 588.0 588.5 588.0 | Top of Cleanout Elevation Water elev 589.0 565.60 588.4 567.00 588.7 567.00 588.5 567.10 586.2 567.10 586.2 567.10 586.2 567.10 586.9 589.3 566.10 587.4 564.40 589.3 567.40 599.3 567.50 589.5 565.50 589.5 565.50 589.5 565.50 589.5 565.50 589.5 565.50 588.5 565.00 588.5 565.00 588.5 565.00 588.5 565.00 588.5 565.00 588.5 565.00 567.10 567.10 567.10 567.10 567.10 567.50 588.5 565.50 567.50 588.5 565.50 567.50 588.5 565.50 567.50 588.5 565.50 567.50 | Cleanout Water elev date S89.0 565.60 10/16/2012 588.4 567.00 10/16/2012 588.7 567.00 10/16/2012 588.7 567.00 10/16/2012 588.7 567.00 10/16/2012 588.2 567.10 10/16/2012 588.0 567.10 10/16/2012 588.0 568.0 567.10 10/16/2012 589.3 568.10 10/16/2012 589.3 568.40 10/16/2012 589.3 567.40 10/16/2012 588.0 567.50 10/16/2012 588.0 567.50 10/16/2012 588.0 567.50 10/16/2012 588.0 567.60 10/16/2012 588.5 565.60 10/16/2012 588.5 565.60 10/16/2012 588.5 565.00 10/16/2012 588.5 565.00 10/16/2012 588.5 565.00 10/16/2012 588.5 565.00 10/16/2012 588.5 565.00 10/16/2012 588.5 565.00 10/16/2012 588.5 565.00 10/16/2012 588.5 565.00 10/16/2012 588.5 565.00 10/16/2012 588.5 565.00 10/16/2012 588.5 565.00 10/16/2012 588.5 565.00 10/16/2012 588.5 567.10 10/16/2012 588.5 567.10 10/16/2012 588.5 567.10 10/16/2012 588.5 567.10 10/16/2012 588.0 567.10 10/16/20 | Top of
Cleanout 2012 22
(elevation) S89.0 565.60 10/16/2012 565.60 S88.4 567.00 10/16/2012 565.60 S88.7 567.00 10/16/2012 567.00 S88.7 567.10 10/16/2012 567.10 S88.0 567.10 10/16/2012 567.10 S88.0 566.90 10/16/2012 566.90 S89.3 566.90 10/16/2012 566.40 S99.3 567.40 10/16/2012 566.40 S99.3 566.60 10/16/2012 567.60 S98.0 566.60 10/16/2012 567.60 S88.0 567.50 567.60 10/16/2012 567.50 S89.5 567.60 10/16/2012 565.50 S90.1 565.60 10/16/2012 565.00 S90.7 566.00 10/16/2012 565.00 S98.5 565.00 10/16/2012 566.00 S98.5 565.00 10/16/2012 565.00 S98. | Top of
Cleanout 2012 2012 Cleanout elev date elev 589.0 565.60 10/16/2012 565.60 12/5/2012 588.4 567.00 10/16/2012 567.00 12/5/2012 587.8 587.00 10/16/2012 567.00 12/5/2012 587.8 587.10 10/16/2012 567.00 12/5/2012 588.0 587.10 10/16/2012 567.10 12/5/2012 588.0 566.90 10/16/2012 567.10 12/5/2012 587.4 584.40 10/16/2012 566.01 12/5/2012 589.3 566.60 10/16/2012 567.01 12/5/2012 589.3 567.40 10/16/2012 567.01 12/5/2012 589.3 567.40 10/16/2012 567.01 12/5/2012 589.3 567.40 10/16/2012 567.01 12/5/2012 589.3 567.40 10/16/2012 567.01 12/5/2012 589.3 567.50 10/16/2012 | Top of Cleanout | Top of Cleanout Water elev date water date elev date date selev date
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Column C | Composition Composition | Top Cleanout Cle | Colsonout Cols | Composition Composition |

		Oct			ember		arch		June		tember		ember		arch	Ju			ember		ember		March		ay	September		November		farch	J	ine	Septe		Decem	
	Top of	20)12)12		2013		2013		013		013		014	20	14)14		014		2015)15	2015		2015		2016		016	20	16	2016	.6
Cleanout	Cleanout			water		water	1	water		water	l	water	l	water	1 1			water		water		water		water		water	wat		water	l	water		water		water	
ID	Elevation	water elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	water elev	date	elev	date	elev	date	elev	date	elev		elev date	ele		elev	date	elev	date	elev	date	elev	date
A-1	588.6	565.9	10/16/2012	565.9	12/5/2012	565.9	3/8/2013	565.9	6/13/2013	565.9	9/18/2013	565.9	12/13/2013	565.9	3/20/2014	565.9	6/12/2014	565.9	9/29/2014	565.9	12/22/2014	565.9	3/12/2015	565.9	5/7/2015	565.9 9/4/2	15 565	.9 11/3/201	5 565.9	3/17/2016	565.9	3/17/2016	565.9	9/16/2016	565.9	9/16/2016
A-2	-						0.00.000.00	500 E	0/10/0010										0.000.000.11	=00=	1010010011		0/10/00/#		E 100 0 4 E					0/12/00/10		0/47/0040		011010010		0/40/0040
A-3	582.5	563.5	10/16/2012	563.5	12/5/2012	563.5	3/8/2013	563.5	6/13/2013	563.5	9/18/2013	563.5	12/13/2013	563.5	3/20/2014	563.5	6/12/2014	563.5	9/29/2014	563.5	12/22/2014	563.5	3/12/2015	563.5	0/1/2010	563.5 9/4/2	15 563	.5 11/3/201	5 563.5	3/17/2016	563.5	3/17/2016	563.5	9/16/2016		9/16/2016
A-4	581.9 583.3	564.2 564.8	10/16/2012	564.8	12/5/2012	564.2	3/8/2013	564.2	6/13/2013	564.2 564.8	9/18/2013	564.2	12/13/2013	564.2	3/20/2014	564.2 564.8	6/12/2014	564.2 564.8	9/29/2014	564.2	12/22/2014	564.2	3/12/2015	564.2		564.2 9/4/2 564.8 9/4/2	15 564	.2 11/3/201	5 564.2	3/17/2016	564.2 564.8	3/17/2016	564.2 564.8	9/16/2016		9/16/2016
A-5 B-1	585.0	566.3	10/16/2012	566.3	12/5/2012	564.8 566.3	3/8/2013	564.8 566.3	6/13/2013	566.3	9/18/2013	564.8 566.3	12/13/2013	564.8		566.3	6/12/2014	566.3	9/29/2014	564.8 566.3	12/22/2014	564.8	3/12/2015	564.8 566.3		564.8 9/4/2 566.3 9/4/2	10 00	.0 11/0/201	5 564.8	3/17/2016	566.3	3/17/2016	504.8	9/16/2016		9/16/2016
B-1 B-2	584.8	565.8	10/16/2012	565.8	12/5/2012	565.8	3/8/2013	565.8	6/13/2013	565.8	9/18/2013	565.8	12/13/2013	565.8	3/20/2014	565.8	6/12/2014	565.8	9/29/2014	565.8	12/22/2014	566.3 565.8	3/12/2015 3/12/2015	565.8		565.8 9/4/2			5 565.8	3/17/2016	565.8	3/17/2016	565.8	9/16/2016		9/16/2016
B-3	586.4	566.8	10/16/2012	566.8	12/5/2012	566.8	3/0/2013	566.8	6/13/2013	566.8	9/10/2013	566.8	12/13/2013	566.8		566.8	6/12/2014	566.8	9/29/2014	566.8	12/22/2014	566.8	3/12/2015	566.8		566.8 9/4/2	10 000	.0 11/0/201	0 000.0	3/17/2016	505.0	3/17/2010		9/16/2016		9/16/2016
B-3	586.2	568.1	10/16/2012	568.1	12/5/2012	568.1	3/0/2013	568.1	6/13/2013	568.1	9/10/2013	560.0	12/13/2013	568.1	3/20/2014	568.1	6/12/2014	568.1	9/29/2014	568.1	12/22/2014	568.1	3/12/2015	568.1	41112414	568.1 9/4/2	10 000	.0 11/0/201	5 568 1	3/17/2016	560.0	3/17/2016	568.1	9/16/2016		9/16/2016
C1-1	583.8	566.0	10/16/2012	566.0	12/5/2012	566.0	3/8/2013	566.0	6/13/2013	566.0	9/18/2013	566.0	12/13/2013	566.0	3/20/2014	566.0	6/12/2014	566.0	9/29/2014	566.0	12/22/2014	566.0	3/12/2015	566.0	0/1/2010	566.0 9/4/2	15 566	0 11/3/201	5 566.0	3/17/2016	566.0	3/17/2016	566.0	9/16/2016		9/16/2016
C1-2	584.1	565.8	10/16/2012	565.8	12/5/2012	565.8	3/8/2013	565.8	6/13/2013	565.8	9/18/2013	565.8	12/13/2013	565.8	3/20/2014	565.8	6/12/2014	565.8	9/29/2014	565.8	12/22/2014	565.8	3/12/2015	565.8	5/7/2015	565.8 9/4/2	15 565	8 11/3/201	5 565.8	3/17/2016	565.8	3/17/2016	565.8	9/16/2016		9/16/2016
C1-3	583.2	565.8	10/16/2012	565.8	12/5/2012	565.8	3/8/2013	565.8	6/13/2013	565.8	9/18/2013	565.8	12/13/2013	565.8	3/20/2014	565.8	6/12/2014	565.8	9/29/2014	565.8	12/22/2014	565.8	3/12/2015	565.8	5/7/2015	565.8 9/4/2	15 565	8 11/3/201	5 565.8	3/17/2016	565.8	3/17/2016	565.8	9/16/2016		9/16/2016
C1-4 ¹⁸	583.1	563.0	10/16/2012	563.0	12/5/2012	563.0	3/8/2013	563.0	6/13/2013	563.0	9/18/2013	563.0	12/13/2013	563.0	3/20/2014	563.0	6/12/2014	563.0	9/29/2014	563.0	12/22/2014	563.0	3/12/2015	563.0	5/7/2015	563.0 9/4/2	15 563	0 11/3/201	5 563.0	3/17/2016	563.0	3/17/2016	563.0	9/16/2016		9/16/2016
C1-5	586.9	566.1	10/16/2012	566.1	12/5/2012	566.1	3/8/2013	566.1	6/13/2013	566.1	9/18/2013	566.1	12/13/2013	566.1	3/20/2014	566.1	6/12/2014	566.1	9/29/2014	566.1	12/22/2014	566.1	3/12/2015	566.1	5/7/2015	566.1 9/4/2	15 566	.1 11/3/201	5 566.1	3/17/2016	566.1	3/17/2016	566.1	9/16/2016		9/16/2016
C1-6	586.2	566.3	10/16/2012	566.3	12/5/2012	566.3	3/8/2013	566.3	6/13/2013	566.3	9/18/2013	566.3	12/13/2013	566.3	3/20/2014	566.3	6/12/2014	566.3	9/29/2014	566.3	12/22/2014	566.3	3/12/2015	566.3	5/7/2015	566.3 9/4/2	15 566	.3 11/3/201	5 566.3	3/17/2016	566.3	3/17/2016	566.3	9/16/2016		9/16/2016
C2-1	586.3	566.0	10/16/2012	566.0	12/5/2012	566.0	3/8/2013	566.0	6/13/2013	566.0	9/18/2013	566.0	12/13/2013	566.0	3/20/2014	566.0	6/12/2014	566.0	9/29/2014	566.0	12/22/2014	566.0	3/12/2015	566.0	5/7/2015	566.0 9/4/2	15 566	.0 11/3/201	5 566.0	3/17/2016	566.0	3/17/2016	566.0	9/16/2016	566.0	9/16/2016
C2-2	586.4	565.8	10/16/2012	565.8	12/5/2012	565.8	3/8/2013	565.8	6/13/2013	565.8	9/18/2013	565.8	12/13/2013	565.8	3/20/2014	565.8	6/12/2014	565.8	9/29/2014	565.8	12/22/2014	565.8	3/12/2015	565.8	5/7/2015	565.8 9/4/2	15 565	.8 11/3/201	5 565.8	3/17/2016	565.8	3/17/2016	565.8	9/16/2016	565.8	9/16/2016
C2-3	586.5	565.8	10/16/2012	565.8	12/5/2012	565.8	3/8/2013	565.8	6/13/2013	565.8	9/18/2013	565.8	12/13/2013	565.8	3/20/2014	565.8	6/12/2014	565.8	9/29/2014	565.8	12/22/2014	565.8	3/12/2015	565.8	5/7/2015	565.8 9/4/2	15 565	.8 11/3/201	5 565.8	3/17/2016	565.8	3/17/2016	565.8	9/16/2016	565.8	9/16/2016
C2-4	586.1	567.6	10/16/2012	567.6	12/5/2012	567.6	3/8/2013	567.6	6/13/2013	567.6	9/18/2013	567.6	12/13/2013	567.6	3/20/2014	567.6	6/12/2014	567.6	9/29/2014	567.6	12/22/2014	567.6	3/12/2015	567.6	5/7/2015	567.6 9/4/2	15 567	.6 11/3/201	5 567.6	3/17/2016	567.6	3/17/2016	567.6	9/16/2016	567.6	9/16/2016
C2-5	586.6	563.8	10/16/2012	563.8	12/5/2012	563.8	3/8/2013	563.8	6/13/2013	563.8	9/18/2013	563.8	12/13/2013	563.8	3/20/2014	563.8	6/12/2014	563.8	9/29/2014	563.8	12/22/2014	563.8	3/12/2015	563.8	5/7/2015	563.8 9/4/2	15 563	.8 11/3/201	5 563.8	3/17/2016	563.8	3/17/2016	563.8	9/16/2016	563.8	9/16/2016
C2-6	585.9	565.6	10/16/2012	565.6	12/5/2012	565.6	3/8/2013	565.6	6/13/2013	565.6	9/18/2013	565.6	12/13/2013	565.6	3/20/2014	565.6	6/12/2014	565.6	9/29/2014	565.6	12/22/2014	565.6	3/12/2015	565.6	5/7/2015	565.6 9/4/2	15 565	.6 11/3/201	5 565.6	3/17/2016	565.6	3/17/2016	565.6	9/16/2016		9/16/2016
AN	585.3	565.1	10/16/2012	565.1	12/5/2012	565.1	3/8/2013	565.1	6/13/2013	565.1	9/18/2013	565.1	12/13/2013	565.1	3/20/2014	565.1	6/12/2014	565.1	9/29/2014	565.1	12/22/2014	565.1	3/12/2015	565.1	5/7/2015	565.1 9/4/2	15 565	.1 11/3/201	5 565.1	3/17/2016	565.1	3/17/2016	565.1	9/16/2016	565.1	9/16/2016
AW(N)	588.2	566.5	10/16/2012	566.5	12/5/2012	566.5	3/8/2013	566.5	6/13/2013	566.5	9/18/2013	566.5	12/13/2013	566.5	3/20/2014	563.1	6/12/2014	563.1	9/29/2014	563.1	12/22/2014	563.1	3/12/2015	563.1	0/1/2010	563.1 9/4/2	15 563	.1 11/3/201	5 563.1	3/17/2016	563.1	3/17/2016	563.1	9/16/2016		9/16/2016
AW(S)	582.7	565.0	10/16/2012	565.0	12/5/2012	565.0	3/8/2013	565.0	6/13/2013	565.0	9/18/2013	565.0	12/13/2013	565.0	3/20/2014	565.0	6/12/2014	565.0	9/29/2014	565.0	12/22/2014	565.0	3/12/2015	565.0		565.0 9/4/2	15 565	.0 11/3/201	5 565.0	3/17/2016	565.0	3/17/2016	565.0	9/16/2016		9/16/2016
BN	584.8	564.9	10/16/2012	564.9	12/5/2012	564.9	3/8/2013	564.9	6/13/2013	564.9	9/18/2013	564.9	12/13/2013	564.9	3/20/2014	564.9	6/12/2014	564.9	9/29/2014	564.9	12/22/2014	564.9	3/12/2015	564.9		564.9 9/4/2	15 564	.9 11/3/201	5 564.9	3/17/2016	564.9	3/17/2016	564.9	9/16/2016		9/16/2016
BE	586.3	567.4	10/16/2012	567.4	12/5/2012	567.4	3/8/2013	567.4	6/13/2013	567.4	9/18/2013	567.4	12/13/2013	567.4	3/20/2014	567.4	6/12/2014	567.4	9/29/2014	567.4	12/22/2014	567.4	3/12/2015	567.4		567.4 9/4/2	15 567	.4 11/3/201	5 567.4	3/17/2016	567.4	3/17/2016	567.4	9/16/2016		9/16/2016
C1W	582.9	564.7	10/16/2012	564.7	12/5/2012	564.7	3/8/2013	564.7	6/13/2013	564.7	9/18/2013	564.7	12/13/2013	564.7	3/20/2014	564.7	6/12/2014	564.7	9/29/2014	564.7	12/22/2014	564.7	3/12/2015	564.7	5/7/2015	564.7 9/4/2	15 564	.7 11/3/201	5 564.7	3/17/2016	564.7	3/17/2016	564.7	9/16/2016		9/16/2016
C1S ⁸	586.0	566.3	10/16/2012	566.3	12/5/2012	566.3	3/8/2013	566.3	6/13/2013	566.3	9/18/2013	566.3	12/13/2013	566.3	3/20/2014	566.3	6/12/2014	566.3	9/29/2014	566.3	12/22/2014	566.3	3/12/2015	566.3	5/7/2015	566.3 9/4/2	15 566	.3 11/3/201	5 566.3	3/17/2016	566.3	3/17/2016	566.3	9/16/2016		9/16/2016
C2E	586.1	565.0	10/16/2012	565.0	12/5/2012	565.0	3/8/2013	565.0	6/13/2013	565.0	9/18/2013	565.0	12/13/2013	565.0	3/20/2014	565.0	6/12/2014	565.0	9/29/2014	565.0	12/22/2014	565.0	3/12/2015	565.0	5/7/2015	565.0 9/4/2	15 565	.0 11/3/201	5 565.0	3/17/2016	565.0	3/17/2016	565.0	9/16/2016		9/16/2016
C2S	585.4	563.0	10/16/2012	563.0	12/5/2012	563.0	3/8/2013	563.0	6/13/2013	563.0	9/18/2013	563.0	12/13/2013	563.0	3/20/2014	563.0	6/12/2014	563.0	9/29/2014	563.0	12/22/2014	563.0	3/12/2015	563.0	5/7/2015	563.0 9/4/2	15 563	.0 11/3/201	5 563.0	3/17/2016	563.0	3/17/2016	563.0	9/16/2016	563.0	9/16/2016

