

ATTACHMENT 1  
C&DD STATEWIDE GEOLOGIC and HYDROGEOLOGIC DATA SUMMARY

Facility	District	County	Location Data (LL)	Date Facility Opened	Operating or Closed?	GW Monitoring?	Number of constituents monitored	Number of wells and other sampling locations	Number of sampling locations indicating an impact	Constituents indicating a possible impact	Zone(s) impacted	GW data with OPEA or Local Health Dept.?	Liner (Y/N)?	Isolation Distance from 1st Con't. -S2S/UAS	1st-CS2S/UAS Description	SZS Description	Leachate Collection System? Toe Drain/Seep?	Leachate data?		GW Quality data?		Hydrogeo. Investigation			Substantially complete data set?	Off-Facility Wells Impacted?	Surface Water Impacted?	Location prohibition / Sensitive GW Setting?	GW Flow Direction	Fill Size (acres)	Other Notes
																		Y / N ?	Most recent data date	Y / N ?	Most recent data date	Completed?	Data with EPA or LHD?								
COC #1 Demo Fill - Frank Rd	C	Franklin	Not found in SCR; check DDAGW SWLTS database	late 1970's	Closed in 2001	Y	Information not found during research	6	1-3	VOCs, Cl, SO4	UAS	LHD	N	0' acc to COC#2 report	S&G/LS	N/A	N	N	N/A	Y	Information not found during research	N-1990 rept doesn't sufficiently describe but COC#2 rpt does	LHD	Y	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	S&G Quarry/100 gpm aquifer: Facility is on the north side of Frank Rd and west of Harmon Ave. The old COC site address is 900 Frank Road.	
COC #2 - Jackson Pike	C	Franklin	Not found in SCR; check DDAGW SWLTS database	1980's	Closed	Y	20	2	? - only 2 wells; high turbidity in all samples; insufficient to determine impact	Unclear	Unclear	LHD	Y - 2 RCC	0'	S&G/LS	N/A	N-DSWM; but FDP says it is supposed to have LCS	N	N/A	Y	2004	Y	LHD	Y	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	S&G Quarry/100 gpm aquifer: Located on the SW corner of Dyer Road and Jackson Pike.	
Craig's LF	C	Franklin	Not found in SCR; check DDAGW SWLTS database	UNK	Closed	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	LHD	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	N	N/A	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	Located within Buried Valley; 100-500 gpm	
Fallsburg Road (aka Roberts) C&DD	C	Licking	Not found in SCR; check DDAGW SWLTS database	UNK	Op	Y	77	3	None	none	N/A	LHD	N	? SCR not found yet; GW report indicates potential isolation but not enough data available to judge	SS/possibly connected to alluvial sands in valley	alluvial sand?	Seeps	Y	8/8/2007	Y	2006	Information not found during research	LHD	Y	N	N	N	Information not found during research	Information not found during research	Till	
Fayette Co. C&DD	C	Fayette	Not found in SCR; check DDAGW SWLTS database	UNK	Op	Y	None currently	37	None	None	N/A	LHD	N	5-10' Till	S&G	N/A	None	Information not found during research	N/A	N	N/A	May need add info on lower S&G - 100gpm?	LHD	Y	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Fines with sand & gravel lenses	
Frank Road C&D Facility	C	Franklin	Not found in SCR; check DDAGW SWLTS database	UNK	Op	Y	14 inorganics, App 1 VOCs - 2 events	6 MWs	2	NH4, K, SO4, VOCs?	Information not found during research	LHD	Y - 2 RCL	0' S&G	S&G/LS	N/A	LCS	Y	8/8/2007	Y	2009	Y	LHD	Y	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	S&G Quarry/100 gpm aquifer: Located south of Frank Rd and east of Brown Rd. This site is also being actively quarried for sand by Agri Risk. The site is being filled with CDD from the west to the east.	
M&B C&DD	C	Fairfield	Not found in SCR; check DDAGW SWLTS database	UNK	Op	Y	77	3	1	SO4, Ca	UAS?	LHD	N	10' silt, sand & clay	S&G	sand?	N	N	N/A	Y	2006	Y	LHD	Y	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	S&G Quarry/100 gpm aquifer: SO4 & Ca both increasing at MW1 since 2003	
Scott Wrecking C&DD	C	Franklin	Not found in SCR; check DDAGW SWLTS database	UNK	Op	Y	77	8 wells	4	Alk, COD, Cl, Fe, K, Mg, Na, NH4, SO4, TDS, VOCs?	UAS	LHD	N	0' (but 12-15' dry S&G above water table)	S&G/LS	N/A	N	N	N/A	Y	2006	Y	LHD	Y	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	S&G Quarry/100 gpm aquifer	
Washington Environmental	C	Morrow	Not found in SCR; check DDAGW SWLTS database	not yet constructed	Not yet constructed	Yes, if constructed	Not yet constructed	Not yet constructed	Not yet constructed	Not yet constructed	Not yet constructed	LHD	Y, but not req'd	≥10'	SS	sand lenses in till	LCS	Not yet constructed	Not yet constructed	Not yet constructed	Not yet constructed	Y	LHD	N	Not yet constructed	Not yet constructed	N	Information not found during research	Information not found during research	Till: Not Built yet	
A&L Salvage	NE	Columbiana	Not found in SCR; check DDAGW SWLTS database	2000	Closed	Y	17+3F *	4 monitoring wells	None	None	mine spoil UAS	Ohio EPA	N	≥25'	mine spoil or shale(SS)	N/A	LCS	Y	10/18/2007	Y	2007	Y	OPEA	Y	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Till	
Amser Corp	NE	Cuyahoga	41-25-15, 81-39-40	pre-1990	closed	N	N/A	N/A	N/A	n/a	N/A	LHD	N	≥10'	buried valley silty sand or underlying shale? (not described in SCR)	silty sand	N	N	N/A	N	N/A	Y	LHD	N	N	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	Buried Valley: 100 gpm
Boyes Excavating	NE	Cuyahoga	Not found in SCR; check DDAGW SWLTS database	UNK	open	N	N/A	N/A	N/A	n/a	N/A	LHD	N	>5' exact distance not known; HGI did not identify UAS or CSZ	Buried valley S&G/sand? (not stated in SCR)	silt?	LCS	N	N/A	N	N/A	Y - partial - did not characterize UCSZ, borings too shallow	LHD	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Till w/sand lenses: HGI did not go deep enough; need to go to UAS	
Bradley Road (aka Spring Rd)	NE	Cuyahoga	Not found in SCR; check DDAGW SWLTS database	UNK	Closed since 2003	N	N/A	N/A	N/A	n/a	N/A	LHD	N	SCR says >25'; SCR may have neglected silty fine sand seams as UCSZ	SCR says none; silty fine sand seams may be UCSZ	N/A	N	N	N/A	N	N/A	Y - partial - did not characterize UCSZ	LHD	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Fines w/sand lenses	
Browning-Ferris Ind. Inc. C&DD LF	NE	Mahoning	Not found in SCR; check DDAGW SWLTS database	UNK	Closed	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	N	N/A	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Till				
Butcher & Sons CAD LF	NE	Summit	Not found in SCR; check DDAGW SWLTS database	prior to 7/90	Open	Y	77	2	1	Sp/Cl, HCO3, Ca, Cl, Mg, Na, SO4	SZS	LHD	N - no C&DD accepted or filled after 1/99	0' (SCR says max of 8' but boring logs indicate 0')	S&G, Sharon Congl, Pottsville SS	silty clay saturated from ground surface down (in Tuscarawas flood plain)	N	N	N/A	Y, but wells may be improperly installed (screened in silty clay 20-25' but silty clay saturated from ground surface down and LF is above ground only)	2006	Y	LHD	Y	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	16 acres Fines w/sand lenses: Old MSW LF from 1980s in eastern third of facility. Site bordered by Tuscarawas River on S, separated by 20-25' clay dike; bordered by N, E & W by old salt mine tailings ponds; QWR map says GW from unconsolidated Sharon Congl & Pottsville SS aquifers around site may yield up to 100gpm but are not suitable for consumptive purposes due to excessive salt.	
