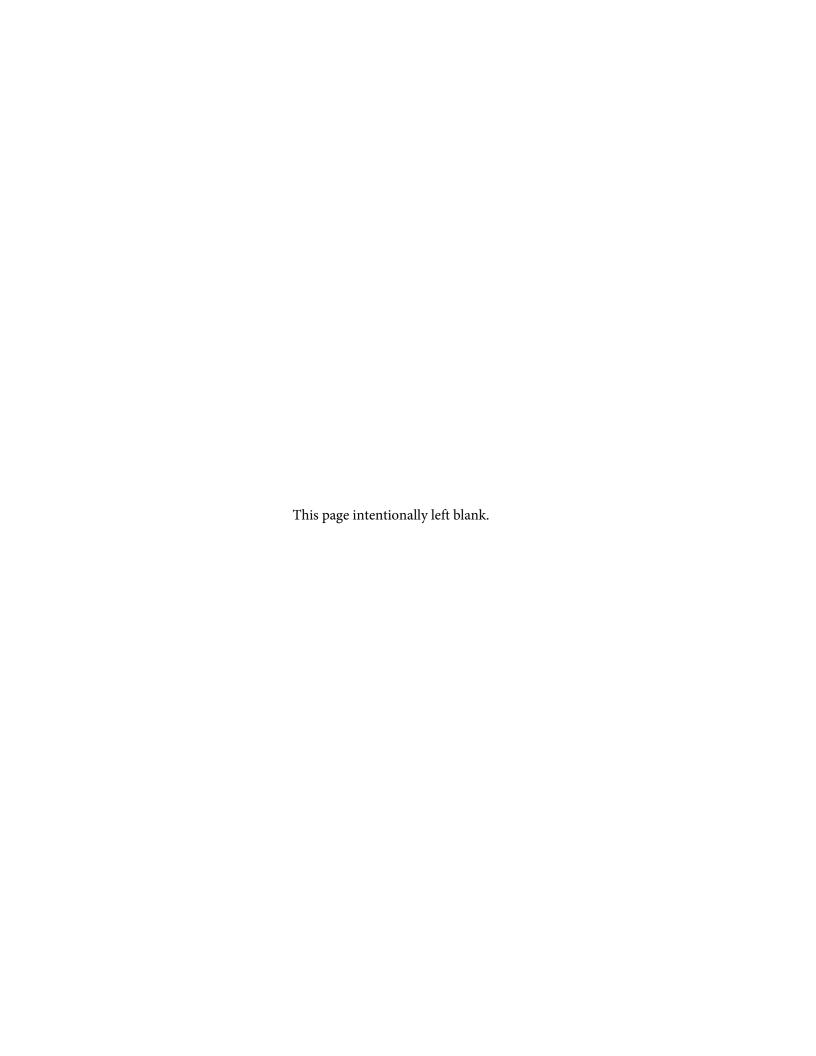
TAB D

Site-Wide Groundwater Wells (Sections 1, 2, 3, 4, 22, 23, 24, 26, 27, 28, 33, 34, 36)



4-15-5

Please note that "O&M" is referred to throughout this checklist. At sites where Long-Term Response Actions are in progress, O&M activities may be referred to as "system operations" since these sites are not considered to be in the O&M phase while being remediated under the Superfund program.

Five-Year Review Site Inspection Checklist (Template)

(Working document for site inspection. Information may be completed by hand and attached to the Five-Year Review report as supporting documentation of site status. "N/A" refers to "not applicable.")

I. SITE INF	ORMATION
Site name: RMA site wide well inspections	Date of inspection: Various inspection dates:
Location and Region: RMA Region 8	EPA ID:
Agency, office, or company leading the five-year review:	Weather/temperature: Various
☐ Access controls ☐ ☐	Monitored natural attenuation Groundwater containment Vertical barrier walls
Attachments: Inspection team roster attached II. INTERVIEWS (☐ Site map attached
1. O&M site managerName Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached	Title Date
2. O&M staff Name Interviewed □ at site □ at office □ by phone Problems, suggestions; □ Report attached	

Agency			
ContactName		حصيم الم	/
Name	Title	Date	Phone i
Problems; suggestions; ☐ Report attached			
38			
Agency			
ContactName	m'.1		- DI
Name Problems; suggestions; □ Report attached	Title	Date	Phone n
Agency	JP/un	W-24-19	
Contact			
Name Problems; suggestions; □ Report attached	Title	Date	Phone n
Agency			
Contact			
Name Problems; suggestions; □ Report attached	Title	Date	Phone no
Other interviews (optional) Report attached	l.		

Air discharge permit	_	III. ON-SITE DOCUMENTS	& RECORDS VERIFIED	(Check all that ap	oply)	1
Contingency plan/emergency response plan Readily available Up to date N/A	1.	☐ O&M manual ☐ As-built drawings ☐ Maintenance logs	☐ Readily available	☐ Up to date	□ N/A	_
Remarks	2.	☐ Contingency plan/emergency respon	se plan Readily availab			_
Air discharge permit	3.		☐ Readily available			_
6. Settlement Monument Records Readily available Up to date N/A 7. Groundwater Monitoring Records Readily available Up to date N/A 8. Leachate Extraction Records Readily available Up to date N/A 9. Discharge Compliance Records Readily available Up to date N/A 9. Water (effluent) Readily available Up to date N/A 10. Daily Access/Security Logs Readily available Up to date N/A 10. Daily Access/Security Logs Readily available Up to date N/A	4.	☐ Air discharge permit ☐ Effluent discharge ☐ Waste disposal, POTW ☐ Other permits	☐ Readily available ☐ Readily available	☐ Up to date ☐ Up to date ☐ Up to date	□ N/A □ N/A	
Remarks	5.		Leadily available Up	to date \(\square\) N/A	1	_
Remarks Leachate Extraction Records Readily available Up to date N/A	5.	그는 사고 있는 가는 이번 선생님이 있는 가는 사람들이 되었다면 하면 하면 되었다면 하게 되는 것이 되었다면 하지 않는데 없었다면 하게 되었다면 하게 되었	☐ Readily available	☐ Up to date	□ N/A	_
. Discharge Compliance Records Air Readily available Readily available Up to date N/A Remarks Daily Access/Security Logs			☐ Readily available	☐ Up to date	□ N/A	_
☐ Air ☐ Readily available ☐ Up to date ☐ N/A ☐ Water (effluent) ☐ Readily available ☐ Up to date ☐ N/A Remarks ☐ Daily Access/Security Logs ☐ Readily available ☐ Up to date ☐ N/A	3.	The state of the professional and the state of	☐ Readily available	□ Up to date	□ N/A	-
	•	☐ Air ☐ Water (effluent)				
	0.		☐ Readily available	☐ Up to date	□ N/A	

_	IV. O&M COSTS
1.	O&M Organization State in-house Contractor for State PRP in-house Contractor for PRP Federal Facility in-house Contractor for Federal Facility Other
2.	O&M Cost Records Readily available Up to date Funding mechanism/agreement in place Original O&M cost estimate Breakdown attached
	From To Breakdown attached Date Date Total cost From To Breakdown attached Date Date Total cost
	Unanticipated or Unusually High O&M Costs During Review Period Describe costs and reasons: V. ACCESS AND INSTITUTIONAL CONTROLS Applicable N/A
	ncing
Fei	
Fe	Fencing damaged ☐ Location shown on site map ☐ Gates secured ☐ N/A Remarks ☐
	Fencing damaged

C. I	nstitutional Controls (IC	s)				
1.	Implementation and enforcement Site conditions imply ICs not properly implemented □ Yes □ Nes Site conditions imply ICs not being fully enforced □ Yes □ Nes					□ N/A □ N/A
	Type of monitoring (e., Frequency					
	Responsible party/ager Contact	ncy				
	Name	e	Title	D	ate	Phone no.
	Reporting is up-to-date Reports are verified by				□ No	□ N/A □ N/A
	Specific requirements in Violations have been re Other problems or sugg	ported			□ No □ No	□ N/A □ N/A
2.	Adequacy	☐ ICs are adequate	ПС	s are inadequate		□ N/A
	Remarks					
. Ge						
	Vandalism/trespassing Remarks	□ Location shown	on site map	□ No vandalism	evident	
	Land use changes on si Remarks	ite N/A				
	Land use changes off si Remarks_	ite□ N/A				
		VI. GENERAL S	ITE CONDI	TIONS		
_	ds □ Applicable	□ N/A				
. Roa	·					