	Oct	tober	Dece	ember	Ma	rch	Ju	ıne	Sept	ember	Dec	ember	M:	arch	Ju	ne	Sept	ember	Dec	ember	n	March	N	lay	Septe	mber	Nove	ember	M:	arch	J	ıne	Septe	amber	Dece	ember
	20	012	20	012	20	113	20	113	2	013	2	2013	2	014	20	14	2	014	2	2014	1	2015	2		20	15	20	15	2	016	2	016	20	J16	20	016
Manhole			water		water		water		water		water		water				water		water		water		water		water		water		water		water		water	$\overline{}$	water	
ID	water elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	water elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
LMH-1	556.47	10/16/2012	556.77	12/5/2012	556.58	3/8/2013	557.25	6/13/2013	556.90	9/18/2013	557.01	12/13/2013	560.16	3/20/2014	556.21	6/12/2014	557.33	9/29/2014	555.96	12/22/2014	555.95	3/12/2015	557.14	5/7/2015	557.07	9/4/2015	556.76	11/3/2015	563.16	3/17/2016	564.54	3/17/2016	565.61	9/16/2016	563.14	9/16/2016
LMH-2	561.65	10/16/2012	561.63	12/5/2012	562.29	3/8/2013	562.04	6/13/2013	561.44	9/18/2013	561.14	12/13/2013	561.70	3/20/2014	563.08	6/12/2014	562.01	9/29/2014	562.41	12/22/2014	563.17	3/12/2015	562.61	5/7/2015	561.65	9/4/2015	561.23	11/3/2015	561.37	3/17/2016	561.42	3/17/2016	560.89	9/16/2016	561.65	9/16/2016
LMH-3	561.16	10/16/2012	560.16	12/5/2012	560.21	3/8/2013	560.99	6/13/2013	560.81	9/18/2013	559.46	12/13/2013	559.53	3/20/2014	559.45	6/12/2014	559.51	9/29/2014	559.31	12/22/2014	559.50	3/12/2015	559.63	5/7/2015	559.43	9/4/2015	559.42	11/3/2015	559.53	3/17/2016	559.60	3/17/2016	560.55	9/16/2016	559.30	9/16/2016
LMH-4	559.80	10/16/2012	559.20	12/5/2012	559.56	3/8/2013	560.28	6/13/2013	560.69	9/18/2013	559.94	12/13/2013	571.03	3/20/2014	560.31	6/12/2014	559.98	9/29/2014	560.05	12/22/2014	561.08	3/12/2015	560.73	5/7/2015	560.43	9/4/2015	560.33	11/3/2015	560.28	3/17/2016	560.83	3/17/2016	560.32	9/16/2016	561.22	9/16/2016

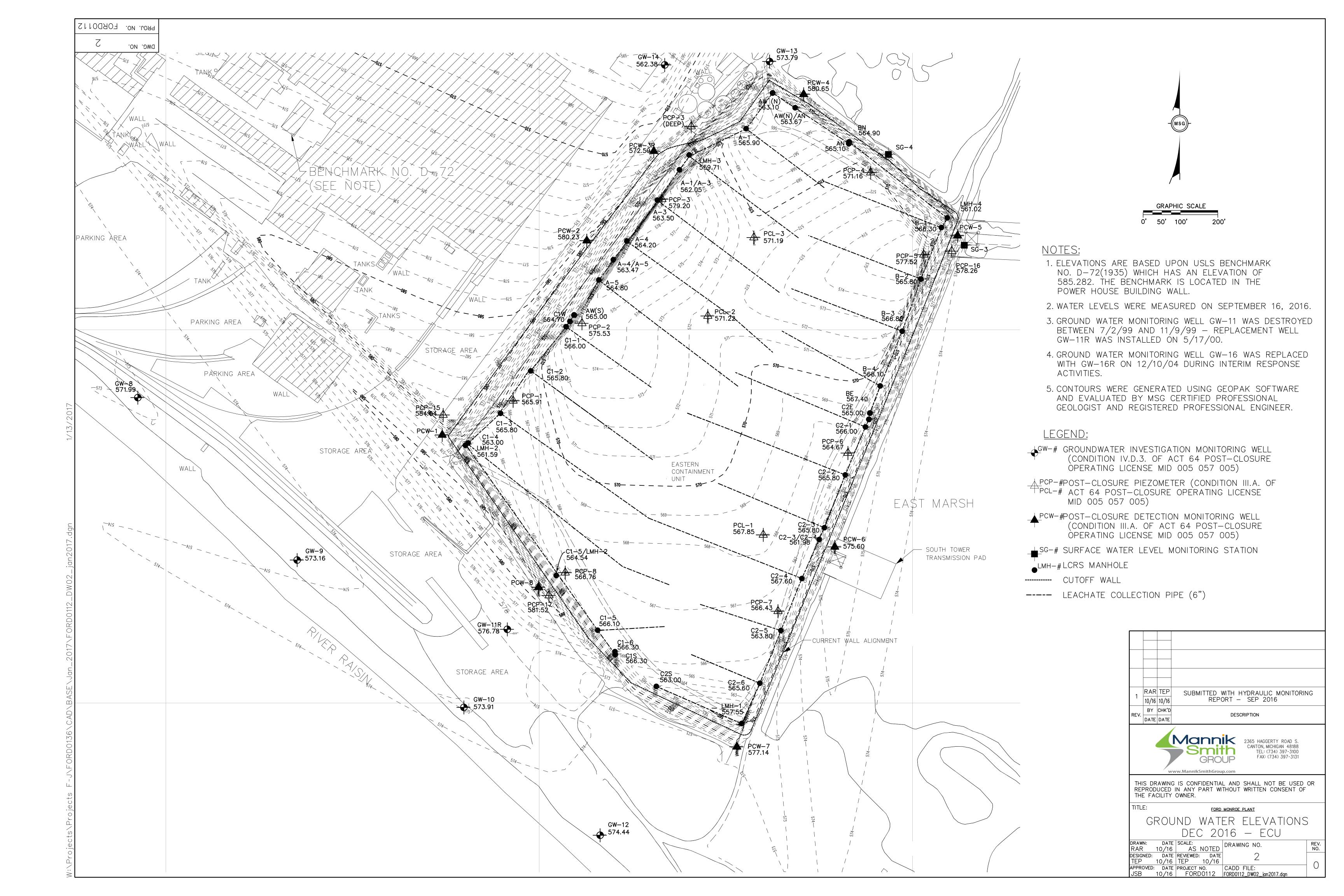
	Oct	ober	Dece	ember	Mai	rch	Ju	une	Sept	ember	Dec	ember	Ma	rch	Jui	ne	Sept	ember	Dec	cember	N.	March	M	lay	Septe	ember	Nove	ember	Ma	arch	Jı	une	Septe	ember	Dec	ember
	20	012	20	112	20	13	20	013	2	013	2	013	20	114	20	14	21	014	2	2014	:	2015	20	015	20	15	20	15	20	016	20	J16	21	016	2	016
Manhole			water		water		water		water		water		water				water		water		water		water		water		water		water		water	<i>i</i> 1	water	7	water	
ID	water elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	water elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date	elev	date
LMH-5	559.84	10/16/2012	557.17	12/5/2012	556.43	3/8/2013	556.71	6/13/2013	556.50	9/18/2013	556.76	12/13/2013	556.63	3/20/2014	558.91	6/12/2014	556.42	9/29/2014	556.39	12/22/2014	556.52	3/12/2015	556.18	5/7/2015	559.62	9/4/2015	556.28	11/3/2015	555.96	3/17/2016	559.87	3/17/2016	556.59	9/16/2016	561.74	9/16/2016
LMH-6	558.75	10/16/2012	559.46	12/5/2012	560.05	3/8/2013	560.68	6/13/2013	559.33	9/18/2013	559.84	12/13/2013	559.33	3/20/2014	559.48	6/12/2014	559.44	9/29/2014	564.20	12/22/2014	560.25	3/12/2015	560.32	5/7/2015	559.33	9/4/2015	560.39	11/3/2015	560.01	3/17/2016	560.60	3/17/2016	559.31	9/16/2016	560.19	9/16/2016
1 8 41 1 7	500.00	40/40/0040	FOF 44	10/5/0010	500.00	0/0/0040	50407	0/40/0040	FO4.00	0/40/0040	504.00	40/40/0040	FO4.00	0/00/0044	504.05	0/40/0044	10111	0/00/0044	50400	40/00/0044	20100	1,000,01	F04 F7	5/7/0045	2	0/4/0045	504.50	44/0/0045	50470	0/47/0040	504.70	0/47/0040	504.50	0/40/0040	F04 F4	01400010

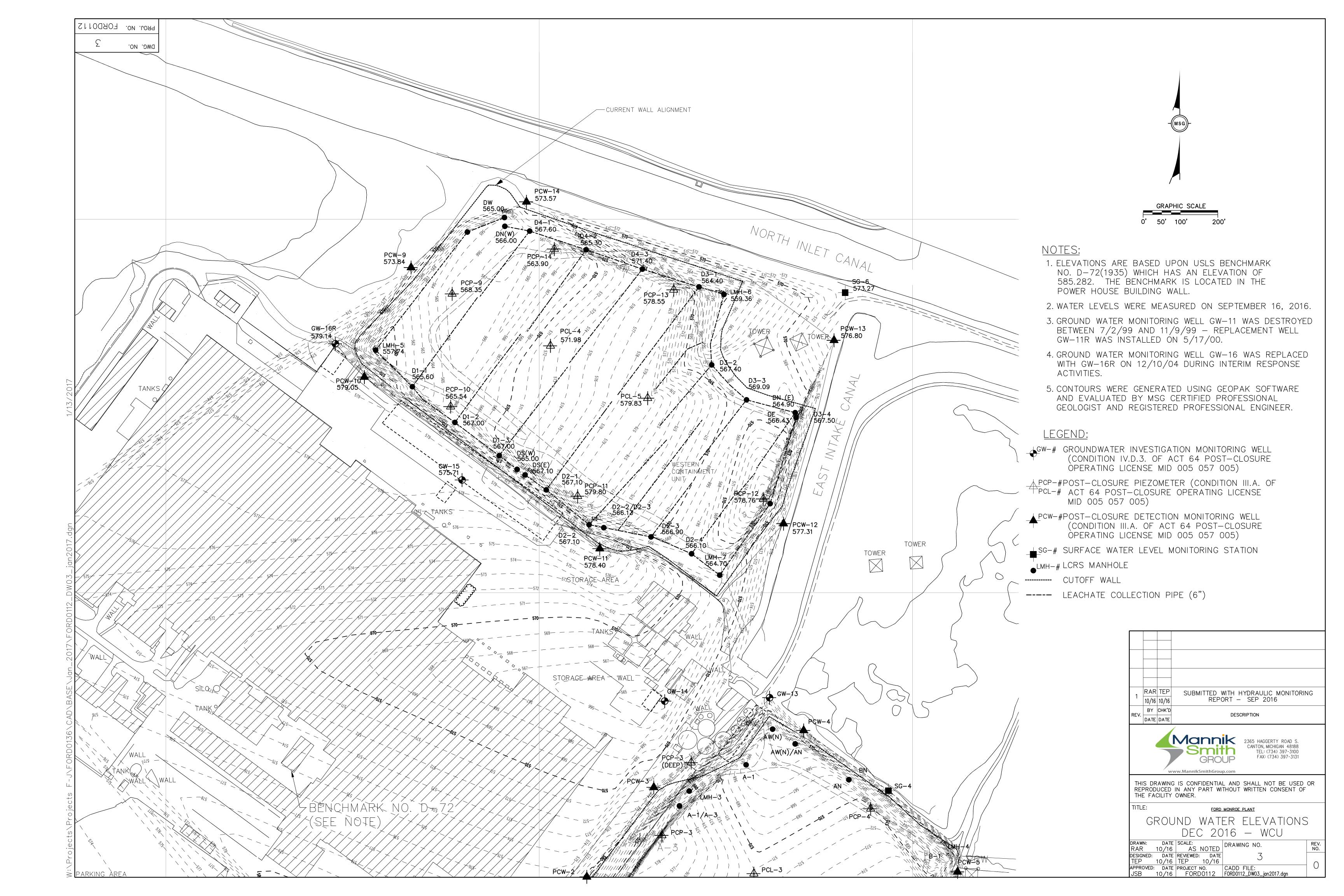
- Ground surface elevations were determined at the time of well/piezometer installation.
 Ground water monitoring well GW-11 was destroyed between 7/2/99 and 11/9/99. Replacement well GW-11R installed on 5/17/00.
 Top of casing elevation prior to 1/25/00 = 590.64 (casing was trimmed so outer protective casing lid would close completely).
- 5. Groundwater elevation data collected on this date was used primarily for well volume calculations See following Sept 01 data for hydraulic monitoring
 6. Well filled with water due to truck damage
 7. Top of casing elevation prior to \$12103 = 579.94 (casing was trimmed for a level TOC elevation).
 8. Top of casing elevation prior to August 2003 = 586.25 (cleanout piping was mended)
 9. Top of casing elevation prior to October 2003. PCW-1–579.76, PCW-2=579.89, PCW-10=582.31 (TOCs were extended due to raised well pads)
 10. GW-16 removed during EDSA interim response activities

- GW-16r was installed on 12/10/04 upon completion of EDSA interim response activities for replacement of GW-16. Top-of-casing elevation is 583.35 msl.
 Water elevation for PCW-2 was not obtained due to well damage from truck.
 Top of casing elevation prior to April 20, 2005: PCP-11=590.55, PCW-2=580.40 (casing was trimmed so well casing could closed and locked properly)

- 14. PCP-15, PCP-16 and PCP-17 were installed on March 20, 2008.
- 15. PCW-3 removed on 3/16/10
 16. PCW-3R was installed on 2/26/10
 17. PCW-2 Top of casing elevation prior to April 6, 2012: 580.33 (casing was extended due to continued submersion)
 18. C1-4 Top of casing prior to July 2012: 581.5 (casing was extended due to damage).

 n/d denotes data not determined or available





MEC Well/Boring Legend

MEC Soil Legend Sand Sandy Silt Silty Sand Sandy Clay Sand and Gravel Gravel Silt 哥 Silty Clay Clayey Silt Clay Sandy Silty Clay Silty Sand and Gravel Silty Clay and Gravel Topsoil Peat Limestone Construction Stone 4" x 8" Weathered Bedrock Silt and Clay Well Symbols Pipes and Screens None Pipe Double Walled Pipe Sealed Pipe NONE Fine Screen Coarse Screen Screen 1 Top Fittings None Cap Flush-mount Cap Above-ground Cap NONE Connector Reducer Pipe Break Packer Bottom Fittings None Pointed Plug Screw-on Cap NONE Connector Enlarger Pipe Break Packing and Backfill None Cement-Bentonite N/A NONE Bentonite Gravel Mix Gravel



Drilling Contractor: STEARNS DRILLING

Drilling Method: CME 750 ATV WITH 4,25 INCH ID HSA

Drilled By: BERT GRAHAM.