COF, Inc.	NE	Cuyahoga	pre-7/90	Closed	SCR says Y, but no GWMRs rec'd yet	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	LHD	N	0'	sand/S&G	N/A	N	N	N/A	Information not found during research	Information not found during research	Y	LHD	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	lies b/w Cuyahoga R & Ohio-Erie canal	
CR Stambaugh Development	NE	Portage	Not found in SCR; check DDAGW SWLTS database	prior to 6/92	Closed	?	N/A	N/A	N/A	n/a	N/A	LHD	N	0'	S&G	N/A	N	N	N/A	N	N/A	Y - partial, acc. To Portage Co HD code, not OAC	LHD	N	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	Old S&G quarry	
Culbertson/Blackpond	NE	Summit	81.6021 41.08105	UNK	Closed	?	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	N	N/A	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	None				
Cuyahoga Landfill	NE	Cuyahoga	Not found in SCR; check DDAGW SWLTS database	UNK	Open	Y	77	2	1	Na	Information not found during research	LHD	Y	<5'	alluvial & glacial sands/Cuyahoga Group/Berea SS	N/A	LCS	Y	Information not found during research	Y	Information not found during research	Y	LHD	Y	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	in old S&G quarry: Adjacent (sidegradient?) to old MSW facility, which is in assessment	
Elkrun Industries	NE	Columbiana	Not found in SCR; check DDAGW SWLTS database	UNK	Op	Y	61+4F; includes 45 VOCs	3 monitoring wells	None	None	NA	Ohio EPA	N	≥59' (spoil, cyclothem)	SS & SS/SH beneath L. Freesport coal	mine spoil & L. Freesport (#7) coal	Partial LCS	Y	3/4/06?	Y	2007	Y	OPEA	Y	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	47 Assess. not completed. In old mining area	
Exit	NE	Stark	40.72583, 81.27167	UNK	Not licensed (Closed?)	Y	77	2? GWMRs incomplete	? GWMRs incomplete	? GWMRs incomplete	Information not found during research	LHD	N	28+	Homewood SS	silt? Overlying shale/s?	Wells	Y	2007	Y	2003 but reports are incomplete/important data missing	Y	LHD	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	None	

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Facility	District	County	Location Data (LL)	Date Facility Opened	Operating or Closed?	GW Monitoring?	Number of constituents monitored	Number of wells and other sampling locations	Number of sampling locations indicating an impact	Constituents indicating a possible impact	Zone(s) impacted	GW data with OPEA or Local Health Dept.?	Liner (Y/N)?	Isolation Distance from 1st Con't. -S2S/UAS	1st-CS2S/UAS Description	S2S Description	Leachate Collection System? Toe Drain/Seep?	Leachate data?		GW Quality data?		Hydrogeo. Investigation		Substantially complete data set?	Off-Facility Wells Impacted?	Surface Water Impacted?	Location prohibition / Sensitive GW Setting?	GW Flow Direction	Fill Size (acres)	Other Notes		
																		Y / N ?	Most recent data date	Y / N ?	Most recent data date	Completed?	Data with EPA or LHD?									
E&E Farms (Fabrizi)	NE	Medina	Not found in SCR; check DDAGW/SWLTS database	prior to 7/90	Closed	N	N/A	N/A	N/A	n/a	N/A	N/A	N	Information not found during research	Information not found during research	Information not found during research	N	N	N/A	N/A	N/A	N	N/A	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	Buried Valley, Sand and gravel			
Glenwillow	NE	Cuyahoga	41.35254, -81.46734	UNK	Closed	Y, at least at MSW portion	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	N	N/A	Information not found during research	Information not found during research	UNK	UNK	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Old strip pit; adjacent to MSW site.		
Harvard C&D	NE	Cuyahoga	Not found in SCR; check DDAGW/SWLTS database	MSW - 1960's - CDD - 1964-present	Closed	N	N/A	N/A	N/A	n/a	N/A	LHD	N	>5' from bedrock UAS, but SCR didn't adequately characterize buried valley deposits; F&O confirms SCR inadequate	Buried valley deposits?	Information not found during research	N	N	N/A	N	N/A	Y - partial - failed to adequately characterize buried valley deposits	LHD	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Till and in 100 yr flood plain. Both MSW & CDD areas; under enforcement; SCR inadequate - need to characterize buried valley		
Holmes County C&D	NE	Holmes	Not found in SCR; check DDAGW/SWLTS database	not yet constructed	not yet constructed	Y if constructed	N/A	N/A	N/A	n/a	N/A	Information not found during research	N if constructed	>23'	Bedford coal	Information not found during research	N	N	N/A	Not yet constructed	N/A	Y	LHD	N	N/A	N/A	Not yet constructed	Not yet constructed	PWS & private wells located straight DG & within 300' of facility			
Independence Excavation/Schaaf Rd C&D	NE	Cuyahoga	Not found in SCR; check DDAGW/SWLTS database	1991	Closed	N	N/A	N/A	N/A	n/a	N/A	LHD	N	>10'	SCR says shale; may actually be silty fine sand	Information not found during research	N	N	N/A	N	N/A	Y - partial - did not characterize UCSZ	LHD	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Till: SCR missed silt/silty fine sand layer as UCZ of S		
KB Richfield (KB Compost)	NE	Summit	41.23682, 81.60072	UNK	Closed	N	N/A	N/A	N/A	n/a	N/A	N/A	N	>5' if LF is a valley fill w/ no excavation	silty sand	Information not found during research	N	N	N/A	N	N/A	Y (but sparse)	LHD	N	N/A	N/A	N	Information not found during research	Information not found during research	Till		
Larus Properties	NE	Medina	81.524219, 41.262853	prior to 7/90	Closed	N	N/A	N/A	N/A	n/a	N/A	Information not found during research	N	Information not found during research	Information not found during research	Information not found during research	N	N	N/A	N/A	N/A	N	N/A	N	Information not found during research	Information not found during research	?	Information not found during research	Information not found during research	None		
Lisbon (aka Rankin Enterp. aka Wastemasters) Landfill	NE	Columbiana	Not found in SCR; check DDAGW/SWLTS database	UNK	Closed	N	N/A	N/A	N/A	n/a	N/A	OPEA	N	>25' clay/shale (no excavation at facility)	limestone	N/A	N	N	N/A	N	N/A	Y	OPEA	N	N	N	N	NW?	160	None		
Lordstown Construction Recovery	NE	Trumbull	Not found in SCR; check DDAGW/SWLTS database	UNK	Op	Y	77	3	2 (see notes)	Sp/Cl, Ca,Cl, CO2, Fe, K, Na, NH4, SO4	CS2/UAS	LHD	N	Complex setting: unconsolidated s/s silty clay, >10' total, but has been removed beneath Phs I-IV, SS lies >5' beneath sand	sand/SAG outside debris placement (SS also underlying unconsolidated)	N/A	LCS?	Y	10/16/2007	Y	2006	Y	LHD	Y	Information not found during research	Information not found during research	Y	north	Information not found during research	Information not found during research	Located in area with less than five feet of separation based on data acquired. Metal works slag pile located over future, upgraded Phases at site; slurry wall installed around Phases I-IV (V-X yet to be filled (see of Fall 2007)). Slag piles in E portion of facility (future phases) may be impacting GW and/or could be debris	