OSWER No. 9355.7-03B-P

	Remarks		/
•	VII. LA	ANDFILL COVERS Applicable N/A	
1.	Settlement (Low spots) Areal extent Remarks	□ Location shown on site map □ Settlement not ever Depth □ Settlement not ever □ Settle	vident
2.	Cracks Lengths W Remarks	☐ Location shown on site map ☐ Cracking not evid	lent
	Erosion Areal extentRemarks	☐ Location shown on site map ☐ Erosion not evide ☐ Depth	nt
	Holes Areal extent Remarks	☐ Location shown on site map ☐ Holes not evident Depth	
	Vegetative Cover ☐ Trees/Shrubs (indicate size Remarks	Grass ☐ Cover properly established ☐ No signs and locations on a diagram)	of stress
	Alternative Cover (armored Remarks_	rock, concrete, etc.)	
/	Bulges Areal extent Remarks	☐ Location shown on site map ☐ Bulges not evident Height	

OSWER No. 9355.7-03B-P

8.	Wet Areas/Water Damage ☐ Wet areas ☐ Ponding ☐ Seeps ☐ Soft subgrade Remarks_	☐ Wet areas/water damage ☐ Location shown on site r	map Areal extentmap Areal extent
9.	Slope Instability ☐ Slid Areal extent Remarks	es Location shown on site n	nap
В. В	Genches	inds of earth placed across a steep	andfill side slope to interrupt the slope pt and convey the runoff to a lined
1.	Flows Bypass Bench Remarks	□ Location shown on site m	nap □ N/A or okay
2.	Bench Breached	ocation shown on site map	□ N/A or okay
3.	Bench Overtopped Remarks_	☐ Location shown on site m	ap □ N/A or okay
C. L	etdown Channels	ntrol mats, riprap, grout bags, or a allow the runoff water collected	gabions that descend down the steep by the benches to move off of the
1.	Settlement	ocation shown on site map Depth	No evidence of settlement
2.	Material type	ocation shown on site map Areal extent	
3.	Erosion	Depth	No evidence of erosion

4.	Undercutting
5.	Obstructions Type
6.	Excessive Vegetative Growth No evidence of excessive growth Vegetation in channels does not obstruct flow Location shown on site map Remarks Areal extent
D. C	over Penetrations Applicable N/A
1.	Gas Vents ☐ Active ☐ Passive ☐ Properly secured/locked☐ Functioning ☐ Routinely sampled ☐ Good condition ☐ Evidence of leakage at penetration ☐ Needs Maintenance ☐ N/A Remarks
	Gas Monitoring Probes ☐ Properly secured/locked☐ Functioning ☐ Routinely sampled ☐ Good condition ☐ Evidence of leakage at penetration ☐ Needs Maintenance ☐ N/A Remarks
	Monitoring Wells (within surface area of landfill) □ Properly secured/locked□ Functioning □ Routinely sampled □ Good condition □ Evidence of leakage at penetration □ Needs Maintenance □ N/A Remarks
	Leachate Extraction Wells ☐ Properly secured/locked☐ Functioning ☐ Routinely sampled ☐ Good condition ☐ Evidence of leakage at penetration ☐ Needs Maintenance ☐ N/A Remarks
/	Settlement Monuments □ Located □ Routinely surveyed □ N/A Remarks

E.	Gas Collection and Treatment	□Ap	plicable	□ N/A	
1.		Thermal des Needs Main		☐ Collection fo	or reuse
2.	Gas Collection Wells, Mani ☐ Good condition ☐ Remarks	folds and Pi Needs Main			
3.	Gas Monitoring Facilities (€ ☐ Good condition ☐ Remarks_	Needs Maint	itoring of a	□ N/A	buildings) 4-24-15
F. (Cover Drainage Layer	□Арр	licable	□ N/A	
I.	Outlet Pipes Inspected Remarks_	□ Fun	ctioning	□ N/A	
2.	Outlet Rock Inspected Remarks	□ Fun	ctioning	□ N/A	
G. E	Detention/Sedimentation Ponds	☐ App	licable	□ N/A	
1.	Siltation Areal extent ☐ Siltation not evident Remarks		Depth_		□ N/A
2.	Erosion Areal extent Erosion not evident Remarks		Dep	th	
3.	Outlet Works	unctioning	□ N/A		
1.	Dam □ F Remarks	unctioning	□ N/A		

OSWER No. 9355.7-03B

H.	Retaining Walls	☐ Applicable	□ N/A	
1.	Deformations Horizontal displacement_ Rotational displacement_ Remarks	□ Location sho	wn on site map Vertical displa	☐ Deformation not evident cement
2.	Degradation Remarks	☐ Location sho	wn on site map	☐ Degradation not evident
I. Po	erimeter Ditches/Off-Site Dis	charge	☐ Applicable	□XIA
1.	Siltation ☐ Locati Areal extent Remarks	Depth_	e map Siltation	evident ev Muzus
	Vegetative Growth ☐ Vegetation does not imp Areal extent Remarks		vn on site map	□ N/A
	Erosion [Areal extent_ Remarks_	Location show Depth_	n on site map	☐ Erosion not evident
	Discharge Structure Remarks] Functioning	□ N/A	
	VIII. VERTI	CAL BARRIE	R WALLS	☐ Applicable ☐ N/A
	Settlement E Areal extent Remarks		n on site map	☐ Settlement not evident
/	Performance Monitoring T Performance not monitore Frequency Head differential	ype of monitorind		ence of breaching

	IX. GROUNDWATER/SURFACE WATER REMEDIES Applicable N/A
Α.	Groundwater Extraction Wells, Pumps, and Pipelines
1.	Pumps, Wellhead Plumbing, and Electrical ☐ Good condition ☐ All required wells properly operating ☐ Needs Maintenance ☐ N/A Remarks
2.	Extraction System Pipelines, Valves, Valve Boxes, and Other Appurtenances Good condition Needs Maintenance Remarks
3.	Spare Parts and Equipment ☐ Readily available ☐ Good condition ☐ Requires upgrade ☐ Needs to be provided Remarks
B. S	urface Water Collection Structures, Pumps, and Pipelines Applicable N/A
1.	Collection Structures, Pumps, and Electrical ☐ Good condition ☐ Needs Maintenance Remarks
2.	Surface Water Collection System Pipelines, Valves, Valve Boxes, and Other Appurtenances Good condition Needs Maintenance Remarks
	Spare Parts and Equipment

C.	Treatment System Applicable	
1.	Treatment Train (Check components that apply) ☐ Metals removal ☐ Oil/water separation ☐ Bioremediation ☐ Air stripping ☐ Carbon adsorbers ☐ Filters ☐ Additive (e.g., chelation agent, flocculent)	
	Traditive (e.g., chetation agent, noccation)	
	☐ Others ☐ Good condition ☐ Needs Maintenance	
	☐ Sampling ports properly marked and functional	
	☐ Sampling/maintenance log displayed and up to date	
	☐ Equipment property identified	
	Quantity of groundwater treated annually	
	Ouantity of surface water treated annually Remarks	
	Kemarks	
2.	Electrical Enclosures and Panels (properly rated and functional)	
	▼N/A ☐ Good condition ☐ Needs Maintenance	
	Remarks	
	Tanks, Vaults, Storage Vessels	
	N/A ☐ Good condition ☐ Proper secondary containment ☐ Needs Maintenance	
	Remarks	
	Discharge Structure and Appurtenances ☑ N/A ☐ Good condition ☐ Needs Maintenance Remarks	
	Treatment Building(s) N/A	
	Monitoring Wells (pump and treatment remedy) Properly secured/locked Functioning Routinely sampled Good condition All required wells located Needs Maintenance N/A Remarks With permission and coordination with the Avmy, Sitewide well inspections OGCured on various dates by PWT. Comments are included in Section XI, overlil observations	ious, Section
Mo	nitoring Data	
	Monitoring Data ☐ Is routinely submitted on time ☐ Is of acceptable quality	¥
	Monitoring data-suggests:	

1.	Monitoring Wells (natural attenuation remedy) □ Properly secured/locked□ Functioning □ Routinely sampled □ Good condition □ All required wells located □ Needs Maintenance □ N/A Remarks
	X. OTHER REMEDIES
	If there are remedies applied at the site which are not covered above, attach an inspection sheet describing the physical nature and condition of any facility associated with the remedy. An example would be soil vapor extraction.
	XI. OVERALL OBSERVATIONS
A.	Implementation of the Remedy
	Describe issues and observations relating to whether the remedy is effective and functioning as designed. Begin with a brief statement of what the remedy is to accomplish (i.e., to contain contaminant plume, minimize infiltration and gas emission, etc.).
В.	Adequacy of O&M
	Describe issues and observations related to the implementation and scope of O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedy. Due to increased public access to the site, a series of inspections was conducted by PWT, with Army consent. An affachment is included to inclinate wells that were not sacred by a lock.

