

Gude Landfill Remediation Design Comments on Revised 60% Design				Compiled By (Entity): NMWDA/Montgomery County Compiled By (Staff): A.Kays / J.Foster Date: 3/16/2020	
Item	Page No. / Sheet No. / Location		Commenter	Comment	Response
Revised 60% - Basis of Design - Report Body					
1	---	Pg. 8/2.4/last paragraph	NMWDA & County	is this inclusive of the additional sampling performed for the potential DDMA?	No. The additional sampling was specific to the EDMA, which has been removed from the design.
2	---	Pg. 22/4.7.7/first paragraph	NMWDA & County	note that the vacuum is now at 90 inches	Noted. The text was discussing typical landfill gas collection systems, not Gude specifically. Additional text has been added to clarify.
3	---	Pg. 23/4.7.7/first paragraph	NMWDA & County	should we include the MDE notification (correspondence)?	Please provide correspondence so that it may be appropriately referenced.
4	---	Pg. 31/7/third and fourth paragraphs	NMWDA & County	insert a space between the paragraphs	Revised as noted.
5	---	Pg. 33/References	NMWDA & County	Add the MDE stormwater requirements as a reference	The MDE Stormwater Requirements were added as a reference.
6	---	Pg. 2, Sect. 1.1. Last sentence.	NMWDA & County	Delete "that may lead to". Replace with "to prevent lower explosive limit exceedances for methane gas."	Revised as noted.
7	---	Pg. 7, Sect. 2.2. First sentence.	NMWDA & County	Notes the May/June Wallace Montgomery site survey. Is this the base mapping for the EA Design Engineer Work? If so, this should be stated. Is EA planning to perform another site survey to update the base mapping before the 100% Design to account for any potential settlement that occurred over the last 2 years?	This is the survey used for the base mapping for the design. Text was added to clarify that the survey was used as the base mapping in the design. The potential for settlement is being addressed as part of the 90% design, including determination of the need for additional survey.
8	---	Pg. 13, Sect. 4.1.	NMWDA & County	First sentence. After "office trailers", add "owner's and construction management engineer's trailer(s)." Line 6. After "contractor's", add "owner's".	Revised as noted, with the exception that the owner's and construction management engineer's trailer is singular based on discussion that occurred in Progress Meeting No. 25.
9	---	Pg. 13, Sect. 4.1.	NMWDA & County	Line 8. Regarding the use of the existing concrete pad, it should be noted that the Contractor will need to make improvements to this area for stormwater management and to prevent E&S migration from any disturbed areas surrounding the pad at higher elevations.	The following statement was added "The contractor will need to perform improvements to the area to remove low spots where water currently ponds and provide necessary erosion and sediment controls for the area." and further direction for the area has been added to the Contract Drawings.
10	---	Pg. 13, Sect. 4.2. 4th para., 1st sentence	NMWDA & County	After "Landfill", update text "to improve existing topographic contours to promote positive drainage. The relocated waste will be used for regrading activities to achieve initial subgrade elevations. Areas with waste placement will be compacted and covered with a minimum of 1 foot of cover soil, prior to placement of the closure cap.	Revised text to "to increase the slope of the ground surface to promote positive drainage. The relocated waste will be used for regrading activities to achieve initial subgrade elevations. Areas with waste placement will be compacted and covered with a minimum of 1 foot of cover soil, prior to placement of the closure cap."

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11	---	Pg. 15, Sect. 4.3. 2nd para., 1st sentence	NMWDA & County	Provide an example [in-text] of how the Contractor can have flexibility to adjust phase limits within the 20-acre grading unit.	The approach for the phasing has changed and the sentence has been removed.
12	---	Pg. 15, Sect. 4.4.	NMWDA & County	Include the identification and handling of cover soil above the waste for stripping, municipal waste, and unusual waste materials. This is from 02 61 13.13.	Specification and reference to cover soil, waste, and unusual waste added.
13	---	Pg. 17, Sect. 4.5.1.6	NMWDA & County	Highlight as the County may want to make a decision prior to the 100% Design to avoid any potential conflicts.	This is currently an optional bid item, but can be discussed further prior to the 100% design.
14	---	Pg. 21, Sect. 4.7.4	NMWDA & County	Radius of influence for LFG extraction wells is typically calculated based on the depth of the EW, which then influences EW spacing. Instead, a different method is being used.	We initially used two methods and chose a conservative spacing. However, the calculation has been updated based on depths of all the existing and proposed wells.
15	---	Pg. 21, Sect. 4.7.5. 2nd para.	NMWDA & County	LFG collection piping is targeting a minimum 1% slope. Typically, LFG collection and conveyance is targeted higher at 3% slope to account for sagging or settlement. This was a historic problem at the site. (<i>related to Comment #21</i>)	Agree, but due to the final grades, 3% can not be achieved in all/most cases. Additional condensate drains have been added to compensate. The minimum slope has been revised to range from 1 to 3%.
16	---	Pg. 22, Sect. 4.7.6	NMWDA & County	Per MDE comment, EA should evaluate the capture of condensate in the 90% design to compare against the reintroduction back into the Landfill. Per MDE comment, EA should evaluate the potential for additional landfill gas generation with the reintroduction of condensate.	Per the minutes, it was discussed that EA will review the condensate drain locations along with the landfill gas extraction well locations to ensure there is sufficient coverage to capture landfill gas. EA has performed a review and has included discussion in the BOD Report.
17	---	Pg. 22 and 23, Sect. 4.7.7	NMWDA & County	The inclusion of Variable Frequency Drives (VFDs) should be considered for the Blower Flare Station to provide consistent control of vacuum on the well field. If these improvements have not been previously completed by APTIM. Coordinate this comment with 33 51 10 and 33 51 11.	The County is currently in the process of contracting their LFG contractor to install new VFDs. Text has been added to reflect VFDs.
18	---	Pg. 19/ 4.7.2	NMWDA & County	LandGEM projects LFG production at 50% methane content, however LFG collected from the landfill is closer to 35%. Please confirm your assumptions/parameters.	The average methane content of the wells selected for reuse range from 30 percent to 50 percent. The methane content of new wells is unknown. However, the methane content assumption 35 versus 50%, does not affect the volume of landfill gas generated from the landfill required for sizing the system. Additional text regarding the gas quality has been added.

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19	---	Pg. 19 4.7.2	NMWDA & County	An evaluation of the existing collection system should be performed to determine the collection efficiency, rather than assuming 75%. This will have a significant impact on future expected gas collection. Please address.	The existing efficiency is not relevant since a geosynthetic cap and a new landfill gas collection system is to be installed. Text was added to clarify.
20	---	Pg. 21/ 4.7.4	NMWDA & County	Radius of influence for new wells was calculated based on the number of wells proposed to be installed. Industry standard practice for determining radius of influence is based on well depth, and this should be reconsidered.	Radius of influence was calculated two different ways. Calculations have been updated for the 90% design.
21	---	Pg. 21/ 4.7.5	NMWDA & County	Industry standard practice is for buried piping within landfill limits to have a minimum of 3% slope to help account for landfill settlement over time. Slopes less than this are likely to become clogged with non-draining condensate. Please address. <i>(related to Comment #15)</i>	See prior response to #15.
22	---	Pg. 22/ 4.7.6	NMWDA & County	Since the existing system is operating with 3 condensate drains a conversion to 32 drains seems excessive. Piping configurations should be considered to minimize condensate drains. Please address and ensure the technical memo incorporates this response.	See prior response to #15; additional text was also added to explain why 32 condensate drains are proposed. The existing system is above grade where pipes are able to be physically elevated to accommodate areas where the exiting grade is less than 3%, which will not be able to be addressed other than with additional below grade condensate management.

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1	1	1/Attachment G	NMWDA & County	change 'Bid' to 'Procurement'	Revised as noted.
2	1	1/Attachment H	NMWDA & County	change name for the Recycling and Resource Management Division	The name was updated in the revised report dated February 2020.
3	1	1/Attachment M	NMWDA & County	change name for the Recycling and Resource Management Division	Revised as noted.
4	1.2.2	2/Attachment M	NMWDA & County	Second paragraph, what about the passive reuses that will be included in the 90% and 100%?	The passive land reuses have been added to the Post-Closure Plan.
5	1.3.2	2/Attachment M	NMWDA & County	Groundwater Monitoring. Has there been an update to the plan?	This has been updated to reflect the most recent revision.
6	App. B	Attachment M	NMWDA & County	Add a sign-off for the Section Chief	This will be added prior to the 100% design submission.
7	---	Attachment F. LFG.	NMWDA & County	Pg. 2, Sect. 3.2, update per vacuum 40-80 inches (BOD Sect. 4.7.7). The BOD notes 116 existing extraction wells: 66 EW to remain, 50 EW to abandon, and 20 EW new. 116 vs. 86 Ews total in the new design. Does Attachment F need to be updated? Review LFG EW spacing and in conjunction with MDE comment about reintroduction of condensate to dry areas.	Attachment F has been updated to reflect more representative vacuum data. The LFG EW spacing was revisited during the 90% design.
8	---	Attachment G. Permits.	NMWDA & County	Update for County DPS Floodplain. DPS Sediment Control Plan - potentially consider presenting a protected soil stockpile.	Text has been updated to reflect the additional Floodplain requirements and the details of the submission/approval will be provided in the 100% submission.
9	---	Attachment H. SWM	NMWDA & County	Update for recent SWM Concept Submissions.	The updated approved submission has been included.
10	---	Attachment K. LFG.	NMWDA & County	Review Radius of Influence calculations and EW spacing/count based on BOD comments.	Updated calculations have been included.
11	---	Attachment M. PC Care.	NMWDA & County	Sect. 1.2.1 , 1.2.2, and 1.5.9 - Update for Passive Land Use maintenance.	The passive land reuses have been added to the Post-Closure Plan.
12	---	Attachment M. PC Care.	NMWDA & County	Sect. 1.3. Updated Groundwater/Surface water and Landfill Gas Monitoring Plans will likely be required. Updated SWPPP Plan be or may not be applicable under the new landfill closure.	The most recent GW&SWMP revision has been referenced, as well as "all MDE-approved updates". A SWPPP is not applicable under the new landfill closure.
13	---	Attachment M. PC Care.	NMWDA & County	Sect. 1.5.6. Aside from Groundwater Monitoring, add Landfill Gas Monitoring System. Also include Stormwater Management System.	Sections have been added to address the Landfill Gas Monitoring System and the Stormwater Management System.

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14	---	Attachment K (Sheet 1 of 2, 1/7/2020)	NMWDA & County	Radius of influence ("R") calculations are incorrectly applied. The calculation does not come from the reference section of the document. This calculation determines the radius of influence that is needed to get a pre-determined flow from a well, not an expected radius of influence for a well with unknown flow. Please confirm "R" values in the landfill gas calculations in Appendix K.
				These calculations have been updated in Appendix K.