Minerva	NE	Stark	Not found in SCR; check DDAGW/SWLTS database	operating in 9/91; old coal strip mine	Op	Y	77	5	0	none	N/A	LHD	Y in unmined, glaciated area	<5' in unmined outwash in N expansion area; >5' in mined area (spoil separates)	sand in unmined, Clarion SS/SH in mined area	mine spoil	LCS	Y	10/16/2007	Y	9/06	Y	LHD	Y	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	In old strip mine and partially over outwash plain w/ high static water table		
Mt. Eaton C&D LF	NE	Wayne	Not found in SCR; check DDAGW/SWLTS database	UNK	not currently accepting waste - unlicensed	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	LCS	Y	10/16/2007	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	N-Till over bedrock	Information not found during research	Information not found during research	The following is from Erika Jackson (DSWM-CO, PEU) in an e-mail dated 11/13/2007: "I think it is safe to say that MSW is not influencing the data at Mt. Eaton C&D LF. Matt Boyer (also DSWM-CO) spoke with the Wayne Co. HD Inspector regarding this matter. He reiterated that the LCS for the CDD and the MSW are separate and that we sampled only the CDD facility." Part of MSW GW Mon system		
Norton CDD Landfill	NE	Cuyahoga	81.65582, 41.318676	UNK	Closed	N	N/A	N/A	N/A	n/a	N/A	LHD	N	>10'?	not described, nor UCSZ	Information not found during research	N	N	N/A	N	N/A	Y - partial - did not characterize UCSZ	LHD	N	N/A	N/A	N	Information not found during research	Information not found during research	Till: SCR failed to characterize the UCZ of S (shale or till/shale interface?)		
Pearl Ave LLC (aka Eschtruth/Rowland)	NE	Lorain	N41° 25' 15" W82° 7' 50"	UNK	Operating - licensed	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	N	N/A	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Till/Lacustrine deposits			
Penn-Ohio (TWL)	NE	Columbiana	Not found in SCR; check DDAGW/SWLTS database	UNK	Op	Y	16+4F	3 monitoring wells, 5 seeps and 1 developed spring	0	n/a	N/A	Ohio EPA	Y	>5'	L. Fireport Coal	N/A	LCS	Y	10/18/2007	Y	4/07	Y	OPEA	Y	N	N	N	radial	48.4	Data show incr trends in 05-06 data & DSWM indicates possible release but real data not conclusive - MW1 & Seep1 both dry and/or no increase		
Prairie Lane C&D	NE	Wayne	81 deg 56S1W 40 deg 45 18'N	In operation prior to 7/24/90	Operating	Y	77 (27-10 App. I)	5 wells	not real clear	CDD something happened between June 2003 and June 2004 events (MUCH lower values)	n/a	LHD	No; in-situ soil meets liner requirement of OAC 400-09(A). Granted exemption to this in original (10/97) license, required in 2007 license.	varies; in disposal area # 2 (TP-6) - 6'; facility under water at times - 0'	Poorly sorted sand w/ varying amounts of gravel, silt, and clay. Saturated at contact with overlying clayey silt down to a depth of 66'.	N/A	N	N	N/A	No	N/A	Y	DDAGW-CO	Y	Information not found during research	Information not found during research	can be during periods of high water	Y	July 2006 event is NW	Information not found during research	Information not found during research	Sand and Gravel Aquifer yielding >100gpm; in flood plain; in existence prior to 7/24/90. No excavation for this facility. Exemption approval license condition: "facility can't operate during periods of extremely high water" 2007 license says "all applicable requirements of OAC 3745-400..."
RC Miller Refuse	NE	Stark	81.18369, 40.75845	UNK	Closed	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	N	N/A	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Bedrock. Can not determine separation distance		
Reeds Salvage Corp	NE	Lorain	Not found in SCR; check DDAGW/SWLTS database	pre-7/90; all areas had debris prior to 1/1/99	Open	N	N/A	N/A	N/A	n/a	N/A	LHD	N	? SCR doesn't specify	? - SCR seems to indicate no UAS exists. GWR map says aquifers in area contain salt, oil, gas. ODNr logs indicate sand/SAG layers b/w 20-80 feet.	Information not found during research	N	N	N/A	N/A	N/A	Y - but report rec'd from Lorain Co. HD seems incomplete/inadeq.	LHD	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Till		
RKDF	NE	Cuyahoga	Not found in SCR; check DDAGW/SWLTS database	pre-7/90	Open - currently licensed	Y	77	Information not found during research. Incomplete reports	Information not found during research. Incomplete reports	Information not found during research. Incomplete reports	Information not found during research	LHD	Partial? Pre-1997 areas already filled	<5'	sand (buried valley & lacustrine)	N/A	Partial LCS (in newer portions)	N	N/A	Y?	Information not found during research	Y	LHD	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	None		
Rosby Resource Recovery	NE	Cuyahoga	Not found in SCR; check DDAGW/SWLTS database	UNK	Open - currently licensed	Y	77	Information not found during research. Incomplete reports	Information not found during research. Incomplete reports	Information not found during research. Incomplete reports	Information not found during research	LHD	N	? (SCR says 40' but silty fine sand layer may be UC2S/UAS)	(SCR says shale, but silty fine sand layer may be UC2S/UAS)	(SCR says shale, but silty fine sand layer may be UC2S/UAS)	Sump	N	N/A	N	N/A	N	N/A	Y - partial - did not characterize UCSZ correctly	LHD	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	SCR missed silt/silty fine sand layer as UCZ of S
Silver Oak LF	NE	Cuyahoga	Not found in SCR; check DDAGW/SWLTS database	UNK	Op, not licensed in 2010	N	N/A	N/A	N/A	n/a	N/A	LHD	N	25'	SS sand seams/shale?	N	N	N/A	N	N/A	Y	LHD	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Till			
SR Recycle C&D	NE	Columbiana	Not found in SCR; check DDAGW/SWLTS database	UNK	Never Constructed	Information not found during research	N/A	N/A	N/A	n/a	N/A	Information not found during research	Information not found during research	N/A	Information not found during research	N/A	N/A	N/A	N/A	N/A	N/A	Information not found during research	Information not found during research	N	N/A	N/A	Never Built	Information not found during research	Information not found during research	None		
Stark C&D Disposal	NE	Stark	Not found in SCR; check DDAGW/SWLTS database	UNK	Op	Y	77	3	0	n/a	N/A	LHD	N	20-70'	SS above Clarion	thin sand seams in silt?	Perimeter Drain	Y	10/16/2007	Y	5/07	Y	LHD	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	in old strip mine?		