C.	Early Indicators of Potential Remedy Problems
	Describe issues and observations such as unexpected changes in the cost or scope of O&M or a high frequency of unscheduled repairs, that suggest that the protectiveness of the remedy may be compromised in the future. Now! No feel.
),	Opportunities for Optimization
	Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy. Applying locks to wells to increase security measures.

Well#	Secured?	Well#	Secured?	Well#	Secured?	Well#	Secured?
22001	No	23119	No	25503	No	03002	No *
22007	No	23161	No	25504	No	03005	No *
22015	No	23194	No	25505	No	03008	No *
22049	No	23195	No	25506	No	03012	No *
22072	No	23200	No	36303	No	03013	No *
22504	No	23207	No	36304	No	03014	No *
22505	No	23208	No	36306	No	03015	No *
22506	No	23211	No	36555	No	03016	No *
22508	No	23212	No	36556	No	03503	No *
22512	No	23214	No	36557	No	03523	No *
22008	No	23217	No	36559	No	04020	No *
22009	No	23510	No	36561	No	04021	No *
22035	No	23513	No	36562	No	04024	No *
22043	No	23516	No	36563	No	04029	No *
22045	No	23519	No	36564	No	04038	No *
22053	No	23522	No	36565	No	04040	No *
22056	No	23533	No	36567	No	04076	No *
22057	No	23534	No	36568	No	04080	No *
22059	No	23535	No	36569	No	04082	No *
22061	No	23542	No	36570	No	04525	No *
22062	No	23544	No	36577	No	04528	No *
22063	No	24004	No	36578	No	04535	No *
22064	No	24081	No	19001	NO	27025	No *
22066	No	24117	No	36222	No	27035	No *
22067	No	24171	No	36223	No	27037	No *
22069	No	24179	No	36224	No	27043	No *
22070	No	24180	No	36225	No	27049	No *
22073	No	24185	No	36226	No	27051	No *
22075	No	24506	No	36521	No	27053	No *
22076	No	24509	No	36528	No	27083	No *
22077	No	24512	No	36529	No	28012	No *
22078	No	24515	No	36530	No	28022	No *
22081	No	24518	No	36531	No	28027	No *
22500	No	24521	No	36532	No	28520	No *
22501	No	24522	No	36533	No	33001	No *
22511	No	24523	No	36535	No	33025	Yes
27002	No	24526	No	36536	No	33043	No *
27500	No	24527	No	36537	No	33061	No *
27501	No	24528	No	24529	No	33081	No *
27506	No	27505	No	24530	No	33341	No *
27516	No	27508	No	23029	No	33510	No *
27525	No	27509	No	23040	No	33514	No *
27529	No	27510	No	23182	No	33533	No *
27063	No	27517	No	23199	No	34005	No *
27066	No	27522	No	23227	No	34008	No *
27090	No	27528	No	24080	No	34014	No *
27091	No	27530	No	24108	No	34015	No *
27092	No	27532	No	24124	No	34017	No *
27093	No	27533	No	24158	No	34018	No *

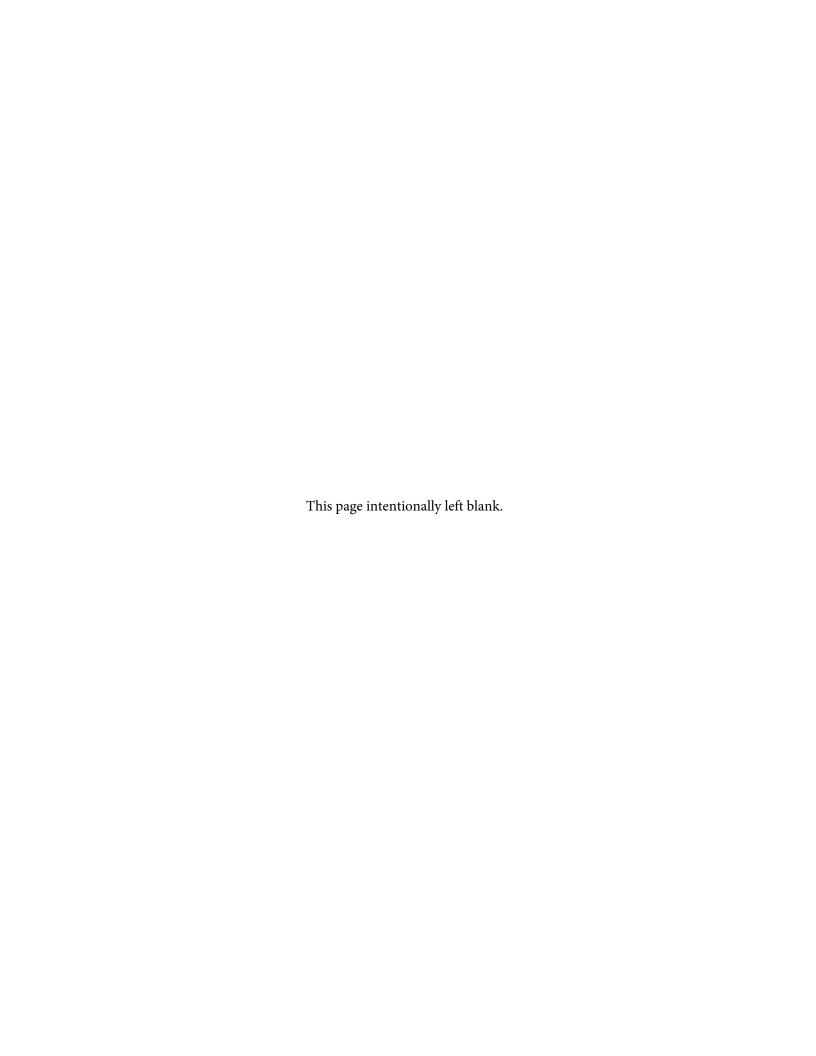
Well #	Secured?
34020	No *
34503	No *
34508	No *
01102	No
01300	No
01534	No
01658	No
01662	No
01663	No
01665	No
01666	No
01667	No
01668	No
01669	No
01670	No
01671	No
02047	No
02047	No
02048	No
02057	No
02065	
35013	No
	No
35083	No
36052	No
36054	No
36092	No
36094	No
36123	No
36157	No
36158	No
36168	No
36169	No
36170	No
36171	No
36181	No
36183	No
36189	No
36201	No
36210	No
36211	No
36212	No
36216	No
36217	No
36218	No
36219	No
36220	No
36221	No
36301	No
36629	No

Well #	Secured?
36630	No
36632	No
36633	No
36911	No
36912	No
36913	No
36087	No
MW-1	No
MW-8	No
36235	No
36236	No
MW-9	No
36240	No
36237	No
36234	No
36233	No
28002	No
28031	No
28521	No
28522	No
34019	No
01067	No
01072	No
01078	No
24187	No
26017	No
26071	No
26160	No
26163	No
35087	No
36112	No
36113	No
36114	No
36142	No
36159	No

* These wells were secured by a nut and bolt. While not intended to prevent human tampering, the method is seemingly very effective in preventing lid removal by Bison.

TAB E

HWL and ELF Leachate Storage and Loadout Facility and Leachate Riser Control House



Please note that "O&M" is referred to throughout this checklist. At sites where Long-Term Response Actions are in progress, O&M activities may be referred to as "system operations" since these sites are not considered to be in the O&M phase while being remediated under the Superfund program.

Five-Year Review Site Inspection Checklist (Template)

(Working document for site inspection. Information may be completed by hand and attached to the Five-Year Review report as supporting documentation of site status. "N/A" refers to "not applicable.")