Midwest Environmental Consultants, Inc. 22720 Michigan Ave, Ste 306 Dearborn, Michigan 48124 Phone (313) 563-6326 (MECM) Fax (313) 563-2727

Log of Boring #: PCW-1

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN Engineer: GLEN TOEPFER

Drilling Date: 2/24/99

Datum:

		SUBSURFACE PROFILE			;		;							·	
Depth	Graphic Log	Description	Depth/Elev.	USCS symbol	Nimbor		ank -	FID (PPM)	N-Value	Recovery		enetra	ws/ft	l'est	Well Data
0 1 2 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Ground Surface Fill: Gravel Construction fill to 0.1' Silty Clay Brown silty clay with trace of sand and trace gravel, dry	<u> </u>									- , - · · · · · · · · · · · · · · · · ·	-		
10 11 11 11 11 11 11 11 11 11 11 11 11 1	<u> </u>	Silty Clay Brown silty clay with trace sand and trace gravel, moist	-11								\frac{1}{2} \frac\	-			
17 18 19 11 20 21 22 23 17 23 17 23 17 27 27 27 27 27 27 27 27 27 27 27 27 27		Silty Clay	20	CL	Jar1	SS	N/A	2	2 1.	- 	· -	· · · · · · · · · · · · · · · · · · ·			
24 25 26 26 26 26 26 26 26 26 26 26 26 26 26		Very stiff grey silty clay with trace sand and trace gravel, dry End of Borehole	. <u>[</u> 	CL	Jar2	SS	N/A	2	3 1		 	: <u> </u>	- -	: :	
27 = 28 = 29 = 30 = 30 = 30 = 30 = 30 = 30 = 30 = 3	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	The state of the s				in the State							-:; -:;		



Drilling Contractor: STEARNS DRILLING

Drilling Method: CME 750 ATV WITH 4:25 INCH ID HSA

Drilled By: BERT GRAHAM

Midwest Environmental Consultants, Inc. 22720 Michigan Ave, Ste 306 Dearborn, Michigan 48124 Phone (313) 563-6326 (MECM) Fax (313) 563-2727

Log of Boring #: PCW-2

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN Engineer: GLEN TOEPFER

Drilling Date: 2/24/99

Datum:

			SUBSURFACE PROFILE				;		: :	:		ì		****					
Danth	Lepul Herbil	Graphic Log	Description	Depth/Elev	USCS symbol	Nimber		Гуре	PID (PPM)	N-Value	Recovery			enetr blo	ation ation ows/ft	Test	!	. (vveil Dala
	Q		Ground Surface	0		:				:									
	1 = 1 2 = 1		Fill: Clay and Gravel Construction mix of brown silt clay and grey gravel to 0.5	y / -1.	5	;		!		1	:	 :	·						
	3 (1) 4 (1) - (1)		Silty Clay Brown silty clay with trace of sand and trace gravel, moist		;		:			; ;	1		- ! -	- , - - , -	· -		- -		
6			Silty Clay Grey silty clay with trace sand and trace gravel, moist	6 / -7	; - j	-		; !		;	:	:	; 			_! -	- []		
8			Gravel Grey subangular gravel to .75			.' · :		1 1		:	: -	-		; . _ ; _	:_	_! _			
)9 10 11			inch diameter, dry Silty Clay Grey silty clay with trace sand and trace gravel, dry	-10 -11	·		_	1	:	:		-	<u> </u>	: 	:	 : -			
12 13			Silty Clay Grey silty clay with trace sand and trace gravel, moist	:	·			:				<u>-</u>	<u>. 1</u> -	- ; -	· :	_! _			
14 15	三字		Silty Clay Brown silty clay with light grey streaks with trace sand and trace gravel, moist	,		· · · · · · · · · · · · · · · · · · ·	•	; ;				-	3	7 . 	·	<u></u> :			
16 17	H			-17.5	! !		•	:		;			; -	—	- -				
18- 19-	<u> </u>			:		:		:		ı			.	- <u>-</u> :	- -				
20- 21-	=		Silty Clay					· · · ·	· · ·	· 	· · · · · · · · · · · · · · · · · · ·	۔ نہ	- <u>-</u> -	• ÷	<u>=</u> :	. <u></u>			
22- 23-		~`\ ~~a s	Hard grey silty clay with trace sand and trace gravel, dry. Drillers est)		CL	Jar1	ss	, N	//A !	49 :	1.8	_Q_	2 <u>-</u>	ج مخ		- 			
24		¥		: :				1.	<u> </u>		•.	خرج		<u> </u>	<u>. </u>				
25-			End of D	-26	CL ;	Jar2	SS	, N	/A 	38	1.8 :	<u></u>	8_		<u>. </u>			V	
27 -	r	:	End of Borehole			٠.٠		1 · .	, i			: ;	- -		· ;				
27 28 29 30						e e in Senio Albana					-	ing Si	. —	_	- -	<u>. </u>			
30 <i>=</i>										o , Şili Şirotsa				_		-			



Log of Boring #: PCW-3

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN

Engineer: GLEN TOEPFER

		OUROUSELOTTE		······································										•	
		SUBSURFACE PROFILE					:					-			
Depth	Graphic Log	Description	Depth/Elev.		Number	Туре	OID (PPM)	M.Moho	anne A	Kecovery 	Pene t	tandar tration lows/ft	Test		Well Data
Ω	, O		•	. 5	ž	<u>ب</u>		; z	٠ à	ጀ :_	20 4	U 60	80		ž
0 1 1 2 1 3 3		Ground Surface Fill: Silty Clay Grey silty clay with trace sand trace gravel, moist Silty Clay	-1	!	7		:			:	·			:	
4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Grev subangular gravel to 75	-5					: :		:	·		-;		
7 pin pin pin pin pin pin pin pin pin pin		inch diameter, dry Silty Clay						•	*. *	-		· · · · · · · · · · · · · · · · · · ·	: _; _		
11 12 13 13 13 13 13 13 13 13 13 13 13 13 13		Grey silty clay with trace sand and trace gravel, moist				; ; ;						- <u>-</u> -	- <u>'</u> - - <u>'</u> -		
14 15 16		Silty Clay	-15		··.	· · · · · · · · · · · · · · · · · · ·	***	- }		<u>-</u>		·			
17 = 18 = 19 = 19 = 1		Brown silty clay, moist Silty Clay	; -18					:			: ; -, :-	. — -	- <u>-</u>		
20 = 1		Grey silty clay	20.6 ·					:-	:				—		
21=\		Sandy Clay	-21.5	CL	Jar1	SS	N/A	33	0.9	_ Q	-				
22		Hard grey sandy clay with race silt, dry		CL	Jar2	SS	N/A	54	0.9	_ ¯ `	-g-:-				
23		Silty Clay	-23.5	•	•			ŗ		. ,	/ዎ .		:		
24 25 25	量は	dard to very hard grey silty day with trace sand and trace travel, dry.	-25.5		Jar3	SS	N/A	120	0.5	_ 			·		Z
26 = 27 = 27 = 27 = 27 = 27 = 27 = 27 =	, V	Veathered Limestone ight grey fractured limestone End of Borehole	20.0				,	• •			·		:	::::::::	
26															
	2 5 45	ইট্টেট হাই ইট্টেট্টেটটোল হয় টাইলার পাটা চিট্টিটিটেটটোল হা	ಚಿತ್ರಗಳ ಪ್ರಜ್ಞಾನವಾಗಿ	and property and all	v for the a	September 1991	2 1 8 2 S S						20		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

Drilling Contractor: STEARNS DRILLING

Drilled By: BERT GRAHAM

Drilling Method: CME 750 ATV WITH 4.25 INCH ID HSA

Drilling Date: 2/24/99

Datum:



Log of Boring #: PCW-4

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN

Engineer: GLEN TOEPFER

			SUBSURFACE PROFILE		;									···	· ·	
	Depth	Graphic Log	Description	Darih/Ela	Copuncies.	USCS symbol	Number	Туре	PID (PPM)	-:- N-Value	Recovery	Penetr	ows/ft	Test		Well Data
-	0_		Ground Surface	() :		<u></u>	:		····						<u> </u>
	1-3		Silty Clay Grey silty clay with trace gravel, moist	/:	1	:		:		•		: ·	;			
	3 H		Silty Clay Brown silty clay with trace of gravel, dry	-3	3	: : :			;							
	6 7 8 8 9 10		Silty Sand Black silty sand, little gravel, moist	:		:				•		: ! : - : - ! .	·	·		
1	10 = 1 11 = 1 12 = 1		(Driller obs stiff mat 13.0)	13	· :		;	-	•		:	÷ - ; - 	: : :			
1	4 5 6				:		:				_	· · · · · · · · · · · · · · · · · · ·	; - -			
18 19	臺		Silty Clay Brown silty clay, moist	:	:		1 1					· -				
20 21 22	茎		Trans to grey unknown)	-22.5		*	:		•		-			_		
23 24 25		s 云 云 L	ilty Clay ery stiff to hard grey silty cla ith trace gravel, dry. mestone fragments at 27.5 ft	-25.5	CL	N/A	4	s N/	Ά 2	3 1.:	 2 _Q 	· ·		- :::		
26-	=		End of Borehole				- 	· · · · · ·			- /	/ · .		:::	::: ; =	₹;;;;;;
27	Ξ			•	CL	N/A	\ SS	S N/	A 36	3 1.5	୍ରପୁ -			- !!!		
26 27 28- 29- 30-		:			<u>.</u>	1						0 	·	- -		
30-												· ; — ; — =	· . — -			

Drilling Contractor: STEARNS DRILLING

Drilled By: BERT GRAHAM

Drilling Method: CME 750 ATV WITH 4.25 INCH ID HSA

Drilling Date: 3/3/99

Datum:



Drilled By: BERT GRAHAM

Drilling Method: CME 750 ATV WITH 4.25 INCH ID HSA

Midwest Environmental Consultants, Inc. 22720 Michigan Ave, Ste 306 Dearborn, Michigan 48124 Phone (313) 563-6326 (MECM) Fax (313) 563-2727

Log of Boring #: PCW-5

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN Engineer: GLEN TOEPFER

Datum:

	·	SUBSURFACE PROFILE		:	!					-		~~ <u>~</u>					
Depth	Graphic Log	Description	Depth/Elev.		USCS symbol	Number	Туре	رائم (دداه)	N-Value	Recovery	F	enetra blo	ws/ft	Test		Well Data	·
0-	: :	Ground Surface	. 0		1	i		:									
1 2 1 1 2 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1		Fill: 4x8 Stone	-3	; -	· :			:		<u>-</u>		- ! -	- -				
- 4 Hill Hill Hill Hill Hill Hill Hill Hi		Silty Sand Black silty sand, little gravel, moist	7	:			:				; ! 	 :	: - -				
8 9 10 m			-	; ;								- '- - '-	÷ :				
11 12 13 13 14 14 15 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16		Silty Clay Black silty clay, moist	•							:	: : · · · · · · · · · · · · · · · · · ·	- ; -	: : :	:			
15 16 17		(Driller obs stiff mat 17.0)	17	· :					:		- = -	 	_ ;				
18 19 11 20 11 12 12 12 12 12 12 12 12 12 12 12 12		Siltv Clav	• .	: : :	•		•	:		-	-	- : - :					
21 = 22 = 23 = 23 = 24		Brown silty clay with trace gravel, moist (Trans to grey unknown)	23			!		:		_ 	<u>·</u> ·	: :					
24 25	<u> </u>	Silty Clay Very stiff to hard grey silty cla with trace gravel, dry.		CL	, N/A	s	S N/A	28	3 ; 2.	_ .o _& 	: - -	- :	<u>·</u> _	; · :			
26 27 28		imestone ight grey fractured limestone	-27 -28	CL	N/A	s	S. N/A	48	1.0	0 · G	() ()	 .: - <u></u> .	- -	; ; 			
29 = 30 = 1		End of Borehole								المنازع	<u> </u>						
Drillir	ng Cont	ractor: STEARNS DRILLING	eniji T	- 2 (1/2)			chen si tuka ke	nger chire	g salayan r	-	in w	Drillir	ng Da	ite: 3/	4/99	F-1 3:4\-	



Log of Boring #: PCW-6

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN

Engineer: GLEN TOEPFER

										
	SUBSURFACE PROFILE		;	:	:	;		-		:
Depth		Depth/Elev,	USCS symbol	Number	Туре	PID (PPM)	N-Value	Recovery	Standard Penetration Test blows/ft 20 40 60 80	Well Data
0 =	Ground Surface	. 0		1		:				*
1 2 3 4 4 4 5 5 6 7 7 8 9 10 11 11 12 13 14 15 16 17 17 17 17 17 17 17 17 17 17 17 17 17	Display Silty Clay Brown Silty Clay	-12								
21	ine to medium wet sand washed in first spoon				!	; ;				
23	Silty Clay	23	<u>:</u>	:		i				
24 - \-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-	Brown silty clay with trace gravel, dry. Grey streaks present.	-25 5 -26	CL .	Jar1	ss ¦	N/A	20	1.8 ^Q Q	<u> </u>	
27 = 28 = 29 = 30 = 30 = 30	Silty Clay Very hard grey silty clay with htrace gravel, dry		CL ; J	Jar2 : :	ss	N/A	73	1.8		
31 ∰ 32 ∰	Sandy Silt Medium compact grey silty fine sand, wet		<u>.</u> !	;		1	:	_ _		
33 34	End of Borehole						:		<u>-</u>	
37:= 38:=								——————————————————————————————————————		

Drilling	Contra	ctor S	STEAR	NS I	DRILLII	ÑG
130 1937 (5.77)	N - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			24 July 2017	100000000000000000000000000000000000000	- 1.5

Drilled By: BERT GRAHAM

Drilling Method: CME 750 ATV WITH 4.25 INCH ID HSA

Drilling Date: 3/10/99

Datum:



Log of Boring #: PCW-7

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN

Engineer: GLEN TOEPFER

		SUBSURFACE PROFILE		:	;	!	• .	:	,			Star	ndard			
	Graphic Log	Description	Elev.	USCS symbol		: 1	. 5		, , <u>,</u> ,		Pe	netra	tion ws/ft	Test		ata
Depth	Graph		Depth/Elev	USCS				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Recovery	-	20	40	60	80	; !	Well Data
0	·	Ground Surface	0		:											
1 計				:	: :	·*. :	; ;	:			1	- : -	_	—. — !		
3 4 4		Silty Clay Brown silty clay, moist		i i				į	:	!	!	-:-	<u> </u>	_; _		
5 = 1 6 = 1	1, 1, -1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	-	· -6	:	!	:			:		:	 : - : -	:			
7 mil.			:	:	:	1	1	:	•	-	1 _	 - -	- · <u>:</u> .			
10=\\	1:1:1: 1:1:1:	Sandy Clay Grey sandy clay with little silt	~· •			:	•	:		: : : 1	<u> </u>	!	.i <u> </u>	!		
11 12 13 13 13 13 13 13 13 13 13 13 13 13 13	;: : <u>;</u> ;: :	moist		÷	٠.	,	:	1			; ; 	! - ! -	; ; - -	: -; -		
14	7.7. 7.7.		-15					· ;	•	-	: –	: _	<u>:</u> -	-; -		
16 = 1 17 = 1				:		:	:	ś				; , —	: — -	<u> </u>		
18 - 1		Silty Clay Brown silty clay, moist	· •	•	:	•	İ			_	<u>-</u> –		: 			
20 21 21		(Trans to grey unknown)	-21	1 	:	•	:	• •		_	; ;	' 				
22 - \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Silty Clay Stiff to very stiff grey silty clay with trace gravel, dry.		CL	N/A	S\$	N/A	15	1.2	o o o	<u>:</u> _	 (, ,	· . <u>·</u>	·		
24	Ţ <u></u> Ţ.	Sandy Silt	-24				<u> </u>	:	!	Ϊ.	<u>!</u> _ :		<u> </u>			
25	ا نيد.	Sandy Sift Medium compact fine grey sandy silt, moist	-25.2 -26		: N/A	SS SS	N/A N/A	12 30	0.9	غي <u> </u>	: :		_]
26 = = = = = = = = = = = = = = = = = = =	j .	Sandy Silt Medium compact grey silty ine sand, wet	10 1						3.3	ŏ	· - : · - :		 :			
29 = 30 = 30 = 30 = 30 = 30 = 30 = 30 = 3		End of Borehole								 - - -	7		- <u>-</u> -	— I		
)—————————————————————————————————————			23			ing den serie (1222) Yiking dinggan ja Mesipelikan Yiki Mesipelikan Yiki			er og er skullet <u>.</u> Den skullet og er Hannester og er	7 (2)						
		ractor, STEARNS DRILLING									C	Prilling	g Dat	te: 3/	5/99	
		ERT GRAHAM	a kysalisi Militari								D	atum	ic de		onimum posterio () VII. on onimum posterio VII. on onimum posterio ()	
Drilling	Meth	od: CME 750 ATV WITH 4.25 IN	CH ID I	HSA							SI	heet	1 of	1		



Log of Boring #: PCW-8

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN Engineer: GLEN TOEPFER

	SUBSURFACE PROFILE		i		:		:	:	: .	:
Depth Graphic Log	Description	Depth/Elev.	USCS symbol	Number	Туре	PID (PPM)	N-Value	Recovery	Standard Penetration Test blows/ft 20 40 60 80	Well Data
0	Ground Surface	. 0		:				:		
2 =	Fill: Silty Clay Brown silty clay with debris such as paper, metal, foil, and brick	-3	; ; ;							
4 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Silty Clay Soft black silty clay, moist, no odor	-5			-	-			-	
6										
9 10 11 11		;		:	:				- <u> </u>	
12 13 13 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	Silty Clay Very soft grey silty clay with little sand and trace gravel, moist			• !		ĵ	. :			
15 16 17 17 17 17 17 17 17 17 17 17 17 17 17	· · · · · · · · · · · · · · · · · · ·				: : :	· · · · · · · · · · · · · · · · · · ·				
18 17 19		-20			!					
20 21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	:									
24	Silty Clay Very stiff grey silty clay with trace sand and trace gravel, dry		CL .	Jar1	ss	N/A	18 ,	1.8		
26 27 27			CL .	Jar2	SS : :	N/A	19	1.9	(
28=	End of Borehole	j	1	i		1:	Ŷ		¥-:	
29 - 30 -								<u> </u>		