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C&D STATEWIDE GEOLOGIC and HYDROGEOLOGIC DATA SUMMARY

Facility	District	County	Location Data (LL)	Date Facility Opened	Operating or Closed?	GW Monitoring?	Number of constituents monitored	Number of wells and other sampling locations	Number of sampling locations indicating an impact	Constituents indicating a possible impact	Zone(s) impacted	GW data with OEPAs or Local Health Dept.?	Liner (Y/N)?	Isolation Distance from 1st Con't. -S2S/UAS	1st-CS2S/UAS Description	SZS Description	Leachate Collection System? Toe Drain/Seep?	Leachate data?		GW Quality data?		Hydrogeo. Investigation		Substantially complete data set?	Off-Facility Wells Impacted?	Surface Water Impacted?	Location prohibition / Sensitive GW Setting?	GW Flow Direction	Fill Size (acres)	Other Notes			
																		Y / N ?	Most recent data date	Y / N ?	Most recent data date	Completed?	Data with EPA or LHD?										
Summit & McCoy C&D LF	NE	Summit	Not found in SCR; check DDAGW SWLTS database	~ 1965	Op	Y	77	10	3	HCO3, NH4, Cl, K, Mg, SO4	UAS	OEPAs	N	There is no isolation distance, the debris is located within waters found in the old, abandoned S&G quarry.	S&G	sand lenses in fill in a few borings?	N	N	N/A	Y	2007	Y	OEPAs	Y	Information not found during research	Based on cross sections, waste appears to be placed below the ground surface. A March 12	Y	W	<30 acres	Facility states it is located in floodplain. Also in abandoned S&G quarry. Overlying 100gpm aquifer; some wells (MW-4, 5, 7, 8) appear to be screened too shallow. Located within 1 year TOT of Barberton's wellfield (Letter issued Feb. 2001 to D. Dyle) from Mike Meusel, Sanitarian of City of Barberton's Health Dept.			
Summit C&D Disposal	NE	Summit	Not found in SCR; check DDAGW SWLTS database	UNK	Information not found during research	Y	77	4	0	n/a	N/A	LHD	Information not found during research	>20'	silty sand	none	Well	Y	10/18/2007	Y	2007	Y	LHD	Y	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	100 gpm aquifer buried valley. Located N of Barberton's wellfield			
Total Waste Logistics LAS LLC	NE	Trumbull	41D08M10S 80D42M10S	UNK	Information not found during research	Y	77	1	0	n/a	N/A	LHD	Y - 2' RCC in W portion of expansion area where shallow sand lenses removed	20'	sand or sand/shale interface	discontinuous sand lenses	Partial LCS in newer portions	N	N/A	Y	2001	Y	LHD	Y	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	perched saturated sand lenses being removed; 2' recompacted clay liner going over excavated areas			
Warren Recycling	NE	Trumbull	Not found in SCR; check DDAGW SWLTS database	GF Area - 1994; Ph 1 - 1999; Ph 2 - after 1999?	Closed (emergency closure by USEPA) Abandoned	Y	App. 1	16 (10 shallow SZS, 3 int SZA, 3 deep UAS)	6	NH4, Cl, Mg, K, Na, SO4, T, Ak	shallow SZS (fill/sand)	OEPAs	N; in-situ soils	5'-10'	sand seams and till-shale interface	Shallow SZS - fill/sand lenses in fill; interm SZS - upper fractured shale	LCS & treatment system and then discharged to sanitary sewer.	Y	10/17/2007	Y	7/07	Y	OEPAs	Y	N	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Depth of debris placement is appr. 15'-20'. Till is 20-50' thick and shale b/w till and Berea is min of 60' thick. Berea is regional aquifer and underlies facility. Facility governed by ISW rules (3745-29) per Consent Order, so UAS & SZS not UCSZ	
Zollinger C&D LF	NE	Wayne	Not found in SCR; check DDAGW SWLTS database	UNK	Op	Y	77	3	none	none	N/A	LHD	2' RCC under southern 2/3 of originally permitted portion of facility; 2' RCC under all of expansion	0-50'; CDD over S&G in old permitted NC part of facility	sand, SS	N/A	partial - under southern 2/3 of originally permitted portion of facility & under all of expansion area	N	N/A	Y	2006	Y	LHD	Y	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	31.6	S&G quarry; numerous res wells in S&G around facility. Quarrying operations ongoing; GW flows into quarry; no downgradient wells. The facility has submitted a license expansion application dated August 10, 2007 to expand the facility by 140.8 acres.		
William Paxton Hoffman Road Demo LF	NW	Lucas	41° 42' 08", 83° 30' 29"	UNK	operating, licensed	N	N/A	N/A	N/A	n/a	N/A	LHD	N	SCR says >5', but no X-sect or other evidence provided	SCR says carbonate, but site lies above buried valley yielding 5-15gpm overlying carbonate	sand/S&G?	N	N	N/A	N	N/A	Information not found during research	Information not found during research	LHD	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Laestine Clays		
Crawford County Sanitary LF	NW	Crawford	Not found in SCR; check DDAGW SWLTS database	UNK	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	N	N/A	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Till over shale. CDD over or part of MSW cell? (SC 10.18.10)			
D-K Enterprises	NW	Wood	Not found in SCR; check DDAGW SWLTS database	pre-9/96	Op	Y	77	4	3?	NH4, Ca, Cl, Mg, Na, SO4	UAS	LHD	N	0-20'	carbonate	N/A	N	N	N/A	Y	8/06	Y	LHD	Y	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	Information not found during research	In a barrow area directly on top of carbonate bedrock; multiple downgradient residential wells screened in same interval as UAS beneath facility		
EOLM	NW	Allen	Not found in SCR; check DDAGW SWLTS database	9/1998	Information not found during research	N	N/A	N/A	N/A	n/a	N/A	N/A	N	>5'	sand	N/A	Partial recirculating LCS	Y	9/12/2007	N/A	N/A	SCR incomplete? SCR didn't characterize vert extent of sand or depth to bedrock	LHD	N	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	Information not found during research	Till over End Moraine. Allen Co. GWR map and nearby well logs indicate potential 100 gpm aquifer system (buried Teays Valley) beneath the facility.		
C&R Excavating (AKA H&R Excavating)	NW	Ashland	Not found in SCR; check DDAGW SWLTS database	UNK	Op	Y	77	3	0	none	N/A	LHD	Not built yet Partial - 2' RCC over new areas beyond original 7.1 acres	0' based on 9/97 PSM	S&G	N/A	Not built yet Partial - over new areas beyond original 7.1 acres	N	N/A	Y	12/06	Partial?	LHD	Y	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	1,600' from Ashland wellfield; numerous residential wells nearby; sand & gravel quarry; 100 gpm aquifer			
Liberty Environmental Storage	NW	Mercer	40° 37' 14.8"N 84° 47' 18"W	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened as of 10/15/10	not yet opened as of 10/15/10	Till and sand lenses; 10/15/10 Parkway independent news article states that facility has yet to open.		
