PART 5 - GROUNDWATER DETECTION MONITORING

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PART 5 - GROUNDWATER DETECTION MONITORING

5.1 DETECTION MONITORING PROGRAM

This Part specifies the requirements of the Detection Monitoring Program (**DMP**). The DMP shall establish background groundwater quality and monitor indicator parameters and waste constituents that provide a reliable indication of the presence of hazardous constituents in the groundwater, as required by 20.4.1.500 NMAC (incorporating 40 CFR §§264.97 and 264.98).

The DMP consists of six Detection Monitoring Wells (**DMWs**) located hydraulically upgradient and at the downgradient point of compliance of the WIPP Underground Hazardous Waste Disposal Units (**Underground HWDUs**). The DMWs are screened in the Culebra Member of the Rustler Formation.

A DMP is necessary to demonstrate compliance with the environmental performance standard for the Underground HWDUs, as specified in 20.4.1.500 NMAC (incorporating 40 CFR §264.601(a)). This environmental performance standard requires prevention of any releases that may have adverse effects on human health or the environment due to migration of waste constituents in the groundwater or subsurface environment.

5.2 IDENTIFICATION OF POINT OF COMPLIANCE

The point of compliance is the vertical surface located perpendicular to the groundwater flow direction at the DMWs that extends to the Culebra Member of the Rustler Formation [20.4.1.500 NMAC (incorporating 40 CFR §§264.95, 264.601, and 264.602)]. The Permittees shall conduct the DMP at DMWs specified in Table 5.3.1, and as required by 20.4.1.500 NMAC (incorporating 40 CFR §§264.98 and 264.601).

5.3 WELL LOCATION, MAINTENANCE, AND PLUGGING AND ABANDONING

The Permittees shall conduct the DMP according to the requirements of this Permit and 20.4.1.500 NMAC (incorporating 40 CFR §264 Subpart F) for the DMWs in the Culebra Member of the Rustler Formation.

The Permittees shall maintain the DMP in compliance with 20.4.1.500 NMAC (incorporating 40 CFR §264.97), and as specified below:

5.3.1 Well Locations

The Permittees shall maintain the DMWs at the locations specified on the map in Figure M-70 of Permit Attachment M, as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.97(a) and §264.98(b)), and as specified in Table 5.3.1 below:

Table 5.3.1 - Well Locations

Well Name	State Plane Coordinates	Top of Casing Elevation (ft amsl)	Screen Interval Depth (ft below ground surface)	Sampled Unit
WQSP-1	663595E, 503784N	3419.2	702 - 727	Culebra
WQSP-2	667580E, 505537N	3463.9	811 - 836	Culebra
WQSP-3	670573E, 503991N	3480.1	844 - 869	Culebra
WQSP-4	670645E, 494986N	3433.1	764 - 789	Culebra
WQSP-5	667165E, 493665N	3384.4	646 - 671	Culebra
WQSP-6	663681E, 494948N	3364.7	581 - 606	Culebra

5.3.2 Well Maintenance

The Permittees shall maintain the DMWs specified in Table 5.3.1 and in Permit Attachment L, Section L-3b and in Permit Attachment M, Figures M-71 through M-76, and as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.97(c) and §264.98(b)).

5.3.3 Well Plugging and Abandoning

The Permittees may propose to plug and abandon a DMW by submitting a permit modification request to the Secretary in compliance with 20.4.1.900 NMAC (incorporating 40 CFR §270.42). The Permittees shall plug and abandon any DMW in a manner which eliminates physical hazards, prevents groundwater contamination, conserves hydrostatic head, and prevents intermixing of subsurface water. The Permittees shall submit a report to the Secretary which summarizes and certifies DMW plugging and abandoning methods within 90 calendar days from the date a DMW is removed from the DMP.

5.4 DETECTION MONITORING PROGRAM PARAMETERS AND CONSTITUENTS

The Permittees shall conduct the DMP at the DMWs as specified in Table 5.3.1 for the indicator parameters listed in Table 5.4.a and the hazardous constituents listed in Table 5.4.b below and as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.98(a)):

Table 5.4.a - Indicator Parameters	
pH	Specific conductance
Total organic carbon (**TOC**)	
Total dissolved solids (**TDS**)	Total suspended solids (**TSS**)
Specific Gravity	Calcium
Magnesium	Potassium
Chloride	