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1	Section 1	Security Features	NMWDA & County	add note in the specifications for the Contractor to establish a secure server access point for the County to monitor the video.	A Site Security specification has been drafted and will be included in the 100% design submission and will include the recommended requirement.
2	Section 2	Security Features	NMWDA & County	recommend 180 days storage for the video captured at the security fences	A Site Security specification has been drafted and will be included in the 100% design submission and will include the recommended requirement.
3	---	Cost Estimate - General Comment	NMWDA & County	Is Prime General Contractor Mark-up on everything built into the unit prices?	Contractor mark-ups are included in the unit prices.
4	---	Cost Estimate - General Comment	NMWDA & County	Where is traffic control/MOT included?	The cost associated with the traffic control/MOT are included in the Mobilization and Bonding and are expected to be minimal.
5	---	Item 1 - Mobilization and Site Preparation	NMWDA & County	How many office trailers are currently included two (Contractor and Owner/CME) or three (Contractor, Owner, and CME)?	The 90% design submission has been prepared based on two office trailers, per Progress Meeting No. 25.
6	---	Item 1 - Mobilization and Site Preparation	NMWDA & County	Is the Security Features intended to be permanent fixtures to remain after construction is completed for County use? Will we have County specifications for the system? Or should this be added into Item 8 as a separate line item cost?	Per Progress Meeting No. 25, the security features are to be permanent for County use. Vicky Wan provided guidance regarding site surveillance. Additional coordination will be made prior to the 100% design submission.
7	---	Item 1 - Mobilization and Site Preparation	NMWDA & County	Removal of existing LFG piping, chain-link fence, storm drains, storm drain structures, condensate/dewatering sumps, condensate traps/drains - appear somewhat low on the unit prices.	Noted. The unit prices and quantities were re-evaluated as part of the 90% design submission.
8	---	Item 1 - Mobilization and Site Preparation	NMWDA & County	Demolition and disposal of existing structures - appears low on the quantity.	Noted. The unit prices and quantities were re-evaluated as part of the 90% design submission.
9	---	Item 2 - Waste Relocation and Subgrade Preparation	NMWDA & County	Environmental Controls is essentially \$125K a year (say over 4-years). Do you feel that is a realistic amount?	Noted. The unit prices and quantities were re-evaluated as part of the 90% design submission.
10	---	Item 2 - Waste Relocation and Subgrade Preparation	NMWDA & County	Mowing - the frequency (2 times) appears low over a 4+ year construction project. Unless the County's Property Maintenance Contractor will be performing at some interval.	Noted. The unit prices and quantities were re-evaluated as part of the 90% design submission.
11	---	Item 3 - E&S Control	NMWDA & County	Is street sweeping included in this line item?	Street sweeping has been added.

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12	---	Item 5 - LFG Collection	NMWDA & County	Update: abandonment of EW (50), condensate drains (32), new LFG EW is OK (20 @ \$5k = \$100k). Tie-in to existing header - appears low (will a contractor assign a \$1,500 value to any type of line item for this project)?	Noted. The unit prices and quantities were re-evaluated as part of the 90% design submission.
13	---	Item 7 - Roads	NMWDA & County	Does the \$25 unit price include access road preparation, furnish and install the geotextile and gravel, and final grading? If so, this unit price appears low.	Noted. The unit prices and quantities were re-evaluated as part of the 90% design submission.
14	---	Item 8 - Site Restoration and Demobilization	NMWDA & County	Recreational Land Uses is \$2M in FTLA's 60% detailed estimate. In the EA Revised 60%, recreational land uses is \$2.14M as a lump sum estimate. Have the cost line items been correlated between the estimates?	The individual cost items for the Recreational Land Uses have been updated as part of the 90% design submission.

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1	---	C-503/Mon. Well Protection Detail	NMWDA & County	Note for Jamie and Andrew's comment. EA to confirm no monitoring well protection is through the cap. Consider other alternatives (fencing, flagging, etc.). <i>(related to Comment #70)</i>	Monitoring wells are located outside of the cap.
2	---	2/G-002/Abbreviations	NMWDA & County	define 'SC/SM' (G-003)	Revised as noted.
3	---	2/G-002/Abbreviations	NMWDA & County	Add Condensate Drain (CD)	Revised as noted.
4	---	2/G-002/Abbreviations	NMWDA & County	Add R/W (C-110)	Revised as noted.
5	---	2/G-002/Abbreviations	NMWDA & County	Add LOI (C-167)	Revised as noted.
6	---	2/G-002/Abbreviations	NMWDA & County	Add POI (C-167)	Revised as noted.
7	---	2/G-002/Legend	NMWDA & County	Add Condensate Drain (C-173)	Revised as noted.
8	---	2/G-002/Legend	NMWDA & County	add 'TYP' for the Storm Drain Structure Label (C-105)	Revised as noted.
9	---	2/G-002/Legend	NMWDA & County	Add 'Monitoring Well' (MW) to the Legend (C-102)	Revised as noted.
10	---	2/G-002/Legend	NMWDA & County	Add 'Monitoring Well' (OB) to the Legend (C-102)	Revised as noted.
11	---	2/G-002/Legend	NMWDA & County	Add 'Well' (W) to the Legend (C-103)	Revised as noted.
12	---	2/G-002/Legend	NMWDA & County	Add LOI to the Legend (C-167)	Revised as noted.
13	---	2/G-002/Legend	NMWDA & County	Add POI to the Legend (C-167)	Revised as noted.
14	2.E	3/G-003/Standard Erosion and Sediment Control Notes	NMWDA & County	add evidence of street sweeping contract or equipment to the RFP	Street sweeping is identified as part of Section 01 57 19 Temporary Environmental Controls.
15	14	3/G-003/Standard Erosion and Sediment Control Notes	NMWDA & County	is this needed?	These are standard notes from DPS and will not be altered.
16	25	3/G-003/Standard Erosion and Sediment Control Notes	NMWDA & County	add 'and CME' after 'by DPS'	Coordination between the Contractor, CME, and DPS inspector is clarified in the sequence of construction.

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17	J	3/G-003/Standard Erosion and Sediment Control Notes	NMWDA & County	what does 'and left in a slightly condition...' mean?	This section has been deleted in the 90% design submission due to the removal of the stormwater management pond.
18	7	4/C-101/Ex. Conditions Key Sheet	NMWDA & County	C-504 is not in the set	All sheets have been included and references updated.
19	10	4/C-101/Ex. Conditions Key Sheet	NMWDA & County	C-510 Sheet title and item do not match	All sheets have been included and references updated.
20	10	4/C-101/Ex. Conditions Key Sheet	NMWDA & County	C-511 is not in the set	All sheets have been included and references updated.
21	11	4/C-101/Ex. Conditions Key Sheet	NMWDA & County	C-513 is not in the set	All sheets have been included and references updated.
22	---	5/C-102/Ex. Conditions Plan	NMWDA & County	add OB and MW to the Legend (G-002)	Revised as noted.
23	---	6/C-103/Ex. Conditions Plan	NMWDA & County	add W to the Legend (G-002)	Revised as noted.
24	---	13/C-110/Ex. Conditions Plan	NMWDA & County	add R/W to Abbreviations	Revised as noted.
25	8	15/C-112/Initial Erosion and Sediment Control Plan-Key Sheet	NMWDA & County	C-504 is not in the set	All sheets have been included and references updated.
26	11	15/C-112/Initial Erosion and Sediment Control Plan-Key Sheet	NMWDA & County	C-510 Sheet title and item do not match	All sheets have been included and references updated.
27	11	15/C-112/Initial Erosion and Sediment Control Plan-Key Sheet	NMWDA & County	C-511 is not in the set	All sheets have been included and references updated.
28	12	15/C-112/Initial Erosion and Sediment Control Plan-Key Sheet	NMWDA & County	C-513 is not in the set	All sheets have been included and references updated.
29	---	25/C-122/Initial Erosion and Sediment Control Plan	NMWDA & County	For the table, add a column and reference the sheets where the structures appear	The structures are clearly marked in plan view and it is intended that you refer to the table to get information about the structure identified in plan view. The table is not intended to be used to find the structures in the plan view. No change made.
30	8	26/C-123/Demolition and Excavation Plan-Key Sheet	NMWDA & County	C-504 is not in the set	All sheets have been included and references updated.
31	11	26/C-123/Demolition and Excavation Plan-Key Sheet	NMWDA & County	C-510 Sheet title and item do not match	All sheets have been included and references updated.

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32	11	26/C-123/Demolition and Excavation Plan-Key Sheet	NMWDA & County	C-511 is not in the set	All sheets have been included and references updated.
33	12	26/C-123/Demolition and Excavation Plan-Key Sheet	NMWDA & County	C-513 is not in the set	All sheets have been included and references updated.
34	8	37/C-134/Subgrade Grading Plan-Key Sheet	NMWDA & County	C-504 is not in the set	All sheets have been included and references updated.
35	11	37/C-134/Subgrade Grading Plan-Key Sheet	NMWDA & County	C-510 Sheet title and item do not match	All sheets have been included and references updated.
36	11	37/C-134/Subgrade Grading Plan-Key Sheet	NMWDA & County	C-511 is not in the set	All sheets have been included and references updated.
37	12	37/C-134/Subgrade Grading Plan-Key Sheet	NMWDA & County	C-513 is not in the set	All sheets have been included and references updated.
38	8	48/C-145/Initial Erosion and Sediment Control Plan-Key Sheet	NMWDA & County	C-504 is not in the set	All sheets have been included and references updated.
39	11	48/C-145/Initial Erosion and Sediment Control Plan-Key Sheet	NMWDA & County	C-510 Sheet title and item do not match	All sheets have been included and references updated.
40	11	48/C-145/Initial Erosion and Sediment Control Plan-Key Sheet	NMWDA & County	C-511 is not in the set	All sheets have been included and references updated.
41	12	48/C-145/Initial Erosion and Sediment Control Plan-Key Sheet	NMWDA & County	C-513 is not in the set	All sheets have been included and references updated.
42	8	59/C-156/Final Grading Plan-Key Sheet	NMWDA & County	C-504 is not in the set	All sheets have been included and references updated.
43	11	59/C-156/Final Grading Plan-Key Sheet	NMWDA & County	C-510 Sheet title and item do not match	All sheets have been included and references updated.
44	11	59/C-156/Final Grading Plan-Key Sheet	NMWDA & County	C-511 is not in the set	All sheets have been included and references updated.
45	12	59/C-156/Final Grading Plan-Key Sheet	NMWDA & County	C-513 is not in the set	All sheets have been included and references updated.
46	8	74/C-171/Landfill Gas Management Plan-Key Sheet	NMWDA & County	C-504 is not in the set	All sheets have been included and references updated.
47	11	74/C-171/Landfill Gas Management Plan-Key Sheet	NMWDA & County	C-510 Sheet title and item do not match	All sheets have been included and references updated.

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48	11	74/C-171/Landfill Gas Management Plan-Key Sheet	NMWDA & County	C-511 is not in the set	All sheets have been included and references updated.
49	12	74/C-171/Landfill Gas Management Plan-Key Sheet	NMWDA & County	C-513 is not in the set	All sheets have been included and references updated.
50	---	91/C-501/Detail Index Sheet	NMWDA & County	listing of the Landfill Gas Details Index does not include 'Existing Remote Landfill Gas Extraction Well to be Abandoned	Noted. The detail has been added to the list.
51	---	92/C-502/Site Details	NMWDA & County	Is the fencing detail for off-site only (as the beneficial uses will be incorporated at 90%)	The details are for the perimeter fence that will be off of the cap. Fences associated with the beneficial land use elements are included as part of the landscape plans.
52	---	93/C-503/Site Details	NMWDA & County	Are there bollards on the waste mass or are all bollards offsite? If on-site, was the 4-feet considered in the grading?	Bollards are to protect monitoring wells located outside of the limit of the cap.
53	---	97/C-507/Excavation/Grading Details	NMWDA & County	recommend label requirement for the settlement plate detail to include number, northing and easting, elevation at the surface, date of installation (month and year)	Added to specification. Label will include settlement plate identifier and date of installation.
54	---	100/C-510/Storm drain Details	NMWDA & County	referred to as 'Drainage Details' on sheets: C-171, C-156, C-145, C-134, C-123, C-112	References were revised to match the drawing title.
55	B-4	105/C-515/Initial Erosion and Sediment Control Details	NMWDA & County	Adequate Vegetative Establishment: what is the means of measurement for the percentage of the growth of groundcover?	The inspector performs a visual inspection.
56	B-4-2-A-2.e.	105/C-515/Initial Erosion and Sediment Control Details	NMWDA & County	what is the timeline for determining what "new" means	This is MDE standard language and is not anticipated to cause confusion with the Contractor.
57	B-4-2-C-2.	105/C-515/Initial Erosion and Sediment Control Details	NMWDA & County	Should manure even be considered at this point due to odor mitigation concerns	This is MDE standard language and requires prior approval by the CME.
58	B-4-3-A-1-a.	105/C-515/Initial Erosion and Sediment Control Details	NMWDA & County	Where is Table B-4?	Reference to the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control has been added to clarify where this standard table (quality of seed) can be found

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59	B-4-3-A-2-a.i	105/C-515/Initial Erosion and Sediment Control Details	NMWDA & County Where is Table B-3?	Reference to the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control has been added to clarify where this standard table (permanent seeding) can be found.
60	B-4-4.1.	105/C-515/Initial Erosion and Sediment Control Details	NMWDA & County Where is Table B-1?	Reference to the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control has been added to clarify where this standard table (temporary seeding) can be found.
61	B-4-5.A.1.a.	105/C-515/Initial Erosion and Sediment Control Details	NMWDA & County Where are Tables B-2 and B-3? Where is Figure B-3?	Reference to the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control has been added to clarify where this standard table (Recommended Permanent Seed Mixture by Site Condition or Purpose)and figure (USDA Plant Hardiness Zones) can be found.
62	B-4-3	105/C-515/Initial Erosion and Sediment Control Details	NMWDA & County Numbering seems to pick-up from the previous section	The numbering has been revised [looks like B-4-8]
63	B-4-3.(5)	105/C-515/Initial Erosion and Sediment Control Details	NMWDA & County Where is Section B-3?	Reference to the 2011 Maryland Standards and Specifications for Soil Erosion and Sediment Control has been added to clarify the location of Section B-3 Land Grading.
64	Existing Landfill Gas Extraction Well Modification-Extend	106/C-516/Landfill Gas Details	NMWDA & County What does POE backfill mean?	Note revised to "Place backfill soil by hand in maximum 8-in lifts and mechanically tamp."
65	Proposed Condensate Drain Schedule	107/C-517/Landfill Gas Details	NMWDA & County For this table, where is the elevation measured from?	The elevations have been clarified.
66	---	109/C-519/Landfill Gas Details	NMWDA & County consider break-out of the tables and label the tables	Tables are broken out and labeled by modified, abandoned, and proposed. Additional tables were not created.
67	---	Entire Drawing Set. Global Comment.	NMWDA & County Label or Number Details. Will this occur in the 90% Design?	This is currently being considered for the 100% design in order to minimize effort associated with renumbering.