Ohio Demo (BFI C&D)	NW	Lucas	Not found in SCR; check DDAGW SWLTS database	1986	Op	Y	77	3	none	none	N/A	LHD	N	>15'	carbonate	N/A	LCS (SCR & 2000-2003 GW reports say not LCS, but 2004-present report LCS sampling)	Y	9/12/2007	Y	2006	Y	LHD	Y	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Is UG well A-100 being impacted by Vienna LF upgradient?	
Simanton Road (Bartley & Bolton)	NW	Ashland	Not found in SCR; check DDAGW SWLTS database	UNK	closed	Y	77	3	1	Ca, Mg, SO4	UAS	LHD	N	SCR says 70', but site & ODNr logs indicate 0' (unconfined S&G)	S&G	SCR says thin sand seams, but site & ODNr logs indicate they are part of UAS	DSW/MN; SCR says Y	N	N/A	N	n/a	Partial?	LHD	Y	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	Information not found during research	within 1-year TOT of Ashland wellfield SWAP area; private wells within 1000'; 100gpm aquifer. SCR mischaracterized UAS as being at least 70' down. Rising trends for Ca, Mg, SO4 in MW-1.		
Stickney West Ind. Park C&D	NW	Lucas	41.89484, 83.54348 but cannot locate visually	UNK	Open	N	N/A	N/A	N/A	n/a	N/A	Information not found during research	N	SCR says >5', but no X-sect or other evidence provided	carbonate	sand lenses in fill?	N	N	N/A	N	N/A	Y but seems incomplete - borings onsite only to 60' but bedrock at -100'	LHD	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Information not found during research	Laestine Clay		
TWL Finstar LLC (not constructed, not oper)	NW	Hancock	Not found in SCR; check DDAGW SWLTS database	UNK	Closed	N	N/A	N/A	N/A	n/a	N/A	LHD	Y	>10' according to HGI 20'-30' of fill over bedrock	Dolomite/S&G interface and underlying Dolomite	sand zone 2'-5' above bedrock over much of facility	N (HGI says it is supposed to have LCS)	N	N/A	Information not found during research	Information not found during research	Y	LHD	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Information not found during research	None		
Alberts (William Albert, Inc.)	SE	Coshocton	W81deg53'50" N40deg12'05"	According to '98 license app, fac. was in operation or under construction on 9/30/96	Op	Y: 1 up MW and 1 household well	21	2	0	none	N/A	DDAGW-CO	Y	Information not found during research	Granular deposit; S&G E of fac. to interbedded sands, silts and silty clay beneath and west of fac.	Information not found during research	LCS w/ holding tank	Y	8/22/2007	Y	June 27, 2007	Y	DDAGW-CO	Y	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	Information not found during research	Information not found during research	C&D placed ~100' W of gravel pit. There are 3 private wells <1,000' away	
Athens-Hocking Demo	SE	Athens	Not found in SCR; check DDAGW SWLTS database	24-Jul-90	Op	No (future monitoring is being considered)	N/A	N/A	N/A	n/a	N/A	Information not found during research	N	-15'	Information not found during research	fine grained siltstone	Sump/LCS	Y	8/22/2007	N/A(Sept. 07)	Aug. 07	Y	Y	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Information not found during research	Alternating layers of shale and thin sandstone yield less than 1 gpm at depths of less than 100 feet. The site likely has a low sensitivity to pollution because of the topography and depth to water.		
C&D Disposal Tech	SE	Jefferson	Not found in SCR; check DDAGW SWLTS database	2005	Op	Y	77	7	?	elevated SO4 (-1,200-2,000 mg/L) might be related to historical mining activity in the area	C2S?	LHD	Y - 2' RCC	5'	ss/siltsh	Information not found during research	LCS	Y	8/22/2007	Y, very limited.....	2 background events, Feb. & April 2005	Y	LHD/EPA	Y	NO	NO	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Information not found during research	Facility is immediately adjacent to former Cross-Ridge MSW landfill which was BAT at the time but shut down very soon after opening for legal/owner issues - received very little trash. Much of the hydrogeo investigation for the C&D site was based on previous work done for MSW facility.

**ATTACHMENT 1  
C&D STATEWIDE GEOLOGIC and HYDROGEOLOGIC DATA SUMMARY**

Facility	District	County	Location Data (LL)	Date Facility Opened	Operating or Closed?	GW Monitoring?	Number of constituents monitored	Number of wells and other sampling locations	Number of sampling locations indicating an impact	Constituents indicating a possible impact	Zone(s) impacted	GW data with OPEA or Local Health Dept.?	Liner (Y/N)?	Isolation Distance from 1st Con't. -S2S/UAS	1st-CS2S/UAS Description	S2S Description	Leachate Collection System? Toe Drain/Seep?	Leachate data?		GW Quality data?		Hydrogeo. Investigation		Substantially complete data set?	Off-Facility Wells Impacted?	Surface Water Impacted?	Location prohibition / Sensitive GW Setting?	GW Flow Direction	Fill Size (acres)	Other Notes	
																		Y / N ?	Most recent data date	Y / N ?	Most recent data date	Completed?	With EPA or LHD?								
Crock Construction C&D	SE	Noble	Not found in SCR; check DDAGW SWLTS database	1998	Op? Not licensed in 2010	N	N/A	N/A	N/A	n/a	N/A	Information not found during research	N	Information not found during research	Information not found during research	None	N	Y	8/22/2007	N	N/A	NO	N/A	N	Information not found during research	Information not found during research	?	Information not found during research	Information not found during research	Bedrock - Separation dist. Unknown: According to Jim Warren (- Aug. 2007), Noble Co. HD Director, the facility plans to expand.	
GHSCD (Hazen) Disposal Facility	SE	Maskingum	Not found in SCR; check DDAGW SWLTS database	UNK	Closed	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	N	N/A	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Bedrock - Separation dist. Unknown:	
Iron Valley	SE	Lawrence	Not found in SCR; check DDAGW SWLTS database	UNK	Op	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	LCS	Y	8/21/2007	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Landfill located in uplands over bedrock. Separation distance unknown.	
James C&D	SE	Maskingum	Not found in SCR; check DDAGW SWLTS database	UNK	Under Enforcement to complete closure	Y	77	3	3	metals	1	EPA	N	0	SS	Information not found during research	N	Y	8/22/2007	Y	12/03	Y	EPA	Y	NO	NO	N	Information not found during research	Information not found during research	Seep at toe of landfill discharges to stream w/o permit.	