Table 5.4.b - Hazardous Constituents

Chloroform	1,2-dichloroethane
Carbon tetrachloride	Chlorobenzene
1,1-dichloroethylene	1,1-dichloroethane
Methylene chloride	1,1,2,2-tetrachloroethane
Toluene	1,1,1-trichloroethane
Cresols	1,4-dichlorobenzene
1,2-dichlorobenzene	trans-1,2-dichloroethylene
2,4-dinitrophenol	2,4-dinitrotoluene
Hexachloroethane	Hexachlorobenzene
Isobutanol	Methyl ethyl ketone
	Pentachlorophenol
Pyridine	Tetrachloroethylene
1,1,2-Trichloroethane	Trichloroethylene
Trichlorofluoromethane	Xylenes
Nitrobenzene	Vinyl chloride
Arsenic	Barium
Cadmium	Chromium
Lead	Mercury
Selenium	Silver
Antimony	Beryllium
Nickel	Thallium
Vanadium	

5.5 SAMPLING AND ANALYSIS PROCEDURES

Except as provided in Permit Section 5.6, the Permittees shall use the following techniques and procedures to obtain and analyze DMP samples from the DMWs specified in Table 5.3.1, as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.97(d) and (e)):

5.5.1 Sample Collection Procedures

The Permittees shall collect one DMP sample and one DMP sample duplicate annually from each DMW using the procedures specified in Permit Attachment L, Section L-4c, as required by 20.4.1.500 NMAC (incorporating 40 CFR §§264.97(g)(2), 264.98(d), and 264.601(a)).

5.5.2 Sample Preservation and Shipment Procedures

The Permittees shall preserve and ship DMP samples using the procedures specified in Permit Attachment L, Section L-4c(2)(iv).

5.5.3 Analytical Procedures

The Permittees shall analyze DMP samples using the procedures specified in Permit Attachment L, Section L-4c(3).

5.5.4 Chain of Custody Procedures

The Permittees shall track and control DMP samples using the chain of custody procedures specified in Permit Attachment L, Section L-4c(2)(v).

5.6 BACKGROUND GROUNDWATER QUALITY

For those hazardous constituents listed in Table 5.4.b, and for all substances listed in 20.4.1.500 NMAC (incorporating 40 CFR §264 Appendix IX), the background groundwater quality values specified in Table 5.6 are established as specified in 20.4.1.500 NMAC (incorporating 40 CFR §§264.97(g) and 264.98(d)).

Table 5.6 - WQSP Well Background Values

Hazardous Constituent	WQSP-1	WQSP-2	WQSP-3	WQSP-4	WQSP-5	WQSP-6
Chloroform	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L
1,2-dichloroethane	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L
Carbon tetrachloride	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L
Chlorobenzene	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L
1,1-dichloroethylene	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L
1,1-dichloroethane	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L
Methylene chloride	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L
1,1,2,2-tetrachloroethane	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L
Toluene	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L
1,1,1-trichloroethane	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L
Cresols	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L
1,4-dichlorobenzene	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L
1,2-dichlorobenzene	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L
trans-1,2-dichloroethylene	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L
2,4-dinitrophenol	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L
2,4-dinitrotoluene	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L
Hexachloroethane	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L
Hexachlorobenzene	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L
Isobutanol	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L
Methyl ethyl ketone	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L
Pentachlorophenol	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L
Pyridine	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L
Tetrachloroethylene	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L
1,1,2-Trichloroethane	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L

Table 5.6 - WQSP Well Background Values

Hazardous Constituent	WQSP-1	WQSP-2	WQSP-3	WQSP-4	WQSP-5	WQSP-6
Trichloroethylene	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L
Trichlorofluoromethane	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L
Xylenes	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L
Nitrobenzene	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L	5.00 µg/L
Vinyl chloride	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L	1.00 µg/L
Arsenic	0.10 mg/L	0.06 mg/L	0.21 mg/L	0.50 mg/L	0.50 mg/L	0.50 mg/L
Barium	1.00 mg/L	1.00 mg/L	1.00 mg/L	1.00 mg/L	1.00 mg/L	1.00 mg/L
Cadmium	0.20 mg/L	0.50 mg/L	0.50 mg/L	0.50 mg/L	0.05 mg/L	0.05 mg/L
Chromium	0.50 mg/L	0.50 mg/L	2.00 mg/L	2.00 mg/L	0.50 mg/L	0.50 mg/L
Lead	0.11 mg/L	0.17 mg/L	0.80 mg/L	0.53 mg/L	0.05 mg/L	0.15 mg/L
Mercury	.002 mg/L	.002 mg/L	.002 mg/L	.002 mg/L	.002 mg/L	.002 mg/L
Selenium	0.15 mg/L	0.15 mg/L	2.00 mg/L	2.00 mg/L	0.10 mg/L	0.10 mg/L
Silver	0.50 mg/L	0.50 mg/L	0.31 mg/L	0.52 mg/L	0.50 mg/L	0.50 mg/L
Antimony	0.33 mg/L	0.50 mg/L	1.00 mg/L	0.80 mg/L	0.07 mg/L	0.14 mg/L
Beryllium	0.02 mg/L	1.00 mg/L	0.10 mg/L	0.25 mg/L	0.02 mg/L	0.02 mg/L
Nickel	0.50 mg/L	0.50 mg/L	5.00 mg/L	5.00 mg/L	0.10 mg/L	0.50 mg/L
Thallium	1.00 mg/L	1.00 mg/L	5.80 mg/L	1.00 mg/L	0.21 mg/L	0.56 mg/L
Vanadium	0.10 mg/L	0.10 mg/L	5.00 mg/L	5.00 mg/L	2.70 mg/L	0.10 mg/L