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68	---	Phase Drawings. Global Comment.	NMWDA & County	Create Drawing Sheets that present entirety of Phase Work (discussed in 30% Design and recent EA Progress Meeting No. 24).	Additional drawings related to phasing and erosion and sediment control were added as part of the 90% design submission.
69	---	Sheet G-002	NMWDA & County	Summary of Work List #1-11 does not match Specification 01 11 00-1.	The Summary of Work List has been coordinated with Specification 01 11 00-1.
70	---	Sheet C-503.	NMWDA & County	Monitoring Well Protection Detail requires 4 bollards. Given the location of many of the wells near the property boundaries, is temporary fencing and flagging a more practical option? Should excavation of surficial trash be avoided around the wells? The site will have a new permanent fence installed around the perimeter. (related to Comment #1)	We are proposing that surficial waste be excavated by hand within 2 feet of the existing concrete pad. We have reduced the bollards to only be on the interior landfill side of the wells (so 2 instead of 4 bollards).
71	---	Sheet C-505.	NMWDA & County	Note 1 - you may need to be more specific about "waste" must remain on site (i.e., municipal waste). Note 3. Closure cap subgrade soil will be compacted in 12-inch lifts. Is this standard, should it be less?	The word "waste" was revised to "excavated waste" in the notes. Note 3 was revised to be a maximum 8-inch lift for the cap subgrade.
72	---	Sheet C-506.	NMWDA & County	Slide Slope Excavation/Progression Details - if allowable from DPS, consider use of alternative sediment control measures (filter logs/socks) vs. super silt fence.	The E&S controls previously, and currently shown, comply with the regulations. Filter logs and silt fence are not compliant based on slope and contributing distances.
73	---	Sheet C-507.	NMWDA & County	Settlement Plate Detail - relocate to more appropriate location in plan set (C-135 to C-144). How are Settlement Plates being identified on the sheets (a "P" and number)? Individual Plate ID should be tagged in the field	Plate labels have been added to the specifications. Settlement plate identifiers will be added to the 100% design.
74	---	Sheet C-506 and C-507.	NMWDA & County	C-506 Side Slope Excavation Detail Notes and C-507 Side Slope Suggested Sequence of Construction should be reconciled/combined into a single set of guidance.	This has been updated for clarity.
75	---	Sheet C-171 and C-519.	NMWDA & County	In reviewing the LFG Management Plan C-171 and the Tables on C-519, there is no EW numbering scheme. If possible, recommend a new numbering scheme in a logical progression around the site (e.g., start in West, Proceed North, and so on).	Since most of the EWs are existing wells, it was decided that renumbering them would also be confusing. The wells were not re-numbered as part of the 90% design submission.

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76	---	G-002/ABBREVIATIONS	NMWDA & County	For NRCS, N is for "Natural", not "National". For SWPPP, the last P is for "Plan", not "Proposal".	Revised as noted.
77	---	G-002/LEGEND	NMWDA & County	Define W-# and TP-# symbols in legend. Include Limits of Waste in legend. Show exist. waterline symbol, not "NA"...there's at least one exist. waterline shown on C-102 & C-103, near the gazebo.	Revised as noted.
78	---	G-003	NMWDA & County	Pond fill material calls for maximum stone size of 4". Specification Section 31 05 15, paragraph 2.4B calls for maximum stone size of 6". Please clarify.	The specification section has been revised to state 4-inches to conform to the plans and Montgomery County Specifications.
79	---	C-503/Mon. Well Protection Detail	NMWDA & County	Some of the cuts at the wells are over 2' deep as shown on C-102. The exist. conc. pad will end up being demo'd. Detail should address demo of the pad and the construction of new pad.	The intent is not to demolish the existing concrete pad and to excavate by hand around the existing pad.
80	---	C-503/Site Details	NMWDA & County	Consider top of gravel access roads higher than shown and sloped to the final cap grade rather than fully recessed to final grade.	If we elevate the roads, they will impound water and affect drainage. The roads will be recessed to final grade.
81	---	C-506/Excavation & Grading Details	NMWDA & County	Option of filter log use within individual phased work in lieu of super silt fence	Use of super silt fence and filter logs has been evaluated and optimized.
82	---	C-507/Excavation & Grading Details	NMWDA & County	Is there flexibility with the side slope construction sequence - working the entire top area (#2 & #6) together before the lower section?	The intent is that the top area be completed before the lower section. This has been updated.
83	---	C-508/Closure Cap Details	NMWDA & County	(Northwest Slope and Facility Discharge Details) What is the rationale for the 4' deep anchor trench?	To help mitigate the potential for landfill gas migration.
84	---	C-508/Closure Cap Details	NMWDA & County	Please confirm, why the geocomposite layer is not extended to the labeled termination point (Northwest Slope Discharge Facility Detail).	The Class 0 Riprap is to anchor the geocomposite. The geocomposite was revised to illustrate termination as noted.
85	---	C-508/Closure Cap Details	NMWDA & County	(Northwest Slope Discharge Facility Detail) Does the 8 oz nonwoven geotextile extend around the Class 0 rip-rap to the interface with the 2:1 drainage swale? Is #57 stone an alternate option to the Class 0 rip-rap stone?	The 8 oz. nonwoven geotextile extends around the Class 1 Riprap only; No. 57 stone is too small and has the potential to wash out.

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86	---	C-508/Closure Cap Details	NMWDA & County	(Geosynthetic Cap Termination Detail) Indicate type for the soil wedge between the cap slope and the rip-rap toe drain. Consider using same vegetative support material. Add geotextile under the riprap between the toe of riprap and end of cap geosynthetics. Add "AS SHOWN ON PLAN" or similar to "SILT FENCE OR SUPER SILT FENCE" label. Clarify if the 2:1 slope is 2H:1V, or the opposite. Label the class and thickness of the riprap. The max. thickness of the riprap appears to be less than 6" since the top of the 2:1 slope appears to be less than 1' from the toe of slope; therefore, the max. cover over the geosynthetic cap would be only 6". This detail needs to be redesigned and drawn to scale. Please address.	This detail has been updated and additional details have been added for various cap termination conditions.
87	---	Super silt fence (SSF) as phase limits on all plans	NMWDA & County	The normal purpose of SSF is to intercept sediment-laden sheet flow, not for demarcation of phases. Having the SSF where it runs up & down slopes and even along ridgelines where it will not intercept flow seems like an unnecessary expense, when demarcation of phases could be accomplished with lower cost blaze orange netting or similar fencing. Consider revising this unless it is a County E&SC requirement to separate phases with SSF. Also, how will the phasing of the geosynthetic placement relate to the phase limits shown, which are in a zig-zag pattern?	Agreed. Orange construction fence has replaced SSF for demarcation of phases where SSF is not needed in the 90% design submission.
88	---	C-508/Closure Cap Details	NMWDA & County	Add a detail to show the cap termination along Access Road D, at the North end of the site.	Additional termination details were added to the 90% design submission.
89	---	C-113 through C-122	NMWDA & County	Super silt fence (SSF) is not intended to intercept concentrated flow. Where swales are crossing SSF shown on drawings there is a high potential for blowouts and undermining.	The erosion and sediment control plans were revised as part of the 90% design submission. Areas of concentrated flow have been addressed.

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90	---	C-113	NMWDA & County	Runoff will tend to drain to the lowest part along the SSF (adjacent to the R/W & where Phases S-1 & S-2 meet); the SSF may be inadequate to contain the large amount of water that will collect there. Consider some kind of supplemental reinforcement to the SSF, or a sediment trap.	The erosion and sediment control plans were revised as part of the 90% design submission. The excavation sequence has been refined to allow discharge of concentrated flow through a temporary gabion outlet structure.
91	---	G-002/Sequence of Construction	NMWDA & County	Consider a plan showing the status of the site at the start of Phase F-1. At this point, part of Phase S-III will be draining toward F-1, so there will need to be a way to divert stormwater along the interface between F-1 and S-III. Alternatively, can F-1 extend to the top of the slope in S-III that is roughly parallel to the Phase S-III/S-V phase line?	There is a new series of plans showing each phase to help clarify the progression across the site.
92	---	G-002/Sequence of Construction	NMWDA & County	The second item 7 (for Phase S-II) should be renumbered as 8, and subsequent steps renumbered. This item and the one following say that Step "P" of the previous Phase S-I does not apply. However, Step P of Phase I includes constructing the swale at the base of the NW slope. Phases S-II & S-III also contain a swale at the base of slope, so shouldn't Step "P" also be part of these phases?	The number has been revised. The "with the exception of step P" was removed.
93	---	C-514/Super Silt Fence	NMWDA & County	MDE accepts "Smartfence 42" as a lower cost equivalent...consider discussing with County E&S control reviewer. If acceptable, the SSF detail can be retained, with an added note that the "Smartfence 42" product is also allowed.	EA discussed the usage of this product with DPS. DPS requested that a letter of acceptance from MDE be provided. In addition, DPS stated that if accepted and the County desires to utilize it as "as-equal" then the pertinent notes/details/installation procedures should be added to the plans for their inspectors use during construction. The Contractor may propose this as an alternative, if desired.
94	---	Subgrade Grading Plans	NMWDA & County	Grading for downchutes should show top of subgrade under the downchute.	This will be revisited for the 100% design.
95	---	Final Grading Plans	NMWDA & County	Grading for downchutes should show top of riprap in the downchute.	This will be revisited for the 100% design.

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96	---	C-508/Closure Cap Details	NMWDA & County	(Northwest Slope Discharge Facility Detail) Detail shows 6" thickness of Class 0 riprap higher than the 6"HDPE pipe. If 6" thick it will be even with the top of the pipe. Is the intent, to have it even, or to bury the pipe? Class 0 riprap is 4"-7" in size. What will keep the smaller rocks from entering the pipe and restricting its flow capacity. Consider some type of screen over the end of the pipe to keep the rocks out.	The detail has been updated and a screen has been added.
97	---	C-508/Closure Cap Details	NMWDA & County	(Northwest Slope and Facility Discharge Details) Add geotextile between Class 0 riprap and 2:1 slope. Add and label a vertical line indicating the Limit of Toupee Cap that is consistent with the plan views.	The Limit of Toupee Capp has been updated on the plan view and detail. Geotextile has been shown extend under the Class 0 riprap and the 2:1 slope.
98	---	C-157, C-159, C-160, C-163	NMWDA & County	Clarify whether the "CHAIN LINK FENCE" label refers to existing or new fence. (This comment applies to other plan views of this area for subgrade, E&S control, etc.) If new fence, show and label the terminations of new work as well as gates. Will a construction easement on the R/W along the property line be required?	This will be coordinated for the 100% design.
99	---	C-124 at match line with C-127	NMWDA & County	The limit of waste is outside the LOD where it crosses the match line for these 2 sheets. How will this waste be addressed at this location, as well as any other location where waste is found beyond the designated limit of waste?	The limit of waste along the northwest slope has been updated to reflect recently performed test pits which demonstrate it does not extend beyond the property boundary. Additionally, the design is for a toupee cap and does not address the entire limit of waste at the site.
100	---	C-123/Demo. and Excavation Notes	NMWDA & County	First note indicates fencing within LOD to be removed. How is site security going to be addressed once the fence along the R/W on NW side is removed? Will there be a temporary fence in the R/W, in a construction easement, to allow work up to the property line?	The fencing will not be removed until replaced in the final phase of construction.