I. SITE INF	ORMATION
Site name: HWL/ELF LSLF &LCRIT	Date of inspection: 3-24-15
Location and Region:	EPA ID:
Agency, office, or company leading the five-year review:	Weather/temperature: 60's (Acm
Access controls □	Monitored natural attenuation Groundwater containment Vertical barrier walls + 5 torage / Trans fer
Attachments: Inspection team roster attached	☐ Site map attached
II. INTERVIEWS (1. O&M site manager Coyle Lummers Name Interviewed at site at office by phone Phone Problems, suggestions; Report attached	Title Date
Name Interviewed □ at site □ at office □ by phone Phone Problems, suggestions; □ Report attached Not present during in spection	Title Date e no

Agency Env. Protection Agency Contact Grey Hurgreaves Name	RPM	3-24-15	303 \$126
Name Problems; suggestions; □ Report attached			
Agency			
ContactName Problems; suggestions; □ Report attached	Title	Date	Phone no.
Agency			
Name Problems; suggestions; □ Report attached	Title	Date	Phone no.
Agency			
Name Problems; suggestions; □ Report attached		Date	
Other interviews (optional) Report attached			
			*

1.	O&M Documents ☐ O&M manual ☐ As-built drawings ☐ Maintenance logs Remarks	Readily available Readily available Readily available	☐ Up to date☐ Up to date☐ Up to date☐	□ N/A ⊠N/A □ N/A
2.	Site-Specific Health and Safety Plan Contingency plan/emergency response Remarks Not Inspected	☐ Readily available plan ☐ Readily available	The state of the s	□ N/A □ N/A
3.	O&M and OSHA Training Records Remarks Not Inspected	☐ Readily available	☐ Up to date	□ N/A
4.	Permits and Service Agreements ☐ Air discharge permit ☐ Effluent discharge ☐ Waste disposal, POTW ☐ Other permits Remarks	☐ Readily available ☐ Readily available ☐ Readily available ☐ Readily available	☐ Up to date	巡N/A 図N/A 図N/A 図N/A
		dily available □ Up to	date 🔯 N/A	
	Gas Generation Records	dily available □ Up to □ Readily available	o date ☑ N/A	ŽÍN/A
	Gas Generation Records			
	Gas Generation Records Remarks Settlement Monument Records Remarks Groundwater Monitoring Records	☐ Readily available ☐ Readily available ☐ Readily available	□ Up to date	ĕŃN/A
	Gas Generation Records Remarks Settlement Monument Records Remarks Groundwater Monitoring Records Remarks Leachate Extraction Records	☐ Readily available ☐ Readily available ☐ Readily available	☐ Up to date	ØN/A

1.	Implementation and enforcement			
	Site conditions imply ICs not properly implemented			ĎN/A
	Site conditions imply ICs not being fully enforced			N/A
	Type of monitoring (e.g., self-reporting, drive by) Self-reporting	porting by	USFU	of Narar
	Responsible party/agency			
	Contact See Part II			\Rightarrow
	Name Title		Date	Phone no.
	Reporting is up-to-date	ПΥ	s 🗆 No	N/A
	Reports are verified by the lead agency		s \square No	
	repetite the retinion of the feat agency		.5 = 1.10	,
	Specific requirements in deed or decision documents have been	en met	s 🗆 No	ØN/A
	Violations have been reported		s 🗆 No	N/A
	Other problems or suggestions: Report attached			
2.	Adequacy ICs are adequate ICs are Remarks No obvious issues regarding to inspection.	are inadequate	sixed	O N/A during
	Adequacy ICs are adequate ICs and Remarks No obvious issues regarding to inspection.	are inadequate	sisted	D N/A during
D. Ge	General	No vandalis		
2. D. G	Vandalism/trespassing □ Location shown on site map			
D. Go	Vandalism/trespassing □ Location shown on site map Remarks Land use changes on site ☑ N/A			
D. G.	Vandalism/trespassing □ Location shown on site map Remarks Land use changes on site ☑ N/A Remarks Land use changes off site ☑ N/A	No vandalis		
D. G.	Vandalism/trespassing	No vandalis		

	Remarks		
A. 1	VII. LA	NDFILL COVERS	⊠ n/A
1.	Settlement (Low spots) Areal extent		
2.		☐ Location shown on site map dths Depths	•
3.	Erosion Areal extent Remarks	☐ Location shown on site map	☐ Erosion not evident
*	Holes Areal extent Remarks	☐ Location shown on site map Depth	☐ Holes not evident
	☐ Trees/Shrubs (indicate size a	rass	
S	Alternative Cover (armored a		
	Bulges Areal extent Remarks	☐ Location shown on site map Height	☐ Bulges not evident

8.	Wet Areas/Water Dama	ge ☐ Wet areas/water damage n	ot evident
	□ Wet areas	☐ Location shown on site ma	p Areal extent
	☐ Ponding	☐ Location shown on site ma	p Areal extent
	☐ Seeps	☐ Location shown on site ma	p Areal extent
	☐ Soft subgrade Remarks	☐ Location shown on site ma	
9.	Slope Instability Areal extent Remarks		p ☐ No evidence of slope instability
В. Н		cable N/A mounds of earth placed across a steep lavelocity of surface runoff and intercept	
1.	Flows Bypass Bench Remarks	☐ Location shown on site map	D N/A or okay
2.	Bench Breached Remarks	☐ Location shown on site map	□ N/A or okay
3.	would o tottoppen	☐ Location shown on site map	□ N/A or okay
C. L	etdown Channels	n control mats, riprap, grout bags, or gal will allow the runoff water collected by	bions that descend down the steep the benches to move off of the
1.	Areal extent		To evidence of settlement
		☐ Location shown on site map ☐ N Areal extent	o evidence of degradation
2.	Material typeRemarks		

4.		hown on site map th	☐ No evidence of undercutting
5.	Obstructions Type Location shown on site map Size Remarks	Areal exter	
6.	Excessive Vegetative Growth ☐ No evidence of excessive growth ☐ Vegetation in channels does not obstru ☐ Location shown on site map Remarks	Areal exten	.t
D. C	Cover Penetrations Applicable N/A	A	
1.	Gas Vents ☐ Active ☐ Properly secured/locked☐ Functioning ☐ Evidence of leakage at penetration ☐ N/A Remarks_	□ Need	s Maintenance
2.	Gas Monitoring Probes ☐ Properly secured/locked☐ Functioning ☐ Evidence of leakage at penetration Remarks_	□ Need	Is Maintenance □ N/A
	Monitoring Wells (within surface area of ☐ Properly secured/locked☐ Functioning ☐ Evidence of leakage at penetration Remarks_	☐ Routinely sam ☐ Need	
	Leachate Extraction Wells ☐ Properly secured/locked☐ Functioning ☐ Evidence of leakage at penetration Remarks_	☐ Routinely sam	pled ☐ Good condition s Maintenance ☐ N/A
	Settlement Monuments	ated Routin	nely surveyed □ N/A

E.	Gas Collection and Treatment	□ App	licable	N/A	
1.		Thermal destr Needs Mainte		☐ Collection for rea	use
2.	Gas Collection Wells, Man ☐ Good condition ☐ Remarks	Needs Mainte	nance		
3.	Gas Monitoring Facilities (☐ Good condition ☐ Remarks	Needs Mainter			ldings)
F. (Cover Drainage Layer	☐ Appli	cable	⊠N/A	
1.	Outlet Pipes Inspected Remarks	☐ Funct	ioning	□ N/A	
2.	Outlet Rock Inspected Remarks	☐ Funct	ioning	□ N/A	
G. E	Detention/Sedimentation Ponds	□ Appli	cable	₩ N/A	
1.	Siltation Areal extent ☐ Siltation not evident Remarks		Depth		□ N/A
2.	Erosion Areal extent ☐ Erosion not evident Remarks		Dep	th	
3.	Outlet Works	Functioning	□ N/A		
1.	Dam	Functioning	□ N/A		

H.	Retaining Walls	☐ Applicable	N/A	
1.	Deformations Horizontal displacement_ Rotational displacement_ Remarks_		wn on site map Vertical displa	☐ Deformation not evident cement
2.	Degradation Remarks	☐ Location sho	THE COLUMN TWO IS NOT THE PARTY OF THE PARTY	☐ Degradation not evident
I. Po	erimeter Ditches/Off-Site Dis	scharge	☐ Applicable	ĎŃ/A
1.	Siltation ☐ Locat Areal extent Remarks		e map □ Siltation	not evident
2.	Vegetative Growth ☐ Vegetation does not imp Areal extent Remarks		vn on site map	□ N/A
	Areal extent			☐ Erosion not evident
	Discharge Structure Remarks_			
	VIII. VERT	ICAL BARRIE	R WALLS	Applicable N/A
	Settlement [Areal extent_ Remarks_	☐ Location show Depth	n on site map	☐ Settlement not evident
	Performance Monitoring T Performance not monitore Frequenty Head differential Remarks	ed	□ Evide	ence of breaching

	IX. GROUNDWATE	ER/SURFACE WA	TER REMEDIES	☐ Applicable	N/A
A. C	Groundwater Extraction We	lls, Pumps, and Pip	pelines	☐ Applicab	le □ N/A
1.	Pumps, Wellhead Plumb ☐ Good condition Remarks	☐ All required wel	lls properly operating		enance □ N/A
2.	Extraction System Pipel ☐ Good condition Remarks_	☐ Needs Maintena			
3.	Spare Parts and Equipm ☐ Readily available Remarks	\square Good condition	☐ Requires upgra		be provided
B. S.		umps, and Electric	al nce	pplicable 🗆 1	N/A
2.	Remarks	n System Pinelines		es, and Other Ar	nurtenances
		□ Needs Maintena			
3.	Spare Parts and Equipm ☐ Readily available		☐ Requires upgra	de . 🗆 Needs to l	na providad
	Remarks	- Good condition	□ Kequires upgra	de 🗀 iveeds to t	oc provided