Drilling Contractor: STEARNS DRILLING

Drilled By: BERT GRAHAM

Drilling Method: CME 750 ATV WITH 4.25 INCH ID HSA

Drilling Date: 2/24/99

Datum:



Log of Boring #: PCW-9

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN Engineer: GLEN TOEPFER

Description Descr			SUBSURFACE PROFILE		;	!	1	<u> </u>	<u> </u>		i
Fill: Sitty Clay Soft brown silty clay marsh deposits Sity Clay Soft gray silty clay with trace gravel and trace sand, moist 5 5 5 6 7 7 Sitt and Clay Very loose brown silt and soft brown clay with trace sand and trace gravel, moist 10 11 Sandy Clay Sitif grey sandy clay with little silt and trace gravel, wet 13 Sitty Clay Sitif grey salty clay with trace sand and trace gravel 15 Sitty Clay Very siff to hard grey silty Clay Very siff to hard grey silty Clay with trace to little gravel and trace sand 20 End of Borehole 21 End of Borehole 23 End of Borehole 23 24 25 26 27 28 End of Borehole	Depth	Graphic Log			USCS symbol	Number	Туре	PID (PPM)	N-Value	Recovery	Penetration Test blows/ft
Soft brown silty clay marsh deposits deposits Silty Clay Soft grey silty clay with trace gravel and trace sand, moist Silt and Clay Very loose brown silt and soft brown clay with trace sand and trace gravel, moist Sandy Clay Stiff grey sandy clay with little silt and trace gravel, wet Silty Clay Stiff grey silty clay with trace sand and trace gravel wet Silty Clay Stiff grey silty clay with trace sand and trace gravel Silty Clay Stiff grey silty clay with trace sand and trace gravel Silty Clay Stiff grey silty clay with trace sand and trace gravel CL Jar1 SS N/A 27 1.5 Q Lay with trace to little gravel and trace sand and trace sand CL Jar2 SS N/A 40 1.5 Q End of Borehole Silty Clay End of Borehole	0.	1		! 0			į	İ		:	
Silt and Clay Very loose brown silt and soft brown clay with trace sand and trace gravel, moist 10 11 12 13 14 15 15 16 17 17 18 18 19 19 10 10 10 11 11 11 12 13 14 15 15 16 17 17 18 18 19 19 10 10 10 11 10 11 11 11	1 2- 3- 4- 5-		Soft brown silty clay marsh deposits Silty Clay Soft grey silty clay with trace gravel and trace sand, moist	-5						1	→
Sandy Clay Stiff grey sandy clay with little silt and trace gravel, wet Sitty Clay Stiff grey silty clay with trace sand and trace gravel Stifty Clay Very stiff to hard grey silty clay with trace to little gravel and trace sand CL Jar1 SS N/A 27 1.5 CL Jar2 SS N/A 40 1.5 End of Borehole The sand and trace sand CL Jar2 SS N/A 40 1.5 CL Jar2 SS N/A 40 1.5 CL Jar2 SS N/A 40 1.5 CL Jar2 SS N/A 40 1.5 CL Jar2 SS N/A 40 1.5 CL Jar2 SS N/A 40 1.5 CL Jar2 SS N/A 40 1.5 CL Jar2 SS N/A 40 1.5	9.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Silt and Clay Very loose brown silt and soft brown clay with trace sand and trace gravel, moist	-10	***					-	
Stiff grey silty clay with trace sand and trace gravel 15	11 12		Sandy Clay Stiff grey sandy clay with little silt and trace gravel, wet								
17	14-		Silty Clay Stiff grey silty clay with trace sand and trace gravel	-15		,					
20 and trace sand 21	17 = 18 = 1		Very stiff to hard grey silty	: -	CL	Jar1	ss	N/A	27	1.5_	
21 ————————————————————————————————————	==		and trace sand	1	:	+	:				
23	21 =			-21.5	CL	Jar2	ss	Ņ/A	40	1.5	-d
24	=	:	End of Borehole	,	·		- ;	:			
25 = 26 = 27 = 28 = 29 = 29 = 29 = 25 = 25 = 25 = 25 = 25	23-	.]		!		1	į	:		:	
26 =	24 =		•	•	١.	:		i		_	<u> </u>
26 =	25 =	į		:	:	•	:				
27 =				:		، ا .		-			
28	27 =										in the transfer of the term of the
29 = 1	20 =	·	i								
	20-	-		1				San P		-	
<u> </u>	29 - 30 -										

pointing contractor. Or and the t	NULLING	
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Della Dia DEDT OD ALIAM	**	
Drilled By: BERT GRAHAM	and the same	

Drilling Method: CME 750 ATV WITH 4.25 INCH ID HSA

Drilling Date: 2/23/99

Datum:



Log of Boring #: PCW-11

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN

Engineer:	GLEN	TOEPFER
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		SUBSURFACE PROFILE			ļ	:	1	;		
Depth	Graphic Log	Description	Depth/Elev.	USCS symbol	Number	Туре	PID (PPM)	N-Value	Recovery	Standard Penetration Test blows/ft 20 40 60 80
0 -		Ground Surface	0		:	;	1	1	ì	
1 1 1 2 1		Fill: Gravel Moist construction fill, 1"x3" gravel	-1.5			:	i ! ! !	† . !	1	
3 4 5 6 7 8 9 10 11 11 11 11 11 11 11 11 11 11 11 11		Silty Sand Black silty sand with some gravel, wet to moist	-12.5	The straight manage of the straight of the str					****	
13 = 14 = 1		driller obs harder material at 12.5 ft			i		!			
15 16					1			•	·	
17三 18去			•	:	:	:			÷	=
19 E		Silty Clay Very hard grey silty clay with some gravel and trace sand, dry	•	:	:		. :			
22		, 			!	•	!	:	· 	
24					N/A	ss	N/A	78	1.9 -	
26	<u> </u>		 17	:	<u> </u>	1	1	<u> , , , , , , , , , , , , , , , , ,</u>		-/
27量		Weathered Limestone	-27 -28		N/A	SS !	N/A	111	1.4 	3151131 (1937) 1111111
28 ====================================	1	Weathered light grey imestone, dry	A		i	!			n <u>-</u> ja -1	
29 = 3 30 = 3		End of Borehole		•					<u> </u>	

Drilling Contractor: STEARNS DRILL	LING	na isi Si Si Seberah Milati Kabupaten	
		and the second s	
Drilled By: BERT GRAHAM	1.		

Datum:

Drilling Method: CME 750 ATV WITH 4.25 INCH ID HSA

Sheet 1 of 1

Drilling Date: 3/2/99



Drilling Contractor: STEARNS DRILLING

Drilling Method: CME 750 ATV WITH 4.25 INCH ID HSA

Drilled By: BERT GRAHAM

Midwest Environmental Consultants, Inc. 22720 Michigan Ave, Ste 306 Dearborn, Michigan 48124 Phone (313) 563-6326 (MECM) Fax (313) 563-2727

Log of Boring #: PCW-12

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN Engineer: GLEN TOEPFER

Drilling Date: 2/23/99

Datum:

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		SUBSURFACE PROFILE		;	î		;	i			•						
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1	, ga	1		USCS symbol		1	:		Ţ		; Pe	enetra	ation	Test			•
			a)	: €		:	: 5		٠.	_		bio	ws/ft		:	. mt	
1	일	Description	: 교	S	i i	! .	į <u>a</u>		ט ו	Ď	1					<u> </u>	
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Depth	Graphic Log		Depth/Elev.	3	Number	Type	 PID (PPM)	N-Value	o value	ığ.	20	40	60	80		Well Data	
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0-	<u> </u>	Ground Surface	0	<u>!</u>	:	1		į							:		
1 . 5		Fill: Topsoil	:	1	i	·	i	į	1		1	_ ! _	1-		.0	•	. ે
1 13		Dark brown silty sand	-2			:	†	į		:	: 1	- 1		1	* •	33	-
2=	<u>`=</u>	Silty Clay	-2	i _	į	i	•	:	!								
3	7-7-6	Soft brown silty clay with trace		:	2			į	1			•		•		\mathcal{S}	
] ³ 3	;_;_;_ <u>;</u>	sand and trace gravel, dry				;				:	1	ł	:	1		$N \mid$	
4-				!	!	- į	_ +	ļ	-	i		_1_	<u>.</u>	!		\\ `	1111
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1 7 3	ź- <u>ź-</u> ź	Silty Clay	:	:	;	ž.		Ì	İ		: 1	;	i	į .		V	[[]]
6		Soft grey silty with trace of sand and trace of gravel,	!	!	i	•		į	:	:		_!_		: <u>_</u> _		$^{\prime\prime}$	////
J 7 ≕		sand and trace of gravel,		i	Ì		•		:	i	i	!		:			////
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∃و ∖	7-7-7		•		;		,	;	:	•	1	1	;	ŕ		1 K	[]]]
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12=		0% 04	·		2			;		-		-		<u></u> `		i	1111
13=		Silty Clay	:		: -			,			•	i	•			1 1	////
14=		Stiff light brown silty clay with	:		:			i			:	ŧ	:	!		1 1	////
		trace sand and trace gravel, moist								:-		i				1 E	////
15=	<u> </u>				J	, .		;	:	:				1		3 K	
16==					į	ŧ	•		į.		!	i		•	1111	1 1	1111
			-17 ·			:	•	}	:			_ i		-: <i>-</i>	1111	4 <i>E</i>	
17 ==	<u> </u>		-11					1	1	7	1			:		1 K	
18===	7-7-2		. !		1 .	:	;	!	f .	:	-	. ,		;	1111	1 1	1111
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19		•			:	:		:			ž 1	:		٠.		A. 2	
20 ===		Rilly Clay				•		*	:								
=Σ		Very stiff to hard grey silty			1	•		. •	į	_			·-			: ::	:::::::
21 = 1		clay with trace sand and trace	•	•	:				,	*		:				1 #	::::::l
22 ====	<u> </u>	gravel	į		•	:	: :	!			<u>:</u> _	. 1		<u>.</u>		Ħ	
22 27	44		i		į .	1		j	1	-						Ħ	
23====		(hit rock/cobble at 21 ft)].				1	!	:	•	4	1	:	:			
24			24		,		i	!	1	_							
25		Silt	·				:	}			1	<u> </u>			::::::::		
===	,	Very compact grey silt with	:	ML	Jar1	SS	N/A	33	1.5	, G	-						
26	5	some gravel (limestone ragments) and trace of clay	6.5 -						<u> </u>		_:G:_	~		· _		くろ	
27 =	/ ;	and trace of sand						·		?	1 .	;				: V :::	
<i>:</i> *1 ∃ .	1/2		:		į			,	;	٠.	1		,	;		y .	. 1
28=	- i .	End of Borehole :	. :		1		ŧ			-		· , <u></u> '					
29.=			•					:	:		1	1				1000	ુ ા
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1100 E			28 27	101 1000	-2 - 12		a Auriliana		da in term		<u>- 11 Eu</u>	12	9 (15)			16 GN 5	1.40.0
A North Contraction	Carrier Service	A CONTRACT OF THE PROPERTY OF						<u> </u>	2.4 2.7 200 20	22 (2							1 11 10 10



Log of Boring #: PCW-13

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN Engineer: GLEN TOEPFER

SUBSURFACE PROFIL	E		: :	:	:		. !		-			
Graphic Log	Depth/Elev.		Number	Type	PID (PPM)	N-Value	Recovery	Per	Standa etratio blows 40 6	n Test fft		Well Data
0 Ground Surface	, 0			i	1 .		. !					
Topsoil Black sandy clay with trace silt Topsoil Black sandy clay with trace silt Silty Clay Brown silty clay with trace gravel, moist	race -3											
15 77 77	÷	1	:				į	:	•	i		
16 16	17	i :			, i	1	<u>!</u>		i	_;;		
17 = 17 = 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1	-17	. .		:	ı	:		· •	: .	1		
Silty Clay 19 20 21 21	-22			:	:		-	<u> </u>	. — — . — —			
22 =	-22		<u> </u>	- 1.		<u> </u>			! <u> </u>	;		
23 Weathered limestone 24 light grey fractured limest	i i		lar1 İ	ss !	N/A i	97 :	1.9 ^{†G}					
with imbedded brown and	one ; I			:	:		-		<u> </u>	- - :		
grey silts and clays	: -26	J	ar2	ss i	N/A	56	1.0 &				Į]
26 End of Borehole 27 28 29 2 30 2 30 2 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6			-									

Drilling Contractor: STEARNS DRILLING

Drilled By: BERT GRAHAM

Drilling Date: 3/10/99

Datum:

Sheet 1 of 1

Drilling Method: CME 750 ATV WITH 4.25 INCH ID HSA



Log of Boring #: PCW-14

Project No: F66A5B

Project MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN Engineer: GLEN TOEPFER

		SUBSURFACE PROFILE		:	•	:	.1	•	:	
Depth	Graphic Log	Description	Depth/Elev.	USCS symbol	Number	Туре	PID.(PPM)	N-Value Recovery	Standard Penetration Test blows/ft	Well Data
0-	İ	Ground Surface	0			j	;	i		
1 - 2 - 3 - 4 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5		Fill: Silty Clays Soft brown silty clay and soft grey silty clay with trace of sand and trace of gravel, dry	; ; ; ; ,-5.5							
6 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	\ \ \		7 /		; ;	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!				
) 10 11	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Ciay and Sill	! -12	· · · · · · · · · · · · · · · · · · ·						
12 13 14 15 16 17 18 19 17 18 19 18 19 18 18 19 18 18 18 18 18 18 18 18 18 18 18 18 18		Silty Clay Stiff to very stiff grey silty clay with trace sand and trace gravel	-25	CŁ	Jar1	<u>.</u>	N/A	17 1.5 24 1.9		
26 27 10 28 29 30 30 30 30 30 30 30 30 30 30 30 30 30		End of Borehole				,				
29. <u>=</u> 30.=					3					

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2-0				5 /4	≥ (L) ¥.		العائدة المقالة	udu na nu			المشاشين	
52.5												
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Drilled By: BERT GRAHAM

Drilling Method: CME 750 ATV WITH 4.25 INCH ID HSA

Drilling Date: 2/23/99

Datum



Log of Boring #: GW-1

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN

Engineer: GLEN TOEPFER

	- 	SUBSURFACE PROFILE		1	<u> </u>	:	: , ,	1	,						
Depth	Graphic Log	Description	Depth/Elev.	USCS symbol	Number	Type	PID (PPM)	N-Value	Recovery	. F	enetra blov	dard ion To vs/ft 60			Well Data
0 1 2 3 4		Ground Surface Asphalt Sandy Gravel Brown sandy gravel (asphalt bedding), moist Sandy Clay Black sandy clay, moist	-5				and the second s				:				
5 7 7 7		Silty Clay Very soft grey silty clay with trace gravel, moist	; -3	CL	N/A	SS	N/A	3	1.0	- 	- ! - - ! -	; -	- - - - -		
8 9			-9		N/A	:	N/A	2	1.0 (-	- :-	: - :	; 		
1 =		Silty Sand Very loose grey silty fine sand	-9.5 -10	SM i	N/A N/A	SS SS	N/A N/A		0.4					······ (7
10=	4-4-6-	with trace gravel, moist	-10.5	MH	N/A	ss	N/A	2 :	0.8	}	-		: -		V 11.111111
11-11-11-11-11-11-11-11-11-11-11-11-11-		Silty Clay Very soft grey silty clay, moist with dry grey medium sand lenses at 9.9	-11	IVIT	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	33	N/A	2	U.O (} : 	; · - —	; ; — —	1	• • • , , ,	
13 <u>-</u>		Clayey Silt Very soft grey clayey silt, dry. Organics (roots) present	: !		;		:	 i		• ,•		* *	•	•	,
14-1 15-1	; ;	Clayey Silt Very soft clayey silt, dry. Organics (roots) present End of Borehole	*		:	-				- - 1	- <u>-</u>	 : :		· •	
16-	;	:	. !					. ;	-	- :	-!-	: _		٠	
17=	: :		- 1	1	:	1			:		_! <u>-</u> !-	<u>.</u> . <u></u>	e Ta rit		
19- 						Lati-					, , , , , , , , , , , , , , , , , , ,			Januaria make	

Drilling Contractor: STEARN	IS DRILLING			Drilling Date: 3/3/9)9
Drilled By: BERT GRAHAM				Datum:	eta e
Drilling Method: CME 750 AT	IV WITH 4.25 INCH I	DHSA		Sheet 1 of 1	rancej investigir