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101	---	C-161/Swale 9-A	NMWDA & County	At the discharge of this swale, there is a drop to existing ground, and the final grades stop short of the limit of cap. Final grading should extend to the limit of cap. Evaluate whether stabilization such as riprap needed at transition from cap to existing ground.	The cap tie-in grading has been updated.
102	---	C-161 through C-165/Along cap tie-in	NMWDA & County	The tie-in slope grading measures approx. 2H:1V and the height varies. The only portion that should be 2H:1V is for the riprap berm at the toe of slope. The flat portion of the riprap berm should be shown in the grading. The slope from the top of riprap to the top of slope should be 3H:1V or flatter, for ease of construction and maintenance. Revise grading along the cap tie-in. The subgrade drawings will also need to be revised. Please address.	The cap tie-in grading has been updated as well as the tie-in detail.
103	---	C-153/Swale discharge	NMWDA & County	Address stabilization at transition from cap to existing ground for the swale that discharges toward the Admin. Area.	Swale 7 ties to an existing drainage feature at the top of the slope. This will be evaluated further for the 100% design.
104	---	C-164/Bench outlet	NMWDA & County	Show downchute outlet for bench and connection to existing storm drain that goes to structure K/3.	The downchute and grading have been revised for the 90% submission.
105	---	C-164/Grading	NMWDA & County	Smooth out the grading at the corner near upper end of bench. Add spot elevations along the top of slope that is parallel to the bench so that it doesn't end up flat between the 469 contours or the 470 contours. In general throughout final grading plans, evaluate and add spot elevations where needed to provide positive drainage and prevent flat spots. The subgrade drawings will also need to be revised to coordinate.	Generally, the grading has been refined in the 90% design. Additional refinement can be performed for the 100% design.
106	---	C-165 & C-161/Pond 3	NMWDA & County	Show limits of earth cap.	The limits of the earth cap have been identified with the 90% design submission.

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107	---	C-165/Grading	NMWDA & County	Show final grading south of pond and in the existing concrete and asphalt pad area, or clarify limit of toupee cap. Will this pad be removed and the toupee cap installed? The grading north of Swale 14-B does not extend to the edge of the toupee cap, and appears to create a low spot at the east end of the new 420 contour. Revise accordingly.	Grading for this area is included as part of the 90% design submission. The concrete pad will be removed prior to capping. The grading north of Swale 14-N was reviewed and revised.
108	---	C-169/Pond 3	NMWDA & County	Address stabilization from downchute and storm drain outlets to bottom of pond. Show limits of earth cap.	Downchutes have been extended into the basin.
109	---	C-518/Section A-A'	NMWDA & County	Show location of condensate drain per plan view.	There is no condensate drain in Section A-A'. The drain is shown in Section B-B'.
110	---	C-518/Landfill Gas Pipe Road Crossing	NMWDA & County	Indicate slope of pipe under road. Where the LFG pipe crosses a crowned road, the subgrade may need to be adjusted to match the pipe slope. The soil cover over the cap is 24" thick, and with the carrier pipe at 12" and gravel thickness of 8", that leaves 4" of "wobble" room to achieve the desired pipe slope.	The slope of the pipe was added to the detail.
111	---	C-508/Closure Cap Details	NMWDA & County	If purpose of 8 oz/sy geotextile under 4" topsoil is only as a marker, suggest another method. This geotextile has the potential to cause erosion of topsoil if rainwater moves laterally and not downward due to geotextile clogging. Also, 2' wide x 4' deep anchor trench can be shallower	This detail has been updated.
112	---	C-509/Closure Cap Details	NMWDA & County	Gabion downchute section has high potential for erosion where topsoil means 16 oz geotextile. Flow tends to be turbulent at such interfaces. Suggest placing No. 57 stone under gabions and along sides to prevent erosion	CR-6 has been added around the gabion downchutes to improve erosion resistance.
113	---	LFG Plans	NMWDA & County	There is a large number of isolation valves shown on the plans, this is very expensive. Please address.	The number and location of isolation valves were evaluated and revised in the 90% design submission.

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114	---	LFG Plans	NMWDA & County	Pipe routing should be fine tuned to minimize the number of low spots requiring condensate drains. Installation of condensate drains in swales may be hard to service due to wet conditions.	The pipe routing was evaluated further to minimize low spots. Since many of the wells are existing and there are significant area with slopes less than 3% the number of condensate drains are greater than a typical system on a more traditional landfill cap. Per detail, LANDFILL GAS PIPE SWALE CROSSING, condensate drains are to be located outside of the swales. The locations on the drawings have been updated to reflect this detail.
115	---	LFG Plans	NMWDA & County	Wells located downslope of the header should be different than wells located upslope of the header. Please address.	A remote well detail is presented on C-517.
116	---	C-516	NMWDA & County	Well spacers not shown on extraction well detail. Please address.	Please clarify comment. Is this in reference to the GAS COLLECTION PIPING FLANGE CONNECTION DETAIL?
117	---	C-517	NMWDA & County	Please consider removing the vault from the isolation valve, this will tend to fill with water below grade.	No vault is proposed, only a HDPE valve stem and sampling tube sleeve is proposed.
118	---	C-517	NMWDA & County	Recommend bringing the pipe boot seal above grade so it can be regularly inspected and maintained. Please consider.	The detail was adjusted.
119	---	C-517	NMWDA & County	Recommend eliminating compacted soil in piping details. Risk of cap damage and the rest of the landfill doesn't have this compaction requirement making it excessive and hard to perform.	Agreed. Compaction requirements have been removed.
120	---	C-518	NMWDA & County	Pipe cannot be flat at any locations or condensate will gather and block the piping. Details should be revised accordingly.	Agreed. Details have been revised to clarify slope requirements.
121	---	C-519	NMWDA & County	Why are wells marked to be abandoned being extended? Will these wells be abandoned in place?	Columns for final grade and extend/shorten have been removed from the abandoned well schedule.
122	---	C-519	NMWDA & County	What happens if new extractions wells are drilled below the bottom of the existing landfill?	The CME should be present during LFG well installation. Wells should not be screened below the bottom of waste or into groundwater. Wells drilled beyond bottom of the landfill should be backfilled by the driller prior to setting the well.

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1	---	31 05 19.16 (Section 3.3.4)	NMWDA & County	Does the subgrade sequencing take into account sub-40 degree cold weather days. Specify restrictions or requirements for work performance or non-seaming activities.	The 40 degree requirement is specific to geomembrane. There are no temperature restrictions on subgrade preparation.
2	---	31 05 19.13 (Section 3.3)	NMWDA & County	Should contractor's be allowed to use ATVs or other equipment to deploy?	The use of ATVs is typical and is permitted per the specifications.
3	---	31 05 19.13 (Section 3.5)	NMWDA & County	For geosynthetics, there is no timetable for material storage, protection, inspection, etc.	Delivery, Storage, and Handling is presented in Section 1.8.
4	B.1.	01-26-00-5	NMWDA & County	replace 'copy' with 'hardcopy'	Revised as noted.
5	B.1.	01-26-00-5	NMWDA & County	add c. noting an electronic copy will be sent to the same	The text was revised to include "and an electronic copy" following "hardcopy".
6	1.1.5 A.	01-26-00-5	NMWDA & County	add 2. noting that electronic copies will include all attachments and the pages are to be numbered	Format is presented under 1.1.5 B. The referenced language has been added.
7	1.1.5 B.4.	01-26-00-6	NMWDA & County	replace 'copy' with 'hardcopy'	Revised as noted.
8	1.1.5 B.4.	01-26-00-6	NMWDA & County	add c. noting an electronic copy will be sent to the same	The text was revised to include "and an electronic copy" following "hardcopy".
9	1.1.5 C.3.b	01-26-00-7	NMWDA & County	add ', including data on MFD participation' to the end of the sentence	Revised as noted.
10	1.1.6 B.1.	01-26-00-7	NMWDA & County	add sentence noting that electronic copies will include all attachments and the pages are to be numbered	Sentence added.
11	Work Change Directive	01-26-00-11	NMWDA & County	add ', including data on MFD participation' to the form	MFD price and percent increase/decrease were added to the form.
12	Change Order Proposal	01-26-00-13	NMWDA & County	ibid	On the form, text was revised to "For Contract Price, when requested by CONSTRUCTION MANAGEMENT ENGINEER, attach detailed cost breakdowns, Supplier quotations, MFD price and percentage , and other information required."
13	ibid	01-26-00-14	NMWDA & County	Is the Director of Procurement the Authority?	Yes. Northeast Maryland Waste Disposal Authority added.
14	1.1.E	01-31-19.13-1	NMWDA & County	add 'written' in front of 'comment' and 'or acceptance' after 'comment'	Revised as noted.
15	1.1.B.	01-31-19.23-1	NMWDA & County	Change 'month' to 'two weeks'	Revised to two weeks.

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16	3.2.A	01-32-33-4	NMWDA & County	recommend daily pictures, esp. on NW slope	The text was revised to "At minimum, photographs shall be taken once per day of each area where work is being performed. "
17	3.2.A.1.	01-32-33-4	NMWDA & County	New 4. photo document all materials deliveries, and synthetic materials assembly and testing	New Item 4 was added "Provide photographic documentation of all material deliveries, stored materials, and representative material assembly and testing."
18	1.3	01-40-00-1	NMWDA & County	Alphabetize the definitions	Revised as noted.
19	1.4	01-40-00-2	NMWDA & County	Alphabetize the qualifications (move A and B back)	Revised as noted.
20	1.5	01-40-00-3	NMWDA & County	Alphabetize the submittals (move A and B back)	Revised as noted.
21	1.5.C.2	01-40-00-3	NMWDA & County	note that the replacement of staff is subject to review under the RFI protocol	The following was added to 1.5 "Qualifications for changes to previously approved personnel, testing laboratories, and manufacturers shall be submitted and approved by the CONSTRUCTION MANAGEMENT ENGINEER prior to commencement or the continuation of work.
22	1.8	01-40-00-4	NMWDA & County	Is this the place for storage requirements and limits on pre-ordering?	Storage requirements are specified in each of the material specifications.
23	1.1.1.G.	01-45-00-3	NMWDA & County	add 'following the RFI protocol' to the end of the sentence	The process for submittals is outlined in Section 01 33 00. The following was added to the end of the sentence to clarify " and approved prior to implementation."
24	1.1.1.H.	01-45-00-3	NMWDA & County	should this be the Authority or Owner instead of the CME?	Revised to Owner.
25	1.12.B	01-45-00-6	NMWDA & County	first sentence, strike starting at 'if work operations' to the end	Revised as noted.
26	1.15.D.	01-45-00-7	NMWDA & County	new E. note that no PFAS containing fire extinguishers are allowed on the site (including equipment)	2.1 Emergency Equipment and First Aid was added and includes this requirement.
27	2	01-45-00-8	NMWDA & County	First aid kits, AED, non-PFAS extinguishers?	2.1 Emergency Equipment and First Aid was added and includes this requirement. First aid kits should be included in the proposed Health and Safety Plan to be approved by the CME.
28	1.1.1	01-50-00-1	NMWDA & County	will the CME/County have a trailer?	Revised to Owner/CME's trailer.