5.7 GROUNDWATER SURFACE ELEVATION DETERMINATION

5.7.1 DMP Groundwater Surface Elevation Determination

The Permittees shall determine the groundwater surface elevation at each DMW specified in Table 5.3.1 each time the groundwater is sampled in compliance with Permit Sections 5.5.1 and 5.9.2, using the methods specified in Permit Attachment L, Section L-4c(1), and as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.97(f)).

5.7.2 Regional Groundwater Surface Elevation Determination

The Permittees shall determine the groundwater surface elevation on a monthly basis for each well completed in the Culebra Member of the Rustler Formation in the WIPP Groundwater Level Monitoring Program, as specified in Permit Attachment L, Section L-4c(1).

5.8 GROUNDWATER FLOW DETERMINATION

The Permittees shall determine the groundwater flow rate and direction in the Culebra Member of the Rustler Formation at least annually, as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.98(e)). The Permittees shall use groundwater surface elevation data specified in Permit Section 5.7 to determine groundwater flow.

5.9 DATA EVALUATION

5.9.1 Statistical Procedures

The Permittees shall use the statistical analysis methods specified in Permit Attachment L, Section L-4e, to evaluate DMP data for each hazardous constituent as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.97(h)). These statistical analysis methods shall comply with the appropriate performance standards specified in 20.4.1.500 NMAC (incorporating 40 CFR §264.97(i)).

5.9.2 Groundwater Quality Determination

The Permittees shall sample DMWs as specified in Permit Section 5.5.1 and conduct statistical tests to determine whether there is statistically significant evidence of contamination for any hazardous constituent specified in Table 5.4.b during the active life of the WIPP facility and post-closure care period as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.90(c)).

5.9.3 Data Evaluation

The Permittees shall determine whether there is statistically significant evidence of contamination for any hazardous constituent identified in Table 5.4.b each time the DMWs are sampled as specified in Permit Section 5.9.2. In determining whether statistically significant evidence of contamination exists, the Permittees shall compare the groundwater quality at each DMW specified in Table 5.3.1 to the background groundwater quality determined pursuant to Permit Section 5.6, in compliance with the statistical procedures specified in Permit Section 5.9.1, and as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.98(f)).

5.9.4 Data Evaluation Timeframe

The Permittees shall perform the data evaluations specified in Permit Section 5.9.3 within 120 calendar days after completion of DMP sampling, as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.98(f)(2)).

5.10 RECORDKEEPING AND REPORTING

5.10.1 Operating Record Requirements

The Permittees shall enter all DMP monitoring, testing, and analytical data in the operating record as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.73(b)(6)). The Permittees shall enter these data, as measured and in a form appropriate for the determination of statistically significant evidence of contamination, into the operating record as specified in Permit Section 5.9.1 and as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.98(c)).

5.10.2 Submittal of Results

5.10.2.1 Data Evaluation Results

The Permittees shall submit to the Secretary the analytical results required by Permit Sections 5.4 and 5.9.2, and the results of the statistical analyses required by Permit Section 5.9.3, in the Annual Culebra Groundwater Report by October 31 for the prior calendar year as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.97(j)).

5.10.2.2 Groundwater Surface Elevation Results

The Permittees shall submit to the Secretary groundwater surface elevation data specified in Permit Section 5.7. This submittal shall include both groundwater surface elevations calculated from field measurements and fresh-water head elevations calculated as specified in Permit Attachment L, Section L-4c(1). Water level data shall be reported annually by October 31 for the prior calendar year. The water level data shall be submitted with the Annual Culebra Groundwater Report specified in Permit Part 5.10.2.1.

5.10.2.3 Groundwater Flow Results

The Permittees shall submit to the Secretary an evaluation of the groundwater flow data (to include annotated hydrographs) specified in Permit Section 5.8 in the Annual Culebra Groundwater Report by October 31 of each calendar year.