Log of Boring #: GW-2

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN Engineer: GLEN TOEPFER

		SUBSURFACE PROFILE		i	[i	Í	I			-				
Depth	Graphic Log	Description	Depth/Elev.	USCS symbol	Number	Туре	PID (PPM)	N-Value	Recovery	:	enetra blo	ws/ft	est -	Well Data	
ď	<u>; 0</u>			J Š	ž	<u> </u>	=	ż	<u> </u>	. 20	40	60	80	<u></u>	
1. 2. 3.		Ground Surface Silty Sand Black silty sand with trace gravel, moist	-3	. 4.				1		· · ·	· · · · · · · · · · · · · · · · · · ·	. .	-: - : -: -		•
4- 5- 6-		Silty Clay Brown Silty Clay Silty Sand	-6 -6.5		:						: - : - :	·	· · · · · · · · · · · · · · · · · · ·		
7-		Very loose grey silty fine sand with trace gravel and trace sand, moist Silty Clay	-8	CL	N/A N/A	ss ss	N/A N/A	2	1.0) 			:		
9-		Very soft grey silty clay, moist. Organics (roots) present. Sandy Silt	-1Ò	SM	N/A	ss	N/A	1	1.5 q	- - -	 : 			J	
11		Very loose black to brown fine sandy silt with trace clay, moist Silty Clay Very soft grey silty clay, moist	-11	CL :	N/A	ss :	. N/A :	2	9 4 1.5 9	- .	· ;		— · :	; : : : : : : : : : : : : : : : : : : :	
13-		Silty Clay Very soft brown silty clay with trace gravel, moist	-13		;				-	· · · ·	•		—		
14-		End of Borehole	***************************************		;	· · · · · · · · · · · · · · · · · · ·	:		· ·	- -	:	 ·	: _ : : : :	•	
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Drilling Contractor: STEARNS DRILLING

Drilled By: BERT GRAHAM

Drilling Method: CME 750 ATV WITH 4.25 INCH ID HSA

Drilling Date: 3/3/99

Datum:



Log of Boring #: GW-3

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN Engineer: GLEN TOEPFER

Γ			SUBSURFACE PROFILE		i.	į			į	•	;		·			
	Depth	Graphic Log	Description	Depth/Eley.	USCS symbol	Number	Туре	PID (PPM)	N-Value	Recovery		Penetra	ws/ft		Well Data	
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	2-		Black silty sand, moist Clayey Sand Black clayey sand with trace gravel, moist)									- 	· · · · · · · · · · · · · · · · · · ·		
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\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	5 6 7		Sand and Gravel	1 1	sw	N/A	ss	N/A	9	0.5	1	i _	÷	-		
	877		Loose coarse grey sand and subangular gravel, wet	-9	: SW :	N/A	ss ;	N/A	3	0.0		- - !	·	· · · · · · · · · · · · · · · · · · ·		
	10.11		Silty Clay Very soft grey silty clay with trace sand and moderate amount of organics (roots). moist	-11	CL -	: N/A - -	-88	N/A	2	1.5	, - —	<u>=</u> ;	·	- <u>-</u>		
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Drilling Contractor: STEARNS DRILLING

Drilling Date: 3/1/99

Drilled By: BERT GRAHAM

Datum:

Drilling Method: CME 750 ATV WITH 4.25 INCH ID HSA



Log of Boring #: GW-4

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN

Engineer: GLEN TOEPFER

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SUBSURFACE PROFILE		!	1	;	i	:	:				······	;	
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2 3 Silty Clay Very soft black silty clay with little to trace sand, and none			tan e d'amangaire e universation e managaire de la company		erem to ajump o erim meter myter myter t				· : :	1 · · · · · · · · · · · · · · · · · · ·	 		
to trace gravel, dry to moist	', ;			ľ	i i				-;	 i	-i !		
5		CL	N/A	ss	N/A	2	0.9	,	•	1	1		
6 Silty Sand with Sand Lenses	<u>-6</u>	SM	N/A		N/A	5	0.9	<u>-</u>	_:_	<u>+</u> _	<u> </u>		
7 Very loose fine grey silty sand with trace clay, dry. 1 inch thick coarse sand lenses (dry)	-7	SIVI	INA	- 33	IVA	. 5	0.9) 	:	i	! !		
thick coarse sand lenses (dry) 8 present		, ÇL i	N/A	SS	N/A	3	ر 1.4 و) }	_ ! _	<u>i</u> _	! _		/
9 Very soft black silty clay with	-9					į	4		:	:	!	,	
trace sand, dry, with organic			,		;	:				!	:		
10 End of Borehole		:		· ·	;		•		- ; -	: -	: — }		
End of Borehole :	İ	:	:		٠.		:	;		: :			
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Drilling Contractor: STEARNS DRILLING

Drilled By: BERT GRAHAM

Drilling Method: CME 750 ATV WITH 4.25 INCH ID HSA

Drilling Date: 3/1/99

Datum:



Drilling Contractor: STEARNS DRILLING

Drilling Method: CME 750 ATV WITH 4.25 INCH ID HSA

Drilled By: BERT GRAHAM

Midwest Environmental Consultants, Inc. 22720 Michigan Ave, Ste 306 Dearborn, Michigan 48124 Phone (313) 563-6326 (MECM) Fax (313) 563-2727

Log of Boring #: GW-5

Project No: F66A5B

Project: MONROE STAMPING PLANT

Drilling Date: 3/1/99

Datum:

Sheet 1 of 1

Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN

Engineer: GLEN TOEPFER

		SUBSURFACE PROFILE		1	-	!	:		:		·
Depth	Graphic Log	Description	Depth/Elev.	USCS symbol	Number	Туре,	PID (PPM)	N-Value	Recovery	Standard Penetration Test blows/ft 20 40 60 80	Well Dala
0-		Ground Surface	1	-						; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	
3-		Silty Clay Very soft brown silty clay with trace gravel, moist		CL	N/A	ss	N/A	7	1.0		
5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		Silty Sand Very loose coarse grey silty \sand with little gravel, moist	-6 -6.5	SM	Jar1	ss	N/A	6	1.4 9		
8 9		Silty Sand Very loose fine grey silty sand with trace gravel, moist Clay	- 9	CL	N/A.	SS	N/A	3 :	ф 1.8 ф ф		
10 11 12 13 13 13 13 13 13 13 13 13 13 13 13 13	***************************************	Very soft grey clay with some silt and organic material, moist. End of Borehole	; ;		:			•	;		
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Log of Boring #: GW-6

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN Engineer: GLEN TOEPFER

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	Depth	Graphic Log	Description	Depth/Elev.	USCS symbol	Number	Type	PID (PPM)	N-Value	Recovery	Pene b	tandard tration Te lows/ft 0 60		Well Data	
	0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		Ground Surface Fill: Silty Clay Brown and grey silty clay,moist Silty Sand Black silty sand	-3		to the control of the		:			,		-, -,		
	4-1		Sandy Silt Very loose fine sandy silt with trace gravel, dry	- 5	CL	N/A	SS	N/A	2	0.9	_ <u>-</u> _ : }	- : -	-i :		
	5		Silty Sand Loose silty fine grey sand with trace gravel, wet to moist	-6	SM	N/A	SS	N/A	5	0.9	}	i. - <u>-</u> -	· _		
	6 7 3 3 3 10 11 11 11 11 11 11 11 11 11 11 11 11		Clay Soft grey clay with organic material (wood, roots), moist	-8 :	CL	N/A	S\$	N/A	; ; 3	1.4 6) ; ;			Ş	
	9 9 6		End of Borehole	!	· :			<u></u>	· !		· · ·				
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Drilling Contractor: STEARNS DRILLING Drilling Date: 3/1/99

Drilling Bert GRAHAM Datum:

Drilling Method: CME 750 ATV WITH 4:25 INCH ID HSA Sheet 1 of 1



Log of Boring #: GW-7

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN

Engineer: GLEN TOEPFER

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		SUBSURFACE PROFILE		:	:						:
Depth	Graphic Log	Description	Depth/Elev.	USCS symbol	Number	Туре	PID (PPM)	N-Value	Recovery	Standard Penetration Test blows/ft 20 40 60 80	Well Dala
0-	1	Ground Surface	0		:	:	:		-		·
3-4-1-5-1		Sandy Clay Brown sandy clay with little silt, dry ;	-5	- Company Company Company Company) is the system of the system			
]		Sand	-5.5		i	ī.	:	<u>: </u>	<u></u>		
6-		Very loose coarse brown sand, dry	.á	, SM/ML	Jar 1	SS	N/A	3	1.8 0	, 	
, ;		Sandy Silt	-7	1 4		,	: :		. ф), 1 1 1 1	
/ 'E	<u> </u>	Very loose sandy silt with trace clay and trace gravel,		1			;	1 1	—-ф		
8 -		moist	-8	CL	N/A	SS	N/A	2	2.0 &		
917		Silty Clay Very soft grey silty clay with trace sand and trace gravel,	:				:	· ·	})	
10	I/I_{I}	moist Clay Very soft black and grey clay	-11	CL	N/A	SS ·	N/A	3 .	2.0 q	· · · · · · · · · · · · · · · · · · ·	
11=	j	with trace silt, moist, with roots					· · · · · · · · · · · · · · · · · · ·		—ф	•	
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Drilled By: BERT GRAHAM

Drilling Method: CME 750 ATV WITH 4.25 INCH ID HSA

Drilling Date: 2/26/99

Datum:

Sheet 1 of 1



Drilling Contractor: STEARNS DRILLING

Drilling Method: CME 750 ATV WITH 4 25 INCH ID HSA

Drilled By: BERT GRAHAM

Midwest Environmental Consultants, Inc. 22720 Michigan Ave, Ste 306 Dearborn, Michigan 48124 Phone (313) 563-6326 (MECM) Fax (313) 563-2727

Log of Boring #: GW-8

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN Engineer: GLEN TOEPFER

Drilling Date: 2/26/99

Datum:

Sheet 1 of 1

	:		SUBSURFACE PROFILE	D 00.50		:	:	;	:	4	į				,	
	Depth	Graphic Log	Description	Depth/Elev.	WSCS symbol	Number	Туре	PID (PPM)	N-Value	Recovery	. P	enetra blo	ws/ft	Test	:	Well Data
l	0 -	<u> </u>	Ground Surface	: 0	·	:		 -	1				'			
	1-		Topsoil Black sandy silt with some Clay, moist, roots present	-0.5	- -					: -	:		. :	_i _		
	3-		Silty Clay Brown silty clay with trace gravel, moist					:		: ;	- -	- : - !	- ÷ :			
	4 - 5 - 5 -		Very soft material (drill obs 4-5 ft)	-4-5		: : : :		· - - - - -		· • • • • • • • • • • • • • • • • • • •		- ; 	. <u>+</u> :	_i _		
	61111111111111111111111111111111111111		Silty Clay	· · · · ·						: :	- <u>1</u>	-	. <u>.</u> 	- - - 		
	8 17 17 17 17 17 17 17 17 17 17 17 17 17		Grey silty clay, moist	-8.5	CL	: . Jar 1	ss	N/A	2	1.4 q	· · · · · · · · · · · · · · · · · · ·	: - : -	! . : -	- <u>i</u>		
	9 T	<u> </u>	Clay Very soft grey clay with trace silt, moist	-9.5			1	:		—ф		ŧ	!	!		
	10구 글 11 를		Silty Clay Soft dark brown silty clay with trace gravel, dry	-10.5 -11	CL .	N/A	SS .	N/A	. 5	.1.3. d q) ·			· ·	·• · · · · · · · · · · · · · · · · · ·	
	12— 13—	. i	Silty Clay Soft light brown and light grey silty clay with trace gravel, moist	i.		:			•	 	: : <u>:</u> .	·	: 		* · · · · · · · · · · · · · · · · · · ·	
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Drilling Contractor: STEARNS DRILLING

Drilling Method: CME 750 ATV WITH 4.25 INCH ID HSA

Drilled By: BERT GRAHAM

Midwest Environmental Consultants, Inc. 22720 Michigan Ave, Ste 306 Dearborn, Michigan 48124 Phone (313) 563-6326 (MECM) Fax (313) 563-2727

Log of Boring #: GW-9

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY

Drilling Date: 2/25/99

Datum:

Sheet 1 of 1

Location: MONROE, MICHIGAN Engineer: GLEN TOEPFER

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Depth	Graphic Log	Description	Depth/Elev.	USCS symbol	Number	Туре	PID (PPM)	N-Value	Recovery	20	netra blov	ndard tion To ws/ft 60			vveir Data
0	1	Ground Surface	: 0	i	į	Ī	· :								
1 2		Sandy Silt Black sandy silt with trace gravel, coal fragments, moist	-2					1		 	— <u>.</u> —	:	;		
3-4-		Silty Clay Brown silty clay with trace gravel, moist	-5	_						; - - : -	; - · –	-	: : : :		4
5- 6- 7-		Silty Clay Grey silty clay with some sand, moist	-7						4	 -		: -			
8 - 9 -		Silty Clay Very soft to soft light brown silty clay with trace sand and	,	CL	N/A	SS	N/A	2 :	0.9. -0.9. -0.9.	- . -	- <u>:</u> -	: : : :	: - :	Į	
10-		trace gravel. Light grey streaks present below 9.0 ft. Moist		CL	N/A	SS	N/A	5 .	1.3 q	.1 -	<u>:</u> : —	- -	_		
11-	<u> </u>		-11				• •		<u> </u>	, م					
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Log of Boring #: GW-10

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN Engineer: GLEN TOEPFER

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		SUBSURFACE PROFILE					21			;	,			 _		
Depth	Graphic Log	: Description	Depth/Elev.	USCS symbol	Number	Type	PID (PPM)		Recovery	Pe	netra	ndard tion T ws/ft 60	Test		Well Data	
-0-	1	Ground Surface			;	:	•		; ;					<u>,</u>		
1 - 3 - 3 - 3 - 4 - 1		Fill: Gravel Gravel to 5" diameter, moist Silty Sand Black silty sand with some gravel; moist Sandy Clay	-3.5					The state of the s	demonstration of the second	· · · · · · · · · · · · · · · · · · ·		:				
5 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		Very soft grey sandy clay with trace gravel, moist, fron oxidation 5.0 to 5.5	-7	CL	N/A	SS	N/A	. 3	1.5 q) - ± -	i -	! :	-! !			
8 118		Silty Clay Soft grey silty clay with trace gravel and trace sand, moist	-8.5	CL	N/A		N/A	4	0.8 9	' i - -	: - <u>;</u> —	· -	 - - -			
9 =		Silty Sand	-9.5	SM	, N/A	SS	N/A	: 3 ,	0.2	1	÷		1	E		
10 17 17 11 11 11 11 11 11 11 11 11 11 11	芸 不可	Very loose grey silty fine sand with trace clay, moist Silty Clay Very soft grey silty clay, moist	-10.5	CL	N/A .	SS	N/A	3	ф 1.5 ф ф	· - -	· 		-1 :			
12		Sandy Clay Very soft grey sandy clay Silty Clay	;	CL	N/A	ss .	N/A	3 :	——ф ф 1.3.ф		:		: -		V :::::	
13 = = = = = = = = = = = = = = = = = = =		Soft grey and brown silty clay with trace gravel, moist. Organic material (wood fibers) present.	-13	<u>-</u> -		······································						·	:			
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Drilling Date: 3/2/99
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Drilled By: BERT GRAHAM

Drilling Method: CME 750 ATV WITH 4.25 INCH ID HSA

Midwest Environmental Consultants, Inc. 22720 Michigan Ave, Ste 306 Dearborn, Michigan 48124 Phone (313) 563-6326 (MECM) Fax (313) 563-2727

Log of Boring #: GW-11

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN Engineer: GLEN TOEPFER

Sheet 1 of 1.

