| **Goals - Scope of work - Where, Why and How** |
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| Location  | * Marcus Whitman hotel and Conference Center
 | * Goal – Vapor Mitigation that protects life and safety as well as economic interests by having the least impact to regualar operations as possible
 |
| Location | * Building 106
 | * Goal – Vapor Mitigation that protects life and safety as well as operational functionality
 |
| Other locations | * To be determined
 | * Vapor Mitigation that protects life and safety as well as economic interests
 |

| **Location** | **Engineering Controls** | **Action Levels** | **Contingency Actions** |
| --- | --- | --- | --- |
| Marcus Whitman Hotel and Conference Center  | * Ventilation – Fresh air supply will be ducted from the buildings air handler unit to provide a continuous supply of fresh air from outside of the building to the sub basement and basement. Exhaust - Using an decomissioned boiler duct that is plummed directly from the subbasement to a crawl space in between the 1st and 2nd floors and then having HVAC ducting added to that to create a permant duct that runs to the external of the building at a feasible point of exit above the first floor level. The current ventilation units will then be rerouted to the new permanent ducting alolong with the addition of an HVAC interal booster fan to assist the current ventilation units with the extraction of the air.
* Air Quality - Continous/intermitted air monitoring and logging
* Air lock system to contain all contaminated air within the designated zones.
* Installation of walls/doors at specified locations to protect and fortify the existng air lock system as well as allow for the removal of certain air locks to increase hotel access to spaces needed for continued operations
* Soil – Treatment of the soil in designated time intervals to increase vapor suppression and assist with barrier tactics. Soil vapor barrier using a combination of a strong plastic over the top of perforated collection pipes that will be directly connected to ventilation units to direct the vapors to the above-mentioned exhaust system
* Building faults/crack and unknowns – Cracks are to be treated and sealed on a case by case basis through discovery and further actions may need to be implemented depending on the severity upon discovery
 | * Per city order evacuation of the building will be initiated if any non basement, occupiable space whether that be worker or guest achieves a VOC level of greater than 5ppm or any detecable LELs
* Hotel functionality Action level – Any VOC level greater that .5 ppm in a non basement, occupiable space whether that be worker or guest comes or any gasoline odor is not suitable to for the hotels functionality.
 | * Increase Soil Treatement intervals
* Remove product build up causing increased vapor intrusion
* Increase ventiltion input/output
* Epoxy or other suitable methods of sealing cracks/areas of concern
 |
| Building 106 | * Ventilation – Two 12-inch, 1842 CFM ventilation blowers with temporary ducting ran to the roof of the building. 1 drawing air from the sump room to catch any breakthrough and 1 connected directly to the sump ventilation tube. Fresh air ventilated directly into sump room from an 8inch, 1,275 cfm ventilation unit
* Cap of sump with poly sheeting and ventilation tube
* Air Quality – Continuous/intermitted air monitoring and logging
* Air lock system to contain all contaminated air within the sump room
 | * VOC action level of 50ppm and LEL of 5 within the sump room and sump area
 | * Remove product build up causing increased vapor intrusion
* Increase ventiltion input/output
* Cleaning/treating of sump to remove any contimantion build up
 |
| Other building locations | * Immediately Operations Section meeting to develop a plan of action
* Ventilation - 12 inch, 1842 CFM ventilation units with temporary ducting for exhausting of contaimnents and 8inch 1,275 CFM ventiltion units for fresh air supply if needed
* Air lock system to isolate contaminated area/s if needed
* Air Quality - Continous/intermitted air monitoring and logging if needed
* Soil – Treatment, vapor suppression and vapor barriers if needed
 | * VOC action level of 5ppm and any detectable LELs
 | * Remove product build up causing increased vapor intrusion
* Immedietly scale up pumping operations to include wells if needed to prevent a severe impact to another location
* Implement engineering controls as needed
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| **Implementation Timeline** |
| * + Building 106 - Ventilation mitigation plan to be in full effect by next operation period: 30OCT2023
	+ Marcus Whitman Hotel and Conference Center – Ventilation mitigation plan to be in full effect by the following operation period: 06NOV23
	+ Other Locations - Auxiliary supplies needed to engage in emergency actions to be staged and ready by the following operation period: 06NOV23
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| **Vapor Mitigation Plan Review and Sign Off** |
| **NAME (Print)** | **Signature** | **Date** | **Signature** | **NAME (Print)** | **Date** |
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| **Notes** |
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