Jeffers	SE	Meigs	Not found in SCR; check DDAGW SWLTS database	2002	Op	N	N/A	N/A	N/A	n/a	N/A	Information not found during research	Y (2' RCC)	>5'	interbedded shale & sandstone	Information not found during research	LCS	Y	8/21/2007	N	N/A	Y but no on-site investigation conducted	EPA	N	Information not found during research	Information not found during research	N	N/A	3.1	Separation dist. not known for sure, but depth to aquifer in 4 nearby well logs show avg depth of 40'	
Loy Reclamation Project	SE	Belmont	Not found in SCR; check DDAGW SWLTS database	UNK	Never Constructed	N/A	N/A	N/A	N/A	n/a	N/A	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N/A	N/A	N/A	N/A	N/A	N/A	Information not found during research	Information not found during research	N	Never Constructed	Never Constructed	Never Built	Never Constructed	Never Constructed	Never Constructed	
Pine Hollow	SE	Jefferson	Lat. 40.39450°, Long. -80.63853°	UNK	License denied 12/1/200	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	N	N/A	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Bedrock - Separation dist. Unknown:	
Scarberry & Son Demolition Inc.	SE	Lawrence	Not found in SCR; check DDAGW SWLTS database	UNK	Op	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	N	N/A	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	?	Information not found during research	Information not found during research	Bedrock - Separation dist. Unknown:	
Sidwell Materials	SE	Maskingum	Not found in SCR; check DDAGW SWLTS database	1998	Op	N	N/A	N/A	N/A	n/a	N/A	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	LCS	Y	8/22/2007	N/A	N/A	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	In old Limestone quarry website: <a href="http://sidwellmaterials.com/pages/c&amp;d.html">http://sidwellmaterials.com/pages/c&amp;d.html</a>	
SW Land Co.	SE	Guernsey	Not found in SCR; check DDAGW SWLTS database	UNK	Closed?	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Toe Drain	Y	10/16/2007	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Bedrock - Separation dist. Unknown:	
Tunnel Hill Reclamation	SE	Perry	Not found in SCR; check DDAGW SWLTS database	licensed since 1998	Closed - enforce	Y; required as a private well exists <1,000' LWD?	94	6	0	n/a	N/A	DDAGW-CO	Y: 24' recm clay & drainage layer. (Fac. meets exemption from liner req.)	>40' +	SS & SH formations: upper Allegheny & Conemaugh Groups	N/A	LCS	Y	8/22/2007	Y	July 2006	Y	DDAGW-CO	Y	Information not found during research	Information not found during research	N	SSE	138.65	There are private wells within 2,000' of the limits of debris placement.	
Bellefontaine C&D LF	SW	Logan	Not found in SCR; check DDAGW SWLTS database	1962	Closed	Y	77	3 (but DG now needs replace)	1	NH4, K	UAS	LHD	N	0' most areas	carbonate	N/A	N	N	N/A	Y	2006	Y	LHD	Y	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	Within 1 year TOT of PWS; in old limestone quarry	
Bobmeyer Rd C&D	SW	Butler	Not found in SCR; check DDAGW SWLTS database	UNK	Closed	Y	?	2+	* from MSW underlying CDD	As, Ba	UAS	Both	N	0'	S&G	n/a	Y toe drain	Y	N/A	Y	Information not found during research	Y	both	N (see notes)	N	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	Sand and Gravel, 100gpm aquifer, in S&G pit. C&D facility on top of MSW facility. Has approved corrective measures plan for As and Ba.
Burger	SW	Hamilton	Not found in SCR; check DDAGW SWLTS database	prior to 7/90	Op	Y	2009-1st 19 params of 400-10 Appendix. 2010-1st 19 params of 400-10 Appendix +As, Cr, Cu (HD also sampled VOCs using 8260B and pesticides using 8081 + Ag, Ba, Be, Cd, Cu, Ni, Sb, Se, Ti, V	5	2	K, Mg, SO4, COD, Ca, NH4, Mn, Na, Cl, Fe, VOCs	UAS	LHD	N	0'	S&G (L. Miami SSA) 8'-21' thick	N/A	N	N	N/A	Y	2009 and 2010	Y	LHD	Y	Y - Newton CDD facility down-gradient	Information not found during research	Information not found during research	Y	SE to NW	46.2	Above L. Miami SSA in old S&G quarry - 100 gpm aquifer system: LHD Report indicates impacting GW Qual.
Cornett Demo Fill	SW	Montgomery	Not found in SCR; check DDAGW SWLTS database	1960's - accepted MSW	Closing	Y	77	4 currently (4 prev abandoned)	2	VOCs, HCO3, Ca, Cl, Mg, Na, K, Fe, NH4, SO4	UAS	LHD	N	0'	S&G (GMBV-SSA)	none	N	N	N/A	Y	2005	Y	LHD	Y	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	Overlies GMBV SSA; in old S&G quarry, within 100-y floodplain: Facility (aka Esipy's LF) investigated by USEPA in 1980's for burning & accepting MSW; also was a junk/salvage yard	
Eckhart Road (Weidle) C&D	SW	Montgomery	Not found in SCR; check DDAGW SWLTS database	UNK	Information not found during research	Y	777	3	2	NH4, HCO3, Ca, Cl, COD, K, Mg, Mn, Na, pH, SO4, Sp Con	UAS	EPA	N	0'	S&G (GMBV-SSA)	N/A	N	N	N/A	Y	2007	Y	EPA	Y	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	Overlying GMBV SSA in old S&G quarry	
ELDA RDF C&D	SW	Hamilton	Not found in SCR; check DDAGW SWLTS database	Operation began 8/1/1991	Closed	N	N/A	9 wells @ MSW facility (27 wells total over life of ELDA - since 1973)	N/A	n/a	N/A	Information not found during research	Information not found during research	The nearest limit of the C&D site is about 150' from the north western limit of the uppermost aquifer.	"...does not exist" (Eagon & Assoc.)	N/A	LCS	N	N/A	N	N/A	SCR completed	EPA	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Many ODNr located wells nearby: Not located in a floodplain or over a SSA. The C&D site is contiguous with and partially overlapping the solid waste landfill.	
E-Town LF	SW	Hamilton	Not found in SCR; check DDAGW SWLTS database	977	Op	Y	2009-1st 19 params of 400-10 Appendix + As, Cr, Cu. 2010-1st 19 params of 400-10 Appendix +As, Cr, Cu (HD also sampled VOCs using 8260B and pesticides using 8081 + Ag, Ba, Be, Cd, Cu, Ni, Sb, Se, Ti, V	4: MW-1 & 2 are DG, MW-3 & 4 are UG	One - MW-1	Cl, COD, HCO3, SO4, K, Mg, Mn, Na, NH4	S&G UAS	LHD	N	>3'	S&G	N/A	Seeps	Y	8/3/06?	Y	2009 and 2010	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	Y	Southerly	26.8	located within the 100 yr. Flood plain. Located over SSA. Exempt because fac. was operating before 7/24/80. LHD report indicates impact to GW Quality.	