•		SUBSURFACE PROFILE		<u> </u>		1	}	:	1				,	
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1-		Fill: Silty Clay Brown silty clay with debns (plastic), moist	! ! -2			4	; ; ;			:		·:		
3-		Sandy Silt Black sandy silt with trace clay, moist	-3] ! !	i :			 : !	- <u>!</u> -	·		
4 11 11 1		Sandy Clay Black sandy clay with some silt	: -5					į		·	_ ' _	·		Y
677		Silty Clay Brown silty clay with trace sand and trace gravel, moist							: -	: :	- - :	<u>i</u> _i .	-	
			-8									•		
9-7		Silty Sand Very loose grey silty fine sand, wet. Estimated top is 8 ft	-9.5	; SM	Jari	SS	N/A	2	0.5		- , 	- :		
10 m	#	Clayey Silt Very soft grey clayey silt with little sand, moist	-11		N/A	 ,	N/A	2	1.0 P	- - -		— — - - — -	_ :::::::::::::::::::::::::::::::::::::	
	:	End of Borehole		•			- , - 1-	•		:		ī	÷	
12-	. :		İ							. <u>-</u> :			_ !.	
13-					:	•	-			•				
7			;						-					
14-		•								<u> </u>				
15-	•		:							i		!	:	
13=	. !		. [į	1.			:		1		1 1	:	-
16-				į	. !							<u> </u>		Ī
17=			• !				:			:		ì	•	
18-			1		·				·	<u>:</u> _				
19— 20—				2										
Drilli	ng Cont	ractor: STEARNS DRILLING					3 r 31 <u></u>		: 3 Faz. ₁ . (1). : : : : : : : : : : : : : : : : : : :		Drillir	ng Date:	2/25/99	



Log of Boring #: GW-12

Project No: F66A5B

Project: MÓNROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN Engineer: GLEN TOEPFER

			SUBSURFACE PROFILE			1	i	·			i		1		:		
	uidan	Graphic Log	Description	Depth/Elev.	USCS symbol	Number	Турв	PID (PPM)	N-Value	Recavery	:	enetra blo	ndard ition T ws/ft 60	est		Well Data	
	0		Ground Surface	; 0	 	1			•		·				r		
	2 3 3 4 4 5 5		Black sandy silt with organic material present, moist Silty Clay Light brown silty clay with trace sand and trace gravel, moist	-0.5							— - 1 ;						
1	6	<u> </u>	·	-6	· ·	<u>:</u>	•	····	•		_ :		<u>:</u> _	_1	•		•
) 	基。	芸芸芸	Silty Clay		CL	! Jar1	SS	: N/A	¹ 3	1.5) } { .		:	:			*****
. 9	(元) (元) (元)		Very soft to soft grey silty clay with trace sand and trace gravel, moist. Organic material (roots) present to 8.0 ft		CL	: N/A	SS	N/A	3	1.5 ¢	9 -			 : :			
11			Sandy Clay	11	CL	N/A	SS	N/A	. 2	1.8 q	· — :			· —			
12	<u> -7:7:</u>	<u> </u>	Very soft grey sandy clay with trace silt, moist to wet	-12 ·		:		<u>-</u> -		<u></u>		· 	<u> </u>			■:::	
13	差差差		Silty Clay Very soft grey silty clay with trace sand and trace gravel, moist	-13	CL	N/A	SS ·	N/A	6	1.8 0				: .		7	
15 16			Silty Clay Medium to stiff brown silty clay with trace gravel, moist	: -16 :	CL :	N/A	ss .	N/A	15	2.0 G	 7	· -	•	_ i			10000
. 10	=	. !	End of Borehole	•				·	•		O		- -	- :			
17 18- 19-	117771	• .		· · · · · · · · · · · · · · · · · · ·				:	- -		<u> </u>		, –.	_ :		-	
20-																	

Drilling Contractor STEARN	IS DRILLING		All INVES		Drilling Date:	2/25/99
Drilled By: BERT GRAHAM					Datum	
Drilling Method: CME 750 A	「VWITH 4 25 IN	CH ID HSA		Service of the servic	Chaof 1 Af 1	To Describe the Constitution of the Constitution of
				- ter (4,000 <u>- 1,000 - 1,000) </u>	 	a see a see a see a see a see a



Log of Boring #: GW-13

Project No: F66A5B

Project MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN

Engineer: GLEN TOEPFER

		SUBSURFACE PROFILE		į		:	-	ſ	:	:			•
Depth	Graphic Log	Description	Depth/Elev.	USCS symbol	Number	Туре	PID (PPM)	N-Value	Recovery	Pen	Standar etration blows/fi	.Test t	Well Data
0-	1	: Ground Surface	. 0		!	:	:	•	! .				
1- 2- 3-		Fill: Silty Clay Grey silty clay with trace sand and trace gravel, dry	-4.5										
5-		Silty Clay	•	<u> </u>	:	1	<u>i </u>	<u> </u>	: 1	•			
6-		Medium grey silty clay with trace sand and trace gravel, moist	-6	CL	N/A	SS	N/A	10	! . 1.3 {) - -	! ! ! ! !	_i	
a) "Ξ		Silty Clay	· -7	<u>.</u>	1		i :)	: !	í	
部) (国		Stiff brown silty clay with trace gravel, moist	,		<u> </u>		<u> </u>		9) ;	: !	:	
8 1		Silty Clay Stiff to medium brown silty		CL	N/A	ss	N/A	10	1.5) <u> </u>	- !	-; - ;	2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
10) rrr		clay with trace gravet, dry. Light grey mottles to 9 ft.	; -11	CL	i. , N/A ' i	SS :	N/A	7	7.5 ရှ	:	· :	-	
12-13-13-13-13-13-13-13-13-13-13-13-13-13-		Silty Clay Soft grey silty clay, dry		ĠL	N/A	ss	N/A	4	1.4 Q	; 		<u> </u>	
14			-14	:	· (-	-0				
15		Silty Clay Medium brown silty clay, dry. Grey streaks and mottles.		CL	N/A	ss	N/A	7	1.5 0.0	. — — ; 	· · ·	·	
17-		inoues.	-17 :	i		:		. •	Ĭ				
18 -		Silty Clay Very stiff brown silty clay with little gravel, dry	-19	CL	N/A	ss	N/A	17	— Ģ 1.8 — Ģ) ;)		!	
: 'J=		End of Borehole		:	• •			•					
20=	kara S			•		ing By			ر ريست ريست		۔ نے چکر ک	م مواجعة رما	
gan dan dalam Seriesan	et da i di Labara da S Sangara da Sangara	ر مان النبي ويُول والأولية في النبي الله الله الله الله الله والموافق الله الله الله الله الله الله الله الل		<u> </u>	29	y to a way	garaga Prasi	1.5		erang gula Pil	12 F 1 4		transki fyrirfræt med træfa 🌃 🖟

Drilling Contractor: STEARNS DRILLING

Drilled By: BERT GRAHAM

Drilling Method: CME 750 ATV WITH 4.25 INCH ID HSA

Drilling Date: 3/2/99

Datum:

Sheet 1 of 1



Log of Boring #: GW-14

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN Engineer: GLEN TOEPFER

		,	SUBSURFACE PROFILE		-!	į .		!	i		;	-		· · · ·		
	Depth	Graphic Log	Description	Depth/Elev.	USCS symbol	Number	Туре	PID (PPM)	N-Value	Recovery	Pe	netra	ndaro ition ws/ft	Test	· · · · · · · · · · · · · · · · · · ·	Well Data
	0-	,	Ground Surface	. 0	1	- 		;		:		_,_			:	
	1 2 3 4 5 6		Silty Sand Brown silty fine sand with some gravel, dry. Petroleum	<i></i>	-							 	1 1 1			
	7-3			: -8	sw	N/A	ss	N/A	4	1.5		i ! 	<u> </u>	: ₋		
	9 10 10		Silty Clay Soft grey silty clay, dry	-10	CL	N/A	ss	N/A	3	1.0	9000	:	;	- · · · ·		
	11 m 12 m		Silty Clay Soft brown and grey silty clay with trace gravel, moist	-12	CL	N/A	ss	N/A	3	1.4	⊕ <u>+</u> - ⊕ ⊕ ⊕ • :	- · — !	÷ :	-' - !		
	13 = 14 = 14 = 14		Silty Clay Stiff brown silty clay with trace gravel, moist. Grey streaks	:	CL -	N/A	ss	N/A	6	1.8	30 i	;	į	-; -!		
	15 =		above 14 ft	<u> </u>	CL	N/A	ss	N/A	13	2.0	96 - - 60 :	; -		-: -		
-	16 =		0111	-16.5		1		;		i		; —	<u> </u>	-i		
	17 = 18 =		Silty Clay Very stiff to hard grey silty clay, dry, with 2" brown silty	-17.6 -18.5	CL	N/A	SS	N/A	43	2.0	۾ ۾ :	; —	· .— -	! -		
1	19 = 2		Silty Clay		CL	N/A	ss	N/A	43	2.0	9	;		;		5
1	21 = 22 = 3		Hard silty brown clay, dry, with brown medium sand seam at 18.5'		CL	N/A-	SS -	ŅĄ	55	2.0		 ;)	 -	·		
2	23	 	Silty Clay Hard to very hard grey silty clay with trace gravel, dry. Limestone fragments 20-22'.	-23.5 -24	CL !	N/A	ss.	N/A	84	1.8			 : 			
2	5 = 1 6 = 1 7	# 1	Weathered Limestone Light grey weathered limestone	:		1	!			:	:	. - -	·	: : :=::::::::::::::::::::::::::::::::		
	8- <u>=</u>	\$	End of Borehole	!			-		; ;	<u>.</u>	·		i ,, ;	-		
2 - 30	9 <u>-</u> 3- <u>-</u>											_/_	- - - -			

Drilling Contractor, STEARNS DRILLING

Drilled By: BERT GRAHAM

Drilling Method: CME 750 ATV WITH 4:25 INCH ID HSA.

Drilling Date: 3/4/99

Datum:

Sheet 1 of 1



Log of Boring #: GW-15

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN

Engineer: GLEN TOEPFER

	SUBSURFACE PROFILE		1	:				Shirehous		·			
Depth Graphic Log	Description	Depth/Elev.	USCS symbol	Number	Type	PID (PPM)	N-Value	Recovery		netra bio	ndard ition T ws/ft 60		 Well Data
1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	Ground Surface Fill: Gravel Grey gravel, moist	; 0 ; -2.5	- 1						÷ -;	:-		:	
4-115	Silty Çlay Brown silty clay :	-3.5						: : : : : : : : : : : : : : : : : : :	· · · · · · · · · · · · · · · · · · ·	_ :		:	
7	Silty Clay Soft brown and grey silty clay with little gravel, moist Frans to grey unknown)	9	CL	N/A	SS 	N/A	3	0.5 0	!	- ! - : : -	:	-!	
11 <u>11 11 11 11 11 11 11 11 11 11 11 11 </u>	ilty Clay oft grey silty clay, moist etroleum odor.		CL .	N/A	ss	Ņ/Α	3	0.5 0			:	-	
13 (si	rey medium sand, wet igns in lower spoon)	-13		;		. i					- -	-	7
14	Ity Clay Pry stiff brown silty clay with ce gravel End of Borehole	-15 !	CL:	N/A	SS	N/A	18	1.5))	· _ ·	- -	:	
7=	Line of doterible		:	:	-		ı			.		- : :	
8 - 1 9 - 1 9 - 1 9 - 2		e with a wind a second					•	<u> </u>					

Drilling Contractor: STEARNS DRILLING

Drilled By: BERT GRAHAM

Drilling Method: CME 750 ATV WITH 4.25 INCH ID HSA

Drilling Date: 3/4/99

Datum.

Sheet: 1 of 1



Log of Boring #: GW-16

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN Engineer: GLEN TOEPFER

r					······										
	SUBSURFACE PROFILE		1	:	1 7										
Depth Graphic Log	<u> </u>	Depth/Elev.	USCS symbol	Number	Type	PID (PPM)	N-Value	Recovery	:	Pen		dard ion T /s/ft 60		:	Well Data
0	Ground Surface	· 0,	J		:										
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Sity Clay Black silty clay with trace sand, moist, petroleum odor		 	***					· · · · · · · · · · · · · · · · · · ·		— · , — I		 		
5 = 5 = 5	경 3 대			:		:		:	,		. —		; !		
7		-7	į			i	:				:	·	-: -		
8	Silty Clay Yery soft brown silty clay with trace gravel, moist	8.5	CI	1	66		:	<u>!</u>	<u>:</u> -	; - –	!	· -			
10 3 7 7	g Silty Clay Very soft black silty clay with trace I sand and trace gravel, organic material, petro odor	-10.9	CL	N/A	SS	N/A	2	1.5	0 3	·	` '~	<u>:</u> -	_:		
	Peat	-11.5	PT	. N/A .	SS	N/A	2	1:0 (5			:		1111	
12 = 7.7.7	n\ Black to Brown Peat, moist,			- Jari-		N/A-	2	_ D.5 -(Ð		· —				777
13	i, Sitt	. :	PT	. N/A	SS	N/A		0.5	⋠		•	:			
14 E 15 E 15 E 15 E 15 E 15 E 15 E 15 E	Very loose tan silt with trace gravel,	-15	PT	N/A	SS .	N/A	2	0.9	<u> </u>			<u>:</u> _	<u> </u>		*******
16 = 1	Pear Shown peat, moist, petro odor		CL	N/A -	SS	N/A	3	0.9	ζ.		,		;	::::::E	
	Silty Clay	-17					····	(}~ 						
18	Very soft black silty clay with trace gravel, moist, organics present, petroleum odor	-18.2	SW -	N/A - N/A	- 58 - 58	N/A N/A	- 4	0.5) }				· _ :		
19 = 7 7	Sandy Clay		CL	N/A	SS	N/A	8	1.0	5	-		•		### : [):::::i
20 = 1	Very soft grey sandy clay with some silt and black organics, petroleum odor, moist	. L		····					f _	 -			· – :		/
22	Medium Sand Loose medium grey sand with trace gravel, moist	-22	CL .	N/A	SS	N/A	11	2.0	გ გ	_			· <u></u> :		- ·
23 = 1	Sitty Clay Stiff grey silty clay with trace gravel, dry, no odor	:		; ;	:			_	- -		<u> </u>	- - :	- !		
Ξ	End of Borehole	•		,						!			į		ľ
26 =			:					_							1
27 =		!		<u>;</u>	;			٠							
28 =		•		<u> </u>	. :		•		•				:		
20.3		*			100							· –	 -		
					•										
27 = 28 = 29 11 12 29 11 11 12 13 13 14 14 15 15 15 15 15 15			•					_	·		_ ·		. *;		
31.=						r ii. Gwyn ithi					<u>.</u>				
	A control of the second of	in a desir Hara est a	A second		7 St. 1	A Second		1 T							

Drilling Contractor: STEARNS DRILLING

Drilled By: BERT GRAHAM

Drilling Method: CME 750 ATV WITH 4.25 INCH ID HSA

Drilling Date: 3/2/99

Datum:

Sheet 1 of 1



Log of Boring #: PCP-3 DEEP

Project No: F66A5B

Project: MONROE STAMPING PLANT Client: FORD MOTOR COMPANY Location: MONROE, MICHIGAN Engineer: GLEN TOEPFER

Substitute Property of the standard property o			STIBSTIDENCE DOOLS =		····						
Second Surface Seco			SUBSURFACE PROFILE			i	•	:			•
Ground Surface 0 1 2 3 4 5 6 7 11 12 12 13 14 Fill: Silty Clay Brown silty clay and grey silty clay fill, dry to moist 17 18 19 20 21 22 3 22 3 4 4 4 5 6 7 7 8 8 8 9 9 9 9 10 11 12 13 14 Fill: Silty Clay Brown silty clay and grey silty clay fill, dry to moist	Depth	Graphic Log			USCS symbol	Number	Туре	PID (PPM)	N-Value Recovery	:	Well Data
1 2 3 3 4 4 4 5 5 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	0-	:	Ground Surface	. 0	!					1	
on was a saling on the control of th	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 11 19 11 11 12 12 12 12 12 12 12 12 12 12 12		Fill: Silty Clay Brown silty clay and grey silty clay fill, dry to moist								

Drilling Contractor: STEARNS DRILLING

Drilled By: BERT GRAHAM

Drilling Method: CME 750 ATV WITH 4.25 INCH ID HSA

Drilling Date: 3/11/99

Datum:

Sheet 1 of 4



Drilling Contractor, STEARNS DRILLING

Drilling Method: CME 750 ATV WITH 4.25 INCH ID HSA

Drilled By: BERT GRAHAM

Midwest Environmental Consultants, Inc. 22720 Michigan Ave, Ste 306 Dearborn, Michigan 48124 Phone (313) 563-6326 (MECM) Fax (313) 563-2727

Log of Boring #: PCP-3 DEEP

Drilling Date: 3/11/99

Datum.

Sheet 3 of 4

Project No: F66A5B

Project: MONROE STAMPING PLANT
Client: FORD MOTOR COMPANY
Location: MONROE, MICHIGAN
Engineer: GLEN TOEPFER

Depth	SUBSURFACE PROFILE Description	Depth/Elév.	USCS symbol	Number	Туре	PID (PPM)	N-Value	Recovery	Sta Penetra blo	ndard Ition Test ws/ft 60 80	Well Data
51 52 53 54 55 56 57 58 59 60 61 62 63	Silty Clay Very hard grey silty clay with trace gravel (shale, sandstone, limestone), dry.										* (111111111111111111111111111111111111
65		-65			•			_	. <u> </u>	 !	
70 77 77 77 77 77 77 77 77 77 77 77 77 7	Very hard grey silty clay with trace to little angular limestone fragments	-70		Jari S	S	CL	120 120 (: - ·		
74 <u>7 5 5 5 7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 </u>	1			1			<u> </u>	· -		<u> </u>	