C.	Freatment System / MA Applicable N/A Leachafe Collection Storage Transfer
1.	Treatment Train (Check components that apply) ☐ Metals removal ☐ Oil/water separation ☐ Bioremediation ☐ Air stripping ☐ Carbon adsorbers ☐ Filters ☐ Additive (e.g., chelation agent, flocculent)
	□ Others The Rachale May holes on the HwL were inspected. All were functional with no action i tems □ Good condition □ Needs Maintenance □ Sampling ports properly marked and functional □ Sampling/maintenance log displayed and up to date □ Equipment properly identified □ Quantity of groundwater treated annually □ Quantity of surface water treated annually □ Remarks Quantities monitored a recorded pootinely
2.	Electrical Enclosures and Panels (properly rated and functional) □ N/A Good condition □ Needs Maintenance Remarks
3.	Tanks, Vaults, Storage Vessels N/A Remarks Aproper secondary containment Needs Maintenance
	Discharge Structure and Appurtenances
	Treatment Building(s) N/A Good condition (esp. roof and doorways) Chemicals and equipment properly stored - /aheiled Remarks Orderly & clear
	Monitoring Wells (pump and treatment remedy) □ Properly secured/locked□ Functioning □ Routinely sampled □ Good condition □ All required wells located □ Needs Maintenance 🙀 N/A Remarks
). N	Monitoring Data N/A
	Monitoring Data ☐ Is routinely submitted on time ☐ Is of acceptable quality
2.	Monitoring data suggests: ☐ Groundwater plume is effectively contained. ☐ Contaminant concentrations are declining

D.	Monitored Natural Attenuation /U/A
1.	Monitoring Wells (natural attenuation remedy) □ Properly secured/locked □ Functioning □ Routinely sampled □ Good condition □ All required wells located □ Needs Maintenance □ N/A Remarks □
	X. OTHER REMEDIES
	If there are remedies applied at the site which are not covered above, attach an inspection sheet describing the physical nature and condition of any facility associated with the remedy. An example would be soil vapor extraction.
	XI. OVERALL OBSERVATIONS
۸.	Implementation of the Remedy
	Describe issues and observations relating to whether the remedy is effective and functioning as designed. Begin with a brief statement of what the remedy is to accomplish (i.e., to contain contaminant plume, minimize infiltration and gas emission, etc.). This inspection involved observation of the USILF a Lepth facilities. The HULLELF land fills were not included,
3.	Adequacy of O&M
	Describe issues and observations related to the implementation and scope of O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedy. Ohservations: O+M Manager explained leachaft collection 4 storage process + computer screen displays at the leachafte sensors high-level and low level glams. Explained "opset conditions" such as sumplexel, temperature, power ostage, tank levels: capability of remote monitoring via internet. Two eperatures on-call 24 hrs/day for place systems,

C.	Early Indicators of Potential Remedy Problems			
	Describe issues and observations such as unexpected changes in the cost or scope of O&M or a high frequency of unscheduled repairs, that suggest that the protectiveness of the remedy may be compromised in the future.			
).	Opportunities for Optimization			
	Describe possible opportunities for optimization in monitoring tasks or the operation of the remedy.			

Five-Year Review Site Inspection Checklist

(Working document for site inspection. Information may be completed by hand and attached to the Five-Year Review report as supporting documentation of site status. "N/A" refers to "not applicable.")

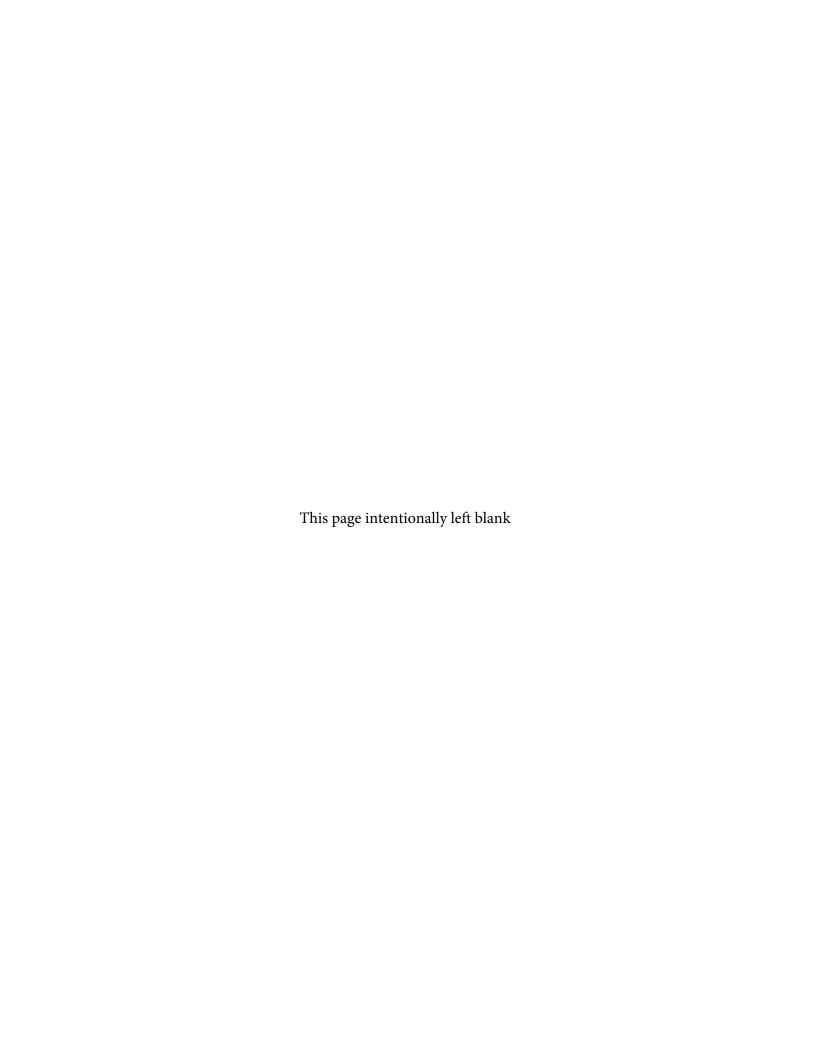
I. SITE IN	FORMATION
Site name: Hazardous Waste Landfill and Enhanced Hazardous Waste Landfill Leachate Storage/Leachate Loadout Facility	Date of inspection:
Location and Region: RMA Region VIII	EPA ID: CO5210020769
Agency, office, or company leading the five-year review: U.S. Army	Weather/temperature: Mild
Access controls	Monitored natural attenuation Groundwater containment Vertical barrier walls hate Collection
Attachments: Inspection team roster attached	Site map attached
II. INTERVIEWS	G (Check all that apply)
1. O&M site manager Golyle Came Name Interviewed: at site at office by phone P Problems, suggestions; Report attached	None no. 720 498-2120
2. O&M staff Nick Alona Name Interviewed: at site at office by phone P. Problems, suggestions; Report attached	hone no. <u>72 0 625-36/9</u>

3.	Local regulatory authorities and response ag office, police department, office of public health deeds, or other city and county offices, etc.) Fil	nealth, zoning office, recorder of		
	Agency Tri-County Health Contact Deanne Kolly Name Problems; suggestions; Report attachedn/a	RMA Weld Sup Title	. 3 24 15 Date	3)439-5909 Phone no.
	Agency CDPHE Contact Yew Voglet Name Problems; suggestions; Report attached no	Engineer Title	3 <u> 24 15</u> Date	303 (92-3)81 Phone no.
	Agency Cros Larganes (KPA) Contact Name Problems; suggestions; Report attached	Title	Date	363 B12 C≪ (Phone no.
 -	Agency Sontine / CDPHE Contact Vince Steward Name Problems; suggestions; Report attached	Title		<u>720-252 - 28</u> 26 Phone no.
4.	Other interviews (optional) Report attached.			
	V. ACCESS AND INSTITUTION	AL CONTROLS A	pplicable) N	/A
1.	Fencing damaged . Location shown on Remarks Bulling Access 9 FWS Law Fuforcement		secured)	N/A
B. Ot	her Access Restrictions			
1.	Signs and other security measures Remarks Bunldungs Constant of the control of	ocation shown on side	mag N/	'A