5.10.3 Determination of Contamination

If the Permittees determine, pursuant to Permit Section 5.9 and 20.4.1.500 NMAC (incorporating 40 CFR §264.98(g)), that there is statistically significant evidence of contamination for any hazardous constituent specified in Table 5.4.b, the Permittees shall comply with the following:

5.10.3.1 Notification

The Permittees shall notify the Secretary in writing within seven calendar days, indicating what hazardous constituents have shown statistically significant evidence of contamination, as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.98(g)(1)).

5.10.3.2 Appendix IX Sampling

The Permittees shall immediately, but no later than one month, sample the groundwater in all DMWs specified in Table 5.3.1 for which there was statistically significant evidence of contamination. The remaining DMWs shall be sampled within two months after statistically significant evidence of contamination is found in any DMW. All DMWs shall be sampled to determine the concentration of all substances identified in 20.4.1.500

NMAC (incorporating 40 CFR §264 Appendix IX), as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.98(g)(2)).

5.10.3.3 Verification Sampling

As specified by 20.4.1.500 NMAC (incorporating 40 CFR §264.98(g)(3)), for any substances found in the initial analysis pursuant to Permit Section 5.10.3.2, the Permittees may resample within one month and repeat the analysis for those compounds detected. If the results of the second analysis confirm the initial analysis, these substances shall form the basis for compliance monitoring specified in Permit Section 5.10.3.4. If the Permittees do not resample, the substances found during the initial analysis specified in Permit Section 5.10.3.2 shall form the basis for compliance monitoring specified in Permit Section 5.10.3.4.

5.10.3.4 Submittal of Compliance Monitoring Program

The Permittees shall, within 90 calendar days, submit to the Secretary an application for a permit modification to establish a compliance monitoring program meeting the requirements of 20.4.1.500 NMAC (incorporating 40 CFR §264.99). The application shall include the following information, as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.98(g)(4)):

i. An identification of the concentration of any hazardous constituent specified in Table 5.4.b or any Appendix IX substance detected in the ground water at each DMW at the compliance point.

ii. Any proposed changes to the DMP necessary to meet the compliance monitoring requirements as specified in 20.4.1.500 NMAC (incorporating 40 CFR §264.99).

iii. Any proposed additions or changes to the monitoring frequency, sampling and analysis procedures or methods, or statistical methods used necessary to meet the compliance monitoring requirements as specified in 20.4.1.500 NMAC (incorporating 40 CFR §264.99).

iv. For each hazardous constituent detected at the compliance point, a proposed concentration limit or a notice of intent to seek an alternate concentration limit for a hazardous constituent required by 20.4.1.500 NMAC (incorporating 40 CFR §264.94).

5.10.3.5 Submittal of Additional Information

The Permittees shall, within 180 calendar days, submit to the Secretary the following information, as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.98(g)(5)):

i. All data necessary to justify an alternate concentration limit proposed in compliance with Permit Section 5.10.3.4.iv.

ii. An engineering feasibility plan for corrective action required by 20.4.1.500 NMAC (incorporating 40 CFR §264.100), if necessary.

5.10.4 Demonstration of Outside Contamination

If the Permittees determine, pursuant to Permit Section 5.9, that there is a statistically significant difference for hazardous constituents specified in Table 5.4.b at any DMW at the compliance point, they may demonstrate that a source other than a regulated unit caused the increase or that the detection is an artifact caused by an error in sampling, analysis, statistical evaluation, or natural variation in the ground water. In such cases, the Permittees shall comply with the following:

5.10.4.1 Notification

The Permittees shall notify the Secretary in writing within seven calendar days of determining statistically significant evidence of contamination at the compliance point that they intend to make a demonstration of outside contamination, as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.98(g)(6)(i)).

5.10.4.2 Submittal of Demonstration

The Permittees shall, within 90 calendar days, submit a report to the Secretary which demonstrates that a source other than a regulated unit caused the contamination, or that the contamination resulted from error in sampling, analysis, or evaluation, as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.98(g)(6)(ii)).

5.10.4.3 Submittal of Modification Request

The Permittees shall, within 90 calendar days, submit to the Secretary an application for a permit modification to make any appropriate changes to the DMP, as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.98(g)(6)(iii)).

5.10.4.4 Continued Monitoring

The Permittees shall continue to monitor in compliance with the DMP, as required by 20.4.1.500 NMAC (incorporating 40 CFR §264.98(g)(6)(iv)).

5.11 REQUEST FOR PERMIT MODIFICATION

If the Permittees or the Secretary determines that the DMP no longer satisfies the requirements of 20.4.1.500 NMAC (incorporating 40 CFR §264 Subpart F) and this Permit Part, the Permittees shall, within 90 calendar days of the determination, submit an application for a permit modification to make any appropriate changes to the program in compliance with 20.4.1.500 and .900 NMAC (incorporating 40 CFR §264.98(h) and §270.42).