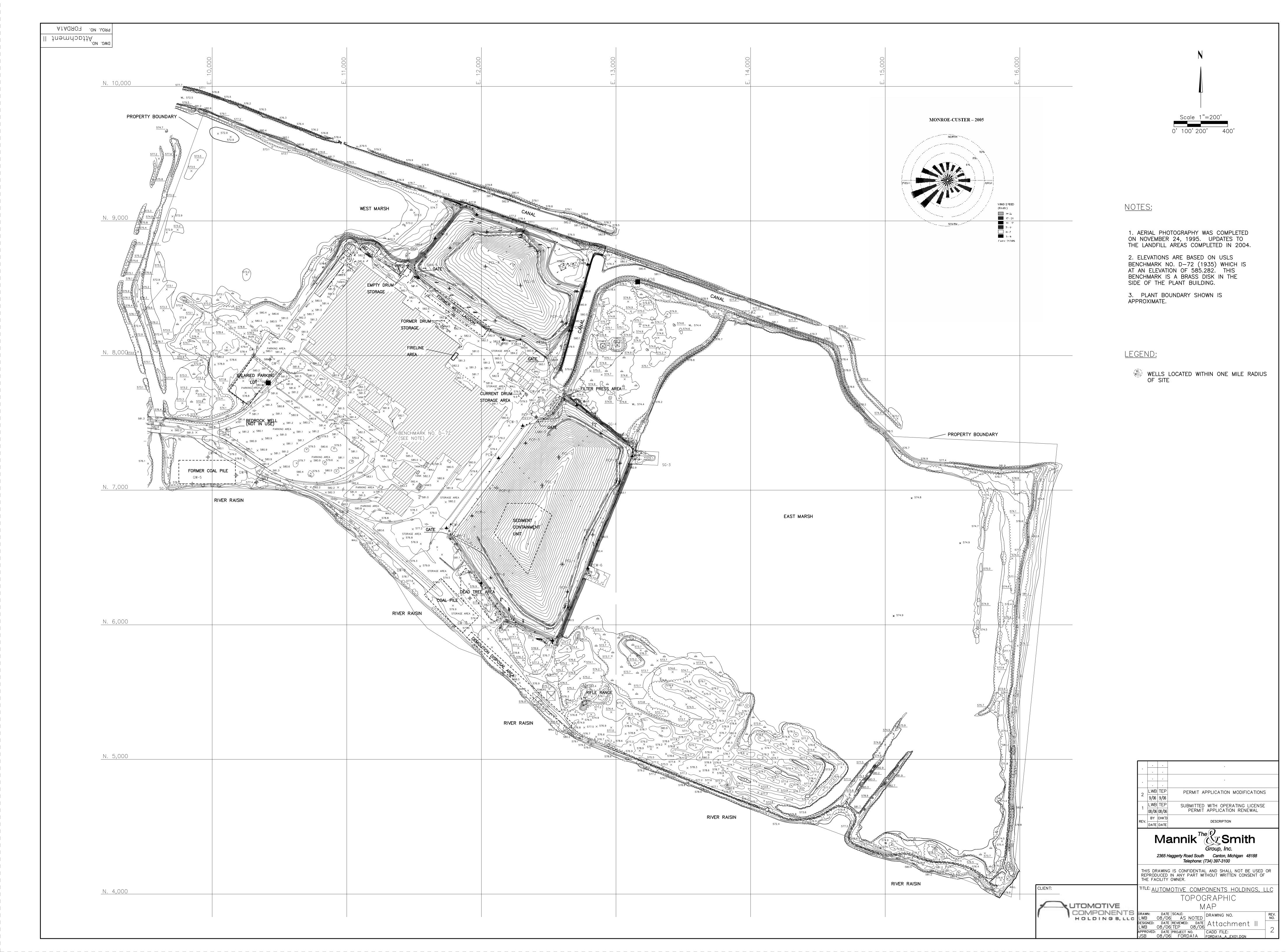
TABLE 2 SUMMARY OF HYDRAULIC MONITORING LOCATION DATA FORD MONROE PLANT - MID 005 057 005 DECEMBER 1, 2016 EVENT

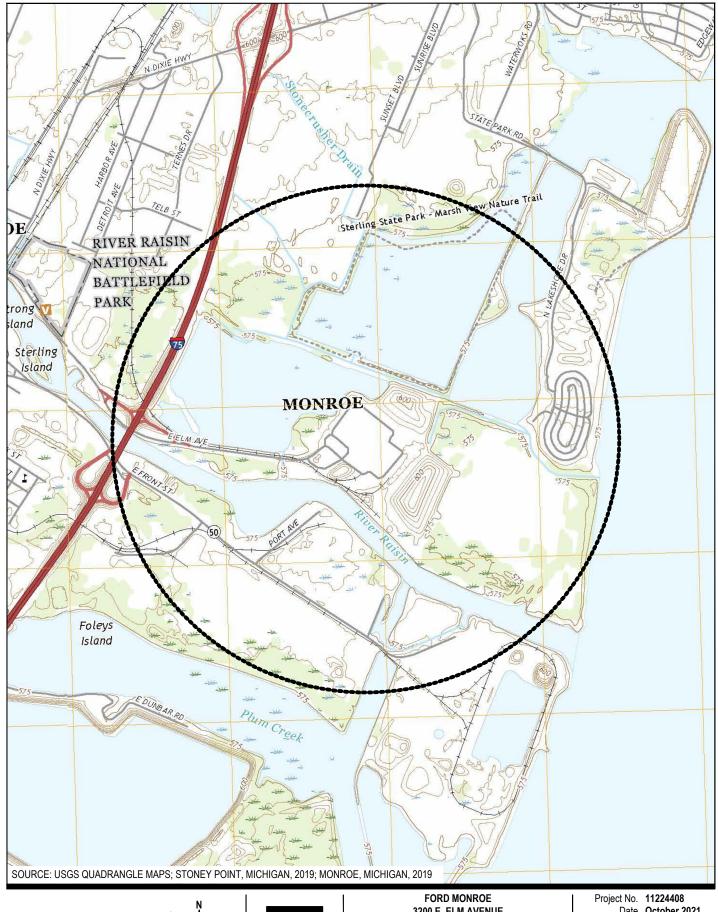
NORTH	EAST	PIEZOMETER
6,809.70	11,930.10	PCP-1
7,020.10	12,100.10	PCP-2
7,349.70	12,328.70	PCP-3
7.421.00	12,887.90	PCP-4
7,201.00	13,030.10	PCP-5
6,669.70	12,827.00	PCP-6
6,246.00	12,639.70	PCP-7
6,349.30	12,069.70	PCP-8
8,800.30	11,766.80	PCP-9
8,498.20	11,762.70	PCP-10
8,258.40	12,102.90	PCP-11
8,250.90	12,600.20	PCP-12
8,811.10	12,360.50	PCP-13
8,920.40	12,040.60	PCP-14
6,755.88	11,764.97	PCP-15
7,198.93	13,099.87	PCP-16
6,301.91	11,999.35	PCP-17
7,544.40	12,407.30	PCP-3 (DEEP)
6,450.50	12,600.20	PCL-1
7,036.90	12,451.70	PCL-2
7,247.10	12,575.10	PCL-3
8,661.11 8,520.90	12,030.17 12,290.54	PCL-4 PCL-5
8,520.90 NORTH	12,290.54 EAST	WELLS
7,238.60	12,127.60	PCW-2
7,488.00	12,317.00	PCW-3R
7,630.80	12,708.40	PCW-4
6,418.30	12,791.70	PCW-6
5,882.80	12,529.50	PCW-7
8,870.90	11,656.80	PCW-9
8,577.50	11,531.60	PCW-10
8,117.80	12,162.30	PCW-11
8,184.80	12,654.50	PCW-12
8,676.00	12,789.80	PCW-13
9,046.90	11,965.90	PCW-14
7,971.40	10,429.60	GW-1
8,006.40	10,308.60	GW-2
7,652.20	10,230.90	GW-3
7,246.00	9,969.10	GW-4
7,046.20	9,851.80	GW-5
7,110.20	10,179.20	GW-6
7,059.10	10,331.30	GW-7
6,818.20	10,924.70	GW-8
6,383.10	11,351.70	GW-9
5,988.30	11,798.20	GW-10
6,186.00	11,928.10	GW-11R
5,645.90	12,163.20	GW-12
7,718.60	12,617.20	GW-13 GW-14
7,709.50 8,301.70	12,336.30 11,793.30	GW-14 GW-15
8,666.71	11,453.80	GW-15 GW-16R
NORTH	EAST	STREAM GAUGES
7,021.65	9,683.75	SG-1
7,021.65	9,683.75	SG-2
7,226.10	13,139.30	SG-3
7,469.40	12,935.60	SG-4
5,139.10	12,770.80	SG-5
8,803.60	12,819.60	SG-6
-,	,	2

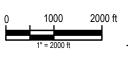
TABLE 2 SUMMARY OF HYDRAULIC MONITORING LOCATION DATA FORD MONROE PLANT - MID 005 057 005 DECEMBER 1, 2016 EVENT

NORTH	EAST	LEACHATE SYSTEM MANHOLES
5,944.50	12,542.70	LMH-1
6,690.80	11,803.90	LMH-2
7,464.70	12,402.20	LMH-3
7,299.00	13,093.50	LMH-4
8,649.60	11,561.80	LMH-5
8,798.80	12,495.00	LMH-6
8,046.80	12,483.60	LMH-7
NORTH	EAST	LEACHATE SYSTEM CLEANOUTS
7,538.40	12,554.60	A-1
line empties directly in		A-2
7,346.60	12,316.70	A-3
7,236.80	12,235.10	A-4
7,132.80	12,160.10	A-5
7,273.00	13,077.70	B-1
7,135.80	13,022.80	B-2
6,993.10	12,972.30	B-3
6,849.50	12,913.60	B-4
7,008.10	12,072.10	C1-1
6,889.90	11,977.50	C1-2
6,776.20	11,896.40	C1-3
6,694.50	11,807.90	C1-4 C1-5
6,194.40	12,156.80 12,203.00	C1-5 C1-6
6,137.70 6,739.70	12,873.90	C1-6 C2-1
6,611.20	12,820.00	C2-1 C2-2
6,469.70	12,764.00	C2-2 C2-3
6,333.60	12,703.60	C2-4
6,194.30	12,647.50	C2-5
6,053.10	12,591.00	C2-6
7,498.90	12,829.50	AN
7,039.70	12,093.60	AW (S)
7,634.30	12,625.20	AW (N)
7,503.20	12,830.40	BN
6,776.80	12,885.90	BE
6,759.90	12,883.30	C2E
6,044.70	12,313.70	C2S
6,130.10	12,203.60	C1S
7,022.60	12,082.30	C1W
8,551.60	11,660.10	D1-1
8,455.90	11,774.20	D1-2
8,367.00	11,892.80	D1-3
8,275.30	12,018.90	D2-1
8,182.00	12,133.60	D2-2
8,149.20	12,299.60	D2-3
8,104.10	12,408.20	D2-4
8,819.00	12,428.10	D3-1
8,610.20	12,462.10	D3-2
8,516.50	12,555.40	D3-3
8,482.10	12,685.80	D3-4
8,968.60	11,974.50	D4-1
8,918.60	12,125.90	D4-2 D4-3
8,866.70 8,981.40	12,276.50 11,908.00	D4-3 DN (W)
8,482.10	12,690.80	DN (W)
9,004.90	11,906.90	DN (E)
8,330.30	11,940.80	DS (W)
8,315.20	11,962.10	DS (E)
8,469.30	12,688.10	DE
2, :20.00	.,	

2











3200 E. ELM AVENUE MONROE, MICHIGAN

Date October 2021

SITE LOCATION WITH 1 MILE RADIUS

FIGURE 1

Attachment B4

Environmental Assessment

FORM EQP 5111 ATTACHMENT TEMPLATE B4 ENVIRONMENTAL ASSESSMENT

The administrative rules promulgated pursuant to Part 111, Hazardous Waste Management, of Michigan's Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451) §324.11118(3) and R 299.9504(1)(e) and R 299.9504(1)(b) establish requirements for conducting environmental assessments at hazardous waste management facilities. Before receiving an operating license, owners and operators of hazardous waste treatment, storage, or disposal facilities must evaluate the (proposed) facility's impact on air, water, or other natural resources of the state. The evaluation must also include a failure mode assessment. All references to 40 CFR citations specified herein are adopted by reference in R 299.11003.

This license application template addresses requirements for an environmental assessment for hazardous waste management units at the River Raisin Warehouse facility.

This template is organized as follows:

INTRODUCTION

B4.A CURRENT CONDITIONS

B4.A.1 Facility Description

B4.A.2 Description of Existing Environmental Conditions

B4.A.2(a) Climate

B4.A.2(b) Topography

B4.A.2(c) Geology

B4.A.2(d) Soils

B4.A.2(e) Hydrology

B4.A.2(f) Land Use and Zoning

B4.A.2(g) Historical or Archaeological Resources

B4.A.2(h) Social Environment

B4.A.2(h)(i) Demographics

B4.A.2(h)(ii) Infrastructure

B4.A.2(i) Transportation

B4.A.2(j) Air Quality

B4.A.2(k) Noise

B4.A.2(I) Appearance and Aesthetics

B4.A.2(m) Terrestrial Ecosystem

B4.A.2(m)(i) Flora

B4.A.2(m)(ii) Fauna

B4.A.2(m)(iii) Rare or Endangered Species

B4.A.2(m)(iv) Critical Habitat

B4.A.2(n) Aquatic Ecosystem

B4.A.2(n)(i) Flora

B4.A.2(n)(ii) Fauna

B4.A.2(n)(iii) Rare or Endangered Species

B4.A.2(n)(iv) Critical Habitat

B4.B ENVIRONMENTAL IMPACTS OF (PROPOSED) FACILITY

B4.C EXPOSURE INFORMATION REPORT FOR LANDFILLS AND SURFACE IMPOUNDMENTS

B4.D EVALUATION OF ALTERNATIVE HAZARDOUS WASTE MANAGEMENT TECHNIQUES

INTRODUCTION

This environmental assessment for River Raisin Warehouse describes current conditions, environmental impacts, and applicable exposure information for landfills and surface impoundments. The goals of the environmental assessment are to describe and discuss (1) the probable impact of the facility on natural resources, human life, and all environmental elements that affect these values; (2) probable unavoidable adverse effects of the facility; (3) alternatives for accomplishing the same objective; and (4) possible modifications that would minimize adverse effects.

This section presents general information regarding the geology, hydrogeology, hydrology, meteorology, wildlife and vegetation, and area land use at and in the vicinity of the Ford River Raisin Warehouse (RRW). This information was developed based upon review of previous engineering, investigation, and remediation reports prepared by The Mannik & Smith Group, Inc. (MSG), review of construction documentation within MSG's files, previous engineering studies prepared by NTH Consultants, Ltd., and MSG's experience at the site from 1995 to date. Additional bedrock information was obtained from *Geology for Environmental Planning* in Monroe County, Michigan published by the State of Michigan – Geological Division (SMGD).

B4.A CURRENT CONDITIONS

B4.A.1 Facility Description

See Attachment A1 General Facility Description, B2 Corrective Action, and A11 Post Closure Plan.

B4.A.2 Description of Existing Environmental Conditions

A description of existing environmental conditions at the facility and any surrounding areas that may be affected by the facility is included in this section. Detailed information that is provided in other attachment templates is not repeated here; however, references to appropriate attachment templates are provided. Maps, photographs, and other relevant information that are not included in other templates are included in this section. Important ecological relationships, functions, and interdependence of physical environmental elements and social and economic elements are discussed. Factual information from publications, reports, or personal communications is documented, with sources cited.

B4.A.2(a) Climate

See Attachment, B2 Corrective Action section B2.A.2(a)

B4.A.2(b) Topography

See Attachment II.

B4.A.2(c) Geology

.

See Attachments B3, Hydrogeologic Report and B2, Corrective Action Information.

B4.A.2(d) Soils

See Attachment, B2 section B2.A.2(d)

B4.A.2(e) Hydrology

See Attachment, B2 section B2.A.2(e)

B4.A.2(f) Land Use and Zoning

See Attachment, B2.A.2(f) and Attachment A1

B4.A.2(g) Historical or Archaeological Resources

The area of the Lake Erie shoreline near the site has a history of industrial use. Many areas along the Lake Erie shore have been filled with construction debris, dredge spoils and other materials. Several other industries are located in the vicinity of the site, including the Detroit Edison Monroe Power Plant and Gerdau Steel mill across the Raisin River to the south. In addition, the Port of Monroe and City of Monroe landfills across the River Raisin southeast of the site.

The first industrial use of the property was for a plant built by Newton Steel Company. The plant was built from 1927 to 1931. Newton Steel and later Republic Steel operated the plant as a steel mill until 1938 when the plant was closed. During the 1940's the plant was operated first by the Aluminum Company of America and then by Kelsey-Hayes Wheel Company, apparently for metal stamping and forging. Ford Motor Company (Ford) purchased the property from Kelsey Hayes in 1950 and converted the steel mill into an automobile parts manufacturing facility. During the period of Ford ownership, the facility has produced coil springs, wheels, stabilizer bars, catalytic converter assemblies, headlamp housings, and chrome plated bumpers. As part of these production activities, Ford conducted electroplating operations and disposed of the resulting electroplating sludge in the on-site surface impoundments.

B4.A.2(h) Social Environment

The social environment, in terms of demographics and infrastructure of the area, is discussed in the following two subsections.

B4.A.2(h)(i) Demographics

Demographics The following information regarding population dynamics was obtained from the United States Census Bureau, 2000 U.S. Census. The population of Monroe in 2000 was approximately22,076 with a gender ration of 53% male and 47% female. Individuals between the age of 25 and 54 accounts for approximately 50% of the city's population, 28% of the population is between the ages of newborn to 24 and the remaining 22% of the population is 55 or older.

<u>Racial diversity</u> - The City of Monroe consists of predominantly white ethnicity, which accounts for approximately 91% of the city's population with the remaining 9% of the population consisting of individuals from African American, Hispanic, and Asian ethnic groups.

Employment - Currently, the RRW Plant employs approximately 15 individuals.

B4.A.2(h)(ii) Infrastructure

<u>Utilities</u> - The RRW is serviced by both external and internal utilities. The facility is provided drinking water and sewer service by the City of Monroe. Electrical and natural gas services are provided by a local provider. These utilities enter the site along the East Elm Avenue corridor. No on-site drinking water wells are present. The facility operates an on-site wastewater treatment plant for the treatment of process waters prior to discharge into the City of Monroe sanitary sewer system.

<u>Education</u> - Information regarding the City of Monroe Public Schools was obtained from the National Center for Education Statistics (NCES) for the 2014-2015 school year, the most recent year available. Public schooling in the City of Monroe in administered by the Monroe Public School system and provides pre-kindergarten through 12th grade. Eight schools are located within the City of Monroe (2 high schools, 1 middle school, and 5 elementary) which contain approximately 5,805 students. Also located within the City of Monroe is Monroe Community College.

<u>Fire Services</u> - The City of Monroe Central Fire Station is located close to downtown district and satellite stations are located on the east and west sides of the community. Haz Mat, Confined Space, and Water Rescue equipment and operations are conducted from the Monroe Central Fire Station. The fire department currently employs approximately 44 members.