**Gude Landfill Remediation Design
Comments on Revised 60% Design**

Compiled By (Entity): NMWDA/Montgomery County

Compiled By (Staff): A.Kays / J.Foster

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29	3.3.A.1.a	01-59-00-4	NMWDA & County	is B a repeat? Will the County allow generators on-site?	B was a repeat and was removed. Generators will not be allowed for use with the offices.
30	3.5	01-59-00-5	NMWDA & County	will the CME/County have a trailer?	Yes. Clarified just the one trailer.
31	3.7.A.9.	01-59-00-7	NMWDA & County	will the CME/County have a trailer?	Yes. Clarified just the one trailer.
32	1.5.A.4	01-70-00-1	NMWDA & County	insert 'Maryland' before 'registered engineer'	Revised as noted.
33	1.11	01-70-00-5	NMWDA & County	add I., 'sign-in sheet for all visitors'	Revised as noted.
34	3.2.4.B	02-61-13.13-4	NMWDA & County	insert 'written' after 'prior' in the third sentence	Revised as noted.
35	3.2.1.B	31-05-15-9	NMWDA & County	where is Appendix A?	The reference has been revised to Attachment C.
36	1.7.2.A	31-05-19.13-5	NMWDA & County	add 8. photo documentation to accompany the log (referencing date, location, general description)	Revised as noted.
37	1.8	31-05-19.13-6	NMWDA & County	Is this the place for storage requirements and limits on pre-ordering?	Storage requirements are to be in accordance with manufacturer's recommendations. Pre-ordering will be addressed once upfront contract requirements are defined with the 100% design submission.
38	1.2.1 A	31-05-19.16-1	NMWDA & County	2019?	Correct. Revised to reflect the correct revision.
39	1.2.1 B	31-05-19.16-1	NMWDA & County	2017?	Correct. Revised to reflect the correct revision.
40	1.2.1 B	31-05-19.16-1	NMWDA & County	GRI GM19a?	Correct. Revised to reflect the correct revision.
41	1.5.A	31-05-19.16-2	NMWDA & County	add 'in writing' prior to 'the items as identified' in the 2nd sentence	Revised as noted.
42	1.5.C	31-05-19.16-3	NMWDA & County	add 'in writing' at the end of the last sentence	Revised as noted.
43	1.5.C.2	31-05-19.16-3	NMWDA & County	add 'in writing' at the end of the last sentence	Revised as noted.
44	1.5.2.A.1.	31-05-19.16-4	NMWDA & County	note that the As-Builts should be native file and PDF	Revised as noted.
45	1.7.2.A.3	31-05-19.16-5	NMWDA & County	insert 'Written' at the beginning of the sentence	Revised as noted.

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46	1.7.2.A	31-05-19.16-5	NMWDA & County	add 10. photo documentation to accompany the log (referencing date, location, general description)	Revised as noted.
47	1.7.3.A.1	31-05-19.16-5	NMWDA & County	last sentence, GRI-GM17 not a listed reference	GRI GM17 is referenced in 1.2.1.
48	1.7.3.A.2	31-05-19.16-6	NMWDA & County	last sentence, insert 'most recent' prior to 'shall be the ruling'	Added "the latest edition of" in front of GRI GM17.
49	1.8.C.	31-05-19.16-9	NMWDA & County	is there a time limit for the storage (e.g., no more than 3 months)?	Storage and handling is to be per the manufacturer's recommendations.
50	3.3.1.F	31-05-19.16-12	NMWDA & County	insert 'OWNER, AUTHORITY, OR REPRESENTATIVE OF A REGULAR BODY' after 'ENGINEER' in the 2nd paragraph	Text added.
51	3.3.2	31-05-19.16-12	NMWDA & County	add 'in writing' after 'and approved' in the first sentence	Revised as noted.
52	3.4.B	31-05-19.16-16	NMWDA & County	should '(Paragraph 3.6) be 1.7.2?	Correct. Revised to reflect the correct revision.
53	1.5.A	31-05-19.26-2	NMWDA & County	add 'in writing' prior to 'the items as identified' in the 2nd sentence	Revised as noted.
54	1.7.2.A	31-05-19.26-6	NMWDA & County	add 8. photo documentation to accompany the log (referencing date, location, general description)	Revised as noted.
55	1.8.B.	31-05-19.26-7	NMWDA & County	is there a time limit for the storage (e.g., no more than 3 months)?	Storage and handling is to be per the manufacturer's recommendations.
56	3.3.A	31-05-19.26-9	NMWDA & County	add 'to the CME' at the end of the first sentence.	Revised as noted.
57	3.3.A	31-05-19.26-9	NMWDA & County	is there a timeframe for the submittal?	Clarified approval of details prior to performing the work.
58	1.2.1.B	31-09-13-1	NMWDA & County	this reference was withdrawn in 2016, is there a replacement?	This reference has been removed. References have been updated for the whole section.
59	3.3.D	31-09-13-5	NMWDA & County	add 'in writing' after 'unless otherwise directed' in the second sentence	Revised as noted.
60	1.2.3.A	33-51-10-2	NMWDA & County	is this TR 3 1 or TR 31?	The reference has been revised.
61	2.1.A.3.c.	33-51-10-5	NMWDA & County	what does the last sentence mean?	Revised to "Polyethylene pipe shall not be joined by solvents."
62	3.2	33-51-10-9	NMWDA & County	is this TR 3 1 or TR 31?	The reference has been revised.

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63	1.4.B	33-51-11-2	NMWDA & County	what is the timeframe for the qualifications/	Added "for review and approval by the CONSTRUCTION MANAGEMENT ENGINEER prior to commencing work."
64	1.5.C	33-51-11-2	NMWDA & County	what is the timeframe for the submittals prior to construction?	Section 01 33 00, Submittals states that "No portion of the work requiring a CONTRACTOR'S drawing shall be started, nor shall any materials be fabricated, delivered to the Site, or installed, prior to the approval by the CONSTRUCTION MANAGMENT ENGINEER. "
65	2.1.3.A	33-51-11-7	NMWDA & County	why 304 vs. 316 for the stainless steel?	We typically specify 304 for nuts and bolts since 316 is softer.
66	2.2.8	33-51-11-10	NMWDA & County	ibid	We typically specify 304 for nuts and bolts since 316 is softer.
67	3.5.A	33-51-11-12	NMWDA & County	does this align with the warranty period?	The system itself will still be under warranty, but the operations should be transitioned back to the County. Clarified 2 months after substantial completion.
68	---	01 11 00, 1.1.1.A, 2nd sentence	NMWDA & County	After "the scope of work"; add "which is not intended to be an all-encompassing listing of the project work to be performed by the Contractor."	Revised as noted.
69	---	01 11 00, 1.1.1.A.1.	NMWDA & County	Add 1st Item. "Pre-Construction, Construction Progress, and Post-Construction photographic and video record preparation." For the Contractor.	This list is intended to be an overview of the major components of the project. Photography is addressed in another specification.
70	---	01 11 00, 1.1.1.A, 1b.	NMWDA & County	Re-evaluate the use of the dewatering sumps (by the Contractor) along the W/NW Slope during all phases of work along that portion of the landfill property boundary. Same comment for other specification sections and drawings.	The modification and use of the dewatering sumps has been added to the contract documents.
71	---	01 11 00, 1.1.1.A, 1d.	NMWDA & County	After "surface", add "water" drainage benches. Also, change "drain" to "drainage" channels.	Revised as noted.
72	---	01 11 00, 1.1.1.A, 1e.	NMWDA & County	After "bottom to top", add "grade consisting" of	Revised as noted.
73	---	01 11 00, 1.1.1.A, 1e.3).	NMWDA & County	Can the text be stated as "twenty (20)-inch thick layer". Also, Should "Vegetative Support Soil" be termed "Protective Soil Cover"? i.e. will the Contractor potentially think he needs to provide 24-inches of Topsoil?	Revised to 20-inch. Vegetative Support Soil is specified in the Section 31 05 15, Earthwork and Topsoil is specified in Section 32 92 00, Turf and Grasses. This has not been an issue at other project sites.

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74	---	01 11 00, 1.1.1.A, 1e.4).	NMWDA & County	This text should be highlighted until the 100%. The County may want to make the decision to avoid potential conflicts with alternate closure cap sections.	This has been flagged for further discussion.
75	---	01 11 00, 1.1.1.A, 1f.	NMWDA & County	The term "day lighted" drainage systems is confusing. Can another term be used?	This is a common term for landfill closure cap systems.
76	---	01 11 00, 1.1.1.A, 1g.	NMWDA & County	The inclusion of Variable Frequency Drives (VFDs) should be considered for the Blower Flare Station to provide consistent control of vacuum on the well field. If these improvements have not been previously completed by APTIM. Coordinate this comment with 33 51 10 and 33 51 11.	This work is to be performed under a separate contract by APTIM.
77	---	01 11 00, 1.1.1.A, 1l.	NMWDA & County	Include a line item description for Site Security in this section.	Added "Site security, including the installation of video surveillance and replacement of the existing chain-link fence and gates."
78	---	01 11 00, 1.1.1.B.	NMWDA & County	Add as 2nd sentence, "The primary access point for heavy construction vehicles will be Incinerator Lane, located off of Southlawn Lane, Rockville, MD."	Revised as noted.
79	---	01 11 00, 1.1.1.B. 4th sentence.	NMWDA & County	After "private homeowners", add "commercial businesses, and recreational pedestrians..." Also, after "noise", add "odor and" dust control...	Revised as noted.
80	---	01 26 00, 1.1.A.1.a	NMWDA & County	Is "requests for interpretation" replacing requests for information by the Contractor?	Requests for interpretation is the same as a request for information.
81	---	01 26 00, 1.1.2	NMWDA & County	The title states "Minor Changes." Item A.2. states "minor variations." This should be made consistent.	Revised to minor variations.
82	---	01 26 00, 1.1.3.A.3	NMWDA & County	If a Work Change Directive is not anticipated to change the Contract Price or Contract Time and it may be incorporated into (formalized by) a Change Order; Can we state this as a "Zero-Dollar Change Order" to clarify the point? If it will be a Cost Increase Change Order, that appears to follow under 1.1.3.B.3 when required.	The following statement was added "Work Change Directives with no effect on Contract Price or Contract Times may be formalized as a "Zero-Dollar Change Order"."

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83	---	01 26 00, 1.1.5.C.3 (Change Order Proposals as well as Change Orders, 1.1.6)	NMWDA & County	Include a item description that the Contractor's detailed breakdowns of pricing shall be in accordance with the unit pricing of Bid and Contingency items when applicable. Also, Contractor should reference applicable Specification or Drawing in Change Order. Also, will Lump Sum Change Orders be considered?	The follow item was added "g. Breakdown of pricing shall be in accordance with the unit pricing of any existing Bid and Contingency items when applicable." Lump sum change orders can be considered. 1.1.5.C.3 states "unless otherwise directed by the CME, attach to the Change Order proposal detailed breakdowns of pricing".
84	---	01 31 19.13	NMWDA & County	There are multiple references to Preconstruction "Meeting" and "Conference". Please make consistent.	All references were revised to "meeting".
85	---	01 31 19.23, 1.1B.1	NMWDA & County	Should "every month" be changed to "every two weeks"?	Revised to two weeks.
86	---	01 32 33, 1.5.C.1	NMWDA & County	Only M.S. Windows 10 is being supported now. What version is Montgomery County using?	Revised to Windows 10.
87	---	01 32 33, 3.2.A.1	NMWDA & County	Should progress photos taken "once per week" be changed to "throughout the week or each day" for the weekly progress photos?	Revised minimum to "once per day of each area where work is being performed."
88	---	01 32 33, 3.2.A.	NMWDA & County	Add #4. Progress Photos for major deliveries, materials to be stockpiled such as geosynthetics or HDPE pipe, etc.	New Item 4 was added "Provide photographic documentation of all material deliveries, stored materials, and representative material assembly and testing."
89	---	01 40 00, 1.4.	NMWDA & County	For Contractor Changes in Testing Laboratory, Installer Personnel, Manufacturers, or other subcontractors or personnel that required approval of qualifications - new qualification documentation will be required as a submittal to the CME.	The following was added to 1.5 "Qualifications for changes to previously approved personnel, testing laboratories, and manufacturers shall be submitted and approved by the CONSTRUCTION MANAGEMENT ENGINEER prior to commencement or the continuation of work.
90	---	01 40 00, 1.7.A.	NMWDA & County	Sequence of Construction is identified but not referenced. It is located on Sheet G-002. Should this be a separate individual specification?	A reference to the Contract Drawings was made.
91	---	01 40 00, 1.7.A.	NMWDA & County	Highlight "Contractor should expect that MDE approval will take five (5) days for each stage of approval. Please request clarification or confirmation from MDE on this time limit in the 90% Design. Coordinate with the Sequence of Construction.	MDE will not commit to a timeframe for approval since it is dependent on the results of their inspection. Five days is based on experience.
92	---	01 40 00, 1.11.	NMWDA & County	Will all testing results be specified as a Submittal to the CME?	Yes.