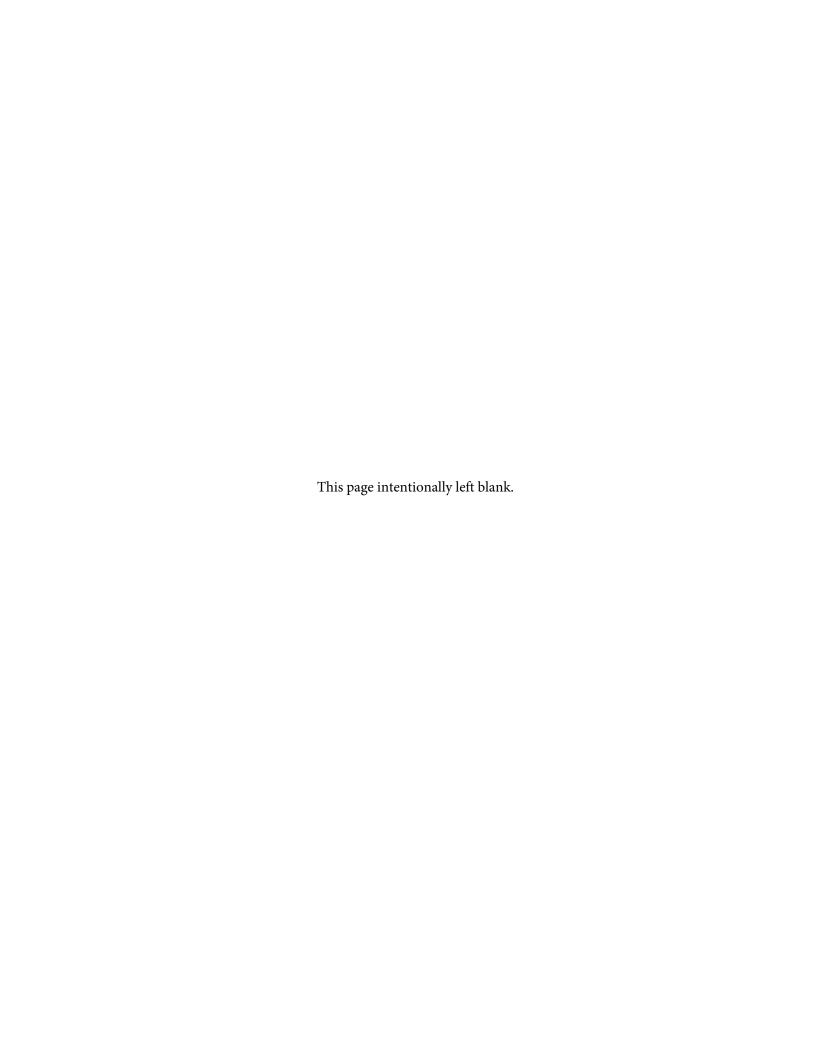
C. Ins	titutional Controls (ICs)				
1.	Implementation and enforcement Site conditions imply ICs not properly implemented Site conditions imply ICs not being fully enforced	Yes Yes	No No	N/A N/A	1
	Type of monitoring (e.g., self-reporting, drive by) Tong., Sur Frequency Continuous Responsible party/agency	mp lei	rel, T	ont.	Leve
	Contact Grence Corners of Secondary Name Title	D	call 1	Phone no	
	Reporting is up-to-date Reports are verified by the lead agency	Yes Yes	No No	N/A N/A	
	Specific requirements in deed or decision documents have been met Violations have been reported Other problems or suggestions: Report attached	Yes Yes	No No	N/A N/A	
:					
2.	Adequacy ICs are adequate ICs are inadequate Remarks		N/A		
D. Gei					_
1.	Vandalism/trespassing Location shown on site map No vand Remarks_	lalism e	vident		
2.	Land use changes on site N/A Remarks			***************************************	
3.	Land use changes off site N/A Remarks				
	VI. GENERAL SITE CONDITIONS				
A. Ro	ads Applicable N/A				
1.	Roads damaged Location shown on site map Roads a Remarks	dequate	> N/A		
B. Otl	ner Site Conditions				
	Remarks				
					
					-

	Least 510
	IX. GROUNDWATER/SURFACE WATER REMEDIES (Applicable) N/A
A. Gre	Applicable N/A
1.	Pumps, Wellhead Plumbing, and Electrical Good condition All required wells properly operating Needs Maintenance N/A Remarks
2.	Extraction System Pipelines, Valves, Valve Boxes, and Other Appurtenances
	Good condition Needs Maintenance Remarks Furned from FLF & HW- to leasthate Collection Blag, & Cravely to Storage Tonks in another blag
عبر 3.	Spare Parts and Equipment
_	Readily available Good condition Requires upgrade Needs to be provided Remarks
	Remarks Stored in Georbatt Storage building
C. Trea	atment System Applicable N/A
1.	Treatment Train (Check components that apply) Metals removal Oil/water separation Bioremediation Air stripping Carbon adsorbers Filters Additive (e.g., chelation agent, flocculent) Others Good condition Needs Maintenance Sampling ports properly marked and functional Sampling/maintenance log displayed and up to date Equipment properly identified Quantity of groundwater treated annually Quantity of surface water treated annually Remarks
2.	N/A Good condition Needs Maintenance Remarks
3.	Tanks, Vaults, Storage Vessels N/A Good condition Proper secondary containment Needs Maintenance Remarks
4.	Discharge Structure and Appurtenances N/A Good condition Needs Maintenance Remarks

Treatment Building(s) N/A Good condition (esp. roof and doorways) Chemicals and equipment properly stored Remarks
Monitoring Wells (pump and treatment remedy) Properly secured/locked Functioning Routinely sampled Good condition All required wells located Needs Maintenance Remarks
XI. OVERALL OBSERVATIONS
Implementation of the Remedy
minimize infiltration and gas emission, etc.).
furthoug as intended
functioning as intended



TAB F BASIN A Neck System



Please note that "O&M" is referred to throughout this checklist. At sites where Long-Term Response Actions are in progress, O&M activities may be referred to as "system operations" since these sites are not considered to be in the O&M phase while being remediated under the Superfund program.

Five-Year Review Site Inspection Checklist (Template)

(Working document for site inspection. Information may be completed by hand and attached to the Five-Year Review report as supporting documentation of site status. "N/A" refers to "not applicable.")

I. SITE IN	FORMATION
Site name: BANS System	Date of inspection: 3-24-15
Location and Region:	EPA ID:
Agency, office, or company leading the five-year review:	Weather/temperature:
☑ Access controls □	Monitored natural attenuation Groundwater containment Vertical barrier walls Active fed Carbon
This position to the contract of the contract	☐ Site map attached
	(Check all that apply)
I. O&M site manager Gayle Lammers Name Interviewed at site □ at office □ by phone Pho Problems, suggestions; □ Report attached	ne no
Name Interviewed A at site □ at office □ by phone Pho Problems, suggestions; □ Report attached	ne no.

Contact Gres Margrea	Agency RPM Title	3-24-15	303 312 60
Name Problems; suggestions; □ Rep	Title oort attached	Date	Phone no.
Agency			
ContactName Problems; suggestions; □ Rep	Title ort attached	Date	
Agency			
ContactName Problems; suggestions; □ Repo	Title ort attached	Date	Phone no.
Agency			
ContactName Problems; suggestions; □ Repo	Title ort attached	Date	
Other interviews (optional)	Report attached.		
			£