<u>Police Services</u> - The Monroe Police Department is a full-service 24-hour community oriented police department. Established in 1878, the mission of the Department is to protect the freedom and safety of the residents of Monroe and its visitors by preventing crime and disorder and ensuring the safe efficient flow of traffic. Members of the department carry out this mission in a fair and unbiased manner that respects the rights of the individual and encourages an open partnership with the law-abiding residents of Monroe.

B4.A.2(i) Transportation

See Attachment, A8 Traffic Information

B4.A.2(j) Air Quality

The Michigan Air Quality Monitoring Program consists of the operation of federally mandated National Air Monitoring Stations (NAMS) and State and Local Air Monitoring Sites (SLAMS) as well as the Special Purpose Monitoring Stations (SPMS) network in Michigan. The requirements for this network are described in Title 40 CFR, Part 58. Air quality measurements from this network are used to demonstrate the attainment status with regard to National Ambient Air Quality Standards (NAAQS). Ambient air monitoring is also a requirement for State

Implementation Plans (SIPS). Provided below is a brief summary of Monroe County air quality data and current federal status.

Monroe County is currently classified as nonattainment for the 8-hour ozone National Ambient Air Quality Standard (NAAQS) by the U.S. Environmental Protection Agency (USEPA). Under the federal Clean Air Act (CAA), moderate nonattainment areas are subject to specific requirements, including a mandate to reduce emissions of volatile organic compounds by 15 percent and vehicle testing (if the area's population exceeds 250,000).

The EPA implemented a new standard for very fine particles (2.5 micrometers or less) which are a particular concern for lung and cardiovascular effects. The new $PM_{2.5}$, standard was implemented in December 2004 at 65 micrograms per cubic meter ($\mu g/m^3$), based on a 3-year average of the 98th percentile of 24-hour concentrations, and 15 $\mu g/m^3$, based on a 3-year average of the annual arithmetic means. On December 17, 2004, the EPA designated seven counties in the Detroit-Ann Arbor Metropolitan Statistical Area (southeast Michigan) as nonattainment for $PM_{2.5}$ including Monroe County.

B4.A.2(k) Noise

Given the lack of operational railroad tracks, the distance from major roadways, and distance from airports the noise level is likely below 65 decibels.

B4.A.2(I) Appearance and Aesthetics

The developed area near the RRW is an industrial landscape consisting of materials containers, warehouses, and concrete buildings. Despite the absence of significant visual values within the RRW itself, the site provides extensive views in all directions. Unobstructed panoramic views of River Raisin and adjacent marshes are provided. In Addition, hill forms were created with an east-west trending ridgeline.

B4.A.2(m) Terrestrial Ecosystem

The characteristics of the terrestrial ecosystem, in terms of flora, fauna, rare or endangered species, and critical habitat are described in the following subsections.

B4.A.2(m)(i) Flora

Types of vegetation that can be seen include marsh lily, grass, and dogwood, In addition, vegetation was planted in disturbed areas outside of the containment units and on the top of the closed containment units to protect the cap system by reducing erosion.

B4.A.2(m)(ii) Fauna

Wildlife observed near the plant on a regular basis includes: deer, muskrat, squirrel, raccoon, rabbit, fox, snake, wood duck, Canada geese, swan, turtle and bald eagles.

B4.A.2(m)(iii) Rare or Endangered Species

See Attachment B2 section B2.A.2(g)

B4.A.2(m)(iv) Critical Habitat

See Attachment, B2 section B2.A.2(g).

B4.A.2(n) Aquatic Ecosystem

The characteristics of the aquatic ecosystem, in terms of flora, fauna, rare or endangered species, and critical habitat are described in the following subsections.

B4.A.2(n)(i) Flora

American Lotus, water lily, cattail, and duckweed are aquatic vegetation in the area surrounding the facility.

B4.A.2(n)(ii) Fauna

Bluegill, white sucker, channel catfish, walleye, carp, white bass, black buffalo, freshwater drum smallmouth bass, and other warm- water fish are species found in the area surrounding the facility.

B4.A.2(n)(iii) Rare or Endangered Species

See Attachment, B2 section B2.A.2(g)

B4.A.2(n)(iv) Critical Habitat

See Attachment, B2 section B2.A.2(g).

B4.B ENVIRONMENTAL IMPACTS OF THE FACILITY

The environment of the area surrounding the facility will not be impacted due to the closed status of the containment units. The River Raisin Warehouse operations do not consist of generating, storing or treating any waste; therefore B4.A.2 will not be affected by normal operations and during failure mode.

B4.C EXPOSURE INFORMATION REPORT FOR LANDFILLS AND SURFACE IMPOUNDMENTS

Due to the closed status of the two on-site containment units (Eastern Containment Unit and Western Containment Unit) management practices, annual amount of wastes recieved and release information are not applicable. Zoning and land use maps can be found in attachment A1 General Facility Description. Recent Aerial photographs can be found in attachment IV. Traffic information can be found in A8 Traffic Information. The Michigan Department of

Environmental Quality inspects and reports on the facility. For compliance reports refer to the Post Closure Plan. For information regarding exposure pathways refer to B2 Corrective Actions.

B4.D EVALUATION OF ALTERNATE HAZARDOUS WASTE MANAGEMENT TECHNOLOGIES

Not Applicable.

Attachment B5

Environmental Monitoring Programs

FORM EQP 5111 ATTACHMENT TEMPLATE B5 ENVIRONMENTAL MONITORING PROGRAMS

The administrative rules promulgated pursuant to Part 111, Hazardous Waste Management, of Michigan's Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451), R 299.9611 establishes requirements for the environmental monitoring programs for hazardous waste management facilities. Owners and operators of hazardous waste treatment, storage, or disposal facilities must develop an environmental monitoring program capable of detecting a release of hazardous waste or hazardous waste constituents from the facility to groundwater, air, or soil.

This license application template addresses requirements for an environmental monitoring program for hazardous waste management units and the hazardous waste management facility for the River Raisin Warehouse facility. The template includes either a monitoring program description or a demonstration for a waiver from the monitoring requirements in accordance with R 299.9611(3)(a) and (b) and R 299.9611(4) as indicated below:

Groundwater Monitoring Program (Check as appropriate) \boxtimes R 299.9612 compliance monitoring program and sampling and analysis plan for one or more units Waiver for one or more units If appropriate, both boxes may be checked if different monitoring programs and waivers apply to the units at the facility. Ambient Air Monitoring Program (Check as appropriate) П Monitoring program and sampling and analysis plan \boxtimes Waiver Annual Soil Monitoring Program (Check as appropriate) Monitoring program and sampling and analysis plan \boxtimes Waiver

Ensure that all samples collected for environmental monitoring are collected, transported, analyzed, stored, and disposed by trained and qualified individuals in accordance with the QA/QC Plan. The QA/QC Plan should at a minimum include the written procedures outlined in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, Third Edition, Chapter 1 (November 1986), and its Updates.

This template is organized as follows:

B5.A GROUNDWATER MONITORING PROGRAM
B5.A.1 Unit-Specific Groundwater Monitoring Program

Table B5.A.1 Groundwater Monitoring Program

B5.A.2 Groundwater Monitoring Program Waiver

B5.A.2(a) Other Units

B5.A.2(b) No Migrationther

Attachment B5.A.1 No Migration Demonstration

B5.A.3 General Groundwater Monitoring Requirements

B5.A.3(a) Sampling and Analysis Plan

B5.A.3(b) Description of Wells

B5.A.3(c) Procedure for Establishing Background Quality

B5.A.3(d) Statistical Procudrues

B5.A.4 Detection Monitoring Program

B5.A.4(a) Indicator Parameters, Waste Constituents, and Reaction Products

B5.A.4(b) Groundwater Monitoring System

B5.A.4(c) Background Concentration Values for Proposed Parameters

B5.A.4(d) Proposed Sampling and Analysis Procedures

B5.A.5 Compliance Monitoring Program

B5.A5(a) Hazardous Constituents to be Monitored in Compliance Program

B5.A.5(b) Concentration Limits

B5.A.5(c) Concentration Limit Other than Background

Attachment B5.A.5.2 Concentration Limit Other Than Background Demonstration

B5.A.5(d) Groundwater Monitoring System

B5.A.5(e) Sampling and Analysis Procedures

B5.B AMBIENT AIR MONITORING PROGRAM

B5.C ANNUAL SOIL MONITORING PROGRAM

B5.A GROUNDWATER MONITORING PROGRAM

[R 299.9611(2)(b) and (3), R 299.9612, and R 299.9629 and 40 CFR, Part 264, Subpart F, except 40 CFR §§264.94(a)(2) and (3), (b), and (c), 264.100, and 264.101]

This section describes the facility's unit-specific groundwater monitoring program as outlined in Table B5.A.1. The basis for determining the groundwater monitoring program for each unit described below is provided in the Template B3, Hydrogeological Report, attached separately to this application, which was prepared in accordance with R 299.9506.

B5.A.1 Unit-Specific Groundwater Monitoring Program

Table B5.A.1 Groundwater Monitoring Program

Unit	Name of Unit Subject to Monitoring ¹	Conditional Non-LDF Waiver ²	No Migration Waiver ³	Detection Monitoring	Compliance Monitoring ⁵	Corrective Action Monitoring
1	Western Containment Unit			x		
1	Eastern Containment Unit			х		

^{1.} Please refer to R 299.9612. All treatment, storage, and disposal units are covered unless the groundwater monitoring requirements are waived.

^{2.} Please refer to R 299.9611(3)(a). The Director shall waive the groundwater monitoring requirements of R 299.9612 if the facility is not a land disposal facility and the applicant complies with one of the following provisions: (1) All treatment, storage, and waste handling activities take place inside or under a structure that provides protection from precipitation and runoff and the facility is in compliance with the provisions of R 299.9604; (2) the applicant demonstrates, to the director's satisfaction, that monitoring is not required; or (3) the applicant demonstrates, to the director's satisfaction, that a lesser degree of monitoring, or that alternate monitoring conducted in conjunction with a response activity, can be used to demonstrate compliance with the provisions of Part 111.

^{3.} Please refer to R 299.9611(3)(b). The Director shall waive the groundwater monitoring requirements of R 299.9612 if the Director finds that there is no potential for migration of liquid from the facility to the uppermost aquifer during the active life of the facility and the postclosure care period specified pursuant to the provisions of 40 CFR §264.117. The demonstration shall be certified by a qualified geologist or geotechnical engineer. The applicant shall base any predictions on assumptions that maximize the rate of liquid migration.

^{4.} If an applicant is not required to implement a compliance monitoring program or a corrective action program, in all other cases, the applicant must institute a detection monitoring program under R 299.9612 and 40 CFR §264.98. The applicant must complete Sections B5.A.2 and 3.

B5.A.2 Groundwater Monitoring Program Waiver

[R 299.9611(3)]

Not applicable.

B5.A.2(a) Other Units

[R 299.9611(3)(a)]

Not applicable.

B5.A.2(b) No Migration

[R 299.9611(3)(b)]

Not applicable.

B5.A.3 General Groundwater Monitoring Requirements

[R 299.9612 and 40 CFR §§264.97 and 264.91(b)]

The River Raisin Warehouse facility will comply with the requirements for a groundwater monitoring program by implementing the program described in this section. This program was developed to satisfy the requirements of R 299.9612 and R 299.9629 and 40 CFR §§264.98 and 264.99, except 40 CFR §§264.94(a)(2) and (3) and 264.94(b) and (c). The basis for determining the groundwater monitoring program for each unit is provided in Template B3, Hydrogeologic Report, of this application that was prepared in accordance with R 299.9506.

B5.A.3(a) Sampling and Analysis Plan

[R 299.9611(2)(a)]

A sampling and analysis plan for groundwater monitoring at River Raisin Warehouse is included in the QA/QC Plan. The sampling and analysis plan was prepared in accordance with the requirements specified in R 299.9611(2)(a). All sampling and analysis performed pursuant to this application will be consistent with the QA/QC Plan. All samples for the purpose of environmental monitoring will be collected, transported, stored, and disposed by trained and qualified individuals in accordance with the QA/QC Plan.

^{5.} Whenever hazardous constituents, as defined under 40 CFR §264.93, are detected at a compliance point, the applicant must institute a compliance monitoring program under 40 CFR §264.99. Detected is defined as statistically significant evidence of contamination as described in 40 CFR §264.98(f). The applicant must complete Sections B5.A.2 and 4.

⁶ If an unit is undergoing corrective action in accordance with R 299.9629 and 40 CFR Part 264, Subpart F, except for 40 CFR §§264.100 and 264.101, the application should refer to Template B2, Corrective Action Information, that discusses the groundwater monitoring associated with corrective action.

B5.A.3(b) Description of Wells

[R 299.9612 and 40 CFR §264.97(a), (b), and (c)]

See Attachment A11, Post-Closure Plan of this license application for description of wells relative to ground water monitoring.

B5.A.3(c) Procedure for Establishing Background Quality

[R 299.9612 and 40 CFR §264.97(a)(1) and (g)]

See Attachment A11, Post-Closure Plan of this license application for description of wells relative to ground water monitoring. In addition, Appendix A, Post-Closure Groundwater Sampling and Analyses Plan of the Post-Closure Plan details the procedure of establishing background data.

B5.A.3(d) Statistical Procedures

[R 299.9612 and 40 CFR §§264.97(h) and 264.97(i)(1), (5), and (6)]

See Attachment A11, Post-Closure Plan of this license application for description of wells relative to ground water monitoring. In addition, Appendix A, Post-Closure Groundwater Sampling and Analyses Plan of the Post-Closure Plan details the procedure of establishing background data.

B5.A.4 Detection Monitoring Program

[R 299.9612 and 40 CFR §§264.91(a)(4) and 264.98]

See Attachment A11, Post-Closure Plan of this license application for description of wells relative to ground water monitoring. In addition, Appendix A, Post-Closure Groundwater Sampling and Analyses Plan of the Post-Closure Plan details the procedure of establishing background data.

B5.A.4(a) Indicator Parameters, Waste Constituents, and Reaction Products

[R 299.9506(3)(a) and (f), R 299.9506(4)(a), and R 299.9612 and 40 CFR §264.98(a)]

See Attachment A11, Post-Closure Plan of this license application for description of wells relative to ground water monitoring. In addition, Appendix A, Post-Closure Groundwater Sampling and Analyses Plan of the Post-Closure Plan details the procedure of establishing background data.

B5.A.4(b) Groundwater Monitoring System

[R 299.9612 and 40 CFR §§264.97(a)(2), (b), and (c) and 264.98(b)]

See Attachment A11, Post-Closure Plan of this license application for description of wells relative to ground water monitoring. In addition, Appendix A, Post-Closure Groundwater Sampling and Analyses Plan of the Post-Closure Plan details the procedure of establishing background data.

B5.A.4(c) Background Concentration Values for Proposed Parameters

[R 299.9612 and 40 CFR §§264.98(c) and 264.97(g)(1) and (2)]

See Attachment A11, Post-Closure Plan of this license application for description of wells relative to ground water monitoring. In addition, Appendix A, Post-Closure Groundwater Sampling and Analyses Plan of the Post-Closure Plan details the procedure of establishing background data.

B5.A.4(d) Proposed Sampling and Analysis Procedures

[R 299.9506(3)(e) and R 299.9612 and 40 CFR §§264.97(d), (e), and (f) and 264.98(d), (e), and (f)]

See Attachment A11, Post-Closure Plan of this license application for description of wells relative to ground water monitoring. In addition, Appendix A, Post-Closure Groundwater Sampling and Analyses Plan of the Post-Closure Plan details the procedure of establishing background data.

B5.A.5 Compliance Monitoring Program

The basis for determining the compliance monitoring program for each unit is provided in Template B3, Hydrogeologic Report, in this application that was prepared in accordance with R 299.9506. The compliance monitoring program must include a characterization of contaminated groundwater pursuant to R 299.9506(4)(b).

B5.A.5(a) Hazardous Constituents to be Monitored in Compliance Program [R 299.9612 and 40 CFR §§264.99(a)(1) and 264.98(g)(3)]

Not applicable.

B5.A.5(b) Concentration Limits

[R 299.9612 and 40 CFR §§264.99(a)(2) and (c)(3) and 264.97(g) and (h)]

Not applicable.

B5.A.5(c) Concentration Limit Other than Background

[R 299.9612(d)]

Not applicable.

B5.A.5(d) Groundwater Monitoring System

[R 299.9612 and 40 CFR §§264.95, 264.97(a)(2) and (c)]

Not applicable.

B5.A.5(e) Sampling and Analysis Procedures

[R 299.9612 and 40 CFR, Sections 264.97(d), (e), and (f) and 264.99(c), (d), (e), (f), and (g)]

Not applicable.

B5.B AMBIENT AIR MONITORING PROGRAM

[R 299.9611(2)(c) and (4)]

Due to the closed-status of the two on-site containment units, ambient air monitoring is not required at this facility. See attachment A1, General Facility Description, A2, Chemical and Physical Analyses and B2 Corrective Action Info for additional information.

B5.C ANNUAL SOIL MONITORING PROGRAM

[R 299.9611(2)(d) and (4)]

Due to the closed-status of the two on-site containment units, ambient air monitoring is not required at this facility. See attachment A1, General Facility Description, A2, Chemical and Physical Analyses and B2 Corrective Action Info for additional information.