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93	---	01 45 00, 1.1.1.A.1. 2nd sentence	NMWDA & County	After "waste excavation", add "and relocation"	Revised as noted.
94	---	01 45 00, 1.1.1.A.1. 3rd sentence	NMWDA & County	After "landfill gas", add "extraction well and header pipeline".	Added "extraction", but did not specify the pipeline, since there will be several kinds (temporary, header, lateral, etc.).
95	---	01 45 00, 1.1.1.B	NMWDA & County	Do any Montgomery County Risk Management or DPS requirements or regulations need to be referenced? Question for County OCA.	As discussed, a list of flagged items for County OCA input will be prepared following the 90% design submittal.
96	---	01 45 00, 1.1.1.C and 1.1.1.J	NMWDA & County	Trenching and Excavations is referenced in 1.1.1.J. Should other items be referenced: waste handling and relocation, inclement weather preparedness, hazardous waste containment, etc. Is Hazard Communication covered under the OSHA reference on Page 01 45 00-1?	Hazard Communication is covered under the OSHA Reference to 1926 on the first page (1926.59). Hazardous waste containment and severe weather preparedness were added to 1.1.1.C.
97	---	01 50 00, 1.1.1.A	NMWDA & County	Will the CME and Owner Share a Trailer?	Yes. Revised to Owner/CME's trailer.
98	---	01 50 00, 1.1.1.A. Last sentence	NMWDA & County	Needs to be more specific to on-site and off-site ingress/egress points (facility entrances at 600 E. Gude Dr. and Incinerator Lane), the immediate adjacent roadways, and main arterial roadways to get to the project site (Gude Drive, Southlawn Lane, Avery Road, Incinerator Lane).	Traffic control requirements were further defined. Based on the Traffic Impact Study, no additional controls were proposed for roadways adjacent to the site.
99	---	01 50 00, 1.10	NMWDA & County	Needs to be more specific. 2nd sentence, "on access roadways" is too general. See comment above.	Language added about the facility entrances.
100	---	01 50 00, 3.D and .E	NMWDA & County	The inspection, identification, and protection of existing monitoring locations (groundwater monitoring wells and landfill gas monitoring wells/probes) <u>seems to be buried in the Mob/Demob specification</u> . What about property corner monuments, line-of-sight markers, flare station, etc. Is there another specification, or is there enough existing infrastructure for a new spec: "Protection of Existing Infrastructure".	The paragraph has been moved from 01 50 00 and consolidated with other related items in 01 70 00.
101	---	01 59 00, 3.5.A and 3.7.A.9	NMWDA & County	Does this refer to one (1) trailer for the Owner/CME or separate trailers (2)?	Clarified just the one trailer.

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102	---	01 70 00, 1.10 and Table 01 70 00-1	NMWDA & County	These sections should be coordinated with 31 05 15 (Excavation), 31 09 13 (Settlement), future 01 20 00 (Measurement and Payment), and other applicable Specifications and Drawings to ensure requirements are clear for survey and associated settlement monitoring including support documentation for the life of the project.	Specifications and drawings have been reviewed and coordinated.
103	---	01 70 00, 3.B.	NMWDA & County	Specifies the 12 month warranty period. Does NMWDA Attorney or County OCA want to add any additional language?	As discussed, a list of flagged items for County OCA input will be prepared following the 90% design submittal.
104	---	02 61 13.13, 1.3C.	NMWDA & County	Include metal and any other visually observed waste that has the potential to puncture a geosynthetic cap under "Unusual Waste." Are there any other waste that MDE will prohibit the relocation/placement on-site?	Items that can puncture the cap are now addressed by requiring no protrusions when excavated waste is placed. This list should capture things MDE will be concerned about.
105	---	02 61 13.13, 3.2.2A	NMWDA & County	Include a tarping requirement to limit litter migration.	Added.
106	---	02 61 13.13, 3.2.3.C	NMWDA & County	Can we include a requirement for inclement weather preparedness and expedited deployment of a stormwater rain tarp or other measures? This would need to be coordinated with the future 31 25 00 (E&S Control).	Added to paragraph 3.2.4 (paragraph numbers have been revised).
107	---	02 61 13.13, 3.2.4	NMWDA & County	Switch "B" to "C". Add new "B" for dewatering activities in advance or in preparation for entry into sensitive work areas (W/NW slope).	Dewatering activities have been added to 3.2.5 (paragraph numbers have been revised).
108	---	02 61 13.13, 3.4 (new)	NMWDA & County	It may be beneficial to include a sequence of construction for waste excavation and material handling, E&S controls, phase deconstruction of landfill gas system, etc. If this is not specified elsewhere.	The sequence of construction on the drawings addresses these items. More detail about managing the landfill gas system has been added.
109	---	31 05 15, Table 31 05 15-1	NMWDA & County	Can a column be added to specify the thickness of each specified material at the location noted? Should Topsoil be added as a specified material? For the Closure Cap Subgrade, where is the non-woven geotextile relative to the soil layer below the geomembrane (Sheet C508 closure cap details).	The thicknesses vary in some cases so they have not been added. Topsoil is specified in 32 92 00, Turf and Grasses. Changed "geomembrane" to "geosynthetics" to be more accurate.

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110	---	31 05 15, 1.7.4.B	NMWDA & County	Field Density Testing, indicates "continuously monitored." Is this defined. If not, need to specify requirement. Perform Global Search for all similar references across specifications.	The word continuously was removed since the frequency is defined in the paragraph. Other reference to "continuously" has been removed.
111	---	31 05 15, 2.	NMWDA & County	For Materials Section, include the requirements for Topsoil. 3.2.2 notes placement requirements for vegetative support soil and top soil.	Reference to Turf and Grasses specification for topsoil added. Header (now 3.5 modified to just include vegetative support soil.
112	---	31 05 15, 3.2.1.	NMWDA & County	Where is Appendix A?	The reference has been revised to Attachment C.
113	---	31 05 19.13, 1.1.1.A	NMWDA & County	After "Work", add "the manufacture". After "delivery", add "storage." Does the description of Section 1.8 for Delivery, Storage, Handling need to be expanded? Duration, Visual Inspection frequency, etc.	Added additional language. Since there is a warranty associated with the material, we typically defer to the manufacturer's requirements for storage and handling. To be discussed further prior to 100% design submission.
114	---	31 05 19.13, 1.7.2.A	NMWDA & County	Add #8. Photo for Daily Quality Control. Include date, location, other identifier information.	Added.
115	---	31 05 19.13, 3.4	NMWDA & County	Under Temporary Securement, should we include another line item about Inclement Weather Preparedness, Contractor Responsibility.	This will be addressed once upfront contract requirements are defined with the 100% design submission.
116	---	31 05 19.16, 1.1.1.A	NMWDA & County	After "delivery", add "storage." Does the description of Section 1.8 for Delivery, Storage, Handling need to be expanded? Duration, Visual Inspection frequency, etc.	Added additional language. Since there is a warranty associated with the material, we typically defer to the manufacturer's requirements for storage and handling. To be discussed further prior to 100% design submission.
117	---	31 05 19.16, 1.1.1.A	NMWDA & County	Indicate that the LLDPE geomembrane is textured (not smooth). Global Search for similar instances where the specifications or drawings need to be very specific (non-woven vs. woven geotextile).	Textured was added. Contract documents were reviewed for similar instances.

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118	---	31 05 19.16, 1.2.1	NMWDA & County	Include applicable updates to the standards or test methods for GRI.	Methods were updated.
119	---	31 05 19.16, 1.7.2.A	NMWDA & County	Add #10. Photo for Daily Quality Control. Include date, location, other identifier information.	Added.
120	---	31 05 19.26, 1.1.1.A	NMWDA & County	After "Work", add "the manufacture". After "delivery", add "storage." Does the description of Section 1.8 for Delivery, Storage, Handling need to be expanded? Duration, Visual Inspection frequency, etc.	Added additional language. Since there is a warranty associated with the material, we typically defer to the manufacturer's requirements for storage and handling. To be discussed further prior to 100% design submission.
121	---	31 05 19.26, 1.7.3.A	NMWDA & County	Add #8. Photo for Daily Quality Control. Include date, location, other identifier information.	Added.
122	---	31 09 13, 1.10.A	NMWDA & County	Requires protection of all instruments, but does not specify any requirements. For the settlement plate work, it may be prudent to develop the requirements.	Settlement plates will be installed close to the end of the project. No specific protection requirements are warranted.
123	---	31 09 13, 2.A	NMWDA & County	Specify the material components for the settlement plates. (Found on Sheet C-507).	Specifications added.
124	---	31 09 13, 3.4.F	NMWDA & County	Contractor submits monitoring data every two weeks to CME. What is the process for review and reconciliation between the Contractor and CME if there are disputes in settlement calculations?	Timing of surveys for measurement and payment have been specified to eliminate the need for settlement calculations for measurement purposes.
125	---	31 11 00, 2.1.A	NMWDA & County	The types of materials to be managed in Section 2.1.A should match the materials mentioned in Section 1.3.	Section 2.1.A removed because it did not describe construction materials.
126	---	31 11 00, 3.1.C. 2nd sentence	NMWDA & County	After "backfills", add ", grading activities"	This sentence is referring to the fill materials it cannot be incorporated into. No change made.
127	---	33 51 10, 1.1.1.A. 3rd line.	NMWDA & County	After "gas", add "collection and" conveyance	Revised as noted.
128	---	33 51 10, 1.5.B. 1st sentence.	NMWDA & County	Gas collection system work plan. Review terminology for "gas collection and conveyance system" or "gas management system."	Revised to gas collection and conveyance system.
129	---	33 51 10, 2.5. General Comment.	NMWDA & County	Pipeline Locator/Warning Tape is specified. Should a similar material be used for other subsurface installations across the project for general awareness if digging?	Yes. Any below grade plastic pipe should have warning tape. There should not be any other buried plastic pipe in the Contract Documents.
130	---	33 51 10, 3.8. General Comment.	NMWDA & County	Specify photographic documentation for specific installations (tie-ins, valves, etc.)	Added to 1.5.D.

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131	---	33 51 11. General Comment.	NMWDA & County	Ensure terminology is consistent for "gas extraction wells." May references to just "gas wells".	Revised all to gas extraction well.
132	---	33 51 11, 3.8. General Comment.	NMWDA & County	Should we specify photographic documentation for any specific installations (tie-ins, valves, etc.)?	Added to 1.5.D.
133	---	33 51 10 and 33 511 11. General Comment	NMWDA & County	The inclusion of Variable Frequency Drives (VFDs) should be considered for the Blower Flare Station to provide consistent control of vacuum on the well field. If these improvements have not been previously completed by APTIM. Coordinate this comment with 33 51 10 and 33 51 11.	This work is to be performed under a separate contract by APTIM.
134	---	01 26 00	NMWDA & County	Can the forms be completed and submitted electronically in lieu of paper copies? Please consider.	Comments are conflicting regarding electronic versus hardcopies. As of right now, anything requiring a signature is to include hardcopies.
135	---	01 26 00 (Section 1.1.1.B2)	NMWDA & County	Consider allowing five (5) days for CME to respond to RFIs. Some requests will involve coordination with others.	Revised to five (5) days.
136	---	01 32 33 (Section 1.5.C1)	NMWDA & County	...Microsoft 10 or later. Not sure the older versions are still current or supported.	Older versions were removed.
137	---	01 40 00 (Section 1.10C)	NMWDA & County	...three (3) copies of the approval to the CONSTRUCTION MANAGEMENT ENGINEER.	Revised as noted.
138	---	01 45 00 (Section 1.13A)	NMWDA & County	Second sentence: ...shall be submitted to the OWNER and CME...	Revised as noted.
139	---	31 05 15 (Table 31 05 15-1)	NMWDA & County	Under Location Column: "Closure Cap Subgrade" is soil layer below the geotextile layer in the Geosynthetic Closure Cap (not geomembrane) and below the Low Permeability Soil in the Earth Closure Cap. Similar comments for the Vegetative Support Soil which is over the geocomposite, or the geotextile.	Changed "geomembrane" to "geosynthetics" to be more accurate.
140	---	31 05 15 (Table 31 05 15-1)	NMWDA & County	"Low Permeability Soil" is also part of the Earth Closure Cap Section. Please include reference to this layer.	Revised table.
141	---	31 05 15 (Section 1.4 A)	NMWDA & County	Confirm that Geotechnical Testing Lab qualifications under Section 01 40 00 are not achievable for local firms. Please confirm for Geotechnical and Geosynthetics Laboratories.	Local firms can meet the qualifications.