Gray Road	SW	Hamilton	Not found in SCR; check DDAGW SWLTS database	prior to 7/90	Closed	Y	77	7	2	Cl, COD	1st CS2/UAS	LHD	N	? SCR doesn't specify if excavation occurred. Depth to saturated S&G at MW-1 was 19'	sand/S&G	Information not found during research	Collection pipes - goes to sanitary sewer	Y	3/06	Y	3/06	SCR inadequate	EPA	Y	Information not found during research	Information not found during research	N	N	?	Facility also takes fly ash	
Hafner & Sons	SW	Hamilton	Not found in SCR; check DDAGW SWLTS database	1984	Op	Y	2009-1st 19 params of 400-10 Appendix + As, Cr, Cu + 7 VOCs. 2010-1st 19 params of 400-10 Appendix + As, Cr, Cu + 7 VOCs	6 (MW-4, 7, 8 & 9 DG; MW-10 UG; MW-GR UG/DG)	2 or more	Ca, Cl, K, Na, SO4, VOCs, NH4, COD	UAS	LHD	Future liner to be installed on eastern 19.2 acres	≥9'	S&G (L. Miami SSA)	N/A	Future LCS to be installed on eastern 19.2 acres	N	N/A	Y	2009 and 2010	Y	LHD	Y	N	Information not found during research	Information not found during research	Y	Southeasterly	60.1	Overlies L. Miami SSA, 100 gpm aquifer and is located in a 100-year floodplain: LHD Report indicates impact to GQ Quality.
Hotopp & Sons, Inc.	SW	Montgomery	Not found in SCR; check DDAGW SWLTS database	UNK	Closed	Y	77	4	2	VOCs, SO4	S&G	LHD	N	0'	S&G (GMBV-SSA)	N/A	N	N	N/A	Y	2006	Y	LHD	Y	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	Facility is over GMBV-SSA and within SWAP area for Dayton wellfield: Facility down-gradient of bulk petroleum facility & others with known releases; PCE detected in upgrad. BG well	
John P. Ralsch, Inc	SW	Montgomery	Not found in SCR; check DDAGW SWLTS database	UNK	Op? licensed in 99'	N	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	N	N/A	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	Part of site appears to overlie a Sand and gravel aquifer.	
Loveland LF	SW	Hamilton	Not found in SCR; check DDAGW SWLTS database	Prior to July 1990	Op	Y, required	2009-1st 19 params of 400-10 Appendix + As, Cr, Cu. 2010-1st 19 params of 400-10 Appendix + As, Cr, Cu	6 MW's, surface water	One - EMW-3	COD, NH4, SO4, As, VOCs	Information not found during research	LHD	liner req. waived: debris prior to 9/30/96	0'	sandy gravel	N/A	Seeps	Y	9/12/06?	Y	2009 and 2010	Y	OPEA	Y	N	N	Y	SW	34.375	exempt: in operation prior to July 24, 1990: over SSA. Located in old S&G quarry: LHD report indicates impact to GW Quality.	

**ATTACHMENT 1  
C&DD STATEWIDE GEOLOGIC and HYDROGEOLOGIC DATA SUMMARY**

Facility	District	County	Location Data (LUL)	Date Facility Opened	Operating or Closed?	GW Monitoring?	Number of constituents monitored	Number of wells and other sampling locations	Number of sampling locations indicating an impact	Constituents indicating a possible impact	Zone(s) impacted	GW data with ODEPA or Local Health Dept.?	Liner (Y/N)?	Isolation Distance from 1st Con't. -S2S/UAS	1st-CS2S/UAS Description	S2S Description	Leachate Collection System? Toe Drain/Seep?	Leachate data?		GW Quality data?		Hydrogeo. Investigation		Substantially complete data set?	Off-Facility Wells Impacted?	Surface Water Impacted?	Location prohibition / Sensitive GW Setting?	GW Flow Direction	Fill Size (acres)	Other Notes	
																		Y / N ?	Most recent data date	Y / N ?	Most recent data date	Completed?	Data with EPA or LHD?								
Miamitown LF	SW	Hamilton	Not found in SCR; check DDAGW/SWLTS database	UNK	Closed	N	n/a	0	n/a	n/a	?	n/a	N	0'	S&G	n/a	N	N	N/A	n/a	n/a	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	Sand and Gravel, 100gpm aquifer, located in a S&G pit. No GW monitoring wells.	
Miamiview Land Development C&DD	SW	Hamilton	Not found in SCR; check DDAGW/SWLTS database	1998?	Information not found during research	Y	1st 19 params of 400-10 Appendix annually	3 MWs	Information not found during research	Information not found during research	Information not found during research	Information not found during research	in-situ or AGM	5'	None at the facility, the 3 zones monitored are not connected.	Information not found during research	Not constructed yet but plans have LCS	N	N/A	N	N/A	Y	DDAGW-CO	N	Information not found during research	fac. req'd. to monitor SW as stream was culverted under fill area	Information not found during research	Y	Information not found during research	11.6	meets all criteria for SSA and flood plain; only MW-1 consistently yields water (slug test=1/8 gpm). Intra-well stats used to eval. GW data
New Baltimore	SW	Hamilton	Not found in SCR; check DDAGW/SWLTS database	< July 24, 1990	Op	Y	2009-1st 19 params of 400-10 Appendix + As, Cr, Cu + VOCs. 2010-1st 19 params of 400-10 Appendix + As, Cr, Cu	5 (MW-1R & 2 DG; MW-3R UG; MW-4A & 4 not sampled due to proximity of former junkyard to east)	2 - MW-1R and MW-2	NH, Na, Cl, Fe, K	S&G	LHD	Not required	Waste placed in water	S&G 13'-70" thick	N/A	N	N	N/A	Y	2009 and 2010	Y	LHD	Y	Information not found during research	Information not found during research	Y	Southwesterly	22	located over SSA but operating < 724/90 so is exempt LHD Report indicates impact to GW quality.	
Newtown	SW	Hamilton	Not found in SCR; check DDAGW/SWLTS database	Operating on July 24, 1990 (date of the rules)	Op	Y	2009-1st 19 params of 400-10 Appendix + As, Cr, Cu. 2010-1st 19 params of 400-10 Appendix + As, Cr, Cu	7 (MW-3, 4 & 5 DG; MW-1, 2 & 6 UG; MW-1 most likely affected by UG Burger C&DD facility; MW-7 monitored for As, Cr, Cu only in 2009)	Two - MW-3, MW-4	K, SO <sub>4</sub> , VOCs	S&G	LHD	N	< 2 feet and potentially in water	0' in some locations. Located in S&G quarry	N/A	N	N	N/A	Y	2009 and 2010	Y	LHD	Y	No	No	Y	WNW towards Little Miami River	49.65	Located over Great Miami SSA. Located in old S&G pit. There are 6 private wells located within 2,000' of the facility. S&G found in all borings to bottom of boring (depths of 30'-60'). LHD Report indicates impact to GW quality.	
Rumpke Recycling & Transfer-Greenville	SW	Darke	40D04MD9S 84D36M6S	UNK	Closed	Y	77	5 (MW-1, 2 & 5 DG; MW-3 & 4 UG)	1	Na, Total Alk.	UAS?	LHD	Information not found during research	17'? see notes	sand	Information not found during research	N	N	N/A	Y	2006	Partial?	LHD	Y	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Till and sand lenses. No SCR, but nearby well logs indicated shallow, saturated sand lenses at 17'.	