0.65	III. ON-SITE DOCUMENTS &			
1.	O&M Documents O&M manual	Readily available	✓ Up to date	CD NI/A
	☐ As-built drawings	☐ Readily available	☐ Up to date	□ N/A □ N/A
	700	Possily available		□ N/A
	Remarks Rid not request	Readily available	155	LI N/A
2.	Site-Specific Health and Safety Plan ☐ Contingency plan/emergency response	☐ Readily available		□ N/A □ N/A
	Remarks Did not request			
3.	O&M and OSHA Training Records Remarks / not request	☐ Readily available	☐ Up to date	□ N/A
4.	Permits and Service Agreements			
	☐ Air discharge permit	☐ Readily available	☐ Up to date	N/A
	☐ Effluent discharge	☐ Readily available	☐ Up to date	N/A
	☐ Waste disposal, POTW	☐ Readily available	☐ Up to date	⋈ N/A
			I I In to data	☑ N/A
	☐ Other permits	_ □ Readily available	☐ Up to date	M N/A
 5.	Remarks	□ Readily available adily available □ Up to		
	Remarks ☐ Records ☐ Records			
5.	Remarks ☐ Records ☐ ReaRemarks ☐ Retilement Monument Records	adily available □ Up to	o date 🔯 N/A	`
5.	Remarks ☐ Records ☐ ReaRemarks ☐ Records Remarks ☐ Records ☐ Re	adily available □ Up to □ Readily available	o date	MN/A
	Gas Generation Records Remarks Settlement Monument Records Remarks Groundwater Monitoring Records Remarks Leachate Extraction Records Remarks Discharge Compliance Records	□ Readily available □ Readily available □ Readily available □ Readily available	o date	MN/A MN/A MN/A
	Gas Generation Records Remarks Settlement Monument Records Remarks Groundwater Monitoring Records Remarks Leachate Extraction Records Remarks Discharge Compliance Records	□ Readily available □ Readily available □ Readily available □ Readily available	□ Up to date □ Up to date □ Up to date	ĬN/A ĬN/A ĬN/A
	Gas Generation Records Remarks Settlement Monument Records Remarks Groundwater Monitoring Records Remarks Leachate Extraction Records Remarks Discharge Compliance Records Air Water (effluent)	□ Readily available □ Readily available □ Readily available □ Readily available	o date	MN/A MN/A MN/A
	Gas Generation Records Remarks Settlement Monument Records Remarks Groundwater Monitoring Records Remarks Leachate Extraction Records Remarks Discharge Compliance Records	□ Readily available □ Readily available □ Readily available □ Readily available	□ Up to date □ Up to date □ Up to date	ĬN/A ĬN/A ĬN/A

1			IV. O&M COSTS	
2.		y in-house ords W/A ole □ Up to conism/agreement in	place	eral Facility
	Original O&M cos			reakdown attached
		Total annual cos	t by year for review p	eriod if available
	PromDate From	To Date To Date To	Total cost Total cost	☐ Breakdown attached ☐ Breakdown attached ☐ Breakdown attached
	Date	Date To Date To Date	Total cost Total cost Total cost	☐ Breakdown attached ☐ Breakdown attached
	Duto			
		Unusually High C reasons: N/A	D&M Costs During I	Review Period
	Unanticipated or Describe costs and	reasons: N/A		Review Period OLS Applicable □ N/A
	Unanticipated or Describe costs and	reasons: N/A		
	Unanticipated or Describe costs and V. ACCES	reasons:	UTIONAL CONTRO	DLS Applicable □ N/A
	Unanticipated or Describe costs and V. ACCES	Decations □ Locations □ Locations □ Locations □ Locations □ Locations	UTIONAL CONTRO	
Fer	V. ACCES Coing Fencing damaged Remarks Fencing Extraction d The Access Restriction	Location Secharge on	shown on site map	DLS Applicable □ N/A

1.	Implementation and enforcement					
	Site conditions imply ICs not properly implemented			□ N/A		
	Site conditions imply ICs not being fully enforced	☐ Yes	No No	□ N/A		
	Type of monitoring (e.g., self-reporting, drive by) Self reporting Frequency	, by	JSFW	& Nava		
	Responsible party/agency			4		
	Contact See Part II					
	Name Title	Date		Phone no.		
	Reporting is up-to-date	□ Yes	□No	MN/A		
	Reports are verified by the lead agency	AND TO BE SEEN	□ No	DIN/A		
	Reports and vermou by the read agency			7		
	Specific requirements in deed or decision documents have been met	☐ Yes	□ No	N/A		
	Violations have been reported	☐ Yes	□ No	XN/A		
	Other problems or suggestions: Report attached					
2.	Adequacy ICs are adequate ICs are inade Remarks No obvious issues regarding in	quate,	obser	N/A		
	Adequacy ICs are adequate ICs are inade Remarks No obvious 15 sees regarding a ducing inspection.	quate,	obser	ta nya		
). G	eneral	quate,		to N/A		
D. Ge	eneral Vandalism/trespassing □ Location shown on site map No v			ta nya		
D. Ge	eneral Vandalism/trespassing □ Location shown on site map Remarks Land use changes on site ☒ N/A			ta NA		
D. Ge	Vandalism/trespassing □ Location shown on site map Remarks Land use changes on site ☒ N/A Remarks Land use changes off site ☒ N/A			ta NyA		
2. Ro	Vandalism/trespassing □ Location shown on site map Remarks Land use changes on site ☒ N/A Remarks Land use changes off site ☒ N/A Remarks VI. GENERAL SITE CONDITIONS			ta N/A		

Α.	VII. LA	NDFILL COVERS	N/A
1.	Settlement (Low spots) Areal extent	☐ Location shown on site map Depth	
2.		☐ Location shown on site map dths Depths	
١.	Erosion Areal extentRemarks	☐ Location shown on site map Depth	
•	Holes Areal extent Remarks	☐ Location shown on site map Depth	
	☐ Trees/Shrubs (indicate size a	irass Cover properly establiand locations on a diagram)	
	Alternative Cover (armored in Remarks		
	Bulges Areal extent Remarks	☐ Location shown on site map Height	☐ Bulges not evident

8.	Wet Areas/Water Damage ☐ Wet areas ☐ Ponding ☐ Seeps ☐ Soft subgrade Remarks	 □ Wet areas/water damag □ Location shown on site 	e map Areal extente map Areal extente map Areal extent
9.	Slope Instability	es	map No evidence of slope instability
В. В	Genches	nds of earth placed across a ste	ep landfill side slope to interrupt the slope cept and convey the runoff to a lined
1.	Flows Bypass Bench Remarks	☐ Location shown on site	map □ N/A or okay
2.	Bench Breached	ocation shown on site map	□ N/A or okay
3.	Bench Overtopped Remarks	☐ Location shown on site	A CONTRACTOR OF THE PROPERTY O
C. L		atrol mats, riprap, grout bags, or allow the runoff water collecte	r gabions that descend down the steep d by the benches to move off of the
1.	Areal extent		□ No evidence of settlement
2.	Material Degradation □ Lo Material type Remarks		
3.	Erosion	Depth	□ No evidence of erosion

4.	Undercutting
5.	Obstructions Type
6.	Excessive Vegetative Growth ☐ No evidence of excessive growth ☐ Vegetation in channels does not obstruct flow ☐ Location shown on site map Areal extent Remarks
D. C	Cover Penetrations Applicable N/A
1.	Gas Vents □ Active □ Passive □ Properly secured/locked□ Functioning □ Routinely sampled □ Good condition □ Evidence of leakage at penetration □ Needs Maintenance □ N/A Remarks
2.	Gas Monitoring Probes □ Properly secured/locked □ Functioning □ Routinely sampled □ Good condition □ Evidence of leakage at penetration □ Needs Maintenance □ N/A Remarks □
1.	Monitoring Wells (within surface area of landfill) □ Properly secured/locked□ Functioning □ Routinely sampled □ Good condition □ Evidence of leakage at penetration □ Needs Maintenance □ N/A Remarks
	Leachate Extraction Wells ☐ Properly secured/locked☐ Functioning ☐ Routinely sampled ☐ Good condition ☐ Evidence of leakage at penetration ☐ Needs Maintenance ☐ N/A Remarks
	Settlement Monuments ☐ Located ☐ Routinely surveyed ☐ N/A Remarks_

E. (Gas Collection and Treatment	□Арр	licable	™N/A	
1.	☐ Good condition ☐	Thermal destr Needs Mainte	enance	☐ Collection for reuse	
2.	Gas Collection Wells, Man ☐ Good condition ☐ Remarks	Needs Mainte	nance		
3.	Gas Monitoring Facilities (☐ Good condition ☐ Remarks_	Needs Mainte	nance		
F. C	over Drainage Layer	☐ Appli	icable	∕X N/A	
1.	Outlet Pipes Inspected Remarks_	☐ Funct		□ N/A	
2.	Outlet Rock Inspected Remarks			□ N/A	
G. D	etention/Sedimentation Ponds	□ Appli	cable	□ N/A	
1.	Siltation Areal extent ☐ Siltation not evident Remarks			□ N/A	
2.	Erosion Areal extend ☐ Erosion not evident Remarks			th	
	Outlet Works Remarks	Functioning	□ N/A		
	Dam	Functioning	□ N/A		

H.	Retaining Walls	☐ Applicable	N/A	
1.	Deformations Horizontal displacement_ Rotational displacement_ Remarks_		n on site map Vertical displa	☐ Deformation not evident cement
2.	Degradation Remarks	☐ Location show		☐ Degradation not evident
I. Pe	erimeter Ditches/Off-Site Dis	charge	☐ Applicable	XN/A
I.	Siltation ☐ Locat Areal extent Remarks	ion shown on site Depth	map Siltation	not evident
2	☐ Vegetation does not imp Areal extent	□ Location shown lede flow □ Type		□ N/A
	Erosion Areal extent Remarks			☐ Erosion not evident
	Discharge Structure Remarks_			
	VIII. VERT	CAL BARRIER	WALLS X	Applicable DN/A
	Settlement Areal extent Remarks Not inspec	Location shown Depth +ed	on site map	☐ Settlement not evident
	Performance Monitoring To Performance not monitore Frequency Head differential Remarks Not inscential	ed		ence of breaching