Gude Landfill Remediation Design Comments on Revised 60% Design		Compiled By (Entity): NMWDA/Montgomery County
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142	---	31 05 15 (Section 1.5.1 A)	NMWDA & County	identify who CONTRACTOR delivers tickets to for off site materials	Added delivery to the CME.
143	---	31 05 15 (Section 1.5.2 A and B)	NMWDA & County	Under A, define when certified reports are to be provided; under B, 14 day requirement from date of sample collection in the field is unnecessary.	Added requirement to submit 7 days before material will be delivered. 14 day requirement was maintained to ensure the results can be reviewed to identify any non-compliance.
144	---	31 05 15 Section 1.7.1 B)	NMWDA & County	replace "each lift" in second to last sentence, replace with "selected lifts"	Updated.
145	---	31 05 15 (Table 15-2)	NMWDA & County	Strongly recommend using ASTM D698 rather than 1557 for closure cap tests. ASTM 1557 yields lower optimum moistures in general and is more suitable for foundations than LF caps. ASTM D698 is already specified for Pond Embankment Soil. Best to stick with one test method.	Changed to Standard Proctor unless Modified Proctor is required to meet material specs.
146	---	31 05 15 (Table 15-2)	NMWDA & County	For Vegetative Support Layer, Direct Shear ASTM D5321 applies to a soil-liner interface.	This will be further evaluated for the 100% design.
147	---	31 05 15 (Section 1.7.4 A)	NMWDA & County	A.Same comment as above regarding Modified vs. Standard Proctor. Also, use ASTM D698 instead of AASHTO T-99 (same exact test, but different standards). Achieving 95% Modified Proctor compaction will be very difficult on a landfill cap and will require tighter moisture control. Suggest 95% Standard Proctor.	Updated.
148	---	31 05 15 (Section 1.7.4.B)	NMWDA & County	Define "continuously monitored"---it can be interpreted differently.	"Continuously" has been removed. The next sentence defines the frequency.
149	---	31 05 15 (Section 2.1.C)modified	NMWDA & County	Same comment on compaction as above. Use ASTM D698, not AASHTO T-180. Delete 100 pcf maximum dry density requirement---unnecessary. Also, Method D is for a 6-inch mold, not the standard 4-inch mold. Why? Please respond.	Updated to Standard Proctor. Requirement for Method D has been removed. Dry density requirement has been retained for consistency with MDOT SHA specifications.
150	---	31 05 15 (Section 2.1 D.)modified	NMWDA & County	GM, SW, SP and SM criteria for Closure Cap Subgrade mean granular soils with high permeability. Why not allow SP-SM, GP, CL, CL-ML?	Additional classifications have been added.

Gude Landfill Remediation Design
Comments on Revised 60% Design

Compiled By (Entity): NMWDA/Montgomery County

Compiled By (Staff): A.Kays / J.Foster

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151	---	31 05 15 (Section 2.2 A., B, C and D)	NMWDA & County	Same comment as above on limiting Vegetative Support Soil to GM, SW, SP or SM. "Maximum permeability" of 10-4 cm/sec is misleading--do you mean not lower than? Specify compaction basis for 90%. D85 requirement of >0.089 mm is unnecessary. Internal friction angle of 30 degrees needs more detail...indicate test method, loads, compaction.	This will be further evaluated for the 100% design.
152	---	31 05 15 (Section 2.3)	NMWDA & County	Low Permeability Soil criteria should be revised to allow for more than CL or CH soil (ie., CL-ML, SM-ML, etc.), delete Atterberg criteria (already part of the USCS Classifications), redefine compaction criteria based on soils used. The table of gradation criteria is problematic--P200 of 80% is excessive for 10-5 soil, and need to define "clay" size fines.	Added additional classifications, removed Atterberg limits criteria, and removed table.
153	---	31 05 15 (Section 3.2)	NMWDA & County	Under B, who decides whether to remove 12" or 18" of existing soil cover? And why?	Clarified.
154	---	31 05 15 (Section 3.2.3)	NMWDA & County	Under L, what is basis of +0.2 ft grading tolerance? Does this allow for settlement over time?	Revised to 0.1 ft tolerance to limit potential cost.
155	---	31 05 15 (Section 3.3)	NMWDA & County	Same comment about achieving 95% ASTM D1557 vs. 698 for low permeability soil. Insert "minimum" before "two (2) feet compacted thickness. Delete phrase ".....whichever is greater." Defining moisture content range of 0 to 5% is premature at this time...depends on soil used. Allow contractor to test borrow soils and come up with compaction criteria to meet permeability requirements.	Updated to Standard Proctor, "minimum" is not required because tolerances define this, deleted phrase, and refined moisture content requirement.
156	---	General Comments	NMWDA & County	Use ASTM D698 for compaction criteria (not ASTM D1557) and switch from AASTHO to ASTM. Do not over specify soil criteria--- leave room for flexibility. Please consider.	Requirements have been adjusted based on comments above.
157	---	31 05 19.16 Geomembrane	NMWDA & County	Mention upfront that LLDPE is to be Textured, not smooth. Please address.	Added.
158	---	31 05 19.16 (Section 1.2.1)	NMWDA & County	Revise dates of GRI methods to 2020 standards (GM17, Revision 13: Sept. 9, 2019 and GM19a and 19b, Revision 9: July 28, 2017.	Revised.

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159	---	31 05 19.16 (Section 1.4)	NMWDA & County	Is 30 million sq. ft per year reasonable? What or who defines an "Approved Installer?" Please advise.	Yes, this should easily be met. Manufacturer advises as to whether or not they are an "Approved Installer".
160	---	31 05 19.16 (Section 1.7.4)	NMWDA & County	Suggest slightly higher normal stresses for testing: 200, 350 and 700 psf. Specify that each interface to be tested separately. Please address.	This will be discussed for the 100% design.
161	---	31 05 19.16 (Section 1.7.4 A.1)	NMWDA & County	What is the purpose of the five (5) minimum 12-inch square coupon to be retained as archive? The destructive sample required under Section 3.6.2 is usually the only archive sample that is required. Please confirm.	The five coupons are representative samples of the material while the other samples are of the seamed material. Both are for the purpose of documenting the project.
162	---	31 05 19.16 (Table 2)	NMWDA & County	Update Table 2(a) to match GM17, unless designer prefers different values. For Thickness, minimum average should be 40 mil - 5%; Density is 0.939, not 0.940; elongation at Break is 250% and break strength is 60 ppi; tear resistance is 22 lb., oven aging is different; shear is misspelled.	Revised to match most current revision of GM17.
163	---	31 05 19.16 (Tables 2 and 3)	NMWDA & County	Please consider putting these tables under Section 2 - Materials.	Moved.
164	---	31 05 19.16 (Table 3)	NMWDA & County	Interface friction values of 27 degrees is based on a simplified veneer stability analysis, assuming soil has 28 degrees friction; minimum interface value seems slightly high and could be hard for geosynthetics to achieve with silty or clayey subgrade soils. Check veneer stability models or rerun using another method....only need FS=1.5; it's possible 25 degrees, or even less, is sufficient. Need to check for seismic forces and for drainage conditions, too. Delete column with 0 Adhesion values and suggest adding a note that allows "adhesion" to be factored into shear strength requirement. In other words, to achieve the equivalent of 27 degrees at 0 adhesion, lower friction plus adhesion should be acceptable.	Did not modify friction angle but clarified that interface shear strength could be met with combination of adhesion and friction angle.
165	---	31 05 19.16 (Section 2)	NMWDA & County	Please consider putting these tables under Section 2 - Materials.	Moved.

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166	---	31 05 19.16 (Section 3.3.2)	NMWDA & County	Under D., define "horizontal" seam. Recent studies indicate horizontal seams are acceptable in some cases. Under E, define "good fit", "excessive slack", and similar vague terms, or reword to avoid potential conflicts of understanding with contractors.	Horizontal seam has been defined. A qualified installer should not have an issue with this language. The CME and MDE inspector will visually determine if it does not meet these criteria.
167	---	31 05 19.16 (Section 3.3.4)	NMWDA & County	Is seaming allowed in sub-40 degree cold weather if sheets are preheated, or seams are covered with a tent, or contractor performs confirmation tests?	Yes. Temperature requirement was revised to 32 degrees and additional requirements were added.
168	---	31 05 19.16 (Section 3.4.2)	NMWDA & County	Post-Weld Trial Seams is typically not required as long as pre-trial seam testing is performed at the start of each production seaming in the morning, afternoon, and following any welding equipment shutdown. This requirements are already covered under Section 3.4.1. Section 3.4.2 should be deleted.	The specification was not revised.
169	---	31 05 19.16 (Section 3.6)	NMWDA & County	Please consider allowing destructive tests at 1000 feet intervals if initial tests at 500 feet all pass.	The specification was not revised.
170	---	leave open	NMWDA & County		NA
171	---		NMWDA & County		NA
172	---	31 05 19.26 (Tables 1)modified	NMWDA & County	Please consider putting Table 1 under Section 2 Materials.	Agree. Table has been moved.
173	---	31 05 19.13	NMWDA & County	Table 2 should be in Section 2 Materials. Under Notes: AOS= "Apparent Opening Size". Please confirm the AOS acronym.	Correct. Revised.
174	---	31 05 19.13 (Section 3.3)	NMWDA & County	Under A.1., replace "geomembrane" with "geosynthetic." Under A.2, explain what is meant by "...use of ATVs is considered to be at CONTRACTOR's risk....." Risk of what? Under A.4 what is the purpose of the CME inspecting ATV's? And, for what?	Replaced; risk for damage; for leakage or other potential risks to the geosynthetics.
175	---	31 05 19.13 (Section 3.5)	NMWDA & County	14 day restriction for exposed geotextiles (UV radiation) is very restrictive; suggest checking with mfgs. as to when UV damage begins to occur or allow contractor to test material properties before requiring removal.	The following was added at the end of the 1st sentence "unless a longer period is documented by the manufacturer and approved by the CONSTRUCTION MANAGEMENT ENGINEER."

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176	---	33 51 10 (Section 3.4)	NMWDA & County	Who provides the test form? How is the temperature correction supposed to be performed? Manometer specified is a hand-held model, how is this installed into testing apparatus?	Contractor is to provide form. Requirements for form were added.; Temperature adjustment removed since this is more common for hydrostatic testing.; The rest of language was revised regarding the manometer.
177	---	33 51 10 (Section 3.5)	NMWDA & County	Don't recommend detailing steps to finding/fixing a leak. Leave it to the Contractor to find/repair problems and retest.	The specification was not revised.
178	---	33 51 10 (Section 1.5)	NMWDA & County	Don't think that the Contractor will be submitting shop drawings of the LFG system that include details not shown in the design plans.	Noted.
179	---	33 51 11 (Section 1.10)	NMWDA & County	Recommend having a pay item for well abandonment, this can be a risk item that will increase costs. Water has historically been an issue with well installations.	The Contractor will not be paid for wells installed that do not meet the criteria due to their construction. If the CME directs the Contractor to abandon a borehole due to obstructions or other issues then they can be paid. A pay item for well abandonment during installation has been added.