Schlichter Hauling & Disposal Services	SW	Butler	Not found in SCR; check DDAGW/SWLTS database	UNK	Closed? 2003 license denied	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	N	N/A	N	N/A	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	Buried valley >100 gpm. Mixed with MSW cells, facility already being investigated regarding MSW cells	
Springfield Landfill (aka Ron's Demo C&DD) LLC	SW	Clark	Not found in SCR; check DDAGW/SWLTS database	1981	Op	Y; wells to be installed prior to 3/31/98.	19. Initial year of monitoring, quarterly sampling, annual after that.	3	Ca, K, Mg, Na, SO <sub>4</sub> , Cl, NH <sub>4</sub>	upper cont. zone of sat.	DDAGW-CO	N	Along W portion of facility, 32' of separation @ SB-1 and 24' @ SB-2. Also 5' + of silty clay exists in W area w/ perm of 10E-7. Along E portion, debris within 5' of UAS.	S&G; soil borings indicate 4-7" thick overtop of dense silty clay till.	N/A	Outbreak, Fr Drain, Ditch, collected in leachate lagoon (pond)	Y	1/05	Y	Aug. 3, 2006	Y (SCR)	DDAGW-CO	Y	Information not found during research	Information not found during research	Y	to SE (upgradient of wells along Mechanicburg Rd.)	26	Debris placement does lie within limits of Miami SSA but is exempt because operating prior to 7/24/90. Facility located within 1,000' of 4 private wells.		
SRI Inc.	SW	Montgomery	Not found in SCR; check DDAGW/SWLTS database	UNK	Open	N	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	No	> 5' of shale bedrock (8x10E-7) in all 7 borings; significant thicknesses of bedrock under location; 10' 61" thick	2 of 7 borings show C&DD debris from ground surface to 18.5' and 23.5' also noted as being WET.	Information not found during research	N	N	N/A	Information not found during research	N	Information not found during research	Information not found during research	N	Information not found during research	Information not found during research	Not over SSA, over till. "Request for variance from 400-09 (B) (GW Mon) under separate cover" nothing else known.				
Taylorville Rd Hardfill	SW	Montgomery	Not found in SCR; check DDAGW/SWLTS database	Current OIO says 1960s-1965s. In operation before 7/24/90	Op	Y	25 plus VOCs & PAHs	7 wells(3U & 4D)	1 MW	As, Ba, Ca, Cl, HCO <sub>3</sub> , Fe, Mg, Mn, SO <sub>4</sub>	Shallow & deeper zones of buried valley S&G	DDAGW-CO	Exempt	0'	S&G thickness ranges from 29'-48', averages 36"	Information not found during research	Information not found during research	N	N/A	Y	Oct. 2010	Y	LHD	Y	?	Information not found during research	Information not found during research	Y	W-SW (towards pumping production wells @ Huber Heights wellfield)	31.57	Located over SSA/ 100 gpm aquifer; Located adjacent (-350'-500' east) of Huber Heights Rip Rap wellfield within the SWAP area. Prod. wells RRR 2, 3, 4 are primary wells, with RRR 1 & 6 standby. Exempt from LCS & liner.
The General Contractors Co.	SW	Clark	Not found in SCR; check DDAGW/SWLTS database	UNK	OP	Y	18	3 MWs	1	K, NO <sub>3</sub> , SO <sub>4</sub>	upp. Sig. Zone	DDAGW-CO	No limits of debris placement were filled with debris prior to Sept. 30, 1996.	Information from 4 of the 5 boring logs indicate sand or S&G from the ground surface down to at least 5' The fifth boring log indicates 6" of silty clay on top of gravelly sand. Does not appear to have any isolation distance.	Poorly graded sand, some with gravel.	N/A	N	N	N/A	Y	July 27, 2005	SCR completed	EPA	Y	Information not found during research	Information not found during research	Y	West	24.123	Facility located in gravel pit used by General Contractors Co. for their purposes. 7 private water wells are located within 1,000' of the site. Located on a ridge consisting mainly of outwash deposits. 9/22/04 document submitted for planned expansion (10.3 acres) Operating prior to July 24, 1990	
Trey Company #1	SW	Montgomery	Not found in SCR; check DDAGW/SWLTS database	UNK	Closed	N	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	N	N/A	Information not found during research	N	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	Tracy Buchanan states there are 2 Trey facilities. Sand and Gravel, 100gpm aquifer?				
Trey Company #2	SW	Montgomery	Not found in SCR; check DDAGW/SWLTS database	UNK	Closed	N	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	Information not found during research	N	N	N/A	Information not found during research	N	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	Tracy Buchanan states there are 2 Trey facilities. Sand and Gravel, 100gpm aquifer?				
Vance Environmental Ltd	SW	Montgomery	Not found in SCR; check DDAGW/SWLTS database	UNK	Op	Y	18	7 wells	4	Cl, Ca, Mg, Mn, SO <sub>4</sub> , HCO <sub>3</sub> , Fe	Information not found during research	Information not found during research	NO; in-situ does not have perm. of 10E-5 or equiv. to 10E-6. Also, -400-09(C)(1)(d) "4.5 acres before 1/1/99"	NONE; boring logs indicate S&G to the ground surface.	Grey silty S&G over shale	N/A	N	N	N/A	Y	July 13, 2006	Information not found during research	Information not found during research	Y	Information not found during research	Information not found during research	Y	W to E	4.5	Over SSA; neighbors Stony Hollow MSW LF, directly overlies narrow E-W trending buried valley/operating prior to July 24, 1990.	
Whitewater Reclamation Company (Golsch)	SW	Hamilton	Not found in SCR; check DDAGW/SWLTS database	1988	Op	Y	2009-1st 19 params of 400-10 Appendix. 2010-1st 19 params of 400-10 Appendix + As, Cr, Cu	4 (MW-3SD UG; MW-3S, 9AD & 119 DG)	Three - MW-119, MW-3S, MW-94	K, Mn * see notes	S&G	LHD	4.5 acre liner completed Nov. '08	silt and clay from washing of mined S&G is present from 1.5' to -10' as noted in many test pit logs.	S&G	N/A	LCS installed on 4.5 acres Nov. '08	N	N/A	Y	2009 and 2010	No. SCR contains limited data (YT)	DDAGW-CO	Y	No	No	Y	WSW since Chevron stopped pumping	42.5	Over GMBV-SSA. 2009 Ham. Co HD report concludes ind of impact to gw quality for K & Mn.	
Xenia Demolition LF	SW	Greene	83deg57'17" 39deg41'55"	UNK	Op	Y; the MWs used here were installed for the Xenia City SLF	19	5 MWs	5 MWs (all)	Na, Fe, Pb, Mn.	S&G	Ohio EPA	No, except for 4.3 acre area. Should the 4.3 acre area not have debris placed prior to 1/1/99 no debris will be placed in this area. Recommend soil liner be installed prior to debris placement.	8'-9' @ boring #9	25'-64' of S&G @boring #9	N/A	N	N	N/A	Y	July 2006	No. operating prior to July 24, 1990.	None	Y	Information not found during research	Information not found during research	Y	SE to NW	Information not found during research	Over SSA; Xenia is located west of and adjacent to Xenia City SLF. Portion of facility located in Miami SSA.	