	IX. GROUNDWATER/SURFACE WATER REMEDIES A Applicable \(\square\) N/A
Α. (roundwater Extraction Wells, Pumps, and Pipelines
1.	Pumps, Wellhead Plumbing, and Electrical Good condition All required wells properly operating Needs, Maintenance N/A Remarks Appear to be functional as intended
2.	Extraction System Pipelines, Valves, Valve Boxes, and Other Appurtenances Good condition Needs Maintenance Remarks Pipelines Duried; other appurtenances appear functional
3.	Spare Parts and Equipment Readily available Good condition Requires upgrade Needs to be provided. Remarks Maintained in BANS Treatment feedlify
B. Si	rface Water Collection Structures, Pumps, and Pipelines
B. S.	rface Water Collection Structures, Pumps, and Pipelines
	rface Water Collection Structures, Pumps, and Pipelines

C.	Treatment System Applicable N/A
1.	Treatment Train (Check components that apply) Metals removal *
2.	Electrical Enclosures and Panels (properly rated and functional) □ N/A
١.	Tanks, Vaults, Storage Vessels □ N/A
	Discharge Structure and Appurtenances N/A Good condition Needs Maintenance Remarks Recharge trenches not inspected in defail
	Treatment Building(s) N/A Good condition (esp. roof and doorways) Chemicals and equipment properly stored - banelled Remarks (lean, free of dehris, plumbing well labeled
2	Monitoring Wells (pump and treatment remedy) ☐ Properly secured/locked☐ Functioning ☐ Routinely sampled ☐ Good condition ☐ All required wells located ☐ Needs Maintenance ☐ N/A Remarks ★ See ★ □
Мо	nitoring Data Nor Inspected
	Monitoring Data ☐ Is routinely submitted on time ☐ Is of acceptable quality
	Monitoring data suggests: ☐ Groundwater plume is effectively contained ☐ Contaminant concentrations are declining

1.	Monitoring Wells (natural attenuation remedy) □ Properly secured/locked□ Functioning □ Routinely sampled □ Good condition □ All required wells located □ Needs Maintenance □ N/A Remarks □
	X. OTHER REMEDIES
	If there are remedies applied at the site which are not covered above, attach an inspection sheet describing the physical nature and condition of any facility associated with the remedy. An example would be soil vapor extraction.
	XI. OVERALL OBSERVATIONS
١.	Implementation of the Remedy
	Describe issues and observations relating to whether the remedy is effective and functioning as designed. Begin with a brief statement of what the remedy is to accomplish (i.e., to contain contaminant plume, minimize infiltration and gas emission, etc.). The inspection of the BANS involved observation at the treatment plant as well as the extraction and recharge systems the Bedrock Ridge extractions ystem, and time Basins Area Project. Inspections conducted 03-24 to 04-23- The ported performance was a quality well 35516. The outer easing lockable lid was observed not
В.	Adequacy of O&M
	Describe issues and observations related to the implementation and scope of O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedy. Observations: Cime Basins Melering Station has rodent issue (mice dreppings, carcass). Lime Basins DNAPL monitoring well 36633 inspected: the lockable byter easing lid is not secured.

O&M or a high nay be
f the remedy.

Five-Year Review Site Inspection Checklist

(Working document for site inspection. Information may be completed by hand and attached to the Five-Year Review report as supporting documentation of site status. "N/A" refers to "not applicable.")

I. SITE INF	ORMATION	
Site name: Basin A Neck Containment System/Bedrock Ridge Extraction System/Lime Basins Dewatering System	Date of inspection: 3/24/15	
Location and Region; RMA Region VIII	EPA ID: CO5210020769	
Agency, office, or company leading the five-year review: U.S. Army	Weather/temperature: Mild	
Access controls Gr	conitored natural attenuation roundwater containment ertical barrier walls	
Attachments: Inspection team roster attached	Site map attached	
	(Check all that apply)	
1. O&M site manager	one no. 720 498-2120 cell	
2. O&M staff Nch Adam Name Interviewed: at site at office by phone Pho Problems, suggestions; Report attached	one no.	

3.	Local regulatory authorities and response agencies (i.e., State and Tribal offices, emergency response office, police department, office of public health or environmental health, zoning office, recorder of deeds, or other city and county offices, etc.) Fill in all that apply.
	Agency Tri-County Health Contact Deanne Kelly pm Weld Sup. 3/24/15 3/439-5909 Name Title Date Phone no. Problems; suggestions; Report attached n/a
	Agency DPHE Contact Yew Voglet Every 324/15 303 692-3)82 Name Name Problems; suggestions; Report attached newe
	Agency Cres Largare & (RPA) Contact Name Title Date Phone no. Problems; suggestions; Report attached
	Agency Sentine / CDPHE Contact Vince Steward Title Date Phone no. Problems; suggestions; Report attached
4.	Other interviews (optional) Report attached.
	V. ACCESS AND INSTITUTIONAL CONTROLS Applicable N/A
A. Fo	encing
1.	Fencing damaged Location shown op site map Gates secured N/A Remarks up good Condition
B. O	ther Access Restrictions
1.	Signs and other security measures Location shown on site map N/A Remarks required

C.	nstitutional Controls (ICs)	
1.	Implementation and enforcement Site conditions imply ICs not properly implemented Site conditions imply ICs not being fully enforced Yes No N/A N/A	
	Type of monitoring (e.g., self-reporting drive by) Frequency	
	Responsible party/agencyContact	
	Name Title Date Phone no.	
	Reporting is up-to-date Reports are verified by the lead agency Yes No N/A Yes No N/A Yes No N/A	
	Specific requirements in deed or decision documents have been met Violations have been reported Other problems or suggestions: Report attached Yes No N/A	
2.	Adequacy ICs are inadequate N/A Remarks	
D.	eneral	
1.	Vandalism/trespassing Location shown on site map No vandalism evident Remarks	
2.	Land use changes on site N/A Remarks	
3.	Land use changes off site N/A Remarks	
	VI. GENERAL SITE CONDITIONS	•
A.	oads Applicable N/A	
1.	Roads damaged Location shown on site map Roads adequate N/A Remarks	
В.	ther Site Conditions	
	Remarks	

	IX. GROUNDWATER/SURFACE WATER REMEDIES (Applicable N/A
A.	Groundwater Extraction Wells, Pumps, and Pipelines Applicable N/A
1.	Pumps, Wellhead Plumbing, and Electrical Good condition All required wells properly operating Needs Maintenance N/A Remarks
2.	Extraction System Pipelines, Valves, Valve Boxes, and Other Appurtenances Good condition Needs Maintenance Remarks
3.	Spare Parts and Equipment Readily available Good condition Requires upgrade Needs to be provided. Remarks 7 influsions functions from the function for the function of the f
C.	Treatment System Applicable N/A
1.	Treatment Train (Cbeck components that apply) Metals removal Oil/water separation Bioremediation Air stripping Carbon adsorbers Filters Additive (e.g., chelation agent, flocculent) Others Good condition Needs Maintenance Sampling ports properly marked and functional Sampling/maintenance log displayed and up to date Equipment properly identified Quantity of groundwater treated annually Quantity of surface water treated annually Remarks
2.	Electrical Enclosures and Panels (properly rated and functional) N/A Good condition Needs Maintenance Remarks
3.	Tanks, Vaults, Storage Vessels N/A Good condition Proper secondary containment Needs Maintenance Remarks
4.	Discharge Structure and Appurtenances N/A Good condition Needs Maintenance Remarks

5.	Treatment Building(s) N/A Good condition (esp. roof and doorways) Needs repair Chemicals and equipment properly stored Remarks
6.	Monitoring Wells (pump and treatment remedy) Properly secured/locked Functioning Routinely sampled Good condition All required wells located Needs Maintenance N/A Remarks
	XI. OVERALL OBSERVATIONS
A.	Implementation of the Remedy
	Describe issues and observations relating to whether the remedy is effective and functioning as designed. Begin with a brief statement of what the remedy is to accomplish (i.e., to contain contaminant plume, minimize infiltration and gas emission, etc.). Junctioning or juntered
В.	Adequacy of O&M
	Describe issues and observations related to the implementation and scope of O&M procedures. In particular, discuss their relationship to the current and long-term protectiveness of the remedy. Left of wanthows and roof cause and your configurations concluded.