Gude Landfill Remediation Design				Compiled By (Entity): NMWDA/Montgomery County	
Comments after MDE 60% Review and MDE Meeting No. 2 (2-18-2020)				Compiled By (Staff): A.Kays / J.Foster	
				Date: 3/16/2020	

Item	Page No. / Sheet No. / Location	Commenter	Comment	Response	
MDE 60% Design Review and MDE Meeting No. 2					
1	---	Follow-up after MDE 60% Design Review	NMWDA & County	EA to address MDE review comments as provided by Kassa Kebede via email on 1/27/2020. EA to provide a separate comment/response document to provide to MDE with the 90% Design.	EA reviewed these comments and discussed them at the meeting with MDE on 2/18/2020. The comments were not substantive, with the exception of the comments that were retained from the meeting. No separate response to comments are required.
2	---	Follow-up after MDE Meeting	NMWDA & County	EA to evaluate condensate capture per MDE comment. EA to evaluate the alternative of condensate re-introduction to dry areas of waste and the resulting potential for additional gas generation. Review current landfill gas collection/control system design for sufficient coverage. Provide additional information prior to or within the 90% Design.	Per the minutes, it was discussed that EA will review the condensate drain locations along with the landfill gas extraction well locations to ensure there is sufficient coverage to capture landfill gas. EA has performed a review and has included discussion in the BOD Report.
3	---	Follow-up after MDE Meeting	NMWDA & County	EA to evaluate the 1 ft. subgrade soil over the waste (in lieu of the 2 ft. layer) and provide procedures to ensure protection of the geosynthetic cap from penetrations (i.e., waste protruding through the subgrade). Provide additional information prior to or within the 90% Design.	Per the minutes, Kassa noted that EA can request a variance from COMAR 26.04.07.10 and include quality control provisions (e.g., such as compacting the relocated waste on-site and proof rolling the subgrade) in the construction documents to ensure there will be no protrusions. EA has added requirements to Specification Section 02 61 13.13, Waste Excavation and Handling, and will submit a variance request on behalf of the County to MDE.

Gude Landfill Remediation Design				Compiled By (Entity): NMWDA/Montgomery County
Comments on FTLA Passive Land Use 60% Design				Compiled By (Staff): A.Kays / J.Foster
				Date: 3/16/2020

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FTLA Passive Land Use - 60% Design					
1	---	BODR / Cost Estimate / Plan Set	NMWDA & County	Various editorial comments are included as red-lines in the documents: BODR, Cost Estimate, Plan Set.	Revised as noted.
2	---	Pg. 4 / Section 2 / BODR	NMWDA & County	Adding "to the sensitive infrastructure" after 'minimize risk' in the second paragraph, second sentence.	Added as noted.
3	---	Pg. 4 / Section 2.2 / BODR	NMWDA & County	Adding "only" after 'by pedestrians' in the first paragraph, second sentence.	Added as noted.
4	---	Pg. 4 / Section 2.2 / BODR	NMWDA & County	In the second paragraph, for the County: how often will mowing be undertaken under the idea of 'regular'?	Revised to read: "Areas adjacent to the gravel access roads will be mowed as needed to maintain a short meadow edge condition."
5	---	Pg. 6 / Section 3.2 / BODR	NMWDA & County	Last bullet under 'Inside Fenced Areas'; 'pee post' may be a term of art, but maybe use "canine urination post"?	Removed description.
6	---	Pg. 8 / Section 4.2 / BODR	NMWDA & County	Waystation #2, second sentence, will this waystation include a digital display for the data, or written text?	The idea is to coordinate placement of a QR code that can be scanned by a smart phone with direct link to website with data/ information available online. Additional coordination needed. Revised to read: Removed description. The intent is to coordinate a QR code display that can be scanned with a smart phone for digital access for the public to easily connect to current and historical information collected by the weather station."
7	---	Page 11, Section 6.1 / BODR	NMWDA & County	Adding "with input from DEP and MNCPPC" after 'will be developed' in the first paragraph, first sentence.	Revised as noted.
8	---	Cost Estimate	NMWDA & County	Will there be a local purchasing preference for these materials or contracting for local artists?	Further discussion required. Pope Farm, a local County owned nursery, would be ideal for purchasing trees and potentially constructing some of the site elements.
9	---	Cost Estimate	NMWDA & County	Discuss concrete footers and corrective spelling error.	We are evaluating footer design and will revise the estimate accordingly. Revised spelling error.
10	---	L201 / Plan-Set	NMWDA & County	Add a few more references noting C-3.	Revised.
11	---	L201 / Plan-Set	NMWDA & County	For the legend, Signage notes, fix reference to Disc Golf Tee Post (should be 5/L301) and carry through to subsequent legends.	Revised.

Gude Landfill Remediation Design		Compiled By (Entity): NMWDA/Montgomery County	
Comments on FTLA Passive Land Use 60% Design		Compiled By (Staff): A.Kays / J.Foster	
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FTLA Passive Land Use - 60% Design					
12	---	L202: 3 / Plan-Set	NMWDA & County	Will there be a drainage plan for this feature to prevent ponding and possible mosquito breeding areas?	The design of the feature will be revised to rest at grade, with positive drainage between openings
13	---	L300: 2 / Plan-Set	NMWDA & County	Will a direct bury with no support plate be sufficient?	Footing design will be evaluated and revised for all elements. FTLA to coordinate with EA Engineering.
14	---	L300: 1 / Plan-Set	NMWDA & County	Looks like there is 1 foot, 8 inches of cover. Will this trigger an MDE variance?	Footing design will be evaluated and revised for all elements. FTLA to coordinate with EA Engineering. Intent is to avoid need for a variance.
15	---	L301: 4 and 5 / Plan-Set	NMWDA & County	This requires 3.0 feet of soil cover over the geosynthetic liner, has EA accounted for this in the grading?	Footing design will be evaluated and revised for all elements. FTLA to coordinate with EA Engineering.
16	---	L302: 1, 2, 4, and 5 / Plan-Set	NMWDA & County	This requires 2.5 feet of soil cover over the geosynthetic liner, has EA accounted for this in the grading?	Footing design will be evaluated and revised for all elements. FTLA to coordinate with EA Engineering.
17	---	L302 / Plan-Set	NMWDA & County	Detail 3 is missing.	Detail will be provided.
18	---	L400: 2 / Plan-Set	NMWDA & County	For the cedar, what is the typical life? Concerns with splintering?	Natural preservatives resist rot; straight grain and uniform texture to make it dimensionally stable. Could opt to use a pressure treated landscape timber as an alternative.
19	---	L400: 3 / Plan-Set	NMWDA & County	Is there any special treatment for the stumps to slow/prevent rotting below grade? Are there preferred species to use in this application?	Revise detail to show gravel base and perimeter to minimize degradation. Alternatively, a concrete replica stump can be specified.
20	---	BODR / Cost Estimate / Plan Set	NMWDA & County	Various editorial comments are included as red-lines in the documents: BODR, Cost Estimate, and Plan Set.	Revised as noted.
21	---	Pg. 4 / BODR Report	NMWDA & County	Are the dimensions approved for gravel roads (15'), gravel trail network, and the maintenance grass cut distance 10' each side of gravel access road/trail?	Revised to add "proposed" and "are anticipated to have a width of".
22	---	Pg. 5 / BODR	NMWDA & County	Does the Highpoint Lookout and seating need to be ADA compliant?	The 2010 ADA Standards Section 240 includes requirements for play areas and play components including an accessible route. In this particular case, traditional play components that would be subject to this requirement are not included.

Gude Landfill Remediation Design
 Comments on FTLA Passive Land Use 60% Design

Compiled By (Entity): NMWDA/Montgomery County

Compiled By (Staff): A.Kays / J.Foster

Date: 3/16/2020

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FTLA Passive Land Use - 60% Design					
23	---	Pg. 5 / BODR	NMWDA & County	Should there be educational signage for vectors, such as ticks and associated risks for Lyme Disease?	Yes. We should include informational signage at the two public entrances along Gude Trail that list expectations/restrictions for use of the park and information about vectors such as ticks. Section 4.3 updated. Draft text and layout of signage will be submitted for review prior to 90% CD submission.
24	---	Pg. 5 / BODR	NMWDA & County	How does liability typically work for parks? Should we consider any indemnity/disclaimer signage upon entry and along trails?	Yes. We should include informational signage at the two public entrances along Gude Trail that list expectations/restrictions for use of the park. Section 4.3 updated. Draft text and layout of signage will be submitted for review prior to 90% CD submission.
25	---	Pg. 5 / BODR	NMWDA & County	Please evaluate installing more pet waste receptacles (one vs. more).	Initially we only included only one based on understanding that Derwood Station would be responsible for contracting trash removal. If the County is taking responsibility, further discussion is needed to determine best location. We recommend providing receptacles at two waystations (waystation near dog park and waystation at highpoint lookout).
26	---	Pg. 11 / BODR	NMWDA & County	Please confirm whether the language pertaining to the expansion of Pond 3 is still applicable.	Pond 3 is no longer required to be designed as a stormwater management facility. This section will be removed from the BODR.
27	---	Cost Estimate	NMWDA & County	Recreational Land Uses is \$2M in FTLA's 60% detailed estimate. In the EA Revised 60%, recreational land uses is \$2.14M as a lump sum estimate. Have the cost line items been correlated between the estimates?	To be resolved in 90% submittal.
28	---	Plan-Set	NMWDA & County	Sheet L100 and others. It is not typical, but I would suggest you identify the Community Access Points (Gates) and the Gravel Access Road/Trail Network on all the sheets where they can be viewed.	Revised as noted.
20	---	BODR	Mark Gutberlet	Anchoring designs for the various elements will be evaluated in more detail for the 90% Design to ensure they are stable and do not impact the cap.	<i>This is a status update. No response required.</i>
21	---	BODR	Mark Gutberlet	No bicycles allowed on landfill - open to discussion about how to discourage and/or enforce if becomes an issue.	<i>Jamie Foster. The County agrees that bicycles should not be allowed on the landfill. We should develop a plan to enforce this restriction.</i>

Gude Landfill Remediation Design				Compiled By (Entity): NMWDA/Montgomery County
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FTLA Passive Land Use - 60% Design				
Item	Page No. / Sheet No. / Location	Commenter	Comment	Response
22	---	BODR	Mark Gutberlet	Trash receptacle at dog play area may be contingent on acceptable County/community maintenance plan.
				<i>Jamie Foster. Trash receptacle and dog play area will be maintained by County's property maintenance contractor as part of the site's post-closure care. Evaluate installing more pet waste receptacles.</i>

Gude Landfill Remediation Design Comments on Environmental Assessment Outline / Report				Compiled By (Entity): NMWDA/Montgomery County	
				Compiled By (Staff): A.Kays / J.Foster	
				Date: 3/16/2020	
Item	Page No. / Sheet No. / Location	Commenter	Comment	Response	
Environmental Assessment Outline / Report					
1	---	Initial Review of Outline.	NMWDA & County	No County comments at this time. EA to proceed with developing a draft for review. (Issued to EA by County on 3/9/2020).	N/A
2	---	Initial Review of Outline, Section 2.	NMWDA & County	Should waste excavation and relocation be included as a construction phase impact and mitigation?	We have framed the report so that the potential nuisances related to waste excavation and relocation are discussed separately (noise, odor, dust, etc.).
3	---	Initial Review of Outline, Section 2.	NMWDA & County	Should the potential encounter and removal of hazardous waste be included as a construction phase impact and mitigation?	A section has been added for potential hazardous waste removal.
4	---	Initial Review of Outline, Section 2.	NMWDA & County	Should the potential encounter and removal of contaminated recyclable materials be included as a construction phase impact and mitigation?	The design does not include removal of contaminated recyclable materials so they do not need to be discussed separately from nuisances related to waste excavation.
5	---	Initial Review of Outline, Section 2.7.	NMWDA & County	Will Erosion and Sediment Control be included under "Stormwater Runoff" as a construction phase impact and mitigation? E&S transport can present different challenges than clean stormwater runoff.	Yes, the report addresses erosion and sediment control measures.